

**2006 Knotweed Project**  
**Clallam County Noxious Weed Control Board**



# CONTENTS

## Executive Summary

Project Goal .....	3
Project Description .....	3
Participating Groups .....	3
2006 Project Summaries (May-October).....	4
2006 Project Overview Map (Treatments) .....	5
2006 Project Conclusions/Recommendations .....	6
2006 Project Protocols.....	8

## Project Details

Landowner Permissions.....	11
Community Outreach.....	13
Application Methodology/Comments .....	14
Water Quality.....	16

## Project Summaries

Big River.....	18
Sekiu/Clallam Bay .....	32
Sol Duc River (mid).....	40
Quillayute River System.....	54
Hoh River.....	56
Valley Creek .....	57
Dungeness River .....	58
Dosewallips River, Duckabush, Snow Creek, and Salmon Creek .....	59

<b>Program Hours</b> .....	<b>61</b>
----------------------------	-----------

## Appendixes

Appendix I – Herbicide Use .....	62
Appendix II – Example of the Data Dictionary .....	63
Appendix III – Example of Spray Record .....	65
Appendix IV – Landowner Tracking Spreadsheet .....	67
Appendix V - Landowner Form Letter .....	68
Appendix VI – FAQs for Landowners with Knotweed.....	70
Appendix VII – Permission to Enter Private Land and Waiver of Liability .....	75
Appendix VIII – Manually Digging on the Pysht River.....	78
Appendix IX - Big River Inventory and Treatment Data .....	84
Appendix X – Sol Duc River Inventory and Treatment Data .....	100
Appendix XI – Pysht River Treatment Data.....	103

## EXECUTIVE SUMMARY

### Project Goal

The goal of this project was to remove invasive knotweed species from riparian areas of Clallam and Jefferson Counties. The Clallam County Noxious Weed Control Board (CCNWCB) achieved this goal by partnering with many entities and supporting multiple knotweed control projects in both counties as a part of a large scale, ongoing effort to eradicate knotweed throughout the watershed.

### Project Description

This project directly limited the spread of knotweed infestation through on-the-ground control treatments, and indirectly, by providing and coordinating best management practices for public and private landowners who have knotweed on their property. The project also included public education that raised awareness about knotweed impacts to riparian ecosystems. Public outreach fostered community support necessary for long term control of knotweed. Training was provided to interested landowners who owned property with terrestrial sites in danger of relocating to aquatic sites.

In 2006, the program focus was to treat knotweed in riparian areas, including the Big River, the Sol Duc River (mid), and rivers in the Sekiu and Clallam Bay area. CCNWCB also supported efforts by Jefferson County to initiate a program to survey and treat knotweed plants on Snow Creek, Salmon Creek, and the Dosewallips River. CCNWCB tracked and monitored other ongoing projects in the Hoh, Dickey, and Dungeness Rivers. All of these rivers have been chosen for their high significance to fish and wildlife habitat or their natural resource value to public or tribal entities.

*Funded by WSDA, Plant Protection Division, National Forest Service Forest Health Protection Fund, CCNWCB, the North Olympic Community Salmon Fund, and separate funding administered by the Makah Tribe*

### Participating Groups

The Makah Tribe  
 The Quileute Tribe  
 Jamestown S'Klallam Tribe  
 Jefferson County  
 10,000 Years Institute  
 The Washington State Department of Transportation (WSDOT)  
 The Olympic National Park  
 The Elwha Tribe

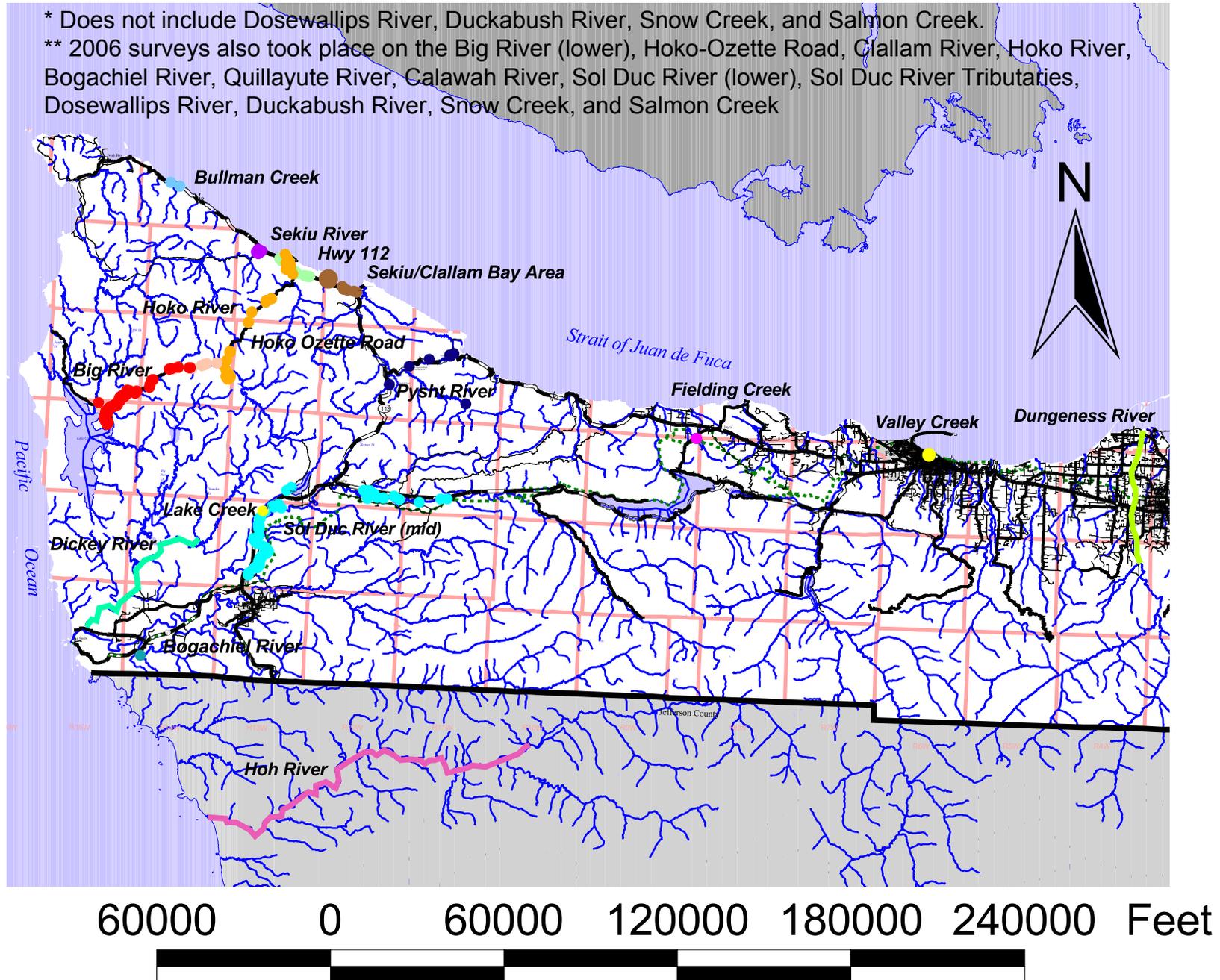
## 2006 Project Summaries (May-October)

- Applied for and administered permits as necessary to conduct work in **27 rivers**, including a National Pollution Discharge Elimination System (NPDES) permit
- Distributed approximately **182 gallons** of herbicide to other Olympic Knotweed Working Group (OKWG) partners. Members of the OKWG used a total of 236 gallons of herbicide (See Appendix I)
- Spent **4,308 hours** training, obtaining landowner permissions, conducting surveys, conducting treatments, public outreach, and project support (See Program Hours Section)
- Conducted **4 outreach events**
- Promoted knotweed control in at least **4 newspaper articles**
- Provided administration and location for taking the pesticide applicator license test in partnership with Washington Department of Agriculture (WSDA)
- Managed **16 existing landowner permissions** on the Big River. Solicited and obtained **67 new landowner agreements** [CCNWCB]
- Surveyed and treated **12.3 miles** of the Big River [CCNWCB/Makah Tribe]
- Surveyed and retreated approximately **18 miles** of the Hoko-Ozette Road or **47 sites** [Makah Tribe/CCNWCB]
- Treated and retreated **38 new sites** in the Sekiu and Clallam Bay Area [Makah Tribe/CCNWCB]
- Treated parts of Hwy 112 [Makah Tribe]
- Treated **24 sites** on the Sekiu River [Makah Tribe]
- Surveyed and treated **12.5 miles** of the Hoko River [Makah Tribe]
- Controlled **2 sites** on the Pysht River [Merrill & Ring/Burdick/CCNWCB]
- Surveyed the Clallam River and found **70 knotweed sites** [Makah Tribe]
- Treated **2 sites** on Bullman Creek [Makah Tribe]
- Treated **30 miles** of the Sol Duc River [CCNWCB/Quileute Tribe]
- Surveyed **46.5 miles** of Sol Duc River tributaries and **15 miles** of the Sol Duc River [Quileute Tribe/CCNWCB]
- Mapped data for the Big River and Sol Duc River using Geographic Information System (GIS) [CCNWCB]
- Trained **3 local landowners** to treat terrestrial sites in danger of reaching the Sol Duc River and provided them with herbicide and equipment [CCNWCB]
- Retreated **4.5 miles** of the Dickey River [Quileute Tribe]
- Treated additional sites on the Bogachiel River, on La Push Road, and on the reservation [Quileute Tribe]
- Surveyed **67.5 miles** of the Quillayute River, Bogachiel River, and the Calawah River [Quileute Tribe]
- Treated **29.8 miles** of the Hoh River [10,000 Years Institute]
- Treated **1 mile** of Valley Creek [CCNWCB]
- Treated **8 miles** or **357 sites** on the Dungeness River [Jamestown S'Klallam Tribe]
- Surveyed **13 miles** of the Dosewallips and Duckabush Rivers [JCNWCB]
- Treated **20 sites** totaling approximately **7,950 square feet** and **6 miles** of the Dosewallips River, Snow Creek, and Salmon Creek [JCNWCB]

# 2006 Project Overview (Treatments)

\* Does not include Dosewallips River, Duckabush River, Snow Creek, and Salmon Creek.

\*\* 2006 surveys also took place on the Big River (lower), Hoko-Ozette Road, Clallam River, Hoko River, Bogachiel River, Quillayute River, Calawah River, Sol Duc River (lower), Sol Duc River Tributaries, Dosewallips River, Duckabush River, Snow Creek, and Salmon Creek



## 2006 Project Conclusions/Recommendations

### NATURE OF THE PROBLEM

- Areas treated last year were reduced in size, but monocultures were evidently still expanding on parts of the Big River that were treated for the first time this year.
- Beavers, utilizing knotweed in the construction of their dams, appear to be the major vector for cane treatment during low flow months. It is very difficult to remove and treat all knotweed fragments from beaver dams.
- On the Big River, the potential of plants moving downstream is high (plant erosion) as well as the potential of sites eroding (site erosion). On the Sol Duc River, plant erosion is high, but site erosion potential is minimal.
- From data collected, knotweed prefers an open canopy in vegetated highwater, sandy areas.
- Small offshoots were continually returning in the path of treatment, making retreatment a significant part of the project.
- Construction activities that disturbed root systems and residents mowing canes were both observed.
- Treatment at sites with possible high salinity water or tidal interactions did not seem to be as effective.
- Established knotweed infestations gain dramatically in size over only 1.5 years.
- There are significant infestations on Sol Duc River tributaries, and new infestations were appearing at the mouth or just downstream of them.

### RECOMMENDATIONS

- Find a way to treat/remove knotweed in beaver dams or in log jams
- Initiate test plots to compare treatments types in a high salinity environment
- Continue to work with the Conservation District on revegetation plans for the Big River

### TREATMENT AND DATA COLLECTION

- Treatment was not effective if herbicide was not applied to every part of the leaves.
- In rivers with shady areas, foliar treatments of a 5-6% glyphosate solution was not effective and worked better when raised to an 8% solution.
- A test plot was done comparing an 8% glyphosate solution with a 5% glyphosate/1% imazapyr solution. After one month, the 8% glyphosate solution worked better.
- In rivers with assumed high salinity, however, glyphosate treatment might work better when supplemented with imazapyr.
- Low flows in the Sol Duc River made treatment slow and more dangerous on foot.
- The remoteness of Big River sites made treatment slow due to driving distances.
- There was some confusion about how to classify data.
- Patches were continuous on the Big River, making site designation nearly impossible and data analysis difficult.
- There were not enough resources to take data points for plants found in the fragment category. However, this designation might be useful in the future when the knotweed is practically eradicated.
- Data was difficult to analyze without knowing if the point taken was for retreatment.

- Data from inventory surveys was difficult to compare to data from treatment surveys.
- Data categorized differently last year was difficult to analyze.

#### **RECOMMENDATIONS**

- Supply a data dictionary manual that includes GPS and GIS operating instructions to remind of how to take data and how to properly classify data (e.g., fragment)
- Clearly define standardized methodology for site designation agreed upon by the OKWG
- Add more options to stem count (maximum should be at least 2,500) in the data dictionary
- Add AquaNeat as an herbicide option
- Add an additional category to indicate whether a treatment was a retreatment during that year
- Add a category to indicate signs of beaver
- Only take points (versus lines and polygons) to ensure consistency of data
- Categorize inventory sites as left and right bank instead of North and South bank (rivers change directions)
- Use the same data dictionary when taking surveys as when taking treatment points
- Ensure data categories are as consistent as possible from year to year

#### **PROGRAM DEVELOPMENT**

- Hiring locals to handle landowner permission was very effective.
- To ensure permission was granted, it was essential to have GIS enabled equipment to establish which parcel you were treating (no visible property lines). It also allowed the crew to fill out spray records more accurately in the field.
- Agency policies that restrict the herbicide use on roadside by county employees complicate effective treatment.

#### **RECOMMENDATIONS**

- Train crews together if they are going to work together. Train employees for half a day on GPS and GIS for all different GPS units being utilized.
- Continue to apply for grants that can be used for GIS enabled equipment
- Pursue exemption for county employees to treat roadsides
- Continue to coordinate knotweed control efforts, share information through a centralized database, and pool resources through networking

## 2006 Project Protocols

### 1. Project Teams- In general, teams were comprised of 2-4 people.

#### **Big River and the Hoko-Ozette Road** (May-October)

**Surveys**- Ross McDormann, Carol Cross, Jake Wright, and Annan Bowlby

**Treatments**- Jake Wright, Annan Bowlby, Sasha Sicks (licensed aquatic applicator), Marsha Key (licensed aquatic applicator), Darcy Stumbaugh (licensed aquatic applicator), Cathy Lucero (licensed aquatic applicator), Rafael Ojeda, Robert Pilatti, Jon Gallie (Makah Tribe licensed aquatic applicator), Tony Pascua (Makah Tribe licensed aquatic applicator), and the Makah Tribe crew

#### **Sol Duc** (July-October)

**Treatments**- Sasha Sicks, Marsha Key, Darcy Stumbaugh, Rafael Ojeda, and an employee of the Quileute Tribe (1 day of rowing)

#### **Sekiu/Clallam Bay Area** (May-August)

**Treatments**-

- Sekiu River, Hoko River, Bullman Creek- Charles DeVaney, Steve Erickson, Jon Gallie, Tony Pascua, and the Makah Tribe crew
- City of Sekiu/Clallam Bay- Cathy Lucero, Sasha Sicks, Marsha Key, Darcy Stumbaugh, and Rafael Ojeda
- Pysht River- Sasha Sicks, Darcy Stumbaugh, and an independently contracted crew hired by Merrill & Ring

#### **Valley Creek** (July-September)

**Treatments**- Cathy Lucero, Sasha Sicks, Marsha Key, Darcy Stumbaugh, Jeff Gabster, Ross McDormann (licensed aquatic applicator), and Alicia Aguirre (licensed aquatic applicator)

#### **Dosewallips River, Duckabush River, Salmon Creek, and Snow Creek** (August-October)

**Treatments/Surveys**- Jake Murray, Jasper Hendricks, Forrest Hendricks, Souhil Alazani, Jeff Gabster (licensed aquatic applicator), Alicia Aguirre, Ross McDorman, Jesse Smith, Kari Nielsen, and Hans Daubenberger

#### **Other Sites** (August-October)

**Treatments**-

- West Snyder Work Camp and Sappho- Jeff Gabster, Ross McDormann, Cathy Lucero, and Allison Halpern
- Fielding Creek- Sasha Sicks and Darcy Stumbaugh treated a site in Joyce
- Spring Tavern- Sasha Sicks and the Clallam County Chain Gang
- Lake Pleasant- Marsha Key treated 2 sites
- Forks county gravel pit- Sasha Sicks, Marsha Key, Darcy Stumbaugh, and Rafael Ojeda

## 2. Invasive Species Surveyed

Bohemian knotweed (*Polygonum bohemicum*) was the dominant knotweed species of concern. The next most common species was Giant knotweed (*Polygonum sachalinense*). Only a few sites contained Japanese knotweed (*Polygonum cuspidatum*). Himalayan knotweed (*Polygonum polystachyum*) was located in only 1 site in Clallam County or western Jefferson County. All four species are class B noxious weeds.

## 3. Surveys

Conducted on foot

## 4. Data Collection & Equipment

CCNWCB used the data dictionary developed by the OKWG. Information was collected by Trimble GEO XT GIS/GPS instrument as well as a Thalus MobileMapper CE. *Pathfinder* software was used for post-processing. We collected the following information: Agency Name, Collector, GIS Projection Reference, Site ID, Species of Knotweed, Stem Count, Cluster Type, Average Stem Height, Site Type, Action Type, Herbicide, Surfactant, Treatment Type, Ownership, Substrate, Plant Erosion Potential, Site Erosion Potential, Comments, Date, and Time (See Appendix II for an example).

## 5. Stem Density Calculation

This calculation was not used in 2006.

In 2005, stem densities were estimated by performing a cane count on a representative sample of a 10 by 10 foot section at each site. This representative cane “count factor” was then applied to come up with the estimate of total number of stems. Because this estimate could be rough and to ensure that herbicide was not over applied to any given site, crews restricted their use of injection to 1,420 canes per acre (the Glypro label, 5 ml rate), even though they were only injecting at a 3 ml rate.

## 6. Permits

A NPDES permit was obtained from WSDA for all water ways of concern. The project followed all posting and notification requirements as outlined in the permit. Final treatment totals at project end were filed. Copies of all spray records were also submitted.

## 7. Landowner Contacts/Permissions

Landowners were contacted for permission to survey or treat prior to any related activity. Standard landowner permissions forms, developed by the WSDA were signed by each landowner when treatment was necessary. Signed copies were submitted to WSDA (See Appendix VII for a sample).

## 8. Treatment, Equipment, and Rate

Full personal protection equipment (PPE) was available to anyone who requested it. However, at a minimum, PPE consisted of long shirt and pants (often raingear), closed toed shoes, gloves, and eye protection. Spill containment and First Aid kits were always onsite. Cell phones were available, but reception was not. Walkie-talkies were available, but rarely used. Mixing took place at one central location. Equipment was triple rinsed at the end of each day, and rinsate was disposed of onsite.

**Injection-** for canes >.5 inches in diameter was applied to the lower internode region  
**Equipment** consisted of JK Injection Systems hand injection guns.

**Rate** applied was 3-4 mls of 100% solution per cane (no surfactants or dyes added). Glypro or AquaNeat was used.

- Using JK short needles resulted in less breakage and increased ability to treat small diameter canes.
- Treated canes were marked with spray paint. Spray paint was low volatile to reduce fumes that were far more nauseating than the herbicide.
- Treatments were limited to 7.5 or 8 quarts per acre per season for AquaMaster and limited to 7.5 per acre per treatment for AquaNeat and Glypro.

**Foliar-** used to treat plants that were too small to inject; or where plant density was great enough to exceed allowable rates per acre with injection

**Equipment** consisted of low pressure, Solo Backpack Sprayers, 4 Gallon capacity

**Rate** applied varied, but was generally in the range of 6-8 % solution of Glypro or AquaNeat, with

- 1-2 % solution of R-11 or Agri-Dex surfactant, and
- .5-1 % solution of Blazon Blue.

**Wipe-** not used in 2006 because it was deemed too labor intensive in 2005. Solution painted onto surface of leaves and canes.

**Equipment** consisted of small foam paint brushes and a solution container with lid.

**Rate** applied was a 33% solution of Glypro or Aquamaster, with

- .5 ounce per gallon of R-11 or Agri-Dex surfactant, and
- No marker dye.

## 9. Spray Records

A pesticide application record, as developed by the WSDA for knotweed, was filled out for each treatment site. Copies were sent to the WSDA (See Appendix III for a sample).

## Landowner Permissions

### SURVEY DATA

In Arcview, survey data points were inserted as a layer on the Clallam County parcel map. Parcels on or adjacent to data points were highlighted and that contact information was exported into Excel. Columns were added to the spreadsheet to find and track phone numbers, alternative contacts, fax numbers, email addresses, contact notes, if permission was given, date permission was given, and access notes (See Appendix IV).

### CONTACTING LANDOWNERS

Phone numbers for landowners were obtained through:

- The local phone book
- Yahoo! people search
- 411
- Contacting other people with the same last name (if unusual)
- Contacting neighbors

If no phone number was obtained or there was no answer, a form letter was sent out to the address associated with their parcel number (See Appendix V).

In conjunction with sending out a letter, one day was set aside to visit the parcel to see if permission could be granted through direct contact.

### TALKING WITH LANDOWNERS

Most landowners were very positive about having their knotweed treated. Newspaper articles and general word-of-mouth in these small communities laid the groundwork for positive interactions. Several concerns and questions from landowners kept arising. To address these issues, a document entitled “Frequently Asked Questions (FAQ) for Landowners with Knotweed” was created (See Appendix VI). This document not only prepared employees on how to answer questions, but also came in handy to give to landowners as supplemental outreach materials.

Issues that arose that were not included in the FAQ included:

- **What do I do if I have a water intake from the river?** The FAQ was revised in October to reflect the answer to this concern. Some landowners mentioned they had water intakes that were “grandfathered” in. Although incidental overspray near water intakes is not limited on the label, it is good to be aware these intakes may exist and be extra careful when making applications near them. Access notes on the landowner spreadsheet also reflect sites with water intakes.
- **There is nothing in the agreement that releases me from liability to your employees.** The FAQ was revised in October to reflect the answer to this concern. Landowners are often not aware that the county, and its participating groups, are using licensed applicators, who are responsible for any harm that may occur from treatment. One landowner was afraid that any ill effects from treatment would be his responsibility merely because treatment was on his land.

In addition, the language in the current agreement is construed in a manner that clearly releases the county and its partner organization from liability. However, the only sentence releasing the property owner of liability is “As to any other act or omission of either party under this agreement, each party shall be responsible for its own acts or omissions and those of its officers, employees and agents under this agreement.” The wording of this section could (and has) upset property owners who want the knotweed treated on their property, but are wary of legal documents in general. If this document is revised again, it would be in the best interest to more clearly release *the property owner* from liability of any injuries county employees or other organizations might incur during treatment (preferably in a separate sentence).

If the landowner had special concerns or circumstances (e.g., farm animals grazing, gardens, sensitivity to chemicals), they were encouraged to help craft a mutually agreeable (and effective) solution. Usually, this involved choosing a certain treatment method or timing. At this time, landowners signed a formal permission agreement (Appendix VII).

#### **PUBLIC NOTICES**

Notices were posted at treatment sites per permit requirements. CCNWCB notified landowners on the Sol Duc River (mid) via phone 1-4 days ahead of treatment. Notification went a long way in forging relationships and respect from the community. Notices were not submitted to the local paper to avoid unnecessary alarm.

## Community Outreach

Education, communication, and participation were the three primary goals of CCNWCB's community outreach program. Early outreach through newspaper articles made certain program aspects easier, such as obtaining landowner agreements. In 2006, the outreach program was mostly targeted at the City of Sekiu and Clallam Bay, which were both treated from August-September. Outreach in the form of trainings was also conducted in the Sol Duc area.

Accomplishments in outreach efforts include:

- **2 trainings** conducted by Ed Bowen early in the season on the Hoko-Ozette Road
- **2 local community members**, Steve Erickson and Chuck DeVaney, were hired to collect landowner permissions and conduct outreach events
- **1 outreach event** at the Sekiu Chamber of Commerce was conducted
- **Newspaper articles** were published in the Forks Forum and the Peninsula Daily News
- Other members of the OKWG also successfully promoted their programs in newspapers
- The **Burdick's** manual digging experiment of **2 acres** of knotweed on the Pysht River of
- The control of knotweed by **Merrill & Ring on the Pysht River** through cooperation with CCNWCB and their own independently hired applicators
- The Hilstrom training, in which a county road and **2 acres** of knotweed were treated by a landowner
- **The City of Forks'** initiation of a knotweed eradication program in their community through training and equipment
- Training **Dan Hinch** for a terrestrial site next to Swanson Creek that generated another landowner interest in training
- **Dozens of phone calls** into the county reporting knotweed locations or interest in treatment
- **"Frequently Asked Questions for Landowners with Knotweed"** was developed not only to educate landowners, but also new staff members. It came in handy to pass out or mail with the permission form.

CCNWCB worked hard to establish our reputation and build trust by maintaining a respectful attitude toward community members. Often, the best method of outreach was through direct contact, listening to concerns of the residents without being overbearing, and providing flexible solutions that worked for them.



Landowner Linda Palumbo in Sekiu

## Application Methodology/Comments

Two herbicide-based treatment methods were used this season: **injection**, and **foliar applications**.

### INJECTION

#### Direct injection of 3-5 mls of glyphosate into the lower node of each cane.

- All canes >.5 inches and larger within a patch were injected.
- Injection guns were calibrated every time the canister was filled to ensure the correct amount of mls was being administered.
- Short needles were used a majority of the time. This solved the breakage and bending problem encountered in 2004 when only long needles were available. If the crew encountered pressure while trying to inject with short needles, a relief hole was punched with the short needle followed by injecting glyphosate 2 inches below the relief hole. The method was also used for displacing a surplus of cane fluids with the glyphosate.
- The short needles provided a higher level of consistency and treatment quality. The short needles could be used on smaller diameter canes which the longer needles would have split. For very small canes the short needle was inserted at a slight downward angle just below the node. This added to the labor required per plant, though, requiring two hands—one to operate the gun and one to hold and support the cane.
- Needles were packed into a calibration tube when hiking to avoid any accidents.
- The hole on the needle became plugged with cane material (it is suggested this hole be flared with a grinder to preclude the sharp edge and to help prevent material from remaining in the hole)
- The calibration screw tends to loosen during use. Applying a drop of loctite helps prevent this problem.
- The breathing hole mechanism on the canister sometimes became blocked. Once a vacuum develops the gun fails to dispense herbicide. The latter appears to occur during long application days when there are extended periods between thorough gun cleanings.
- Injection was performed before any foliar applications.

### FOLIAR

#### Low pressure “Solo” backpack sprayer. Two rates were used this season.

- A 6% solution was used in the beginning of treatment, in both aquatic and terrestrial sites. This was raised to 8% solution after a test plot proved it was killing the knotweed more effectively and decreasing the need for continual retreatment.
- The spray mixture also contained a .5-1% R-11 or 1-2 % Agri-Dex as well as .5-1% Blazon Blue marker dye.
- A difference was noted between surfactants. R-11 did seem to stick to the plant better, while Agri-Dex beaded off and ran onto the ground. The difference in treatments should be noted next year on the Big River (lower), where the data clearly differentiates the point CCNWC B switched to Agri-Dex. Reports indicate that even though Agri-Dex does not look like it sticks as well as R-11, it appears to work with the same effectiveness.

- Foliar applications were used primarily to treat canes diameters that were too small or where the overall infestation was too large to tackle with injection guns.
- CCNWCB treated canes in water by retrieving them and relocating them to a county gavel pit or near another knotweed plant for spraying.
- Solo packs could only be loaded with 3 gallons when traversing difficult terrain. Otherwise, the pack would leak, mostly from the breather hole in the lid. This affects the logistics of carrying enough herbicide to the location over a long walking distance. A chest strap connecting the two shoulder straps is recommended to prevent the pack from slipping side to side in difficult terrain.
- 1 liter hand held units were not useful on the Sol Duc River (mid) because crew needed both hands free to traverse slippery cobble. It was also not useful on the Big River (lower) because there were too many plants to spray. They might, however, be useful at different sites.

## WIPE

### A 33% solution applied with a foam paint brush.

- Wiping was not used in 2006, but offered to some landowners.
- One site on the Big River (lower) and wiped in 2005 had no remaining knotweed and the rest of the landowner's lawn remained intact.
- Wiping was quite labor intensive; results were best achieved by painting each leaf surface and the canes.



**Knotweed Injection Equipment**

## **Water Quality**

Water quality is monitored by WSDA as part of the NPDES permit.

A water sample was taken on Carol Newman's property on the Big River, both prior to, 1 hour after, and 24 hours after an injection application. Laboratory analysis of the post 24-hour sample did not find herbicide in a significant amount. This sampling continues to support the conclusion that herbicide treatments near water results in amounts well under EPA drinking water standards.

Data for these samples will be available and submitted to the Department of Ecology in the beginning of 2007. For more information, please contact Marshall Udo at (360) 902-1853 or [mudo@agr.wa.gov](mailto:mudo@agr.wa.gov).

## **PROJECT SUMMARIES**

### **Big River**

- Big River (upper)
- Big River (lower)
- Hoko-Ozette Road
- Revegetation

### **Sekiu/Clallam Bay**

- Sekiu/Clallam Bay Area
- Hwy 112
- Sekiu River
- Hoko River
- Clallam River
- Pysht River
- Bullman Creek

### **Sol Duc River (mid)**

- Sol Duc River (mid)
- County Pit
- Hilstrom Road
- Lake Pleasant
- West Synder Work Camp
- Sappho Site
- Bear Creek, Beaver Creek, Lake Creek, and Swanson Creek

### **Quillayute River System**

- Dickey River
- Bogachiel River
- Other Sites
- Surveys
- 2007 Treatment Plans

### **Hoh River**

### **Valley Creek**

### **Dungeness River**

### **Dosewallips River, Duckabush, Snow Creek, and Salmon Creek**

## Big River

The Big River is located off the Hoko-Ozette Road, stretches from southwest of Sekiu, and empties into Ozette Lake. The Big River (upper) is 6 miles and the Big River (lower) is 6.3 miles in length. The Big River (upper) is considered to be the uppermost point of the river to the end of the Department of Natural Resources parcel #153136000000, and the Big River (lower) ends at the mouth of Lake Ozette. The Big River has steep, silty banks, frequent flooding, and a fairly narrow channel. The Ozette Basin is approximately 88 square miles, including Lake Ozette, which is the third largest natural lake in the State of Washington. Several large, low elevation, low gradient streams, including the Big River, drain into Lake Ozette (within Olympic National Park boundaries), which empties through the Ozette River into the Pacific Ocean. Major land uses within the river's basin consist of timber, agricultural, and recreational and wildlife preservation (Olympic National Park).

The Ozette basin supports stocks of coho, sockeye, and kokanee (resident) salmon, small numbers of chinook and chum salmon, steelhead and cutthroat trout (sea-run and resident), as well as many other native and exotic fish. Sockeye salmon exist in Lake Ozette, as well as the Big River, Umbrella Creek, and Crooked Creek. Sockeye salmon were listed as threatened under the Endangered Species Act (ESA) in 1999. Both tributary spawners and lake spawners could benefit from a system that is free of knotweed. Change in sediment loads, exaggerated by the poor erosion control of knotweed, could affect availability of tributary spawning sites. Juveniles, dependent on nutrient rich systems, could also be significantly impacted by knotweed's nitrogen depleting nature. Additionally, lake spawners spend up to 8 months in the lake and are dependent on nutrient rich tributaries. The Big River may be providing fewer nutrients due to knotweed infestations.

Local residents report that the knotweed infestations have been present since the 1940s. Before 2002, the knotweed was not present in significant quantities in the area emptying out into Lake Ozette. Knotweed on the Big River has spread to become an extensive monoculture along some of the stream banks, contributing to major erosion problems. Revegetation is also a concern, but any major efforts should be taken after it is clear that retreatments are no longer necessary.



**Rafael Ojeda on the Big River**

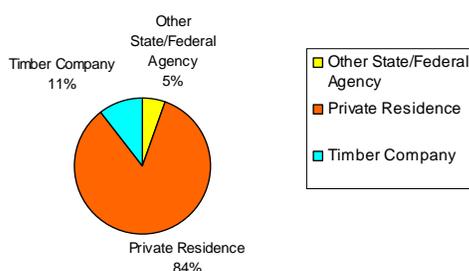
### **BIG RIVER (UPPER)**

In 2005, it was thought the Big River (upper) contained no knotweed. In 2006, the Makah Forestry Department surveyed 6 miles of the Big River (upper), including 1 mile of Boe Creek. They found a total of 17 patches with several large mature plants, but most of them were small plants. The Makah Tribe treated these infestations, and surveys/retreatments should occur next year to ensure complete eradication.

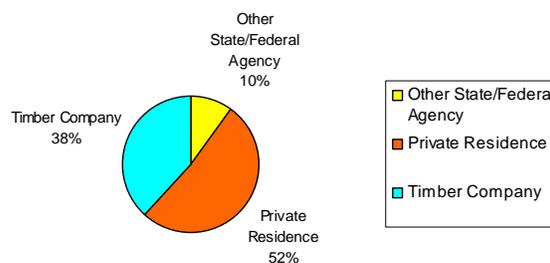
### **BIG RIVER (LOWER)**

In 2005, landowner information for parcels on or adjacent to survey data points was extracted from Clallam County's GIS parcel layer. CCNWCB solicited and obtained 16 landowner permissions in 2005 and 2 additional agreements in 2006 for the Big River (lower). Only 1 landowner would not give permission to use herbicide. 52% of sites treated were owned by private residents, 38% of sites treated were owned by timber companies, and 10% of sites treated were owned by other State/Federal agencies. This shows that a majority of effort is made in obtaining landowner permission from private residences even though their property only contains half of the knotweed sites.

**Landowner Agreements by Ownership Type**



**Sites Treated by Ownership Type**



In June 2006, a Clallam County crew inventoried the Big River (lower) knotweed infestations. 466 acres were treated from July to October. Using only the inventory data set and assuming that all these sites were treated, minus 1 parcel, plus 155 additional sites north of the inventoried data, a total of 659 sites were treated on the Big River (lower) by Clallam County and the Makah Tribe. These inventoried sites do not account for any growth that may have happened between June and July.

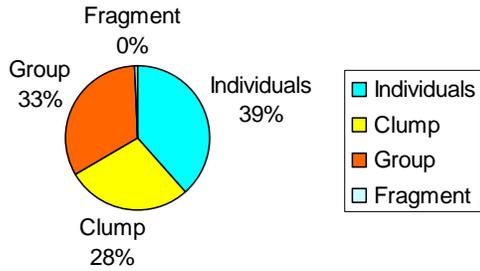
*(This portion of the analysis was based on inventory data only.)*

All the plants on the Big River (lower) were Bohemian. The plants inventoried on the Big River (lower) in June 2006 were evenly distributed between cluster types. Fragments were definitely present on the river; however, there were not enough resources to plot each fragment. Using only the inventory data, 50% of the plants were 3- 6 tall, 19% of the plants were > 6 feet tall, and 31% of the plants were < 3 feet tall. Clusters of plants were most likely 11-25 canes in size. The chart clearly shows that as cluster size increases, so does the height of the plant. After reaching 6-10 canes, half the plants were already at least 3 feet tall. Due the limitation of the ">200" category, it is unclear at what cane density plants reach 6 feet. Plant height, cluster type, and cane density indicate that this infestation is somewhat established.

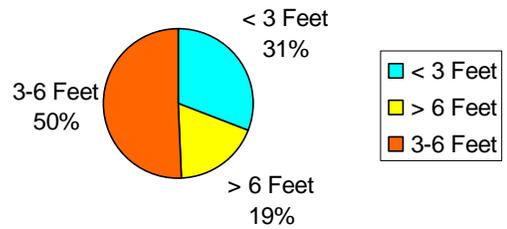
Other data indicates that the knotweed on the Big River (lower) is mostly residing in riparian vegetated, highwater areas, followed by areas of large woody debris. The significant amount of

knotweed found in woody debris may be due to beaver activities or, alternatively, to stream flow, but there is no data available for that analysis. Next year, a category might be added to indicate signs of beaver.

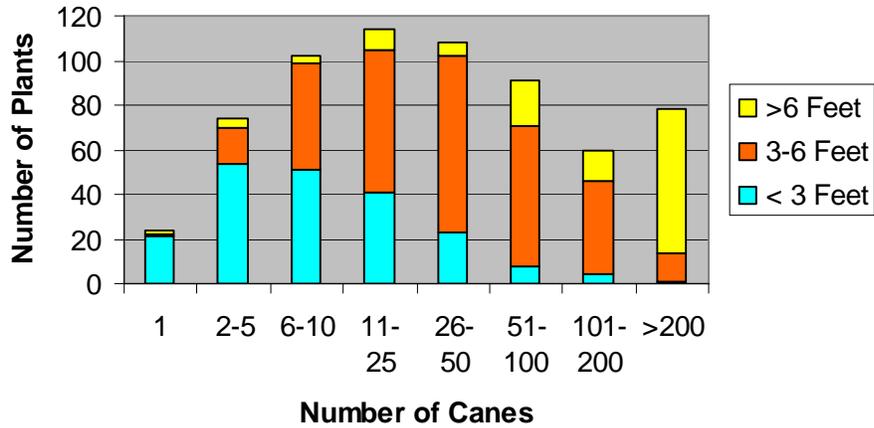
**Cluster Type**

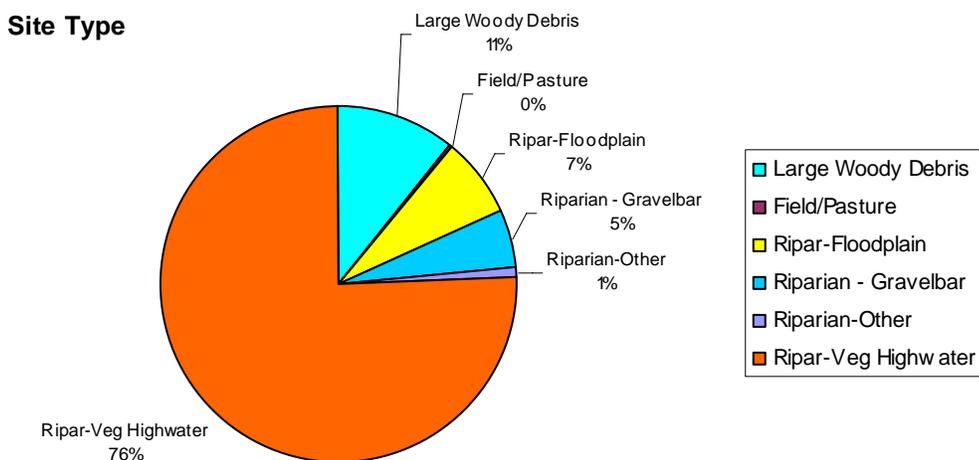


**Plant Height**



**Comparison of Canes to Plant Height**





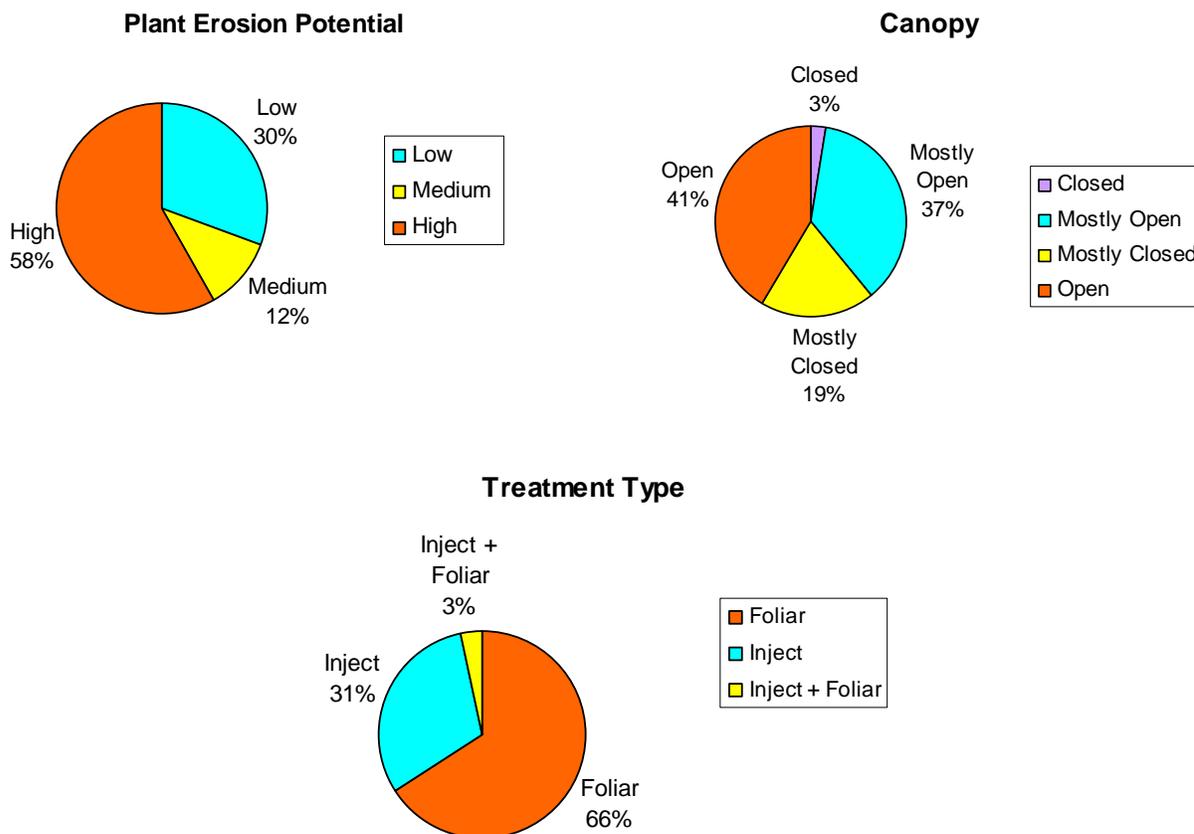
CCNWCB recorded data for treatment sites between July-October of 2006. However, the data are not as accurate because some sites were retreated and the data cannot be sorted to account for that. In other words, data could be doubled as it may have represented the same site. An additional category could be added in the data dictionary to indicate whether a treatment was a retreatment during that year. Due to the monocultures on the Big River or sites with hundreds of fragments between clumps, it was extremely difficult to define a site. In addition, not as many sites were collected because crew was busy treating rather than collecting data. As treatment continues, it could be easier to estimate the area treated as sites become increasingly confined. On the other hand, it could confuse site designation as tiny regrowths appear. Regrowths may skew the data to reflect more area than was actually treated. Site designation may need to be more clearly defined with some sort of standardized methodology agreed upon by the OKWG.

*(This portion of the analysis was based on treatment data only.)*

Canopy, plant erosion potential, and site erosion was estimated by visual assessment only and data are estimated values. Canopy over the knotweed treatment sites was open or mostly open. The potential of knotweed to move downstream (plant erosion) was high at 68%. 400 treatment sites were categorized as being in danger of eroding (site erosion).

The area treated was estimated using paces. 1 pace was assumed to equal to 3 feet. The area of a site treated should not be confused with acreage treated, which was recorded on the spray records. This data is probably highly inaccurate due to variations in the collector's definition of what constituted a site. Out of the 659 treatment sites, 228 sites did not have area entered. Of the remaining 431 (or for 65% of the treatment sites), the total area of knotweed treated in 2006 was 9.9 acres. That is the equivalent of 7.5 football fields filled with knotweed. If projected to account for the sites that data was not entered for, the total area of knotweed treated would be 15.23 acres (9.9 acres = 65% of Total Area). The total acreage treated on the Big River (lower), as estimated through GIS maps, was approximately 466 acres, which means 3% of the area is covered with knotweed. This figure is definitely a rough estimate.

31% of the knotweed was injected, 3% of the knotweed was injected and sprayed, and 66% of the knotweed was sprayed. Due to the high density of knotweed, usually a section was injected and then sprayed later. Thus, some of the foliar applications may have been retreatment or treatment of small canes around a plant that was already injected.



On July 31, 2006, a test plot was developed on parcel #153135120000. The site was GPSed with “test plot” in the comment section. Each foliar treatment plot was 10 by 20 feet. One site (Site A) was treated with an 8% glyphosate solution and the other site (Site B) was treated with a 5% glyphosate/1% imazapyr solution. Both sites were side-by-side. Each site was 50% in the shade over the course of a day. Site A started with 225 canes, which was reduced to 7 canes after 1 month (96.9% reduction). Site B started with 175 canes, which was reduced to 15 canes after 1 month (91.4% reduction). Therefore, after 1 month, the 8% glyphosate solution worked slightly better. Both sites should be monitored to see if this difference in control continues into the next growing season. Results of this test plot may not apply to sites around water with higher salinity. In addition, a test plot might be useful in comparing an 8% glyphosate to a 6% glyphosate solution to see if the increased control (if it holds true through 2007) is worth increasing herbicide rate.

## **HOKO-OZETTE ROAD**

Treatment along the Hoko-Ozette Road was a high priority because the road comes within feet of the Hoko and Big Rivers in many places. Unfortunately, Clallam County's roadside vegetation management policy does not allow for the use of herbicides. CCNWCB did survey the road, and the Makah Tribe was able to treat sites that were not within the county right of way. They did not discover any new sites along the Hoko-Ozette Road in 2006. In 2005, over 100 sites were treated. In 2006, the tribe treated all 18 miles of the Hoko-Ozette Road (source infestation for both the Hoko and Big Rivers) which had 47 separate infestations, at least twice. The vast majority of them were small enough to spray, but some injection was needed. For retreatment, they decreased herbicide use by 88% on the Hoko-Ozette Road. Some of these sites will need to be retreated next year as well.



**Hoko-Ozette Road in 2005**

## **REVEGETATION**

Some donated young spruce (approximately 1 foot tall) and cedar trees were planted early in the season and their progress, although somewhat successful, was limited by summer drought. One local crew member watered them as often as he could. Consideration next year should be given to the size of the tree that is planted; the Burdick's trees of 4 feet fared much better. As in 2005, encroaching canary grass is still an issue and exacerbating the bank erosion problems.

Any other revegetation should be made with the assumption that major retreatments will be needed on the Big River (lower) for several years to come. The Makah crew supervisor has indicated that his crew will be available to help maintain revegetation plantings for several years.

Joe Holtrop of the Conservation District toured the Big River (lower) late in the season to further assess the need for revegetation and any other engineering to combat bank erosion. For more information on this subject, please contact Joe Holtrop at [joe.holtrop@wa.nacdnet.net](mailto:joe.holtrop@wa.nacdnet.net).

## **ACCOMPLISHMENTS/COMMENTS**

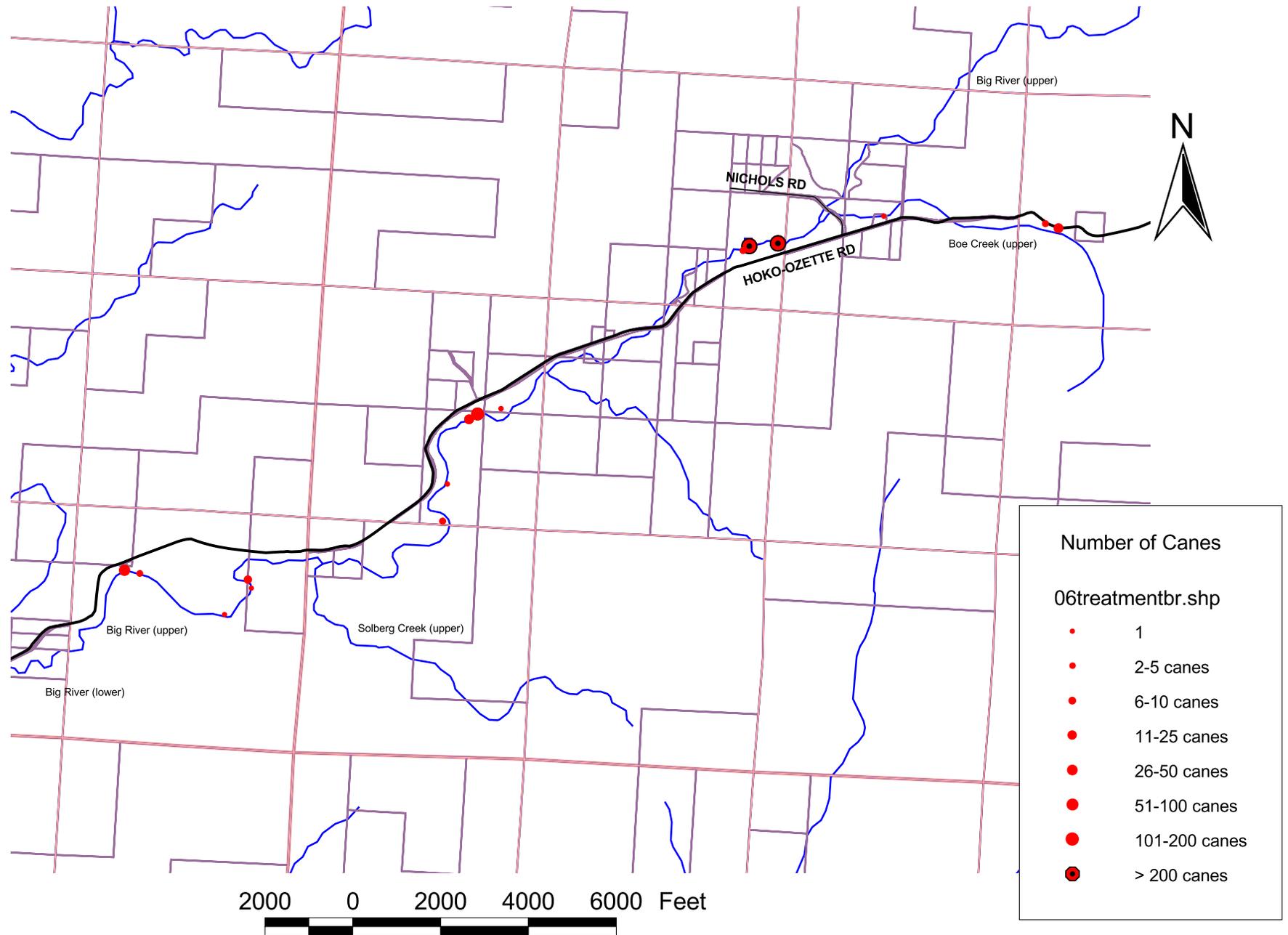
- Managed 16 existing landowner permissions. Obtained 2 additional landowner permissions on the Big River [CCNWCB]
- Surveyed and treated 6 miles of knotweed infestations on the Big River (upper) [Makah Tribe]
- Surveyed and treated 6.3 miles of knotweed infestations on the Big River (lower) [CCNWCB/Makah Tribe]

- Surveyed and retreated approximately 18 miles of the Hoko-Ozette Road or 47 sites [Makah Tribe]
- Used approximately 39 gallons of herbicide [CCNWCB/Makah Tribe]
- Decreased herbicide use by 88% for retreatments on the Hoko-Ozette Road [Makah Tribe]
- Mapped data using GIS [CCNWCB]
- Areas treated last year were reduced in size, but monocultures were still expanding in some areas
- Patches were continuous, making site designation nearly impossible and data analysis difficult
- Beavers, utilizing knotweed in the construction of their dams, appear to be the major vector for cane treatment during low flow months
- Site erosion potential is high
- The potential of plants moving downstream is high
- Knotweed on the Big River preferred an open canopy in vegetated highwater areas
- It is very difficult to remove all knotweed fragments from beaver dams
- Small offshoots were continually returning in the path of treatment, making retreatment a significant part of the project
- 1 landowner will not agree to herbicide use on his property

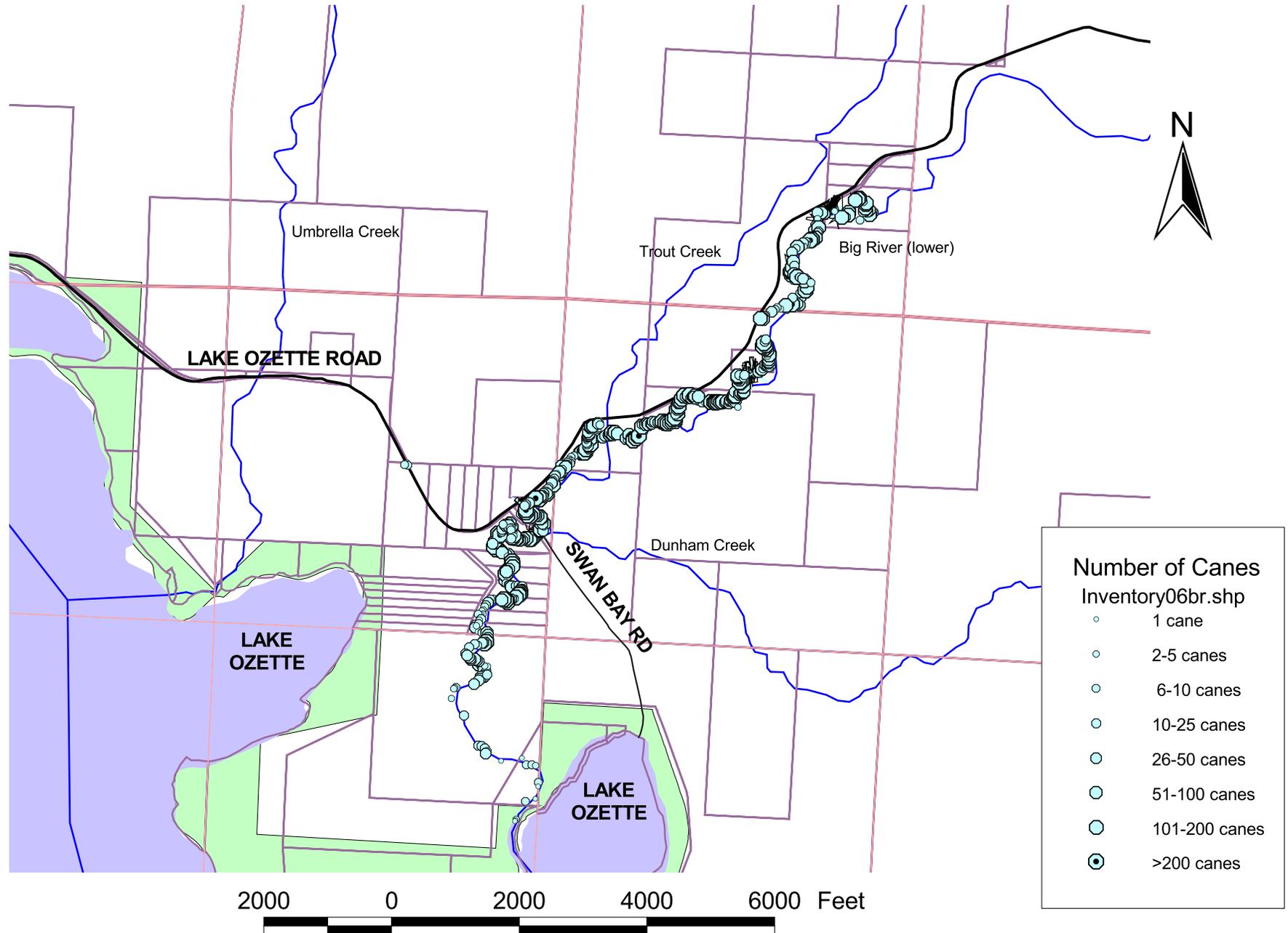
#### **RECOMMENDATIONS**

- Retreat the Big River (upper)
- Resurvey and retreat the Big River (lower), with a focus on obtaining better data
- Clearly define standardized methodology for site designation agreed upon by the OKWG
- Retreat the Hoko-Ozette Road
- Continue to work with the Conservation District on revegetation plans
- Find a way to treat/remove knotweed in beaver dams or in log jams

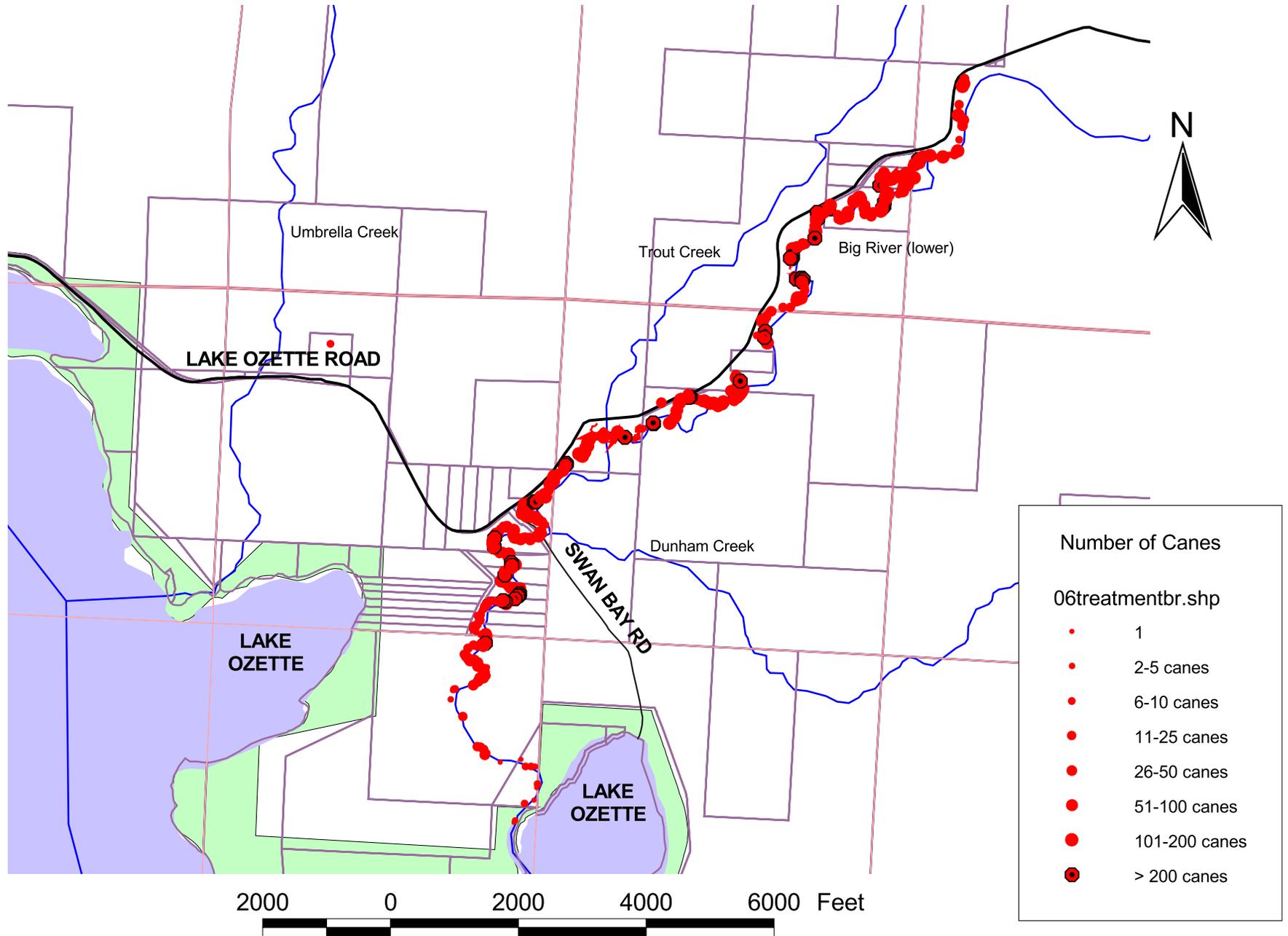
# 2006 Big River (upper) Treatment



# 2006 Big River (lower) Inventory

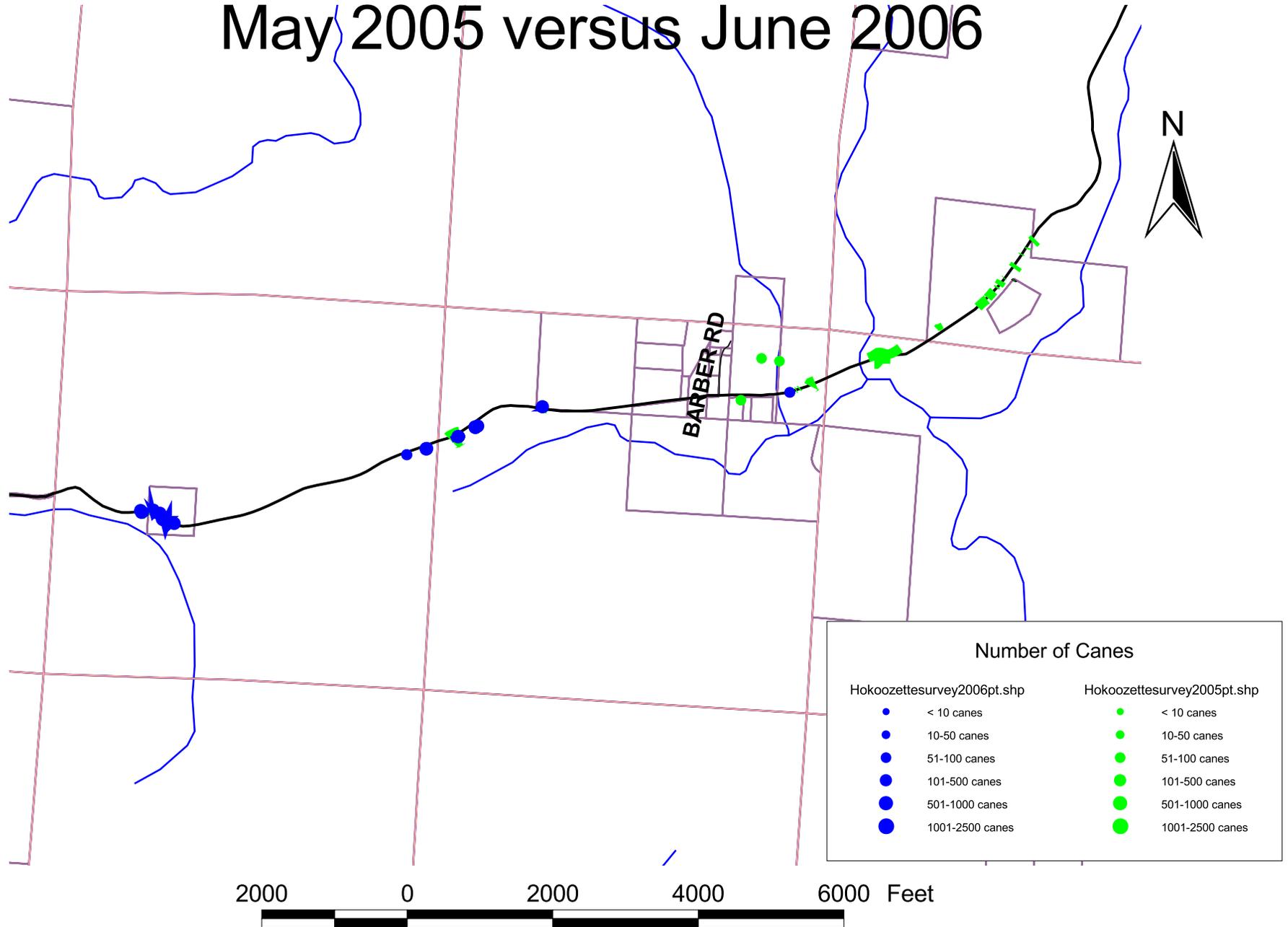


# 2006 Big River (lower) Treatment



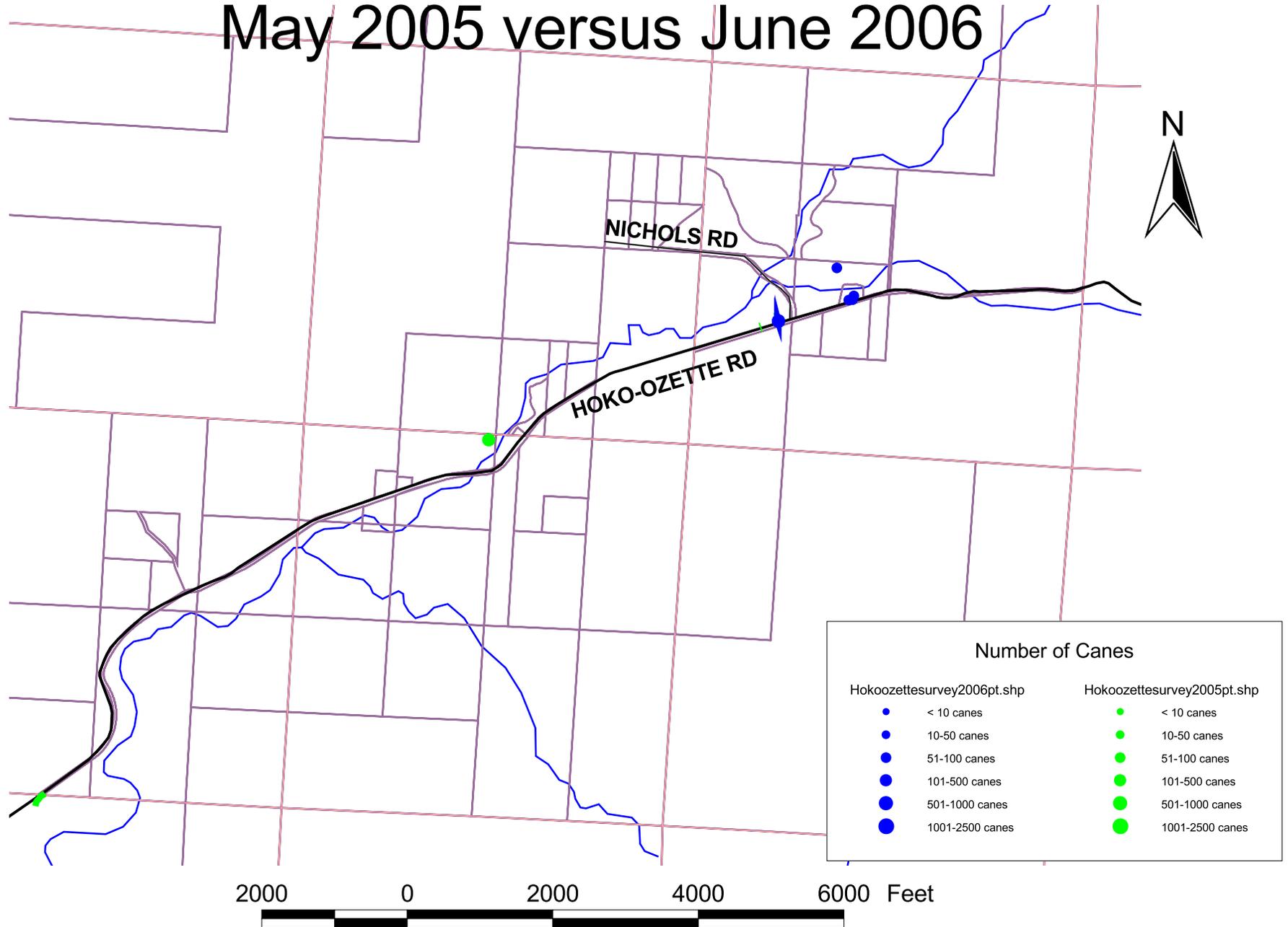
# Hoko Ozette Road Surveys

## May 2005 versus June 2006



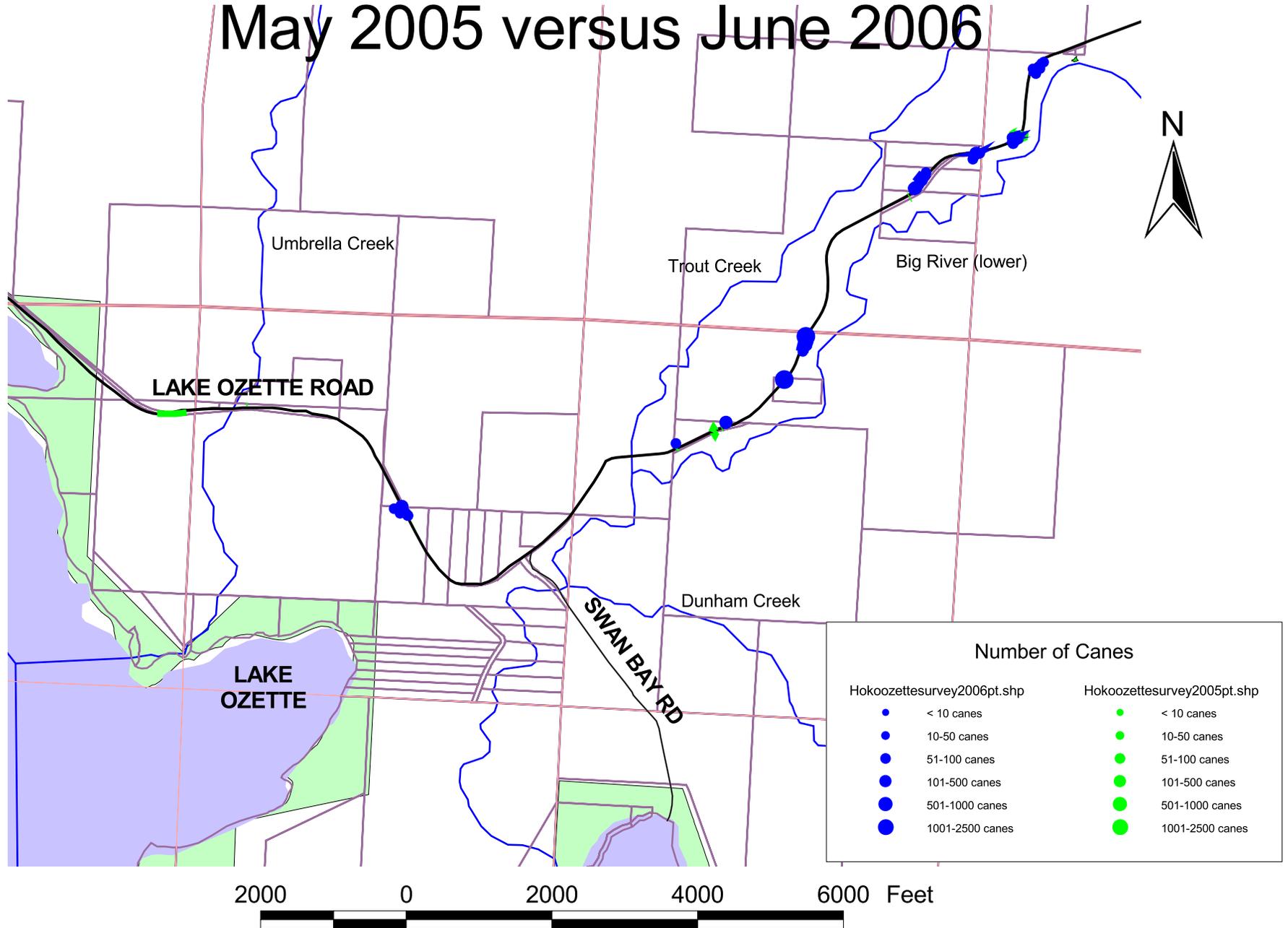
# Hoko Ozette Road Surveys

## May 2005 versus June 2006



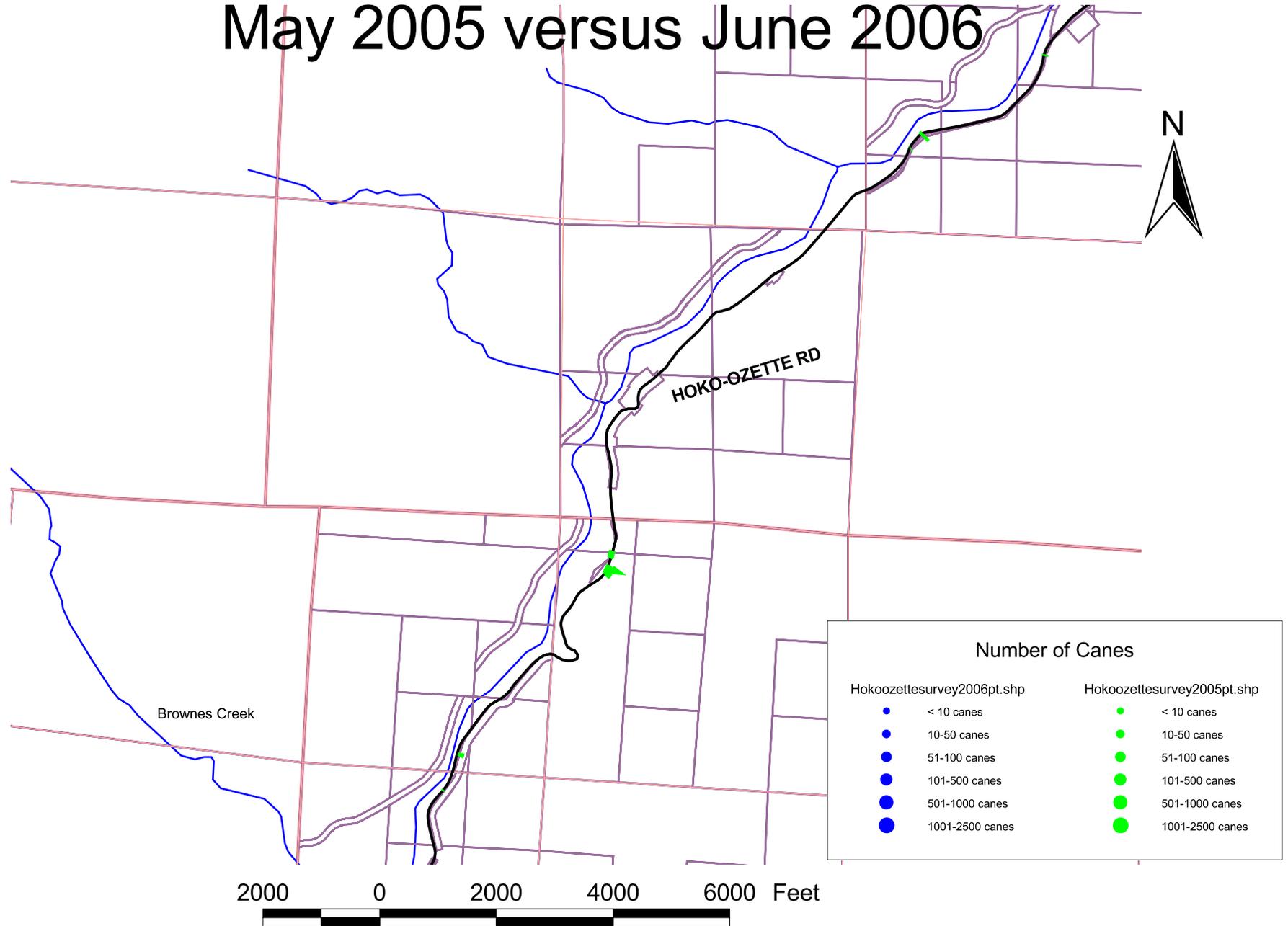
# Hoko Ozette Road Surveys

## May 2005 versus June 2006



# Hoko Ozette Road Surveys

## May 2005 versus June 2006



## Sekiu/Clallam Bay

The Sekiu and Clallam Bay area is a community with two small towns, consisting mostly of fishing resorts and residential properties. The area contains an extraordinary amount of knotweed on residential properties near the shoreline; and there is a probability of distribution to rivers through vehicles and construction activities. Hwy 112 runs east-west near the shoreline and crosses the Hoko River. The Hoko-Ozette Road not only parallels the Big River, but also runs immediately adjacent to the Hoko River mainstem as it heads southwestward. Both these roads serve as significant vectors of knotweed due to routine maintenance activities.

The Sekiu, Hoko, Clallam, and Pysht Rivers are the 4 main sub-basins of Water Resource Inventory Area (WRIA) 19. Numerous wetlands and low gradient coastal rivers characterize these basins. Small forested, scrub-shrub and emergent wetlands are scattered throughout the sub-basins, with a notable series of scrub-shrub wetlands along the Clallam and Hoko Rivers and the 112 Hwy. Anywhere from 93-97 % of these 4 sub-basins is zoned for commercial forestry.

### SEKIU/CLALLAM BAY AREA

Knotweed in the Sekiu and Clallam Bay area has a long history, dating back to 1930. Giant knotweed is the dominant species in Sekiu. Local wisdom identified railroad tracks as the source. Since then, the knotweed infestations have become overwhelming, and residents have effectively campaigned to eradicate it from their community. Local community members, including Steve Erickson and Chuck DeVaney educated landowners about knotweed and its effects on the environment. They also collected 36 signed permissions from landowners. This outreach and word-of-mouth tremendously helped when approaching other landowners on rivers elsewhere.

From August 22-25, the Makah Tribe and CCNWCB initially treated 33 sites in Sekiu and 4 sites in Clallam Bay (over 6 acres). On September 12, CCNWCB treated the Spring Tavern's Giant knotweed site with the Clallam County Chain Gang. On September 28, both the Makah Tribe and CCNWCB crews retreated the sites as well as 4 new sites, 1 of which contained at least 1,900 canes. Feedback from the community on this treatment was overwhelmingly positive.



**Before Treatment**



**After Treatment**

On September 28, Washington Street was closed to construction, but crew went to retreat what was a fairly large patch. When the site was reached, it was obvious that parts of the patch on the site had been bulldozed over. The contractors, working for Clallam County, were installing an irrigation ditch on west side of the road. After conversation with the foreman, it was noted that dirt from the west side of the road had been dumped on the knotweed patch and smoothed over. This dirt was going to be moved to the other side of the road again. CCNWCB told the foreman that if they had spread the roots around in the dirt, knotweed plants may grow through the pavement, thereby ruining the construction of the road. On October 18, the site was revisited and the road had been paved over. No visible signs of new infestations were seen, but the section where the knotweed originated seemed to have been slightly avoided.



**Washington Street After Construction**

### **HWY 112**

Treatment on Hwy 112 was moderately effective, with many plants still surviving. The Makah Tribe was not able to retreat these areas. Lack of effective treatment is perhaps due to the fact that these patches have consistently been mowed, and numerous canes were too small to inject. They were also underneath the main knotweed canopy and not exposed to the herbicide.

### **SEKIU RIVER**

The Sekiu River had a dense, yet discrete infestation of knotweed. It stretched less than a mile from the mouth. The Makah Tribe treated 26 patches ranging from 3 canes to well over 200. The treated area covered 4.7 acres. 3 patches located on one property were not treated due to lack of permission. Initial treatment on the river appears very successful with few canes surviving.

The tribe also experienced a miscommunication as to which properties they had permission to treat. 2 patches without permission forms were unintentionally treated. The landowners were contacted, and the situation was explained. The Makah Tribe plans to work with these landowners next year to obtain a signed agreement.

### **HOKO RIVER**

The Makah Forestry Department conducted a float survey on approximately 12 river miles of the Hoko River in early June of 2006. Launch point for the survey was at the Department of Natural Resources' 5900 bridge. Giant knotweed was the dominate species found. Medium to large complex

sites were found after 1 mile for 1.5 miles. Sites were very sporadic for the next 5.3 mile stretch until reaching the area of the mouth. The Makah treated 12.5 miles of sporadic infestations on the Hoko River. Most of the patches were sprayed and retreated from last year, and herbicide use declined by 73%. There were only .2 miles of new treatments on the lower Hoko River. The remaining patches are located on 1.7 miles of the river and not treated due to lack of access from landowners.

### **CLALLAM RIVER**

The upper half of the Clallam River was surveyed in August by the Makah Tribe. The survey was taken from the mouth to .35 miles north of Charley Creek Road. The Clallam River has almost 70 knotweed sites to treat and 33% of the sites contain plants with >200 canes and > 6 feet tall. There are 20 parcels (16 landowners) with or adjacent to knotweed plants on the Clallam River. From local knowledge, some of these landowners may be hard to get permission from. Organizations working on the water quality assessment of the Clallam River should be notified of our progress in 2007.

### **PYSHT RIVER**

The Pysht River has been treated since 2005. No complete survey has been taken, but two property owners, Merrill & Ring and the Burdicks, have notified CCNWCB of knotweed infestations.

In 2006, 5 Merrill & Ring sites were revisited and 1 site was aquatic. The Merrill & Ring Pysht Tree Farm was very enthusiastic to have their knotweed controlled. Clallam County retreated twice in the season. The first treatment was on August 16 with Merrill & Ring's crew of 8 independently contracted applicators. On September 27, 2 CCNWCB employees retreated small regrowth. With both treatments, an 8% glyphosate solution was used because it was seen to work best in the Big River, and there were concerns with imazapyr's slow degradation in the soil.

The first site (~300 square feet) had only 1 small plant regrowing from it that was injected. This plant was killed and no knotweed remains as of September 27, 2006.

The second site was an open field treated last year of about 53,460 square feet. In 2006, the Merrill & Ring crew treated thousands of canes that were small patches of regrowth averaging 1.5 feet tall. A couple of missed plants, > 6 feet tall, were also injected. By September, 35 small plants, < .5 feet tall, remained and were treated.

The third site was terrestrial and treated by the Merrill & Ring crew. This site was approximately 3,060 square feet area and covered with large canes in 2005. In 2006, only 50-100 canes that were < 3 feet tall remained. They were retreated in August by the Merrill & Ring crew. This site was not treated in September, and Merrill & Ring did not report any regrowth.

The fourth site was aquatic. In August, there were several knotweed plants on the west side of the bank, scattered for about .15 miles and ranging in size from small fragments to plants of 6 feet. About 500 canes were injected, and some were sprayed. In September, only 47 small plants remained or returned, and they were sprayed. On the east side of the bank, knotweed had been growing in an unstable bank and on top of the bank in a large, open space/island. In August, about 500 canes comprised of small bushes were sprayed and injected here, but it was difficult to see some of the plants since they were so intertwined with morning glory. In September, about 150 canes were sprayed treated in the same area, mostly on top of the bank where the morning glory was. Following

the bank toward Hwy 112, there were about 150 canes, ranging between 3-6 feet, which were treated in August. In September, only 1 small plant, < 3 feet tall and consisting of 6-10 canes, remained to be treated.

All the plants that were injected looked dead. The plants that were sprayed, however, did not seem to have the same mortality as similar sites on the Big River (lower) with the same spray solution. This might be due to the previous treatments, or possible high salinity water, or tidal influences. One plant in particular could not be treated and was not responding to herbicide. It was a small plant, 3 square feet in area and maybe 2 inches tall, of “witches’ hair.” It was embedded into a huge tree trunk and growing 1 foot underwater. The witches’ hair was a result of treatment in 2005. This plant must be manually removed as it was treated in August 2006 when it was out of water, but the tide covers and uncovers this plant everyday so that the herbicide most likely got washed off. In addition, it will be nearly impossible to remove this plant from the logjam without disturbing the root system that will inevitably go downstream and replant itself.

The fifth site was a roadside site just off the Old Sappho-Pysht Hwy on Merrill & Ring property. There were 3 groups of plants. One plant was isolated on the west side of the road and sprayed by the Merrill & Ring crew. It was completely dead in September. The other 2 groups of plants were each 4,000 square feet and had been treated before. In August, approximately 500 canes remained that were 3-6 feet each. In September, 21 small plants < 3 feet tall were sprayed. Both treatments took a total of 30 minutes. There might be a possibility that beavers have taken knotweed down to the Pysht River, and this site should be monitored by Merrill & Ring.

The Burdicks also have a knotweed infestation, which is close to the Pysht River and covers 80,000 square feet. In 2005, the Burdicks started manually digging knotweed on the terrestrial site as an alternative to herbicide use. The site is next to 2 Chum migratory side channels. The site was infested with thousands of large, 6 foot canes in August of 2005. There is a section in the Appendix of the 2005 knotweed report referencing this project. In 2006, they continued digging the knotweed and pulled it 6 times, spending 3 hours each time, with approximately 3 people. Over the summer, they reported growth of up to 2 feet a month. In October 2006, the area contained 150 small canes, the majority reaching approximately 3 inches. This represents considerable success as this infestation is contained, and there is practically no chance of the knotweed getting into the river system. Please see Appendix VIII for a complete summary and additional pictures.

#### **BULLMAN CREEK**

2 sites south of the bridge on Hwy 112. were treated at Bullman Creek. This spot has strong tidal influence and water salinity could be higher than normal. The treatment of the south side of the bridge did not seem to kill any of the plants. This site may need to be treated with imazapyr next year. A test plot next to this high salinity water could be made to observe the difference between treatment with glyphosate and treatment with a combination of glyphosate/imazapyr. Landowner agreements need to be collected for owners on the north side of the bridge because their plants actually go upstream under the bridge to the south side. The landowner on the south side of the bridge noted that the plant originally came from the north side and that tides from the Straits *brought it upstream*.

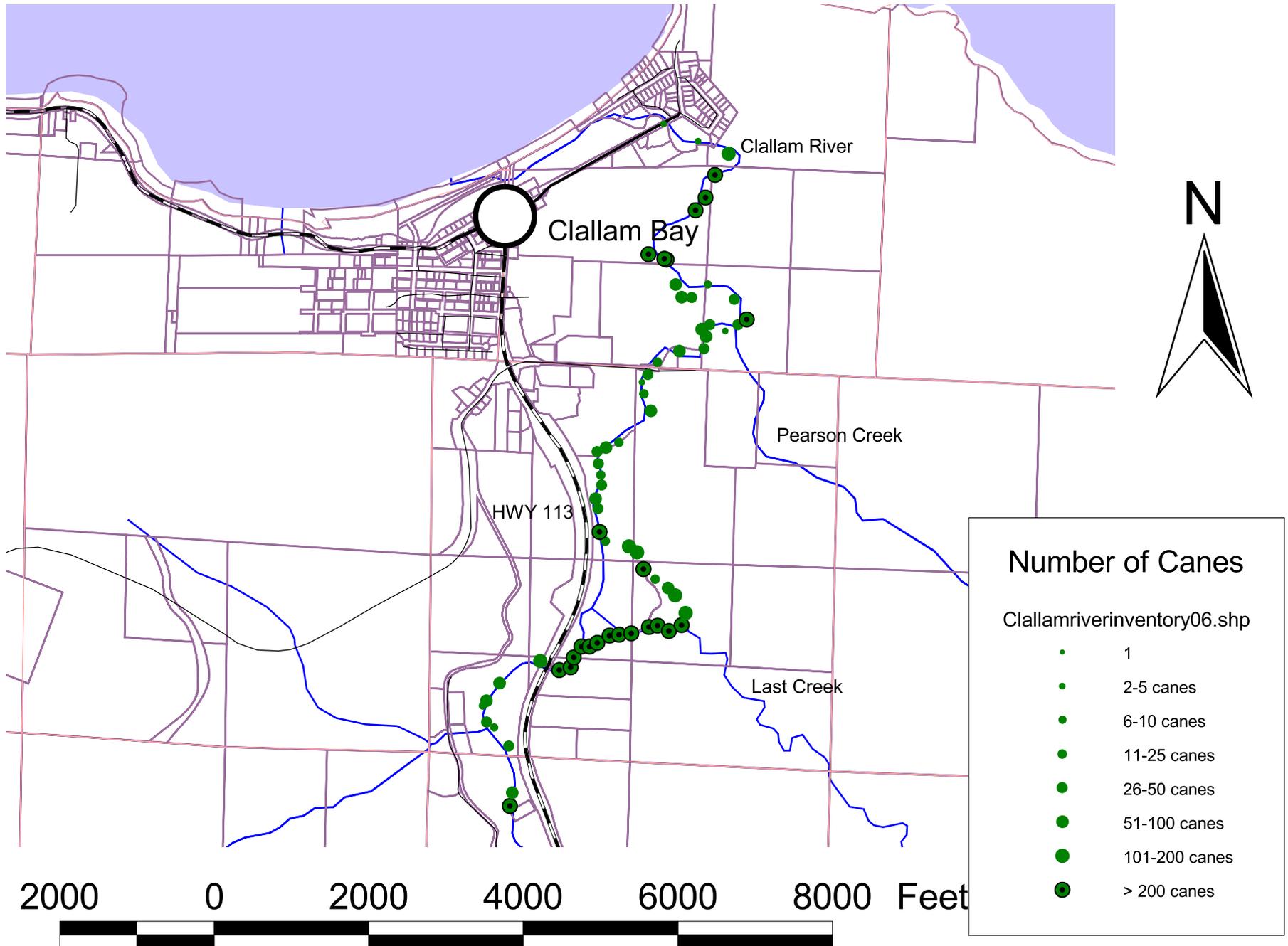
## ACCOMPLISHMENTS/COMMENTS

- Solicited and obtained 36 landowner agreements [CCNWCB]
- Treated and retreated 38 new sites in the Sekiu and Clallam Bay Area [Makah Tribe/CCNWCB]
- Treated parts of Hwy 112 [Makah Tribe]
- Treated 24 sites on the Sekiu River [Makah Tribe]
- Surveyed and treated 12.5 miles of the Hoko River and decreased herbicide use by 73% [Makah Tribe]
- Sites on the Pysht River seem to be under control thanks to coordinated efforts between CCNWCB and landowners; and a survey has yet to be completed
- Surveyed the Clallam River and found 70 knotweed sites [Makah Tribe]
- Treated 2 sites on Bullman Creek [Makah Tribe]
- Knotweed on the side of Washington Street was dug up during treatment by a contractor of Clallam County
- Mowing canes, which contributes to the spread of knotweed, was observed in Sekiu
- Hwy 112 sites may not be responding as well to treatment because of mowing
- Treatment at sites with possible high salinity water or tidal interactions (Pysht River/Bullman Creek) did not seem to be as effective
- 3 landowners did not sign the agreement to use herbicide their property

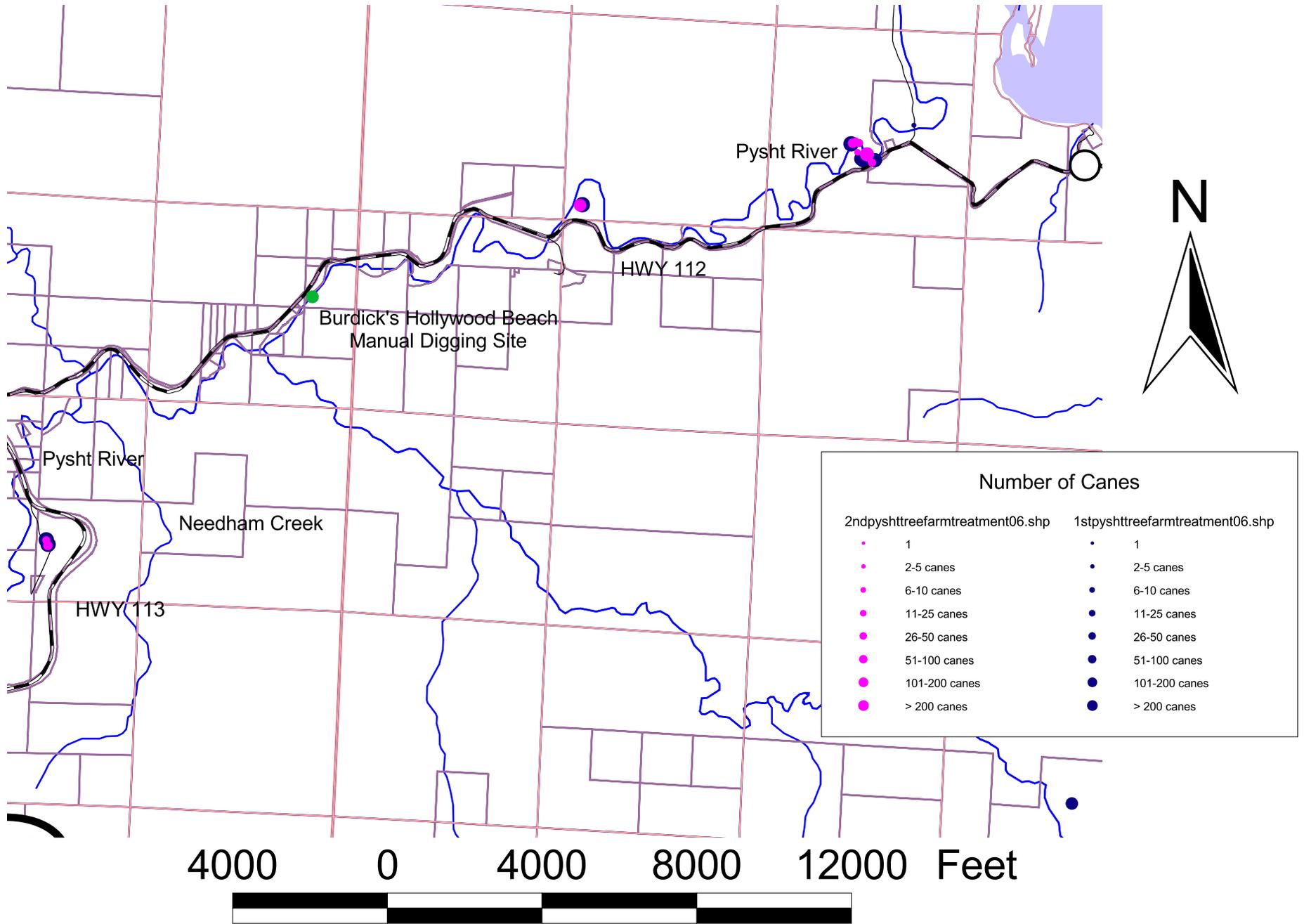
## RECOMMENDATIONS

- Resurvey and retreat the Sekiu and Clallam Bay area
- Monitor construction on Washington Street to ensure knotweed roots are not growing through the new pavement or by the west side of the road
- Retreat sites on Hwy 112 and coordinate efforts on Hwy 112
- Retreat the Sekiu River
- Retreat the Hoko River
- Survey the Pysht River
- Treat Clallam River
- Continue to monitor the Merrill & Ring's aquatic sites and the Burdick's manual digging site on the Pysht River
- Begin comparisons plots at high salinity sites, such as Bullman Creek or Merrill & Rings' sites on the Pysht River
- Continue to obtain landowner permissions for Bullman Creek and retreat sites

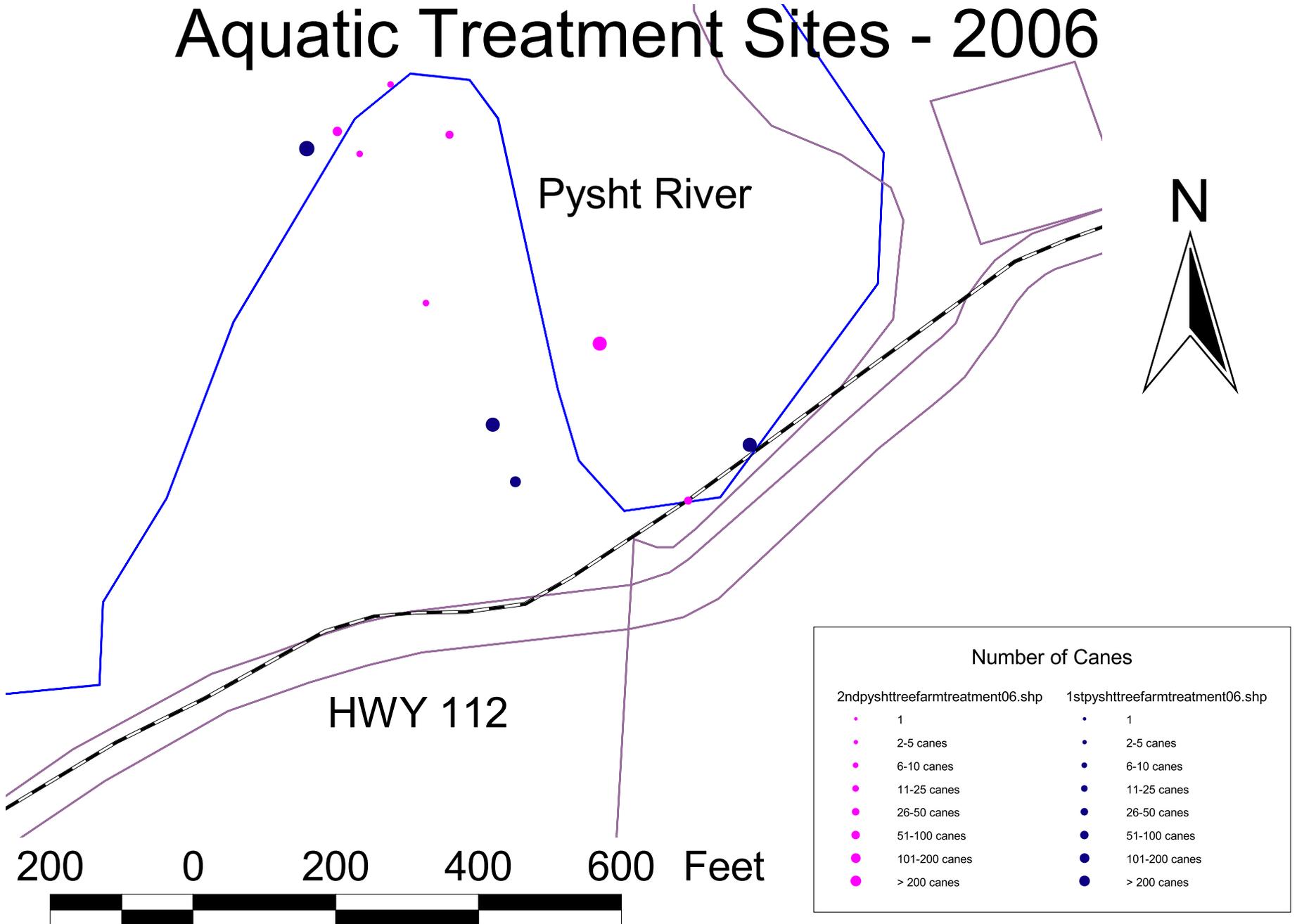
# Clallam River Knotweed Survey - 2006



# Pysht River Treatments - 2006



# Pysht River M&R Tree Farm Aquatic Treatment Sites - 2006



## **Sol Duc River (mid)**

The Sol Duc sub-basin, within the Quillayute watershed, drains over 200 square miles. The Sol Duc River originates within Olympic National Park and stretches for nearly 20 miles before emerging from Park boundaries. The Sol Duc (mid) begins at the Olympic National Park boundary and ends at the Whitcomb-Dimmel Road take-out (approximately 28 river miles). The Sol Duc River (mid) and Sol Duc River (lower) runs 45 miles and contains timber-managed, agricultural, and residential development. The Sol Duc River supports numerous salmonids such as chinook, coho, chum, sockeye, and steelhead, as well as cutthroat and rainbow trout. Lake Creek is one of the most productive coho habitats in the Quillayute system; and these coho include a unique, resident population.

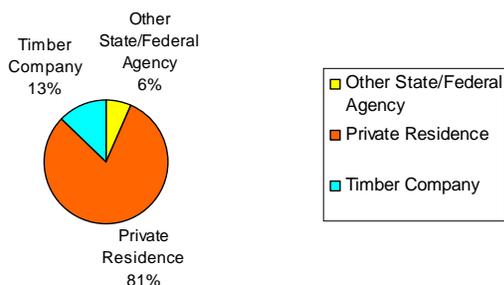
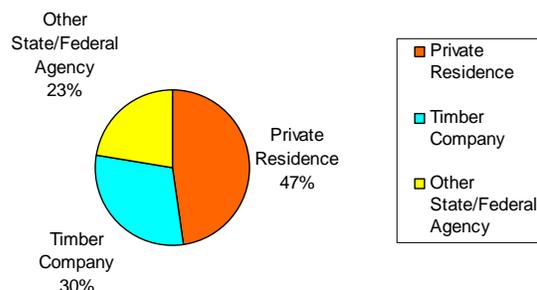


**Darcy Stumbaugh on the Sol Duc River**

### **SOL DUC RIVER (MID)**

On May 11 and 12 of 2005, a float survey for knotweed and Scotch broom was conducted on the Sol Duc River (mid)

In 2006, landowner information for parcels on or adjacent to survey data points was extracted from Clallam County's GIS parcel layer. CCNWCB solicited and obtained 29 landowner permissions over the course of a month through direct contact, phone, fax, or email. Only 1 landowner would not give permission to use herbicide. 47% of sites treated were owned by private residents, 30% of sites treated were owned by timber companies, and 23 % of sites treated were owned by other State/Federal agencies. As with the Big River, this shows that a majority of effort is made in obtaining landowner permission from private residences even though their property only contains half of the knotweed sites.

**Landowner Agreements by Ownership Type****Sites Treated by Ownership Type**

From September to October, treatment was conducted on foot due to the lack of water in the river. It took the crew 3 weeks to finish the sites. There was 1 day in which the Quileute Tribe provided CCNWCB a boat and rower to treat sites that could not be accessed by foot. Most sites were contained and found exactly where the data points were taken in 2005. There may not have been any major floods between 2005-2006.

Data taken on the Sol Duc River (mid) are much accurate than data on the Big River due to their relative containment within an area and clear delineation. There were 71 separate sites treated on the Sol Duc River (mid). The total area of knotweed treated on the Sol Duc River (mid) was 5.24 acres. All plants treated were Bohemian except 1 Giant knotweed site. There was 1 more Giant knotweed site that was not treated due to lack of permission.

The cluster type was mainly clump, which may indicate these are recent infestations and/or they are contained into discrete areas. Plant height varied evenly among the categories of < 3 feet, 3-6 feet, and > 6 feet.

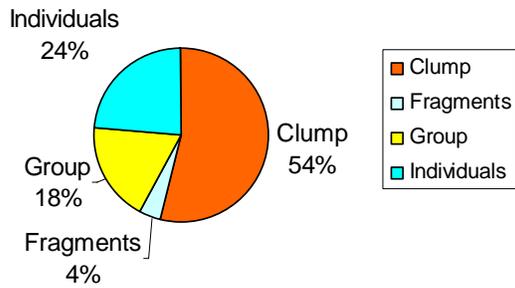
Canopy, plant erosion potential, and site erosion was estimated by visual assessment only and data are estimated values. There were no sites with closed canopy: 73% of sites had an open or mostly open canopy. These data indicate knotweed prefers sunlight.

The potential for knotweed to travel downstream (plant erosion) was high at 65 %, but no sites were in danger of eroding.

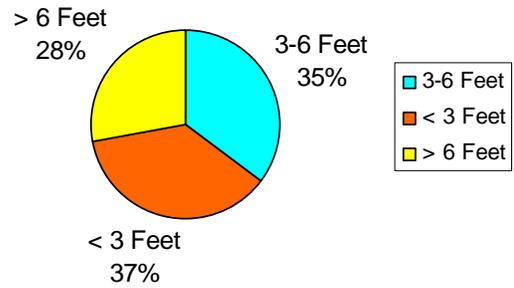
As seen on the Big River, knotweed favored the vegetated, highwater areas and rooted itself into the sand. Some knotweed was also found on gravel bars and/or in cobble. The inclination of knotweed to grow in sandy substrates may be a contributing factor for the fairly small infestations on the Sol Duc River (mid), which mostly consists of cobble and gravel. Areas, such as Ted Spolstra's property, which did contain sandy substrate had large knotweed infestations.

53 % of sites were injected and sprayed, 10% of sites were injected only, and 37 % of sites were sprayed only. These data are consistent with the fact that 37 % of the sites were < 3 feet.

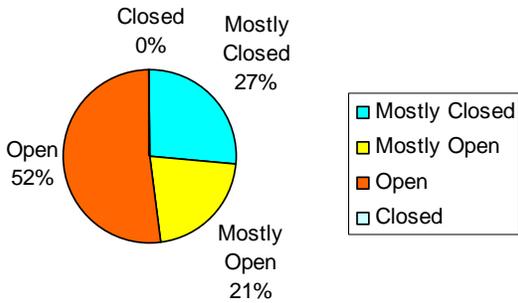
**Cluster Type**



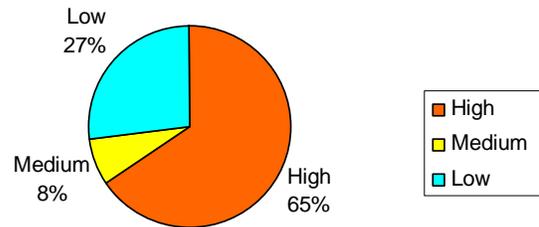
**Plant Height**



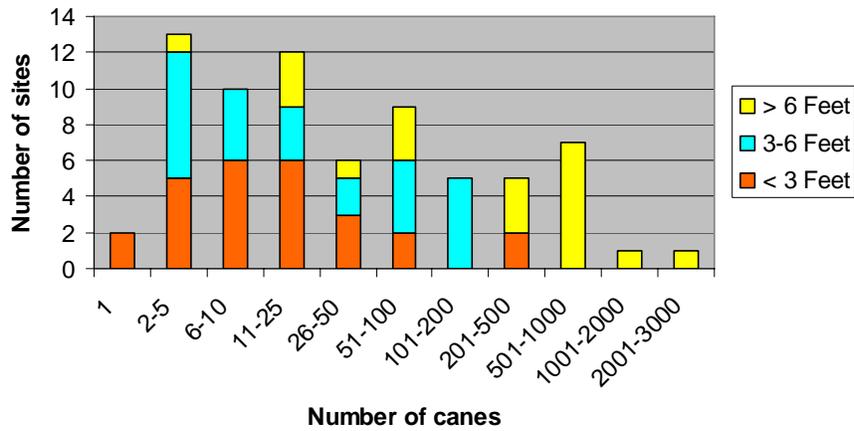
**Canopy**

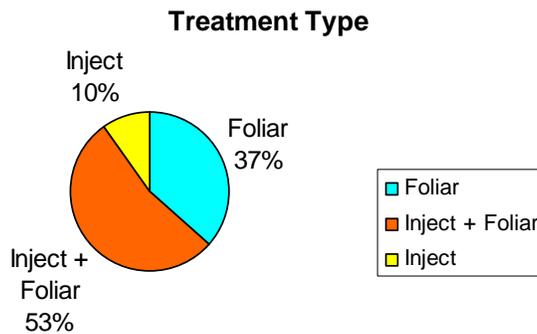
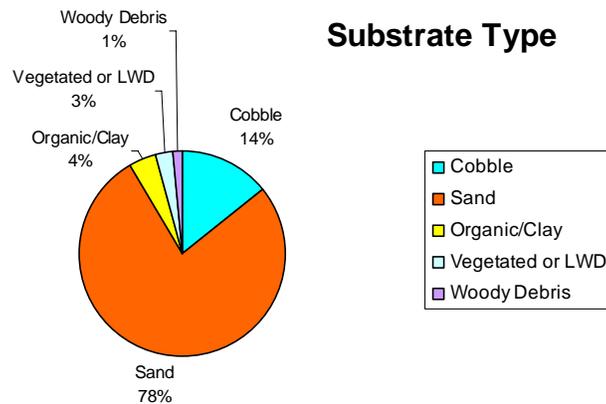
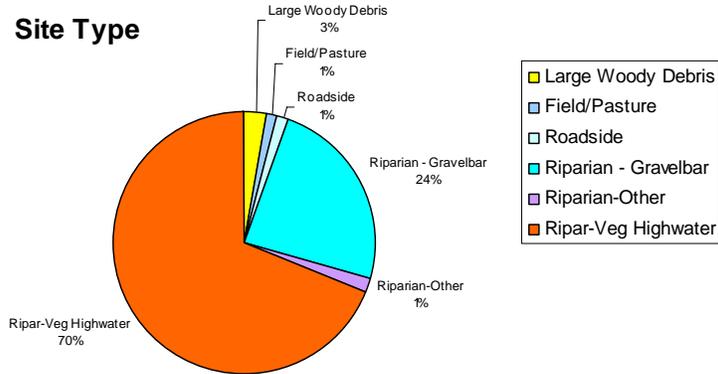


**Plant Erosion Potential**



**Comparison of Canes to Plant Height**



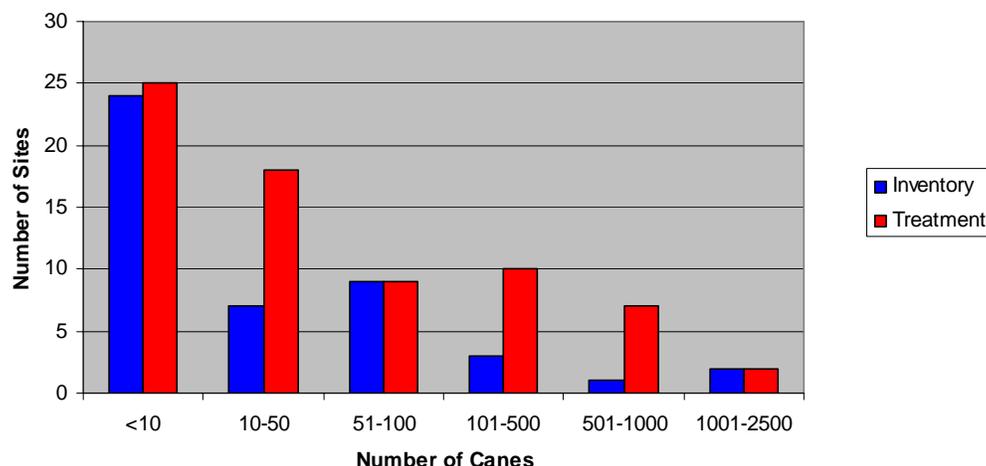


31 new sites were found and treated since May 2005. 7 sites were inventoried in May 2005, but not treated by CCNWCBC for a variety of reasons.

Site Number	Reason for no treatment
SD0001	USFS treated
SD0005, SD0006	McCoys are digging
SD00015	Only 1 plant found
SD00057, SD00058	Henry Eckenberg's property
SD00078	Not found or treated and data was not collected

There was a substantial cane increase on sites since May 2005 as seen in the maps. This is also seen in the data comparing cane density from the 2005 inventory to 2006 treatment. In the graph, data indicates that increase in new sites is mostly adding to the 10-50 cane category, while groups of 100-1000 are gaining in size.

### Cane Increase From 2005 Inventory to 2006 Treatment



Lake Creek and Swanson Creek were the only 2 sites that seemed to have spread additional fragments downstream on the Sol Duc River (mid). Maps clearly show additional sites that may have traveled from Swanson Creek.

To ensure consistency of data and allow for valid data comparisons, only points should be taken next year and categories should remain as consistent as possible. Also, instead of categorizing the site as North and South bank, left and right bank should be used.

#### **COUNTY PIT**

At the County Shop in Forks, there is a gravel pit to the south east. It was brought to CCNWCB's attention that a huge Bohemian knotweed infestation could be found there. Since the infestation was at least an acre in area, there was a concern of exceeding herbicide limits. In this case, a ring was sprayed around the site twice. When the WSDA informed the county that AquaNeat could be applied to the levels of 7.5 quarts *per treatment*, the remaining plants were injected. Monitoring of this site should continue next year to prevent distribution through county maintenance activities.

#### **HILSTROM ROAD**

In 2005, there was a significant infestation reported on Hilstrom Road. This patch was migrating towards the northern river embankment (a steep gradient). The knotweed was about two solid acres, with plants varying in height from 3-8 feet tall. In addition, much of the knotweed was on the county road, thereby untreatable by county employees under current policies. The landowners were more

than willing to control the knotweed, and they were provided with training, equipment, and supplies. The McPhersons treated over several weeks and significant progress was made. Once the plants in the front started dying, more plants that need to be treated became visible. Several more treatments need to be made. The McPhersons pledged that they would be willing to make more treatments themselves if given the tools earlier in the season (May 2007).



**Hilstrom Road Before Treatment**



**Hilstrom Road After Treatment**



**The McPhersons Treated 2 Acres**

### **LAKE PLEASANT**

CCNWCB treated 2 properties near Lake Pleasant: the Grafstroms (50,000 square feet) and the Bucks (8,500 square feet). These infestations were significant in size and > 6 feet tall. Although these parcels are on developed land, they contribute to the infestation in Lake Creek through side channels that flood in the winter. In addition, by helping these landowners, additional interest could be increased in eradicating the knotweed in the area.

### **WEST SNYDER WORK CAMP**

This site was treated last year and again in 2006 by the United States Forest Service (USFS). Plants on USFS land at the Snyder Work Camp were the first upstream site in the May 2005 float. The 2 sites immediately downstream and south of Hwy 101 also belonged to USFS, and special permission was acquired to treat those sites.

### **SAPPHO SITE**

Further downstream at Sappho, the only known site of Himalayan knotweed was treated again by the USFS with positive results. Only 3 stems within a solid 2,500 square foot patch resprouted.

However, 6 small “orphan” patches just outside the original patch perimeter appeared. These may have been generated from root remnants that were not killed by the previous 2005 treatment.

### **BEAR CREEK, BEAVER CREEK, LAKE CREEK, AND SWANSON CREEK**

While treating the Sol Duc River (mid) and talking with local community members, it was brought to the county’s attention that Bear Creek, Beaver Creek, Lake Creek, and Swanson Creek need to be treated. These tributaries empty out into the Sol Duc River (mid), and unless addressed, will reinfest the Sol Duc River.

The Quileute Tribe took knotweed inventory surveys of Bear, Rainey, Beaver, Bockman, Shuwah, Tassel, Fossil, Lower Lake, Swanson, and Gunderson Creeks. They found knotweed in Lake Creek (lower) and at the lower end of Bear Creek at the 101 bridge down to the mouth and Swanson Creek (lower).

CCNWCB treated the site on the Sol Duc River (mid), where Lake Creek ends. Knotweed fragments were gradually moving downstream and infesting the right bank of the Sol Duc River (mid). The crew treated these fragments and continued from the mouth of Lake Creek to approximately 500 feet above the bridge (where the creek crosses Hwy 101). Only 300 feet of the small plants were sprayed upstream from the mouth, and the rest was injected due to time constraints. Huge plants, > 6 feet tall and in the middle of the creek, were found. Small plants, < .5 inches in diameter and 3-6 feet in size, were continuous all the way up the creek on the side of the banks. Data was not collected for the plants that were treated. Knotweed found in Lake Creek seemed to be much more invasive, possibly due to more available sandy areas (versus the cobble substrate in the Sol Duc River) or period of infestation. The infestation is a priority because Lake Creek contains one of the largest, productive coho habitats in the Quillayute system.

### **ACCOMPLISHMENTS/COMMENTS**

- Solicited and obtained 29 landowner permissions [CCNWCB]
- Treated 30 miles of the Sol Duc River (mid) [CCNWCB/Quileute Tribe]
- Used approximately 7 gallons of herbicide [CCNWCB]
- Trained 3 local landowners to treat terrestrial sites in danger of reaching the river and provided them with herbicide (6 gallons) and equipment [CCNWCB]
- Surveyed 46.5 miles of Sol Duc River tributaries and 15 miles of the Sol Duc River [Quileute Tribe/CCNWCB]
- Mapped data using GIS [CCNWCB]
- Knotweed on the Sol Duc River preferred an open canopy in vegetated highwater, sandy areas
- The Sol Duc River (mid) has a high potential for plants traveling downstream, but the dominant substrate of cobble is not ideal for infestations
- Site erosion potential is minimal; and revegetation is not necessary
- Knotweed locations from 2005-2006 were generally static, but gained dramatically in size
- There are significant infestations on Bear Creek, Beaver Creek, Lake Creek, and Swanson Creek. New infestations were appearing at the mouth or just downstream of infested

tributaries. Knotweed found in small tributaries entering the Sol Duc River seemed to be much more invasive, possibly due to increase in sandier areas (versus cobble).

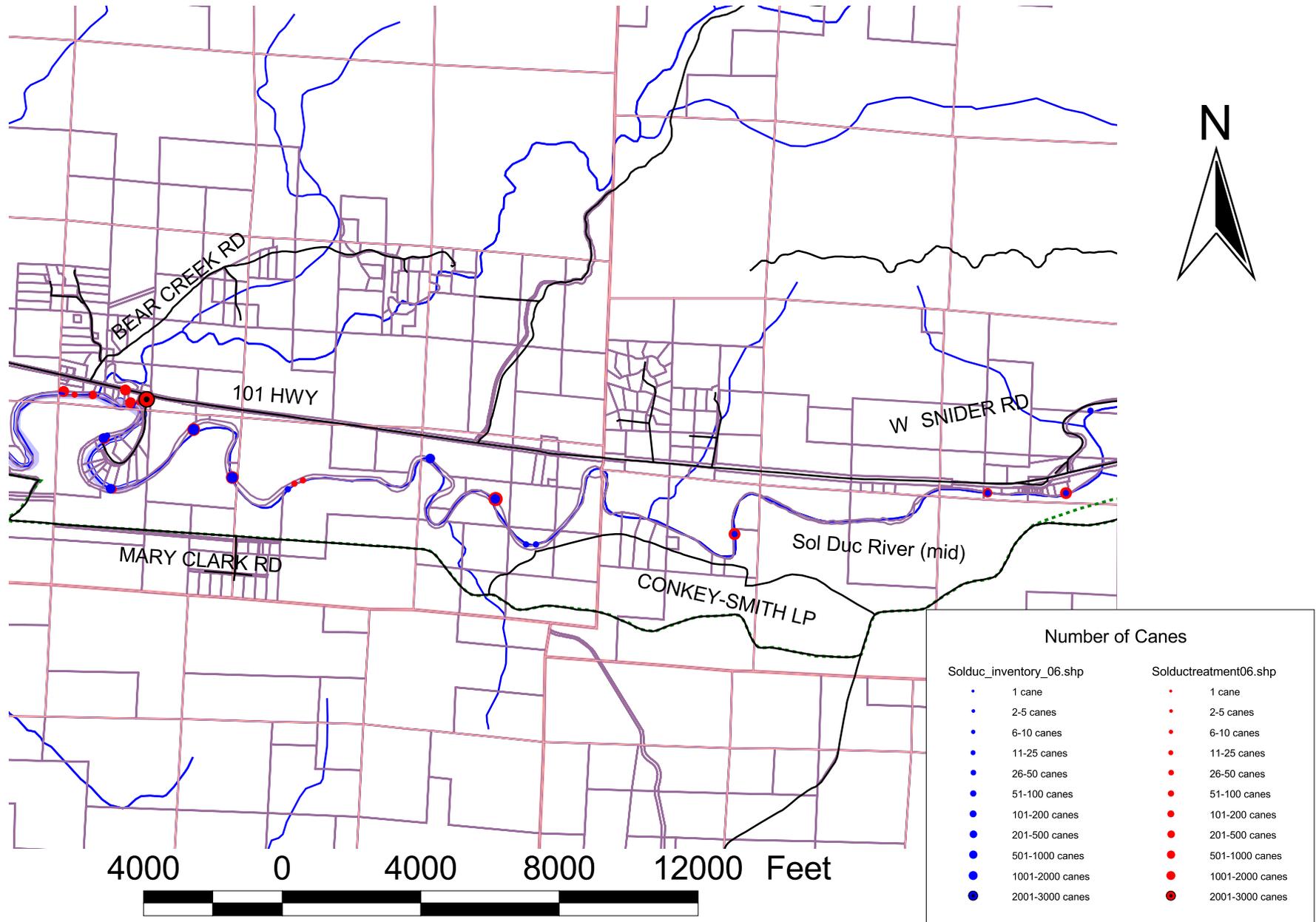
- Since the 2005 survey, some sites may have been completely uprooted and transplanted due to the tremendous flow of the river. Because treatment occurred mostly by foot and no new survey was conducted, there may be sites that were not treated or seen.
- 1 landowner (with possibly the largest site) would not allow herbicide treatment.

#### **RECOMMENDATIONS**

- Resurvey Sol Duc River (mid) in May by boat. Because all the landowners agreements are in place, retreatment can be completed at that time.
- Get landowner agreements and treat Bear Creek, Beaver Creek, Lake Creek, and Swanson Creek (priority)

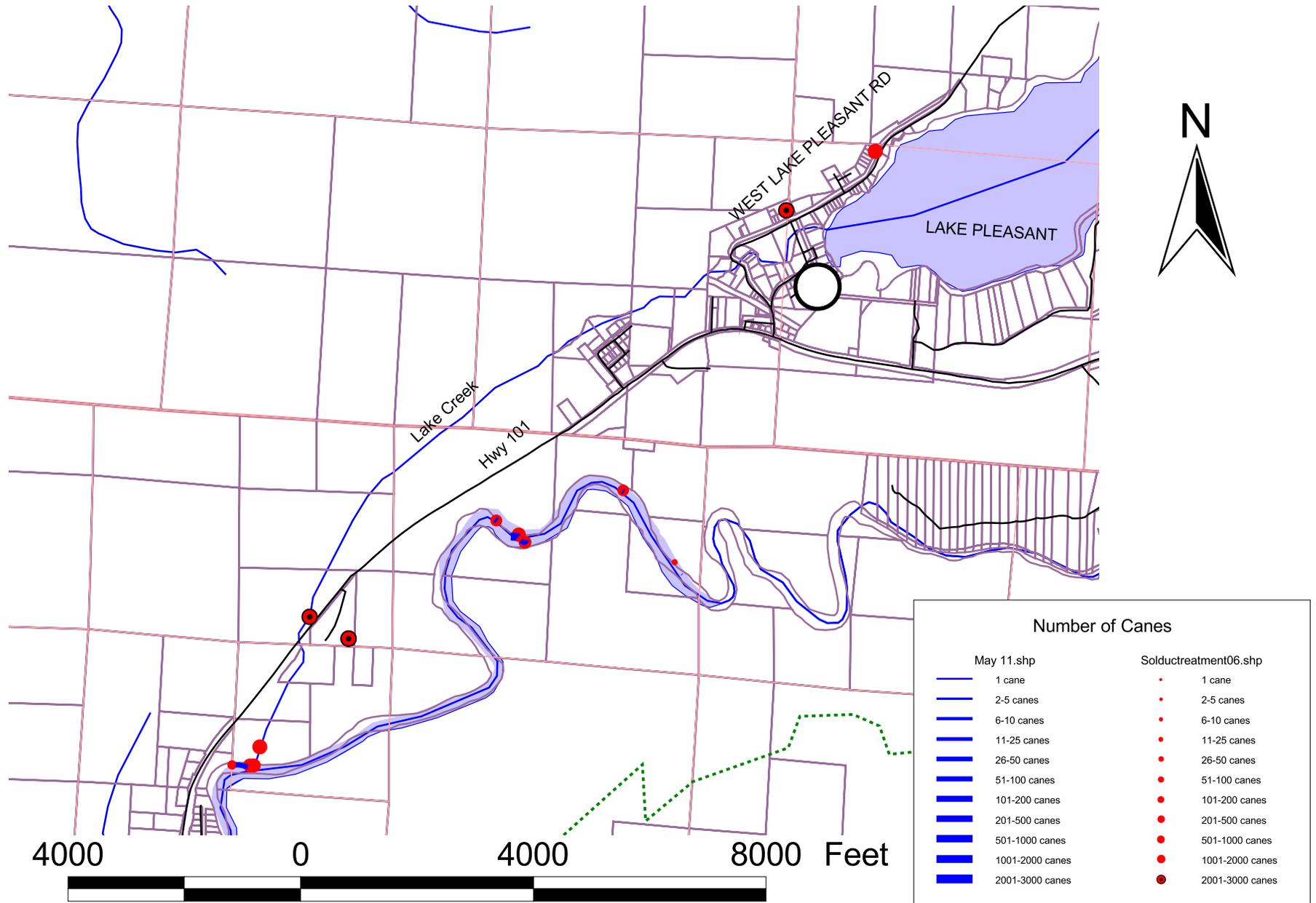
# Sol Duc River (mid)

## 2005 May Survey versus 2006 September Treatments



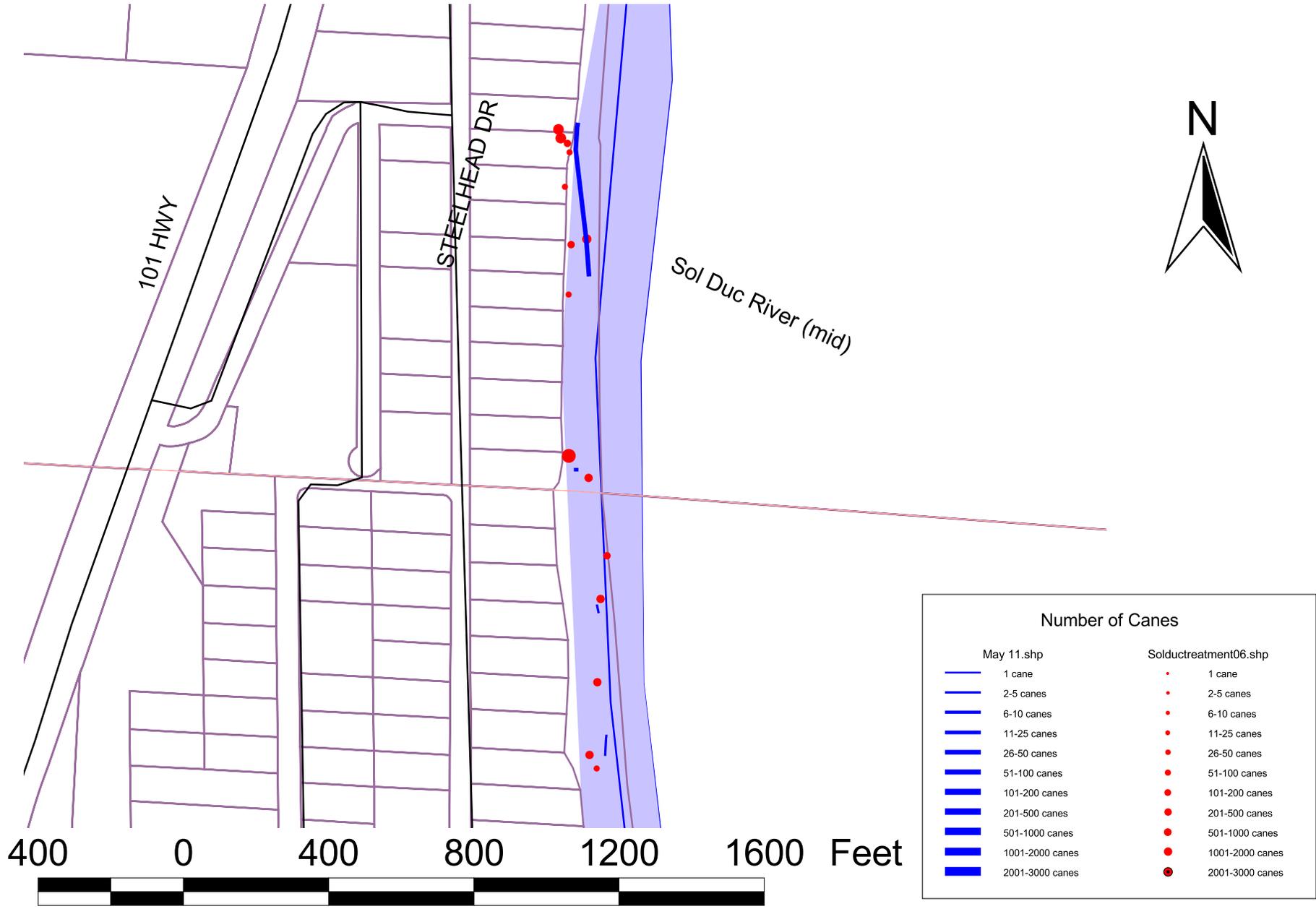
# Sol Duc River (mid)

## 2005 May Survey versus 2006 September Treatments



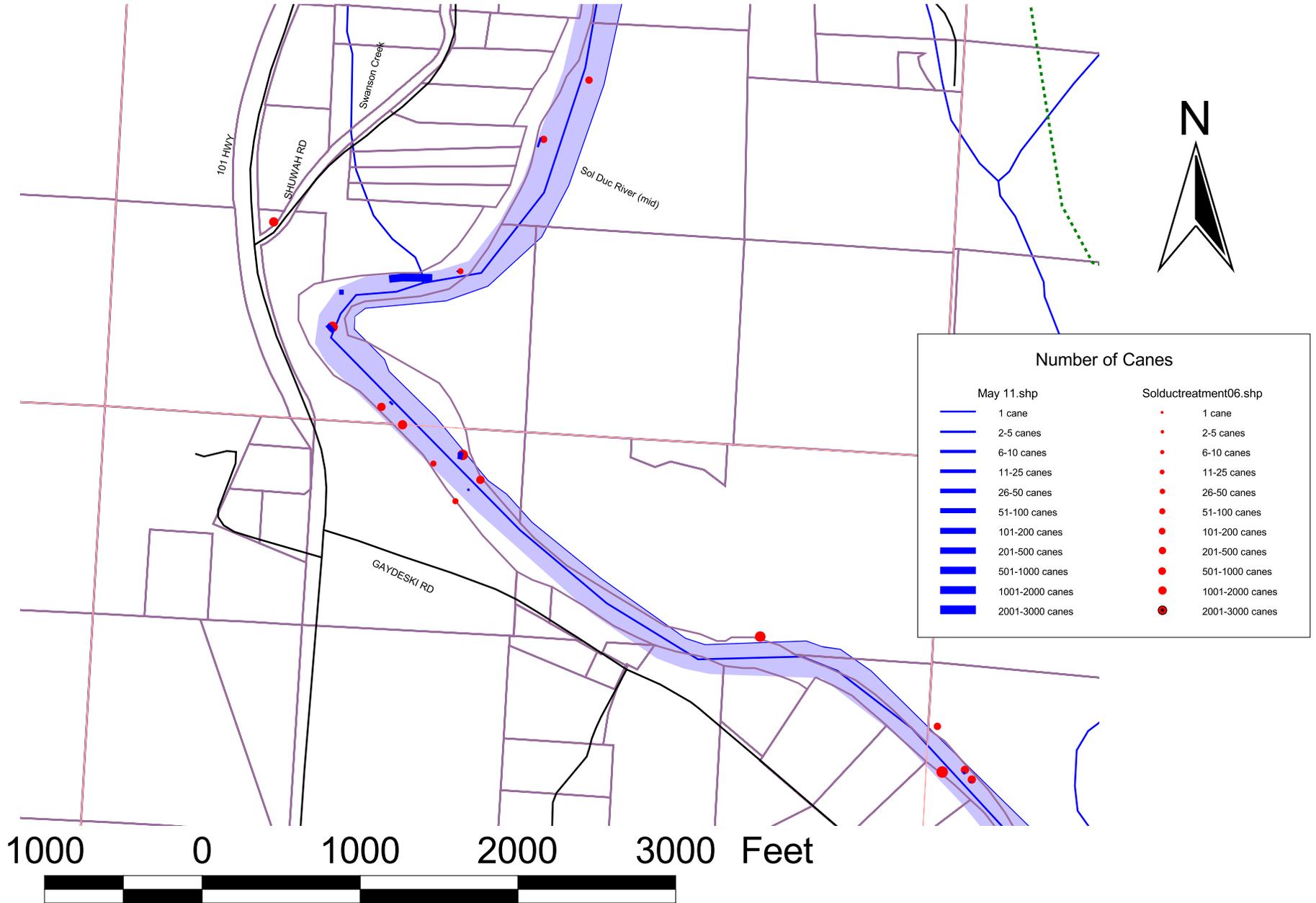
# Sol Duc River (mid)

## 2005 May Survey versus 2006 September Treatments



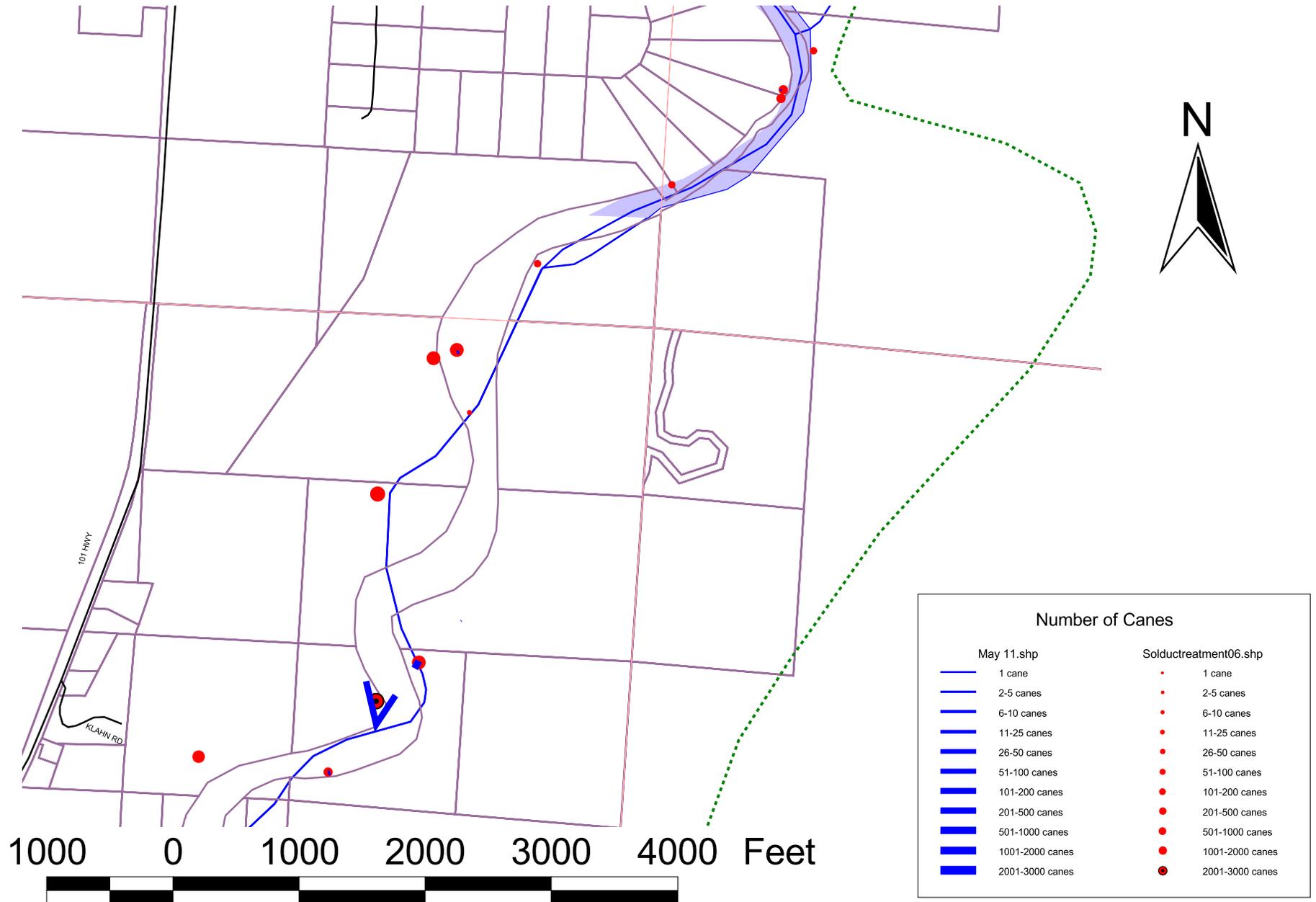
# Sol Duc River (mid)

## 2005 May Survey versus 2006 September Treatments



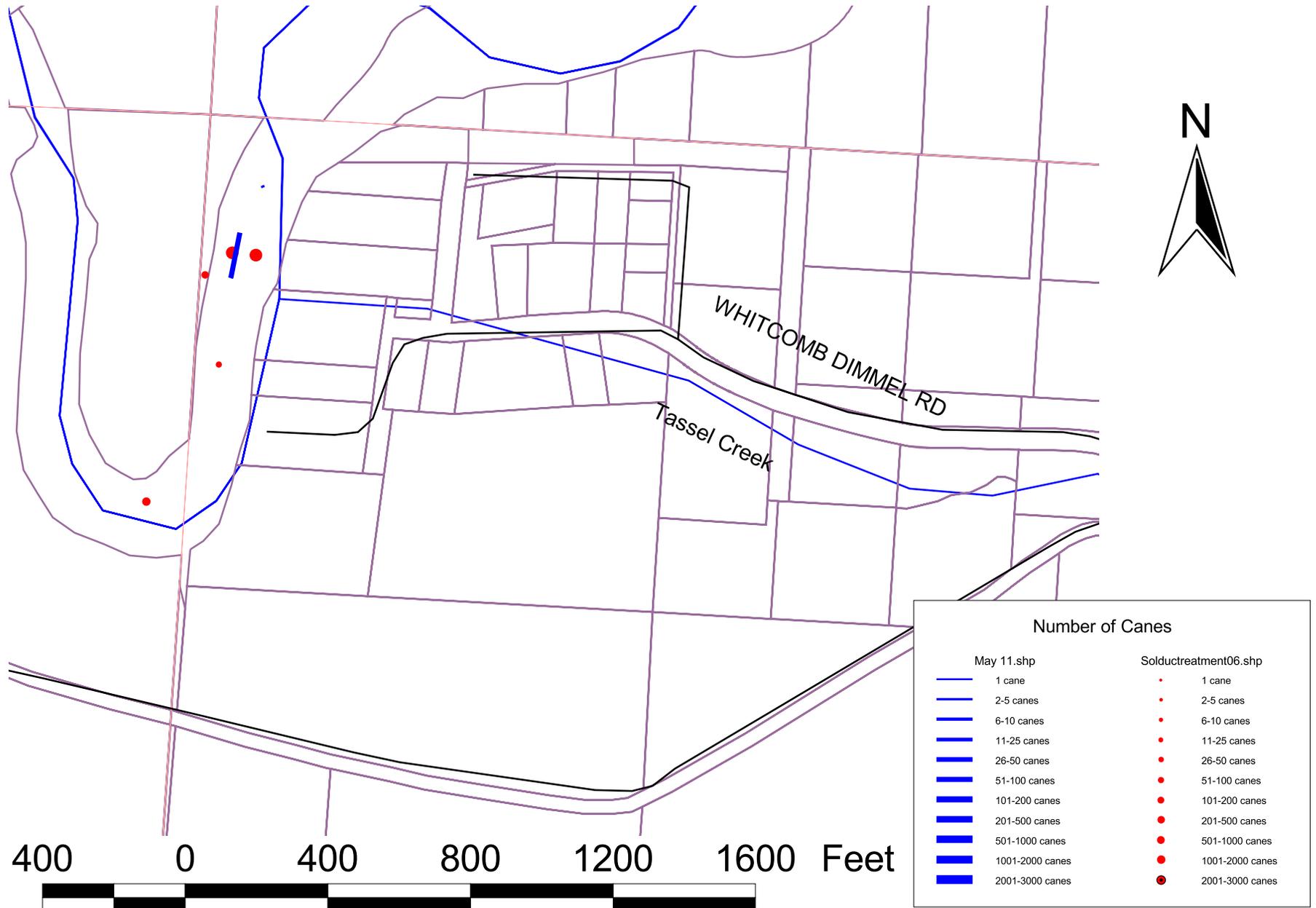
# Sol Duc River (mid)

## 2005 May Survey versus 2006 September Treatments



# Sol Duc River (mid)

## 2005 May Survey versus 2006 September Treatments



## **Quillayute River System**

In the Quillayute sub-basin, the Dickey River is a large, low gradient system of 200 square miles, characterized by sandy bank soils and extensive off-channel fish habitat and riparian areas. The Dickey River enters the Quillayute River approximately 1 mile from the Quillayute's mouth at the Pacific Ocean, at La Push. The Dickey mainstem extends for 8 miles upstream to the confluence of its east and west forks. Surveys indicated the source was probably an old homestead approximately .25 miles upstream of the east and west fork confluence. Knotweed infestation levels in the Dickey were the worst in WRIA 20 and the Olympic Peninsula.

### **DICKEY RIVER**

In 2002, the Dickey system was chosen as a first priority within the basin because of the known (although extensive) confinement of knotweed infestations to the lower reaches, and the importance of the Dickey River to the Quileute Tribe's fishery. In 2003 and 2004, the tribe treated over 4.5 miles of stream and associated off channel and riparian areas (417,000 knotweed stems on 135 sites). Each site was monitored and retreated as necessary in 2005. Additionally, the North Cascades Exotic Crew with the National Park Service treated the remaining mile of knotweed within the Park boundary at La Push.

In 2006, Quileute Natural Resources (QNR) started their control efforts on the Dickey in the middle of June and ended on October 6. QNR employed 5 technicians plus 1 crew leader for 3.5 months. The QNR survey crew had 4 people involved for 4 months. Clallam County provided QNR with herbicide for treatment.

QNR all but eliminated knotweed from the system with the exception of those study plot areas of University of Washington Graduate student, Lauren Urgensen. QNR participated in helping Lauren in her study through control of certain control plots she established and by staying out of her non-control plots. They also helped the Olympic National Park this year in their efforts to control within their ownership in the Dickey River (lower).

### **BOGACHIEL RIVER**

QNR controlled a site at the initiation point on the Bogachiel River (Fishermans Hollow a residential/recreational development area, .25 miles above the 101 Bogachiel Bridge, south of Forks). Their assessment crew discovered this site in their survey of the Bogachiel River. They also treated Laushes property on the Bogachiel River (lower).

### **OTHER SITES**

QNR controlled a patch along the La Push Road, just outside the Olympic National Park boundary, as well as on the reservation behind tribal members' homes.

### **SURVEYS**

QNR's assessment crews surveyed the Calawah, Bogachiel, Sol Duc River (lower), and Quillayute systems and some of their tributaries. They plotted thousands of points on GPS within those systems. On the Sol Duc River (lower), QNR worked with the county for a few days plotting that area. QNR also plotted knotweed patches within the City of Forks and other outliers they found or were told about by landowners.

## 2007 TREATMENT PLANS

QNR survey efforts have shown that knotweed is in every major system within the Quillayute. The Bogachiel River infestations are extensive and will require a major control effort over several years to complete. For 2007, QNR decided to focus on controlling the Calawah and continuing to retreat the Dickey as needed. The City of Forks has agreed to work on knotweed within City limits. CCNWCB is working to coordinate resources for this effort.

## ACCOMPLISHMENTS/COMMENTS

- Retreated 4.5 miles of the Dickey River [Quileute Tribe]
- Treated additional sites on the Bogachiel River, on La Push Road, and on the reservation [Quileute Tribe]
- Surveyed knotweed infestations on the Quillayute River, Sol Duc River (lower) and tributaries, Bogachiel River, and the Calawah River [Quileute Tribe]

For more information about the Quillayute River System, please contact Frank Geyer at (360) 374-2027 or [fgeyer@centurytel.net](mailto:fgeyer@centurytel.net).



**QNR Treating the Dickey River**

## Hoh River

The Hoh watershed consists of 300 square miles and is famous for wild stocks of winter steelhead, fall coho, and spring/summer and fall run Chinook salmon. Loss of large woody debris in the mainstem river channel and tributaries has contributed to numerous habitat impacts including significant land sliding and sedimentation through toe-cutting of riverbanks as well as considerable loss of pool structure. Restoration of a functional mature riparian forest is considered a primary component of fish habitat restoration by the Hoh Tribe and the WRIA 20 watershed planning group.

The Hoh River knotweed infestation was traced to a single source in 1998. By the end of 2003, 18,000 canes in 1,247 sites widely dispersed over 20 river miles had been documented and treated. The Hoh Tribe provided funding for surveys and treatment in 2002 and 2003. Subsequent follow-up surveys and retreatments of the entire 30 mile river corridor in 2004 were conducted by the 10,000 Years Institute. In 2005, CCNWCB provided crew, equipment, and supplies to treat 8 miles river surveyed by Hoh staff. Clallam County also assisted with some landowner contact when new sites were discovered.

In 2006, the 10,000 Years Institute and the Hoh Tribe treated 29.8 miles of the river, down to the river mouth. The coordinator tested for his pesticide applicator's license at the extension office. Equipment and supplies were provided to the 10,000 Years Institute by CCNWCB. Jefferson County's Department of Corrections was hired and provided 6-10 inmates who assisted in the process. They used 2.4 gallons of AquaMaster in their treatment. Most of the plants found and treated were 1-3 feet tall due to previous treatments. 5 new sites were treated with fairly large knotweed patches.

### ACCOMPLISHMENTS/COMMENTS

- Treated 29.8 miles of the Hoh River [10,000 Years Institute]

For more information about the knotweed treatment on the Hoh River, please contact Jill Silver at (360) 385-0715 or [jsilver@10000YearsInstitute.org](mailto:jsilver@10000YearsInstitute.org)

## Valley Creek

Valley Creek is a small stream, which empties into Port Angeles Harbor. Salmon and steelhead have probably been extinct from the creek since the late 1940's, when the final sections of the approximately 2,000-foot culvert at the mouth were installed. Recent surveys of fish in this system revealed numerous resident cutthroat trout up to 11 inches in length.

Flow characteristics at low flow in late summer approximate 1 cubic foot per second. Winter high flow rates approximate 10 cubic feet per second. The redirected riprapped section of streambed along Valley Street is severely channelized and straight-running particularly during high flow seasons. Habitat observations reveal approximately 50% canopy coverage over the creek at most locations, with a preponderance of deciduous trees and few conifers. Understory coverage includes 50 % shrubs, 40% herbaceous material, and 50% grass coverage.

The section of the creek by Valley Street has been heavily infestation with knotweed for some time. At one point, the knotweed was so enormous that residents could barely get into their driveways and the United States Postal Service refused to deliver mail since the road was taken over. Treatment of knotweed on Valley Creek has been ongoing for several years. In 1999, CCNWCB and the Boy Scouts manually removed knotweed from a small section of the road and revegetated the area with native plants. This treatment was extensive, but temporary and only partially successful. In 2006, this site proved useful as training grounds for new employees. The site was visited 3 times in the season (July 19, September 19, and September 21). It was injected and sprayed with 2.3 gallons of herbicide. Results of this treatment should be monitored for next year.

### ACCOMPLISHMENTS/COMMENTS

- Treated 1 mile of the lower section of Valley Creek [CCNWCB]
- Completed 3 treatments/staff trainings [CCNWCB]

For more information, please contact CCNWCB at (360) 417-2442 or [clucero@co.clallam.wa.us](mailto:clucero@co.clallam.wa.us).

## **Dungeness River**

The Dungeness River, which is in the eastern portion of WRIA 18, drains 198 square miles. The mainstem extends 31.9 miles and its primary tributary, the Gray Wolf River, adds another 17.4 miles. There are an additional 256 miles of tributaries in the basin. Historically, the Dungeness was highly productive and diverse containing 11 individual salmonid populations. The Dungeness has experienced significant decreases in stock productivity levels and has been the subject of extensive habitat restoration and conservation for many years. In many cases, the Jamestown S'Klallam Tribe, in partnership with other local agencies has been instrumental in implementing many restoration efforts.

It has been hard to determine when knotweed was first introduced to the Dungeness, but it has obviously been spreading at an alarming rate in recent years. Currently, there are few large patches of knotweed, but most infestations are small clumps and sporadic individual canes, widely disbursed across the flood plain and side channels.

In 2004, the Jamestown S'Klallam Tribe located the uppermost knotweed infestation in the Dungeness mainstem. With some technical assistance from the CCNWCB, the tribe surveyed and treated 8.3 river miles of the Dungeness and most of the adjacent flood plain areas for knotweed. 1,272 sites were located and treated in 2004-2005; most of these sites were very small. It appeared that over 95% of known knotweed sites had been eliminated.

In 2006, Jamestown S'Klallam Tribe continued monitoring and treating knotweed on 8.3 miles of the river. A total of 357 sites were treated along the Dungeness with a median cane density of 1,808 stems. This is a decrease from median cane densities of 8,616 in 2005, and 17,067 in 2004.

### **ACCOMPLISHMENTS/COMMENTS**

- Treated 8 miles or 357 sites on the Dungeness River [Jamestown S'Klallam Tribe]

For more information, please contact Hilton Turnbull at (360) 681-4603 or [hturnbull@jamestowntribe.org](mailto:hturnbull@jamestowntribe.org).

## **Dosewallips River, Duckabush River, Snow Creek, and Salmon Creek**

The Dosewallips and Duckabush Rivers are located in southeastern Jefferson County. Jefferson County has 6 sub-basins, the Dosewallips and the Duckabush are 2 of the 6 principal watersheds of the WRIA 16, which originates in the on the eastern slope of the Olympic Mountain range. The Dosewallips watershed is the northernmost of the 6 sub-basins with the Duckabush nested directly south.

The Dosewallips River is one of the largest rivers in Jefferson County. It flows east from the Olympic Mountains into the Hood Canal at the town of Brinnon, located at the mouth of the river. It drains approximately 130 square miles and includes close to 132 miles of streams and tributaries. Out of the 130 square miles, 93 % is contained within the Olympic National Park and Olympic National Forest. Land use of the remaining 7 % is rural residential, commercial, and private forested land.

Prior to 2006, there had been limited data and treatment of knotweed in Jefferson County. Clallam County provided training, herbicide, and equipment. Jefferson County Noxious Weed Control Board (JCNWC) hired a knotweed coordinator.

Training sessions began August 1, 2006, for surveying and aquatic herbicide applicators. The purpose of the training was to familiarize the survey crew with the GPS units which were used for the survey, as well as, proper use of equipment and application techniques.

Subsequent foot surveys began August 22, 2006, on the Dosewallips River and ended on September 13, 2006. The foot survey, totaling 13 miles, began at the USFS boundary and ended at the mouth of the Dosewallips River at the 101 Hwy. A foot survey of the Elkhorn Campground was also conducted.

A windshield and foot survey was conducted September 11, 2006, on the Duckabush River with no plants located. Survey began within the U.S. Forest Service boundary where a vehicle had access on Duckabush River Road. Further downstream, a foot survey was conducted at the mouth, where again no plants were located. Although knotweed had been reported as being present on the Duckabush River, none was located and efforts were concentrated on treatment of the Dosewallips River.

Treatment was only expected in cases where landowner agreements could be acquired within a short time. Brinnon, where the Dosewallips River mouth is located, is a small community with many vacation rentals, complicating landowner contact. Treatment of the Dosewallips and the Duckabush Rivers began September 14, 2006, and was completed on September 29, 2006. Knotweed plants were injected (3 mls, 100% AquaNeat) and sprayed (hand application with backpacks, 5-8 % AquaNeat, 2% Agri-Dex, and Blazon Blue marker).

### **Snow Creek and Salmon Creek**

Salmon Creek and Snow Creek are their own independent sub-basin, which has 2 major water features beginning in the Olympic Mountain foothills and draining into Discovery Bay. There were 4 additional sites treated on Salmon Creek and Snow Creek in Port Townsend and Quilcene. Survey

information was provided by Washington Department of Fish and Wildlife (WDFW) and Jefferson County Conservation District (JCCD).

**ACCOMPLISHMENTS/COMMENTS**

- Surveyed 13 miles of the Dosewallips and Duckabush Rivers [JCNWCB]
- Solicited and obtained 11 landowner permissions [JCNWCB]
- Treated 20 sites totaling approximately 7,950 square feet and 6 miles of the Dosewallips River Snow Creek, and Salmon Creek [JCNWCB]

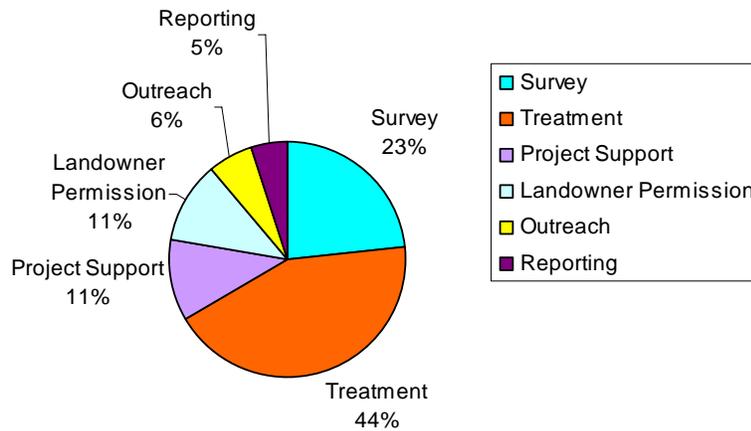
For more information, please contact CCNWCB at (360) 417-2442 or [clucero@co.clallam.wa.us](mailto:clucero@co.clallam.wa.us).

## Program Hours

CCNWCB staff spent a total of 4,308 hours completing knotweed projects in 2006. Staff hours were categorized for CCNWCB staff:

- **Survey** includes driving time and data collection
- **Treatment** includes driving time, actual application periods, setup before, and cleanup afterwards
- **Project Support** includes driving time, office work, phone contacts, licensing, and acquisition of supplies and equipment
- **Landowner Permission** includes driving time, the time it took to establish an agreement with the landowner, time beyond normal treatment to address special needs of the landowner, and updates with the landowner as the project proceeded
- **Outreach** includes driving time, time spent preparing presentations or printed materials for handout and mailings, posting notices, travel time to and from a presentation, the presentation itself along with question periods afterwards, and any follow-up with citizens/agencies afterwards.
- **Reporting** includes documentation review and reporting
- **Training** includes time spent learning data collection, treatment methods, and any other necessary job tasks

## 2006 Staff Time



## CCNWCB Staff Hours by Category and River

River	Survey	Treatment	Project Support	Landowner Permission	Outreach	Reporting	Training	Total Hrs
Big River	949	1325	396	5	171	117	120	3082
Sekiu/Ciallam	24	90	47	369	78	8	10	626
Pysht River	0	15	1	0	0	3	0	19
Sol Duc River	0	367	29	89	0	81	15	581
<b>Total</b>	<b>973</b>	<b>1797</b>	<b>473</b>	<b>463</b>	<b>248</b>	<b>209</b>	<b>145</b>	<b>4308</b>

## Appendix I: Herbicide Use

Total Herbicide Received This Year ~ 270 gallons

<b>Organization</b>	<b>River/Location</b>	<b>Gallons Used (gallons in bold were distributed by CCNWCB)</b>
CCNWCB	Big River (lower) – new & retreat	39
Makah Tribe	Big River (upper & lower) – new & retreat	<b>24.6</b>
Jamestown S’Klallam Tribe	Dungeness River – retreat	<b>5</b>
JCNWCB	Dosewallips and Duckabush Rivers, Snow Creek & Salmon Creek – new	<b>3.0</b>
10,000 Year Institute	Hoh River – retreat	<b>2.4</b>
CCNWCB	Pysht River – retreat	1.2
CCNWCB (private landowners)	Hilstrom River – new	3.5
CCNWCB	Sol Duc River (mid) & Lake Creek – new	8.05
CCNWCB/JCNWCB	Valley Creek – retreat	2.3
City of Forks		<b>2.5</b>
Quileute Tribe	Dickey & Bogachiel Rivers	<b>101.5</b>
Makah Tribe	Hoko River – retreat	<b>2.6</b>
Makah Tribe	Sekiu River – new	<b>11</b>
Makah Tribe	Hoko-Ozette Road – retreat	<b>1.8</b>
Makah Tribe	Hwy 112 – new	<b>6.3</b>
Makah Tribe	Reservation Sites	<b>6.7</b>
Makah Tribe/ CCNWCB	Sekiu & Clallam Bay Area – new	<b>11.6</b>
Dan Hinchey	Residential threatening Swanson Creek – new	<b>2.5</b>
<b>TOTAL</b>	<b>-25</b>	<b>235.6 gallons</b> of herbicide used with <b>181.5 gallons</b> distributed by CCNWCB

## **Appendix II: Example of the Data Dictionary**

AGENCY NAM	COLLECTOR	DATUM	SITE ID	SPECIES	CLUSTER TY	AVERAGE HE	STEM COUNT	PHENOLOGY	SITE TYPE	ACTION	HERBICIDE	SURFACTANT	TREATMENT	OWNERSHIP	SUBSTRATE	CANOPY	PLNT ERODE	HIGH ERODE	AREA	UNIT	COMMENTS	DATE YMD	TIME
CCNWCB	Sasha Sicks	NAD83 State Pln N 4601 StaFt	PY0002	Bohemian	Individual	<3 ft	51-100	Pre-bloom	Field/Pasture	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Merril & Ring	Organic/Clay	Open	Low	No	53460	ft2	small regrowth 35 plants	9/27/2006	00:00:00am
CCNWCB	Sasha Sicks	NAD83 State Pln N 4601 StaFt	PY0004	Bohemian	Fragment	<3 ft	2-5	Pre-bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Merril & Ring	Organic/Clay	Open	High	No	50	ft2	retreat 4 small plants	9/27/2006	00:00:00am
CCNWCB	Sasha Sicks	NAD83 State Pln N 4601 StaFt	PY0004	Bohemian	Individual	<3 ft	6-10	Pre-bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Merril & Ring	Organic/Clay	Mostly Closed	High	No	100	ft2	10 small plants	9/27/2006	00:00:00am
CCNWCB	Sasha Sicks	NAD83 State Pln N 4601 StaFt	PY0004	Bohemian	Fragment	<3 ft	2-5	Pre-bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Merril & Ring	Organic/Clay	Mostly Closed	High	No	5	ft2	2 small plants	9/27/2006	00:00:00am
CCNWCB	Sasha Sicks	NAD83 State Pln N 4601 StaFt	PY0004	Bohemian	Fragment	<3 ft	2-5	Pre-bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Merril & Ring	Sand	Open	High	No	50	ft2	5 small plants	9/27/2006	00:00:00am
CCNWCB	Sasha Sicks	NAD83 State Pln N 4601 StaFt	PY0004	Bohemian	Individual	<3 ft	11-25	Pre-bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Merril & Ring	Organic/Clay	Mostly Open	High	No	400	ft2	20 small plants	9/27/2006	00:00:00am
CCNWCB	Sasha Sicks	NAD83 State Pln N 4601 StaFt	PY0004	Bohemian	Clump	<3 ft	6-10	Pre-bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Merril & Ring	Sand	Open	High	No	5	ft2	1 small plant	9/27/2006	00:00:00am
CCNWCB	Sasha Sicks	NAD83 State Pln N 4601 StaFt	PY0004	Bohemian	Group	<3 ft	101-200	Post-Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Merril & Ring	Sand	Open	High	Yes	100000	ft2	some regwth & mutated	9/27/2006	00:00:00am
CCNWCB	Sasha Sicks	NAD83 State Pln N 4601 StaFt	PY0004	Bohemian	Clump	<3 ft	6-10	Pre-bloom	Roadside	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Merril & Ring	Organic/Clay	Open	Low	No	200	ft2	6 small plants	9/27/2006	00:00:00am
CCNWCB	Sasha Sicks	NAD83 State Pln N 4601 StaFt	PY0005	Bohemian	Clump	<3 ft	11-25	Pre-bloom	Roadside	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Merril & Ring	Organic/Clay	Mostly Open	Low	Yes	200	ft2	15 small plants	9/27/2006	00:00:00am
CCNWCB	Sasha Sicks	NAD83 State Pln N 4601 StaFt	PY0001	Bohemian	Individual	<3 ft	1	Pre-bloom	Field/Pasture	Treatment	Aquamaster/Glypro		Inject	Merril & Ring	Organic/Clay	Open	Low	No	5	ft2	one small regrowth	8/16/2006	12:30:00am
CCNWCB	Sasha Sicks	NAD83 State Pln N 4601 StaFt	PY0002	Bohemian	Individual	3-6 ft	>200	Pre-bloom	Field/Pasture	Treatment	Aquamaster/Glypro	R-11	Inject + Foliar	Merril & Ring	Organic/Clay	Mostly Open	Low	No	53460	ft2	psvht tree land	8/16/2006	01:07:05pm
CCNWCB	Sasha Sicks	NAD83 State Pln N 4601 StaFt	PY0004	Bohemian	Clump	3-6 ft	101-200	Pre-bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	R-11	Foliar	Merril & Ring	Sand	Open	High	No	100	ft2	start psvht river	8/16/2006	02:02:55pm
CCNWCB	Sasha Sicks	NAD83 State Pln N 4601 StaFt	PY0004	Bohemian	Clump	<3 ft	25-50	Pre-bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	R-11	Foliar	Merril & Ring	Sand	Open	High	No	300	ft2		8/16/2006	02:20:02pm
CCNWCB	Sasha Sicks	NAD83 State Pln N 4601 StaFt	PY0004	Bohemian	Group	<3 ft	101-200	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	R-11	Inject + Foliar	Merril & Ring	Sand	Open	High	Yes	3000	ft2		8/16/2006	02:28:00pm
CCNWCB	Sasha Sicks	NAD83 State Pln N 4601 StaFt	PY0004	Bohemian	Group	3-6 ft	>200	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	R-11	Inject + Foliar	Merril & Ring	Sand	Mostly Open	High	No	6000	ft2	end treatment psvht	8/16/2006	02:58:30pm
CCNWCB	Sasha Sicks	NAD83 State Pln N 4601 StaFt	PY0005	Bohemian	Group	3-6 ft	>200	Pre-bloom	Roadside	Treatment	Aquamaster/Glypro	R-11	Foliar	Merril & Ring	Sand	Open	Low	No	4000	ft2	merril crew treated	8/16/2006	03:44:43pm
CCNWCB	Sasha Sicks	NAD83 State Pln N 4601 StaFt	PY0005	Bohemian	Group	3-6 ft	>200	Bloom	Roadside	Treatment	Aquamaster/Glypro	R-11	Inject + Foliar	Merril & Ring	Sand	Open	Low	No	4000	ft2	merril crew treated	8/16/2006	03:47:05pm
CCNWCB	Sasha Sicks	NAD83 State Pln N 4601 StaFt	PY0003	Bohemian	Individual	<3 ft	51-100	Pre-bloom	Roadside	Treatment	Aquamaster/Glypro	R-11	Foliar	Merril & Ring	Sand	Mostly Closed	Low	No	3060	ft2	retreat last year	8/16/2006	05:26:05pm
CCNWCB	Sasha Sicks	NAD83 State Pln N 4601 StaFt	BR0000	Bohemian	Fragment	<3 ft	101-200	Pre-bloom	Field/Pasture	Inventory	None	None	None	Burnick	Vegetated or LWD	Open	Low	No	80000	ft2	burndick	10/18/2006	00:00:00am

### **Appendix III: Example of Spray Record**



# PESTICIDE APPLICATION RECORD (Knotweed)

Washington State Department of Agriculture  
Plant Protection Division  
PO Box 42560  
Olympia, WA 98504-2560  
(360) 902-1853

NOTE: This form must be completed same day as the application and it must be retained for 7 years (Ref. Chapter 17.21 RCW)

YEAR OF PESTICIDE APPLICATION <b>2006</b>	MONTH OF APPLICATION <b>9</b>	DAY OF APPLICATION <b>14</b>	START TIME OF APPLICATION <b>9:00AM</b>	STOP TIME OF APPLICATION <b>10:00AM</b>
2. NAME OF PERSON FOR WHOM PESTICIDE WAS APPLIED			FIRM NAME (IF APPLICABLE) <b>DNR</b>	
STREET ADDRESS <b>PO BOX 47016</b>			CITY <b>Olympia</b>	STATE <b>WA</b>
3. LICENSED APPLICATORS NAME (IF DIFFERENT FROM #2 ABOVE) <b>Sasha Sicks</b>			LICENSE NUMBER <b>72785</b>	
FIRM NAME (IF APPLICABLE) <b>CCNWCB</b>			TELEPHONE NUMBER <b>3604172442</b>	
STREET ADDRESS <b>223 E 4th St Ste 15</b>			CITY <b>Port Angeles</b>	STATE <b>WA</b>
4. PERSON "A" WHO APPLIED PESTICIDE (IF DIFFERENT FROM #3 ABOVE) <b>Monisha Key</b>			PERSON "A" LICENSE NUMBER <b>72742</b>	PERSON "B" WHO APPLIED PESTICIDE <b>Darcy Stumbaugh</b>
PERSON "C" WHO APPLIED PESTICIDE			PERSON "C" LICENSE NUMBER	PERSON "B" LICENSE NUMBER <b>72786</b>
PERSON "D" WHO APPLIED PESTICIDE			PERSON "D" LICENSE NUMBER	PERSON "D" LICENSE NUMBER
5. APPLICATION CROP OR SITE <b>Riparian Knotweed</b>				6. TOTAL AREA TREATED (ACRE, SQ. FT., ETC.) <b>4.29 acres</b>

Please list all information for each pesticide in the tank mix (including surfactants) or pesticide injected:

(a) Product Name	(b) EPA Reg. No.	(c) Total Amount of Herbicide Applied in Area Treated (in gallons)	(d) Herbicide Applied/Acre (or other measure) gal/acre	(e) Concentration Applied
<b>Aquaneat</b>	<b>228305</b>	<b>.039</b>	<b>.009</b>	<b>100%</b>
<b>Aquaneat</b>	<b>228305</b>	<b>.010</b>	<b>.002</b>	<b>8%</b>
<b>Agriplex</b>		<b>.003</b>	<b>.001</b>	<b>2%</b>
<b>Blazon Blue</b>		<b>.002</b>	<b>.0003</b>	<b>1%</b>

8. Address or geographical coordinates of application: 123027331070  
NOTE: If the application is made to one or more acres of agricultural land, the field location must be shown on the map on page two of this form.

9. Wind direction and estimated velocity during the application: < 5 miles/hr  
(The permit requires foliar treatments to occur when the wind is less than 10 miles per hour)

10. Temperature during the application: 65°

11. Apparatus license plate number (if applicable): \_\_\_\_\_

12.  Ground  Injection

Plant Specific Information (check one in each row):

Plant density:  Seedlings/Regrowth from shoots  Scattered stand  Dense stand  
Height of plant:  Less than 1 foot  1 to 5 feet  5 feet or taller

## **Appendix IV: Landowner Tracking Spreadsheet**

PNUM	OWN_LAST	OWN_FIRST	OWN_ADDR1	OWN_ADDR2	OWN_CITY	Name of	Phone	Fax	Alt.	Email	First Contact Outcome	Second Contact Outcome	Permission Granted	Called to Notify	Access Notes
123036210000	WA NATURAL		PO BOX 47016		OLYMPIA	Jeff Shreck	360-732-			<a href="#">dale.chris</a>	Marsha contacted	Called in, Sasha sent him shapefiles	YES		
123036230000	WA NATURAL		PO BOX 47016		OLYMPIA	Jeff Shreck	360-732-			<a href="#">dale.chris</a>	Marsha contacted	Called in, Sasha sent him shapefiles	YES		
123036420100	WA NATURAL		PO BOX 47016		OLYMPIA	Jeff Shreck	360-732-			<a href="#">dale.chris</a>	Marsha contacted	Called in, Sasha sent him shapefiles	YES		
123034120000	WA NATURAL		PO BOX 47016		OLYMPIA	Jeff Shreck	360-732-			<a href="#">dale.chris</a>	Marsha contacted	Called in, Sasha sent him shapefiles	YES		

## Appendix V: Landowner Form Letter

Dear **Landowner**,

While conducting float surveys on the river, Clallam County identified knotweed on or adjacent to your property (Parcel # **Enter Parcel Number**). Knotweed is a very aggressive, noxious weed taking over our streams and rivers. It permanently displaces native vegetation, destroys fish and wildlife habitat and reduces recreational opportunities.

This year, Clallam County is treating knotweed on rivers the Big River, the Sol Duc River, the Hoko River, and the Sekiu River. Before treating, however, we are required to obtain permission to enter your property. We encourage you to sign the copy of the *Permission to Enter Private Land and Waiver of Liability* and fax or send it back to us as soon as possible.

**FAX:** 360-417-2414

**ADDRESS:**

Clallam County Noxious Weed Control Board  
c/o Knotweed Coordinator  
223 E. 4th Street, Suite 15  
Port Angeles, WA 98362-3015

Treatment needs to be completed by the end of this summer. We may also come back next year to monitor the progress.

I have also enclosed *Frequently Asked Questions* for landowners with knotweed on their property. If you have any questions please don't hesitate to call or email me. We will contact you regarding exactly when treatment will occur.

Best regards,

Sasha Sicks  
Knotweed Coordinator  
360-417-2442  
ssicks@co.clallam.wa.us

## **Appendix VI: FAQs for Landowners with Knotweed**

## **Frequently Asked Questions for Landowners with Knotweed**

### **What does knotweed look like?**

- Bamboo-like green or reddish stems
- Bright green leaves 1 to 12 inches wide with smooth (not saw-toothed) edges
- Starts growing in April; full sized by July
- Spikes of small, white flowers in late summer
- Dormant in winter, the dead, brown stems may remain standing
- Dense patches can grow up to 12 feet tall



### **Where does it grow?**

Knotweed thrives in any moist soil or river cobble, in full or partial sunlight. It is most common in the flood plains along rivers and creeks. It also grows in roadside ditches, waste areas and beaches.

### **How does it spread?**

In the Pacific Northwest, knotweed usually spreads when roots are moved by floods or in contaminated soil. Mowing knotweed can also spread it further. Because root fragments as small as ½ inch can start new plants, even one patch can produce hundreds of new plants.

### **Why are you getting rid of this weed? Why is it so harmful?**

- Knotweed is fast growing and extremely aggressive. One small plant can grow up to a foot a week! Huge patches can grow fast, invading river and creek banks.
- Knotweed eventually keeps any plants from growing underneath, and animals and fish don't use it for food or shelter.
- It permanently displaces native vegetation, destroys fish and wildlife habitat and reduces recreational opportunities.
- Knotweed pulls nitrogen out of our nitrogen-deficient soil without returning it. This creates an imbalance in the food chain.
- Knotweed threatens our current and future salmon population through loss of insect populations and shady areas.
- Knotweed infestations compete for space with trees. Trees not only provide more shade for fish habitats, but also provide better root diversity to protect from erosion, and decomposing tree parts produce important nutrients for animals that live in or around the water.
- Knotweed can invade man-made structures such as foundations and roads, causing expensive damage.



### **Why is the County using herbicides to control knotweed?**

- Clallam County and other organizations have tried manual control methods and concluded they were ineffective for all but the smallest infestations. The Nature Conservancy was only able to control one small patch (25 stems) with 17 monthly cuttings over three field seasons. Clallam County does not have the resources to use this method because of how rapidly knotweed is spreading. The size of existing infestations on many of our rivers is already daunting, and we need to act quickly before the problem is totally out of control. Some patches have over 1000 stems, and we have seen over 2 solid acres of knotweed in Clallam County!
- Knotweed has a huge root system and the ability to resprout following cutting. Thus, manually pulling or digging the roots out usually leaves behind leftover roots that can grow back in a couple of weeks.

- The herbicides chosen to treat knotweed have been selected for the lowest toxicity possible, as well as for the maximum efficiency to eradicate the plant.

## What herbicides are you using to kill them with?

The herbicides being used are low toxicity herbicides.

- **Aqua Neat, AquaMaster, and Glypro-** We are using glyphosate, which is the active ingredient of Roundup. However, **Aqua Neat, AquaMaster, or Glypro** are designed to be less toxic to the environment and are labeled for use on rivers, lakes, and streams. We may use an additional herbicide called **imazaypr** (the product name is Habitat) if we find sites that will not respond to glyphosate. Imazaypr is similar to glyphosate, has an even lower toxicity to most animals than glyphosate, but does remain in the soil longer. By mixing the two together, we can reduce the amount used overall. Mixing two kinds of herbicides together often improves the effectiveness when compared with using each herbicide individually.
- **Agridex-** Agridex is the surfactant that is added to the spray mixture to ensure that the foliage soaks up the herbicide.
- **Blazon-** A blue color indicator is mixed into the herbicide we are spraying. This marks where we have sprayed to minimize human contact. This additive is non toxic.

## What are your methods for treatment?

- First, we survey the river by boat to record where current knotweed infestations are located.
- Then, we ensure that all landowners who have knotweed on or bordering their property are contacted about treatment.
- Where practical, the herbicide is injected into the plant stem, thereby minimizing impacts to other plants or wildlife.
- Sometimes, the herbicide is sprayed on the leaves and stems. The herbicide dries and absorbs quickly, thereby minimizing possible exposure.
- After treatment, visible effects on the weed occur within 2-7 days and include wilting and yellowing of the plant. This advances to complete browning of above-ground plant matter and destruction of underground plant parts.
- All pesticide spray records are kept on file for seven years.
- Knotweed control requires follow-up monitoring for several seasons and may entail additional spot treatments.



Knotweed Injection Equipment

## Can I just use Roundup and do it myself?

- Yes, as long as the plants are not near water. The use of herbicides in water is restricted in Washington State. Only a licensed, aquatic applicator or employees working under the supervision of a certified applicator may acquire the permits necessary to apply into water. Additionally, certified applicators are trained professionals who can ensure optimal treatment so knotweed does not grow back.
- Although glyphosate is a low toxicity pesticide and no more than slightly irritating based on toxicity studies; you should always be sure to wear proper protective equipment. Ask about the latest information to best control knotweed.
- The service is currently funded by grants from Washington State Department of Agriculture, United States Department of Agriculture, National Forest Service, the North Olympic Community Salmon Fund, and the Clallam County Noxious Weed Control Board. Projects are limited to certain priority areas and are based on funding availability.

## What happens when the herbicide gets into the river? Does it hurt the fish?

Glyphosate has slight to moderate toxic effects on aquatic organisms, and it is virtually non toxic to birds, bees, and earthworms. Fortunately, the herbicide binds so well to soil that the chance of it running off or leaching into the river is minimal. In addition, it does not readily stay in water due to its ability to bind to soil. Studies have shown that any residues that could accumulate in fish would disappear quite rapidly. When applying herbicide in aquatic environments, the concern is mostly with leaving decomposing plants that soak up oxygen in the water, thereby killing fish. No knotweed treatments are expected to leave such a large amount of decaying plant matter, so this should not be a problem. In fact, with effective and safe herbicide application, we are hoping to

increase fish habitat that vanished due to overgrown knotweed patches. Many knotweed projects have seen native plants readily returning to previously infested sites.

### **What are the environmental impacts using this herbicide?**

Under recommended use, glyphosate binds tightly to soil particles and is no longer available for plant uptake. Soil adsorption prevents the herbicide from leaching into groundwater supplies. However, please notify us if you are aware of water from the river being used by landowners in any way. Potable water intakes from the river must be turned off within 48 hours of the application.

If used according to the label, it will not harm off-site vegetation where other roots grow into the treatment area. Some spray treatments, usually done before or after rain events, may have slight detrimental affects to nearby plants, making them look stunted. Overall, the benefits of eradicating knotweed infestations outweigh any minor plant damage that may occur. It also creates additional area for new plants to emerge.

### **What does it mean to sign the PERMISSION TO ENTER PRIVATE LAND AND WAIVER OF LIABILITY?**

- You are granting permission for activities related to knotweed control.
- Although the agreement indicates a time period from April 1, 2005, to October 31, 2009, you may revoke the agreement at any time.
- The WSU, WSDA, and County, are not responsible for any injury, damage, or harm, resulting from knotweed control.
- The landowner is not responsible for any injuries of WSU, WSDA, or County employees or their agents while they are controlling knotweed on your property.
- Through WSDA licensing, individuals applicators are responsible for any adverse effects results from their treatment.
- Both parties are agreeing that each party shall be held liable for their own actions or omissions.
- All landowners should completely read and understand the contract before signing.



### **Why aren't you going after other weeds too?**

In some places, we may also remove Scotch broom. If we see other noxious weeds while treating for knotweed, we will attempt to record those locations for possible future treatment using the most effective method for that particular weed. Generally, noxious weed control is the responsibility of the landowner. Because of the complexity of treating noxious weeds near water, it is difficult for landowners to handle knotweed problems. Current grant funding allows us to help, but dictates the scope of current herbicide treatments.

### **Why are you just treating by rivers?**

Due to funding and resource limitations, we are focusing our efforts on rivers because they are the most sensitive to knotweed invasions. Through this strategy, we hope to make the biggest impact with available funding.

### **If I have animals on my property, will they get sick?**

The products we are applying are considered relatively non toxic to dogs and other domestic animals. However, it is always a good idea to keep pets away from the treatment area until the product has dried. Ingestion of this product or large amounts of freshly sprayed knotweed may result in temporary gastrointestinal irritation. If such symptoms are observed, provide the animal with plenty of fluids to prevent dehydration. Call a veterinarian if symptoms persist for more than 24 hours.

### **If it's been around so long why are you just getting around to doing something now?**

Knotweed is currently taking ahold of Clallam County's streams and rivers. Control efforts have been underway in some areas for the last three years, and money has just become available for more treatment. This year's Westside projects include treating the Big River, the Sol Duc River, the Hoko River, the Sekiu River and the

Pysht River. There is also an effort to control knotweed on the East Dickey, downstream to La Push, and in the lower 29 miles of the Hoh River. Other projects include the Elwha River, Valley Creek, the Dungeness River and several east Jefferson County rivers.



Before Treatment



After Treatment

### **Why aren't you spraying like the trucks I see driving on the side of the road? Are you the people spraying along the road?**

No. The County does not currently spray herbicides on any County-owned rights-of-way. The Department of Transportation as well as local City governments are responsible for controlling weeds on many roadsides and have different policies for vegetation management.

### **What do I do if I have a water intake from the river?**

After herbicide treatment of knotweed, water quality results have shown negligible amounts of any harmful chemicals, significantly below even drinking water standards. On the label, there are no restrictions for accidental overspray of knotweed plants on river banks. If you do have a water intake, please inform Clallam County so extra care can be taken when treating upstream of your property.

### **Are there alternatives to using herbicides on my property?**

#### **Digging**

You may manually pull or dig **small, poorly established** infestations, removing all the roots of plants in loose soil. Digging knotweed does not work unless it is a brand new plant; you have to get every bit of the root and the roots can grow to be 30 feet long! Once knotweed becomes established, there is unanimous agreement that removal via digging is not recommended. Digging will only spread rhizome fragments, which in turn grow into new plants.

#### **Cutting**

Cutting removes less of the plant than digging and is less effective. It may actually increase stem density even when repeated frequently. If you use this method, please destroy properly! Tossing the canes in a rubbish pile or even worse, into the river, will just spread knotweed further.

#### **Biological/Cultural**

Biological controls are not yet available for knotweed. There are also no known native species or desirable non-native species that can out-compete knotweed once it is established.

### **I don't feel comfortable having County employees on my property.**

Noxious weed crews' sole purpose is to treat knotweed and not to look for other problems on your property. If you feel uncomfortable, we welcome and encourage you to supervise the crew as they are treating knotweed. If you are unhappy with the behavior of any County employee, please contact us at 360-417-2442 as soon as possible so that we may address your concerns.

## **Appendix VII: Permission to Enter Private Land and Waiver of Liability**

## PERMISSION TO ENTER PRIVATE LAND AND WAIVER OF LIABILITY

THIS AGREEMENT INCLUDES PERMISSION TO ENTER PRIVATE PROPERTY AND A WAIVER OF CERTAIN CLAIMS OF LIABILITY. READ CAREFULLY BEFORE SIGNING.

This Permission to Enter Private Land and Waiver of Liability is made between the Clallam County Noxious Weed Control Board, hereafter referred to as "the Board," and \_\_\_\_\_, hereafter referred to individually or collectively as "the property owner(s)."

### INTRODUCTION

1. The control and eradication of noxious weeds on public and private lands is in the public interest and the presence of knotweed (*Polygonum* spp.) on private lands threatens wildlife habitat and provides a source for renewed infestation of public lands. Effective eradication of knotweed requires concerted efforts on both public and private lands to protect public resources.
2. The Board and its agents desire to perform activities to eradicate and/or control knotweed on public and private lands within Clallam County. These activities are authorized and carried out under one or more of the following chapters: 17.04 RCW, 17.06 RCW, 17.10 RCW, 17.24 RCW.
3. The property owner(s) is/are the sole owner of property located at \_\_\_\_\_ in Clallam County, Washington, hereafter referred to as "the property."
4. The property owner(s) is/are interested in and benefited by the eradication and/or control of knotweed on the property.
5. The property owner(s) and the Board desire to memorialize an agreement for the purpose of eradication and/or control of knotweed on the property.

### AGREEMENT

1. **Permission.** In consideration of the benefits described above, the property owner(s) grant permission to the Board and its agents, contractors, cooperators and employees to enter onto the property, with at least twenty-four (24) hours notice, from April 1, 2006, to October 31, 2010, to perform activities to eradicate and/or control knotweed on the property. The property owner(s) acknowledge and agree that these activities may include the application of herbicide to the property.

The property owner(s) also grant permission to agents, contractors, cooperators and employees of the Washington State University and/or the Washington State Department of Agriculture to enter onto the property, with at least twenty-four (24) hours notice, from April 1, 2006, through October 31, 2010, for the purpose of monitoring and evaluating the success of knotweed eradication and/or control activities.

2. **Expiration and Revocation.** The Board and its agents, contractors, cooperators and employees are permitted to enter the property on all of the above dates and until October 31, 2010, or until this permission is revoked, whichever occurs first. The property owner(s) may revoke this permission by presenting a written letter of revocation to the Board. The revocation is effective five (5) business days after receipt by the Board.

- 3. **Liability Waiver.** The purpose of entry onto the property is to perform activities to eradicate and/or control knotweed. The property owner(s) expressly agree to hold harmless The Board, the Washington State University (WSU), the Washington Department of Agriculture (WSDA), and the agents, contractors, cooperators and employees of The Board, WSU, or WSDA, and to waive any claim of liability against The Board, WSU, WSDA, and the agents, contractors, cooperators and employees of The Board, WSU, or WSDA, for any injury, damage, or harm which is the logical and intended consequence of activities properly performed to eradicate and/or control knotweed. As to any other act or omission of either party under this agreement, each party shall be responsible for its own acts or omissions and those of its officers, employees and agents under this agreement. No party to this agreement shall be responsible to the other for the acts or omissions of entities or individuals not a party to this agreement.
- 4. **Entire Agreement.** This Permission to Enter Private Land and Waiver of Liability contains the entire agreement between the parties with regard to the matters set forth herein.
- 5. **Applicable Law.** This Permission to Enter Private Land and Waiver of Liability shall be construed and interpreted according to the laws of the State of Washington.

BY THE SIGNATURE BELOW, THE PROPERTY OWNER(S) DECLARE THAT THE TERMS OF THIS PERMISSION TO ENTER PRIVATE LAND AND WAIVER OF LIABILITY HAVE BEEN COMPLETELY READ AND FULLY UNDERSTOOD AND VOLUNTARILY ACCEPTED AND EXPRESSLY WAIVE ANY CLAIM THAT THIS PERMISSION TO ENTER PRIVATE LAND AND WAIVER OF LIABILITY IS NOT FAIRLY AND KNOWINGLY MADE.

**Property Owner(s) Phone Number:** \_\_\_\_\_

**Property Owner(s) Address:** \_\_\_\_\_  
Street

\_\_\_\_\_

City	County	Zip
------	--------	-----

Name of property owner	Signature of property owner	Date
Name of property owner	Signature of property owner	Date
Name of property owner	Signature of property owner	Date
Name of authorized representative, Clallam County Noxious Weed Control Board	Signature of authorized representative, Clallam County Noxious Weed Control Board	Date

Contact information for the Clallam County Noxious Weed Control Board: Cathy Lucero, (360) 417-2442  
223 E. 4<sup>th</sup>, Suite 15 Port Angeles, WA 98362

## **Appendix VIII: Manually Digging on the Pysht River**

## **Knotweed – 2006**

March 5, 2006. Planted 20 large (4'+) spruce trees in knotweed area. These trees were received at no charge from NOSC. According to the 2005 Clallam County knotweed report, large trees are believed to have a better chance to compete with the knotweed, so we took advantage of this opportunity to try out the theory. (2 persons X 2 hours).

April 26, 2006. Returned to knotweed area; took pictures. Substantial sprouting in main ("clearcut") area, as well as many outlier plants to south and west. Plants which had been uprooted and placed on black plastic last year showed considerable sprouting from the rootwads. The area which had been burned did not show new sprouts except from the rootwads that had not been close enough to the fire to be consumed.

Today's technique involved digging out new sprouts (with rootwads where possible), and putting them on the plastic. For the plants that were dug out last year, the new sprouts were broken off, and restacked with the rootwads on the plastic. The plastic was then pulled over the top of the pile to encourage rotting.

Only a portion of the new sprouts could be dug out at this time (2 people X 2 hours). The area was "cleared" beginning with the farthest west plants, and then north from the railroad grade. It will probably take about 12 man-hours more to complete this initial digging, and it was evident that many more plants were just below ground and would be sprouting within the next few days or weeks. There will need to be ongoing attacks of the regrowth throughout the spring and summer.

May 5, 2006. Returned for major clearing project (3 people X 3 hours). We worked from perimeter on all sides (N-S-E-W) to the open center area. There were scattered new sprouts on the outside margins but, at this point, it doesn't seem as though there is any growth outside our initial (2005) perimeter. Sprouts from a few inches tall to almost five feet were removed. Wherever possible, rootwads were grubbed out, since it is evident that each of them contains multiple sprouts. All of the material was placed on the black plastic and covered with plastic.

The spruce trees planted in March seem to be doing okay, with the exception of one which has had the top and all side branches removed, leaving basically a stick with a few needles. It will probably not survive.

We plan to return for further grubbing as the spring and summer progress. Many sprouts had only begun to emerge, so follow up will be essential.

June 8, 2006. A daunting picture greeted us when we returned just over a month after our last clearing project. We were accompanied by Steve Erickson of the Clallam County knotweed team. (Clearing – 3 hours X 3 people) We began by grubbing out root masses in the area of the railroad grade, so we could uncover our black plastic-wrapped piles from previous efforts. Those piles showed many spindly, yellowish sprouts, so the black plastic is apparently not a complete barrier to light and growth. Wherever possible, the sprouts had escaped from under the plastic, and those plants were growing vigorously.

The growing plants in the infested area ranged from a few inches to over five feet tall. After a period of time spent grubbing roots with pulaskis, we decided that in order to cover the entire area

in one session, we would simply pull the sprouts, hoping to take large portions of the root and “discourage” the plants. We recognize that knotweed is not easily discouraged, but we have a finite amount of energy for this project, and it isn’t yet clear what - or whether - a “best” method would be. So, we pulled. It was very satisfying to leave the area cleared of visible sprouts for at least a brief period.

Other vegetation is developing in the area. The spruce trees that we planted in March seem to be doing very well (except the damaged one). Earlier in the spring there were lots of daffodils and scilla (which were planted by the Hollywood residents in the 1930s, along with the knotweed). These were followed by native bleeding heart, and have now been replaced by waterleaf, grasses, nettles, and thistles (thankfully, not Canadian). On the outside edges of the knotweed patch, there are salmonberry and elderberry plants which are holding their own but don’t seem to be spreading into the most affected area. Two maple seedlings were noted - the first evidence of deciduous trees moving in.

We’re trying different methods of dealing with the pulled knotweed sprouts. One method is to continue to cover the material with black plastic as tightly as possible to eliminate light. The second method is to leave the plants on top the plastic, but uncovered - in hope that they will dry out. The third method is to pile them on the branches remaining on our previous burn site, in hope that they will dry out and can be burned after the summer fire season is over (and before the fall rains). We plan to return to Hollywood in early July for another attack on the knotweed.

July 4, 2006. On July 3, after a preliminary view of the extent of regrowth (4 people X .5 hours), we decided to complete the removal of new sprouts the next day (4 people X 2.5 hours). It appeared that there was slightly less new growth than when we were there in June. There were fewer large sprouts, and for the most part, there was less perimeter growth. The exception was an outlier plant well to the east of the boundary we marked off last year. The plant appeared to have a substantial root, so it may have been there for some time, and we simply missed it when we surveyed the outer reaches of the infestation.

The leafy growth on the plants that had been placed on black plastic and covered with more plastic was mostly dead or dying, probably as a result of the high temperatures of the last few weeks, as well as the elimination of light. However, the plants that had simply been laid on the plastic and not covered were growing vigorously. We decided that there was no need to continue that “experiment.” We used a machete to cut off the new growth on those plants, and before we left, we also covered that pile - which we had added to with newly removed plants. The stalks (very few roots attached) which we had placed on the remains of last autumn’s fire were dried and presumably dead. We added some more stalks to that pile.

The extreme west end of the affected area seemed to have a considerable patch of plants, but there were not many along the railroad grade leading to the main patch. There was a scattering to the south of the grade, but it appeared to be fewer than last month.

We continue to grub out the larger roots with Pulaski or dandelion digger (a new addition, which appeared to work quite well on reaching long roots). Otherwise, we simply pull out the sprouts, hoping that there will be a long-term weakening of the plants - perhaps wishful thinking!

There appears to be slightly increased growth of salmonberry and thimbleberry throughout. In the open area, bull thistles are numerous, and stand taller than almost all the knotweed. Deciduous trees are rare (two tiny maple seedlings); no alder seedlings have been noted. The planted spruce are doing very well (one exception as noted before).

Each time we return to Hollywood to do battle, our hearts sink when we view the rapid regrowth. However, in actual labor time, it is not difficult to clear the area. Probably the reason for dismay is the prospect that this labor could be extended for a period of many years, and our energy might fail before the knotweed does. So far, we're holding our own.

August 7 and 11, 2006. On the 7<sup>th</sup> (2 individuals X 3 hours), we were able to clear all but the center of our "clearcut"; on the 11<sup>th</sup>, we returned (3 individuals X 1.5 hours) to finish up that area, and recheck what we had done on the prior visit.

We uncovered our piles of vegetation. There is certainly considerable mortality at the lower levels, but the new plants showed lots of stringy white shoots – in search of light. Each time we work at Hollywood, we uncover the pile and stack more plants on top. There's a rich, black mulch at the bottom of the pile – too bad it can't be trusted, or it would make really nice compost.

Our technique is pretty much to pull out the shoots. Sometimes a major rootwad is discernible at the ground level and can be dug with the Pulaski, but for the most part, they are buried too deeply to dig out, so we confine ourselves to pulling out what we can, with the goal of weakening the plant over time. Some sprouts had multiple stems and appeared to have regrown from a previously broken (pulled) sprout.

The knotweed plants are definitely smaller now – it was rare to find any over 3' tall. The planted spruce trees have made good growth (up to a foot) and finally overtop, or are of equal height to, the bull thistles, which now dominate the central area. Numerous new elderberry seedlings were seen. Salmonberry are moving in from the shaded edges through spread of established plants, but don't seem to be seeding themselves. The first alder seedlings were observed, just to the north of the railroad grade where there is considerable gravel and compaction of the soil. Other new plants seen were foxglove and burdock.

This is a war of attrition. At this point, we're holding our own. We'll go back for another round of pulling out in early September, then hope to be able to burn the piles as soon as the burn ban is rescinded.

September 14, 2006. Once again, knotweed removal (4 people X 2 hrs). Plants were even smaller than in August, except for those rare exceptions which had been missed in previous clearing efforts. There didn't seem to be as many small sprouts either. The heavily shaded areas to the south of the railroad grade seemed to have fewer new sprouts, as contrasted to the open north side, where initially there had been virtually no plants competing with the knotweed. With the removal of the knotweed, that area is now very sunny (like a clearcut).

The competing vegetation appears to be getting a good foothold. Perennial plants have covered much of the previously bare soil; shrubs like elderberry (seeding throughout) and salmonberry are holding their own; deciduous trees like alder and maple are appearing; and our planted spruce appear to have made good growth. The spruce trees don't show the wilting effect that we have noticed in our other planting (in heavy shade among salmonberry). The prolonged dry summer doesn't appear to have affected the trees, even though they are very exposed.

As an experiment, we uncovered one of our piles of knotweed gleanings. We would like the plants to dry out somewhat so they will be burnable next month when we attempt to burn stalks and rootwads. It will be difficult to get a hot enough fire, since there is limited wood in the area, and carrying it across the river won't be easy.

October 18, 2006. Made last trip for the season, accompanied by Sasha Sicks from the Clallam County knotweed project. There was very little regrowth of any size – the tallest plants were about 18" tall. There were numerous small plants, but not nearly as many as in past visits. The planted spruce looked very healthy. Seedling elderberry and salmonberry seem to be spreading throughout the open area. Outlier plants south and west of the main site were very scattered.

We have decided not to try burning. At this point, even though there have been several rains, the burn ban is still in effect. Finding material to burn would be difficult, and we would have to import starter fuel by carrying it across the river. Since the stalks are rotting under the black plastic, they will not burn easily. We concluded that we will cover all the piles for the winter, and see what live material remains next spring when we start again – probably in late April or May.

*We should have gone over & pulled knotweed earlier before the leaves fell. It was much harder to see the small sprouts.*



**Burdick Site Before Digging**



**Burdick Site - 2006**

## **Appendix IX: Big River Inventory and Treatment Data**

AGENCY	COLLECTOR	DATURN	SITE ID	SPECIES	CLUSTER	TV	AVER	STEM C	PHENOLOG	SITE TYPE	ACTION	HERBICIDE	SURFACTANT	TREATMENT	OWNERSHIP	CANOPY	SUBSTRATE	PLNT	ERODE	HIGH	AREA	UNIT	COMMENTS	DATE	YMD	TIME
CCNWCBC	Annan Bowly	NAD 83 North Plane 4601 Feet	LBR0619	Bohemian	Individual		>6 ft	2-5	Pre-bloom	Ripar-Floodplain	Treatment	Aquamaster/Glypro	None	Inject	DNR		Vegetated or LWD	Low	No	0			old killsite	6/28/2006	10:29:35am	
CCNWCBC	Jake Wright	NAD 83 North Plane 4601 Feet	LBR0601	Bohemian	Individual		3-6 ft	51-100	Pre-bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Jaffarian		Organic/Clay	High	No	0			Taken from survey data/spray	7/5/2006	02:41:58pm	
CCNWCBC	Jake Wright	NAD 83 North Plane 4601 Feet	LBR0649	Bohemian	Individual		3-6 ft	11-25	Pre-bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	R-11	Inject + Foliar	Barber		Sand	Low	No	0				6/28/2006	08:40:29am	
CCNWCBC	Jake Wright	NAD 83 North Plane 4601 Feet	LBR0659	Bohemian	Individual		3-6 ft	6-10	Pre-bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	R-11	Inject + Foliar	DNR		Sand	Low	No	0				6/28/2006	10:18:42am	
CCNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0618	Bohemian	Individual		<3 ft	2-5	Post-Bloom	Riparian - Gravelbar	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Defrang	Mostly Open	Sand	High	Yes	1	ft2		new growth	9/13/2006	10:42:27am	
CCNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0622	Bohemian	Individual		<3 ft	26-50	Post-Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	DNR	Open	Sand	High	Yes	10	ft2		new growth on edge of river	9/13/2006	11:00:21am	
CCNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0624	Bohemian	Group		<3 ft	11-25	Post-Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	DNR	Mostly Open	Fines	High	Yes	20	ft2		new growth - reveg.	9/13/2006	11:09:30am	
CCNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0628	Bohemian	Clump		<3 ft	2-5	Post-Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	DNR	Mostly Open	Fines	High	Yes	1	ft2		new growth	9/13/2006	11:31:53am	
CCNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0629	Bohemian	Clump		<3 ft	26-50	Post-Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Defrang	Open	Fines	High	Yes	6	ft2		new growth	9/13/2006	11:35:18am	
CCNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0680	Bohemian	Individual		<3 ft	11-25	Post-Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Cascade	Open	Organic/Clay	High	Yes	20	ft2		new growth	9/15/2006	11:43:42am	
CCNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0699	Bohemian	Group		<3 ft	26-50	Post-Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Cascade	Mostly Closed	Fines	High	Yes	75	ft2		new growth test plot	9/15/2006	01:16:39pm	
CCNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0751	Bohemian	Group		3-6 ft	101-200	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	R-11	Foliar	Rayonier	Mostly Open	Organic/Clay	High	Yes	1500	ft2		levin's? stop@log jam.	9/12/2006	09:27:12pm	
CCNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0601	Bohemian	Group		3-6 ft	51-100	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Defrang	Mostly Open	Organic/Clay	Low	No	40	ft2		reveg?	9/30/2006	09:09:28am	
CCNWCBC	Annan Bowly	NAD 83 North Plane 4601 Feet	LBR0647	Bohemian	Individual		<3 ft	2-5	Pre-bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	R-11	Foliar	Defrang		Sand	Low	No	0	ft2		by road treated area	6/27/2006	03:23:09pm	
CCNWCBC	Annan Bowly	NAD 83 North Plane 4601 Feet	LBR0638	Bohemian	Individual		<3 ft	6-10	Pre-bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	R-11	Foliar	Defrang		Vegetated or LWD	Low	No	0	ft2		below treated area	6/27/2006	02:59:49pm	
CCNWCBC	Annan Bowly	NAD 83 North Plane 4601 Feet	LBR0639	Bohemian	Individual		<3 ft	2-5	Pre-bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	R-11	Foliar	Defrang		Vegetated or LWD	Low	No	0	ft2		below treated area	6/27/2006	03:04:56pm	
CCNWCBC	Annan Bowly	NAD 83 North Plane 4601 Feet	LBR0640	Bohemian	Individual		<3 ft	1	Pre-bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	R-11	Foliar	Defrang		Vegetated or LWD	Low	No	0	ft2		new little ones by treated	6/27/2006	03:06:40pm	
CCNWCBC	Annan Bowly	NAD 83 North Plane 4601 Feet	LBR0641	Bohemian	Individual		<3 ft	1	Pre-bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	R-11	Foliar	Defrang		Vegetated or LWD	Low	No	0	ft2		under log by treated area	6/27/2006	03:09:41pm	
CCNWCBC	Annan Bowly	NAD 83 North Plane 4601 Feet	LBR0642	Bohemian	Individual		<3 ft	2-5	Pre-bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	R-11	Foliar	Defrang		Vegetated or LWD	Low	No	0	ft2		by road treated area	6/27/2006	03:11:39pm	
CCNWCBC	Annan Bowly	NAD 83 North Plane 4601 Feet	LBR0643	Bohemian	Individual		<3 ft	1	Pre-bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	R-11	Foliar	Defrang		Cobble	Low	No	0	ft2		by road treated area	6/27/2006	03:15:10pm	
CCNWCBC	Annan Bowly	NAD 83 North Plane 4601 Feet	LBR0644	Bohemian	Individual		<3 ft	2-5	Pre-bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	R-11	Foliar	Defrang		Cobble	Low	No	0	ft2		river rock by treated area	6/27/2006	03:16:42pm	
CCNWCBC	Annan Bowly	NAD 83 North Plane 4601 Feet	LBR0645	Bohemian	Individual		<3 ft	6-10	Pre-bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	R-11	Foliar	Defrang		Cobble	Low	No	0	ft2		river rock by treated area	6/27/2006	03:19:09pm	
CCNWCBC	Annan Bowly	NAD 83 North Plane 4601 Feet	LBR0646	Bohemian	Individual		<3 ft	2-5	Pre-bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	R-11	Foliar	Defrang		Vegetated or LWD	Low	No	0	ft2		on mossy mound	6/27/2006	03:20:49pm	
CCNWCBC	Annan Bowly	NAD 83 North Plane 4601 Feet	LBR0648	Bohemian	Individual		<3 ft	2-5	Pre-bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	R-11	Foliar	Defrang		Vegetated or LWD	Low	No	0	ft2		by road treated area	6/27/2006	03:25:10pm	
CCNWCBC	Jake Wright	NAD 83 North Plane 4601 Feet	LBR0650	Bohemian	Individual		3-6 ft	11-25	Pre-bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	R-11	Inject + Foliar	Defrang		Sand	Low	No	0	ft2			6/28/2006	08:51:46am	
CCNWCBC	Jake Wright	NAD 83 North Plane 4601 Feet	LBR0651	Bohemian	Individual		3-6 ft	11-25	Pre-bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	R-11	Inject + Foliar	Defrang		Sand	Low	No	0	ft2			6/28/2006	08:54:36am	
CCNWCBC	Jake Wright	NAD 83 North Plane 4601 Feet	LBR0652	Bohemian	Individual		3-6 ft	11-25	Pre-bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	R-11	Inject + Foliar	Defrang		Sand	Low	No	0	ft2			6/28/2006	08:56:31am	
CCNWCBC	Jake Wright	NAD 83 North Plane 4601 Feet	LBR0653	Bohemian	Individual		3-6 ft	11-25	Pre-bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	R-11	Inject + Foliar	Defrang		Sand	Low	No	0	ft2			6/28/2006	09:01:32am	
CCNWCBC	Jake Wright	NAD 83 North Plane 4601 Feet	LBR0654	Bohemian	Clump		3-6 ft	26-50	Pre-bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	R-11	Inject + Foliar	Defrang		Sand	Low	No	0	ft2			6/28/2006	09:05:10am	
CCNWCBC	Jake Wright	NAD 83 North Plane 4601 Feet	LBR0655	Bohemian	Clump		3-6 ft	11-25	Pre-bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	R-11	Inject + Foliar	Defrang		Sand	Low	No	0	ft2			6/28/2006	09:11:39am	
CCNWCBC	Jake Wright	NAD 83 North Plane 4601 Feet	LBR0656	Bohemian	Individual		<3 ft	11-25	Pre-bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	R-11	Inject + Foliar	DNR		Fines	Low	No	0	ft2			6/28/2006	09:22:33am	
CCNWCBC	Jake Wright	NAD 83 North Plane 4601 Feet	LBR0657	Bohemian	Clump		3-6 ft	51-100	Pre-bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	R-11	Inject + Foliar	DNR		Sand	Low	No	0	ft2			6/28/2006	09:26:04am	
CCNWCBC	Jake Wright	NAD 83 North Plane 4601 Feet	LBR0658	Bohemian	Individual		3-6 ft	26-50	Pre-bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	R-11	Inject + Foliar	DNR		Sand	Low	No	0	ft2			6/28/2006	09:32:08am	
CCNWCBC	Jake Wright	NAD 83 North Plane 4601 Feet	LBR0660	Bohemian	Individual		3-6 ft	6-10	Pre-bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	R-11	Foliar	DNR		Sand	Low	No	0	ft2			6/28/2006	10:32:50am	
CCNWCBC	Jake Wright	NAD 83 North Plane 4601 Feet	LBR0662	Bohemian	Individual		3-6 ft	11-25	Pre-bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	R-11	Foliar	Barber		Sand	Low	No	0	ft2			6/28/2006	03:22:48pm	
CCNWCBC	Jake Wright	NAD 83 North Plane 4601 Feet	LBR0663	Bohemian	Clump		3-6 ft	51-100	Pre-bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	R-11	Inject + Foliar	Defrang		Sand	Low	No	0	ft2			6/28/2006	03:26:09pm	
CCNWCBC	Jake Wright	NAD 83 North Plane 4601 Feet	LBR0664	Bohemian	Clump		3-6 ft	51-100	Pre-bloom	Riparian - Gravelbar	Treatment	Aquamaster/Glypro	R-11	Foliar	Defrang		Gravel	Low	No	0	ft2		all over beach	6/28/2006	03:28:53pm	
CCNWCBC	Jake Wright	NAD 83 North Plane 4601 Feet	LBR0665	Bohemian	Group		>6 ft	>200	Pre-bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	R-11	Inject + Foliar	Defrang		Sand	Low	Yes	0	ft2		treated thousands	6/28/2006	03:40:24pm	
CCNWCBC	Annan Bowly	NAD 83 North Plane 4601 Feet	LBR0601	Bohemian	Individual		3-6 ft	1	Pre-bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	R-11	Foliar	Defrang		Vegetated or LWD	Low	No	0	ft2		plant all alone	6/29/2006	08:54:33am	
CCNWCBC	Annan Bowly	NAD 83 North Plane 4601 Feet	LBR0602	Bohemian	Individual		<3 ft	11-25	Pre-bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	R-11	Foliar	Defrang		Sand	Low	No	0	ft2		new growth, up from treated	6/29/2006	08:57:02am	
CCNWCBC	Annan Bowly	NAD 83 North Plane 4601 Feet	LBR0603	Bohemian	Clump		3-6 ft	6-10	Pre-bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Defrang		Vegetated or LWD	Low	No	0	ft2		up from treated, spayed near	6/29/2006	09:00:23am	
CCNWCBC	Annan Bowly	NAD 83 North Plane 4601 Feet	LBR0604	Bohemian	Clump		3-6 ft	2-5	Pre-bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	R-11	Foliar	Defrang		Vegetated or LWD	Low	No	0	ft2		new growth up from treated	6/29/2006	09:05:15am	
CCNWCBC	Annan Bowly	NAD 83 North Plane 4601 Feet	LBR0605	Bohemian	Individual		<3 ft	11-25	Pre-bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	R-11	Foliar	Defrang		Vegetated or LWD	Low	No	0	ft2		scattered in leaf drop kill	6/29/2006	09:05:54am	
CCNWCBC	Annan Bowly	NAD 83 North Plane 4601 Feet	LBR0606	Bohemian	Individual		<3 ft	2-5	Pre-bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	R-11	Foliar	Defrang		Vegetated or LWD	Low	No	0	ft2		down from kill site	6/29/2006	09:07:23am	
CCNWCBC	Annan Bowly	NAD 83 North Plane 4601 Feet	LBR0607	Bohemian	Clump		3-6 ft	6-10	Pre-bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	R-11	Foliar	Defrang		Vegetated or LWD	Low	No	0	ft2		new growth down from kill s	6/29/2006	09:09:09am	
CCNWCBC	Annan Bowly	NAD 83 North Plane 4601 Feet	LBR0608	Bohemian	Clump		<3 ft	2-5	Pre-bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	R-11	Foliar	Defrang		Sand	Low	No	0	ft2		isolated on beach, no other	6/29/2006	09:18:02am	
CCNWCBC	Annan Bowly	NAD 83 North Plane 4601 Feet	LBR0609	Bohemian	Individual		<3 ft	2-5	Pre-bloom	Riparian - Gravelbar	Treatment	Aquamaster/Glypro	R-11	Foliar	Defrang		Cobble	Low	No	0	ft2		no other plants around	6/29/2006	09:28:22am	
CCNWCBC	Annan Bowly	NAD 83 North Plane 4601 Feet	LBR0610	Bohemian	Individual		<3 ft	2-5	Pre-bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	R-11	Foliar	Defrang		Vegetated or LWD	Low	No	0	ft2		new growth, no others around	6/29/2006	10:08:25am	
CCNWCBC	Annan Bowly	NAD 83 North Plane 4601 Feet	LBR0611	Bohemian	Individual		<3 ft	1	Pre-bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	R-11	Foliar	Defrang		Vegetated or LWD	Low	No	0	ft2		below tall grass	6/29/2006	10:12:23am	
CCNWCBC																										

AGENCY	COLLECTOR	DATURN	SITE ID	SPECIES	CLUSTER	TY	AVER	STEM C	PHENOLOG	SITE TYPE	ACTION	HERBICIDE	SURFACTANT	TREATMENT	OWNERSHIP	CANOPY	SUBSTRATE	PLNT	ERODE	HIGH	AREA	UNIT	COMMENTS	DATE	YMD	TIME
CNWCBC	Sasha Sicks	NAD 83 North Plane 4601 Feet	LBR0603	Bohemian	Group		<3 ft	>200	Pre-bloom	Riparian - Gravelbar	Treatment	Aquamaster/Glypro	None	Inject	Defrang	Mostly Open	Organic/Clay	Low	No	5625	ft2			7/10/2006	10:22:40am	
CNWCBC	Sasha Sicks	NAD 83 North Plane 4601 Feet	LBR0604	Bohemian	Group		>6 ft	101-200	Pre-bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Defrang	Open	Organic/Clay	High	Yes	5400	ft2			7/10/2006	10:31:53am	
CNWCBC	Sasha Sicks	NAD 83 North Plane 4601 Feet	LBR0605	Bohemian	Group		3-6 ft	>200	Pre-bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject + Foliar	Cascade	Mostly Open	Sand	Low	Yes	7425	ft2			7/15/2006	10:09:51am	
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0603	Bohemian	Group		3-6 ft	51-100	Bloom	Riparian - Gravelbar	Treatment	Aquamaster/Glypro	R-11	Inject	Cascade	Mostly Open	Organic/Clay	Low	No	100	ft2	reveg		7/15/2006	07:59:59am	
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0605	Bohemian	Group		3-6 ft	51-100	Bloom	Riparian - Gravelbar	Treatment	Aquamaster/Glypro	None	Inject	Cascade	Mostly Open	Organic/Clay	Low	No	100	ft2	reveg.		7/15/2006	07:59:59am	
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0607	Bohemian	Clump		3-6 ft	2-5	Bloom	Riparian - Gravelbar	Treatment	Aquamaster/Glypro	R-11	Foliar	Cascade	Mostly Open	Organic/Clay	High	Yes	1	ft2	flood plain in river bed		7/15/2006	09:56:05am	
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0611	Bohemian	Group		3-6 ft	6-10	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	R-11	Foliar	Cascade	Mostly Open	Fines	High	Yes	30	ft2	100% leaf drop on injected		7/15/2006	10:14:07am	
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0613	Bohemian	Group		3-6 ft	>200	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	R-11	Inject	Cascade	Open	Fines	Medium	Yes	100	ft2	planted-some kill of evergr		7/15/2006	10:23:14am	
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0616	Bohemian	Group		3-6 ft	11-25	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	R-11	Inject	Cascade	Open	Fines	High	Yes	30	ft2	reveg.		7/15/2006	10:36:18am	
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0620	Bohemian	Group		>6 ft	101-200	Pre-bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Cascade	Open	Fines	Medium	Yes	200	ft2	large group		7/17/2006	10:50:06am	
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0632	Bohemian	Group		<3 ft	11-25	Pre-bloom	Field/Pasture	Treatment	Aquamaster/Glypro	R-11	Foliar	Cascade	Open	Organic/Clay	Low	No	30	ft2	on edge of picnic area		7/15/2006	11:52:58am	
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0638	Bohemian	Group		3-6 ft	26-50	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Cascade	Mostly Open	Fines	High	Yes	20	ft2	planted		7/15/2006	12:27:02pm	
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0646	Bohemian	Group		3-6 ft	11-25	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Cascade	Mostly Open	Organic/Clay	High	Yes	10	ft2	90% leaf drop 7 plants mis		7/15/2006	12:57:29pm	
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0647	Bohemian	Group		<3 ft	11-25	Pre-bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	R-11	Foliar	Cascade	Mostly Open	Organic/Clay	High	Yes	10	ft2	10% kill		7/15/2006	01:00:52pm	
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0649	Bohemian	Group		3-6 ft	6-10	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Cascade	Mostly Open	Organic/Clay	High	Yes	6	ft2	rb 100% leaf drop		7/15/2006	01:05:15pm	
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0650	Bohemian	Group		3-6 ft	6-10	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Cascade	Mostly Open	Organic/Clay	High	Yes	6	ft2	rb 90% leaf drop 4new growt		7/15/2006	01:07:54pm	
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0683	Bohemian	Group		3-6 ft	11-25	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Cascade	Open	Organic/Clay	Medium	Yes	30	ft2	100%		7/17/2006	11:57:31am	
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0685	Bohemian	Group		3-6 ft	26-50	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Cascade	Mostly Open	Fines	High	Yes	30	ft2	hw 100% leaf drop planted		7/17/2006	12:03:25pm	
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0686	Bohemian	Group		3-6 ft	11-25	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Cascade	Mostly Closed	Fines	High	Yes	10	ft2	hw 100%		7/17/2006	12:06:21pm	
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0684	Bohemian	Group		3-6 ft	51-100	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Cascade	Mostly Closed	Organic/Clay	High	Yes	50	ft2	100% planted		7/17/2006	12:55:32pm	
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0689	Bohemian	Group		3-6 ft	26-50	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Cascade	Mostly Closed	Fines	High	Yes	70	ft2	100% planted		7/17/2006	01:02:03pm	
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0703	Bohemian	Group		3-6 ft	101-200	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Cascade	Mostly Open	Fines	High	Yes	100	ft2	good date end inject 100% r		7/17/2006	01:35:44pm	
CNWCBC	Sasha Sicks	NAD 83 North Plane 4601 Feet	LBR0606	Bohemian	Clump		3-6 ft	>200	Pre-bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Cascade	Open	Sand	High	Yes	12600	ft2			7/17/2006	10:47:46am	
CNWCBC	Sasha Sicks	NAD 83 North Plane 4601 Feet	LBR0607	Bohemian	Group		>6 ft	>200	Pre-bloom	Riparian - Gravelbar	Treatment	Aquamaster/Glypro	None	Inject	Cascade	Open	Organic/Clay	Medium	No	555	ft2			7/17/2006	10:57:53am	
CNWCBC	Sasha Sicks	NAD 83 North Plane 4601 Feet	LBR0608	Bohemian	Group		3-6 ft	>200	Pre-bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Cascade	Open	Sand	Medium	No	6075	ft2			7/17/2006	11:30:01am	
CNWCBC	Sasha Sicks	NAD 83 North Plane 4601 Feet	LBR0609	Bohemian	Group		<3 ft	>200	Pre-bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Cascade	Open	Organic/Clay	High	Yes	2700	ft2			7/17/2006	11:42:03am	
CNWCBC	Sasha Sicks	NAD 83 North Plane 4601 Feet	LBR0610	Bohemian	Group		3-6 ft	>200	Pre-bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	DNR	Open	Organic/Clay	Medium	No	16200	ft2			6/28/2006	11:56:02am	
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0602	Bohemian	Group		3-6 ft	51-100	Bloom	Riparian - Gravelbar	Treatment	Aquamaster/Glypro	R-11	Foliar	Cascade	Mostly Open	Organic/Clay	Low	No	40	ft2			7/18/2006	08:31:00am	
CNWCBC	Sasha Sicks	NAD 83 North Plane 4601 Feet	LBR0606	Bohemian	Clump		3-6 ft	>200	Pre-bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	R-11	Foliar	Cascade	Open	Sand	High	Yes	12600	ft2			7/18/2006	10:47:46am	
CNWCBC	Sasha Sicks	NAD 83 North Plane 4601 Feet	LBR0607	Bohemian	Group		<3 ft	>200	Pre-bloom	Riparian - Gravelbar	Treatment	Aquamaster/Glypro	R-11	Foliar	Cascade	Open	Organic/Clay	Medium	No	555	ft2			7/18/2006	10:57:53am	
CNWCBC	Sasha Sicks	NAD 83 North Plane 4601 Feet	LBR0608	Bohemian	Group		3-6 ft	>200	Pre-bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	R-11	Foliar	Cascade	Open	Sand	Medium	No	6075	ft2			7/18/2006	11:30:01am	
CNWCBC	Sasha Sicks	NAD 83 North Plane 4601 Feet	LBR0609	Bohemian	Group		<3 ft	>200	Pre-bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	R-11	Foliar	Cascade	Open	Organic/Clay	High	Yes	2700	ft2			7/18/2006	11:42:03am	
CNWCBC	Sasha Sicks	NAD 83 North Plane 4601 Feet	LBR0610	Bohemian	Group		3-6 ft	>200	Pre-bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	R-11	Foliar	Cascade	Open	Organic/Clay	Medium	No	16200	ft2			7/18/2006	11:56:02am	
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0670	Bohemian	Group		3-6 ft	26-50	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Cascade	Mostly Open	Fines	High	Yes	30	ft2	100% kill inject		7/19/2006	03:42:04pm	
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0721	Bohemian	Group		<3 ft	11-25	Pre-bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	R-11	Foliar	Cascade	Mostly Closed	Organic/Clay	High	Yes	20	ft2	bank no effect		7/19/2006	12:17:27pm	
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0722	Bohemian	Group		3-6 ft	2-5	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Cascade	Mostly Open	Organic/Clay	High	Yes	1	ft2	bank 100%		7/19/2006	12:20:09pm	
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0723	Bohemian	Individual		<3 ft	2-5	Pre-bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	R-11	Foliar	Cascade	Closed	Organic/Clay	Medium	Yes	2	ft2	bank no effect to		7/19/2006	12:23:38pm	
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0724	Bohemian	Group		<3 ft	2-5	Pre-bloom	Riparian - Gravelbar	Treatment	Aquamaster/Glypro	R-11	Foliar	Cascade	Mostly Open	Gravel	High	Yes	3	ft2	log no effect		7/19/2006	12:25:38pm	
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0726	Bohemian	Group		3-6 ft	1	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Cascade	Mostly Open	Organic/Clay	High	Yes	7	ft2	reveg above 100%		7/19/2006	12:30:54pm	
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0727	Bohemian	Group		3-6 ft	6-10	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	R-11	Foliar	Cascade	Mostly Closed	Fines	High	Yes	7	ft2	bank reveg above		7/20/2006	12:32:57pm	
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0733	Bohemian	Group		<3 ft	6-10	Pre-bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	R-11	Foliar	Cascade	Mostly Open	Organic/Clay	High	Yes	5	ft2	some yellowing		7/20/2006	12:46:28pm	
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0742	Bohemian	Group		<3 ft	6-10	Pre-bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	R-11	Foliar	Cascade	Mostly Closed	Organic/Clay	High	Yes	4	ft2	bank 90% new growth		7/24/2006	10:15:44pm	
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0745	Bohemian	Group		3-6 ft	11-25	Pre-bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	R-11	Foliar	Cascade	Closed	Fines	High	Yes	10	ft2	reveg ssn 99% leaf drop ne		7/24/2006	02:07:05pm	
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0665	Bohemian	Group		3-6 ft	6-10	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Cascade	Mostly Open	Organic/Clay	High	Yes	20	ft2	rb 80% leaf drop new growth		7/19/2006	03:22:54pm	
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0672	Bohemian	Group		3-6 ft	51-100	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Cascade	Mostly Open	Organic/Clay	High	Yes	75	ft2	rb planted above 100% inject		7/19/2006	03:47:21pm	
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0674	Bohemian	Group		>6 ft	51-100	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Cascade	Mostly Open	Organic/Clay	High	Yes	20	ft2	rb reveg 100% inj.		7/19/2006	03:53:25pm	
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0675	Bohemian	Group		>6 ft	101-200	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Cascade	Mostly Open	Organic/Clay	High	Yes	100	ft2	woody debris 100% inj.		7/19/2006	03:56:18pm	
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0702	Bohemian	Group		3-6 ft	6-10	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Cascade	Mostly Open	Fines	High	Yes	4	ft2	100% new growth above in la		7/19/2006	01:30:14pm	
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0704	Bohemian	Group		3-6 ft	101-200	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	R-11	Foliar	Cascade	Mostly Open										

AGENCY	COLLECTOR	DATURN	SITE ID	SPECIES	CLUSTER	TV	AVER	STEM C	PHENOLOG	SITE TYPE	ACTION	HERBICIDE	SURFACTANT	TREATMENT	OWNERSHIP	CANOPY	SUBSTRATE	PLNT	ERODE	HIGH	AREA	UNIT	COMMENTS	DATE	YMD	TIME
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0688	Bohemian	Group		<3 ft	6-10	Pre-bloom	Riparian - Gravelbar	Treatment	Habitat	R-11	Foliar	Rayonier	Open	Fines	High	Yes	2	ft2	ln rb 100%	8/10/2006	12:11:35pm		
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0689	Bohemian	Group		3-6 ft	11-25	Pre-bloom	Ripar-Veg Highwater	Treatment	Habitat	R-11	Foliar	Asterwood		Fines	High	Yes	6	ft2	rn 90%	8/10/2006	12:16:26pm		
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0690	Bohemian	Group		3-6 ft	6-10	Bloom	Ripar-Veg Highwater	Treatment	Habitat	R-11	Foliar	Asterwood		Fines	High	Yes	10	ft2	hw rb new growth 6	8/10/2006	12:19:13pm		
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0691	Bohemian	Group		3-6 ft	26-50	Bloom	Ripar-Veg Highwater	Treatment	Habitat	R-11	Foliar	Asterwood	Mostly Closed	Fines	High	Yes	10	ft2	sites across river 3	8/10/2006	12:22:24pm		
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0692	Bohemian	Group		3-6 ft	11-25	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Asterwood	Closed	Fines	High	Yes	30	ft2	100% planted	8/3/2006	12:43:29pm		
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0693	Bohemian	Group		3-6 ft	51-100	Bloom	Ripar-Veg Highwater	Treatment	Habitat	R-11	Foliar	Asterwood	Mostly Open	Fines	High	Yes	40	ft2	95% new growth 30	8/10/2006	12:48:19pm		
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0695	Bohemian	Group		3-6 ft	101-200	Bloom	Ripar-Veg Highwater	Treatment	Habitat	R-11	Foliar	Asterwood	Mostly Closed	Organic/Clay	High	Yes	75	ft2	100% leaf drop 30 new growth	8/10/2006	12:58:18pm		
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0697	Bohemian	Group		3-6 ft	51-100	Bloom	Ripar-Veg Highwater	Treatment	Habitat	R-11	Foliar	Asterwood	Mostly Closed	Organic/Clay	High	Yes	70	ft2	100% planted 8new growth	8/10/2006	01:04:25pm		
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0701	Bohemian	Group		3-6 ft	51-100	Bloom	Ripar-Veg Highwater	Treatment	Habitat	R-11	Foliar	Asterwood	Open	Fines	High	Yes	50	ft2	reveg 100% new growth 6	8/10/2006	01:27:20pm		
CNWCBC	Sasha Sicks	NAD 83 North Plane 4601 Feet	LBR0684	Bohemian	Group		3-6 ft	26-50	Pre-bloom	Ripar-Veg Highwater	Treatment	Habitat	R-11	Foliar	Asterwood		Organic/Clay	Medium	No	30	ft2	forest reveg. ng	8/10/2006	03:19:58pm		
CNWCBC	Sasha Sicks	NAD 83 North Plane 4601 Feet	LBR0684	Bohemian	Group		3-6 ft	26-50	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Asterwood	Mostly Closed	Organic/Clay	High	Yes	20	ft2	hw 100% leaf drop reveg	8/10/2006	12:00:30pm		
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0752	Bohemian	Group		3-6 ft	101-200	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Rayonier	Mostly Open	Organic/Clay	High	Yes	50	ft2	1st point below levins'	7/19/2006	03:13:31pm		
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0753	Bohemian	Group		3-6 ft	101-200	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Asterwood	Mostly Open	Gravel	High	Yes	50	ft2	1st site past levins' bar &	8/10/2006	03:18:17pm		
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0754	Bohemian	Group		3-6 ft	51-100	Bloom	Riparian - Gravelbar	Treatment	Aquamaster/Glypro	R-11	Foliar	Asterwood	Mostly Open	Sand	High	Yes	50	ft2	island	8/10/2006	03:20:53pm		
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0759	Bohemian	Group		3-6 ft	11-25	Bloom	Riparian - Gravelbar	Treatment	Aquamaster/Glypro	None	Inject	Rayonier	Open	Fines	High	Yes	20	ft2	sand bar 100%	7/19/2006	03:32:35pm		
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0756	Bohemian	Group		3-6 ft	101-200	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Asterwood	Mostly Open	Organic/Clay	High	Yes	30	ft2	bank 90% leaf drop new growth	8/3/2006	03:25:32pm		
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0758	Bohemian	Group		3-6 ft	51-100	Bloom	Riparian - Gravelbar	Treatment	Habitat	R-11	Foliar	Asterwood	Open	Sand	High	Yes	40	ft2	bank 75% leaf drop max new	8/10/2006	03:25:52pm		
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0760	Bohemian	Group		3-6 ft	101-200	Bloom	Riparian - Gravelbar	Treatment	Habitat	R-11	Foliar	Asterwood	Mostly Open	Sand	High	Yes	30	ft2	sand bar 99% leaf drop	8/10/2006	03:34:08pm		
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0762	Bohemian	Group		3-6 ft	2-5	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Asterwood	Mostly Closed	Organic/Clay	High	Yes	6	ft2	bank 100%	8/3/2006	03:41:45pm		
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0764	Bohemian	Group		3-6 ft	6-10	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Asterwood	Mostly Closed	Gravel	High	Yes	10	ft2	log & bank 100%	8/3/2006	03:48:43pm		
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0765	Bohemian	Group		3-6 ft	26-50	Bloom	Ripar-Veg Highwater	Treatment	Habitat	R-11	Foliar	Asterwood	Mostly Open	Gravel	High	Yes	15	ft2	bank & log 100% leaf drop	8/10/2006	03:50:23pm		
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0766	Bohemian	Group		3-6 ft	11-25	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Asterwood	Mostly Closed	Organic/Clay	High	Yes	20	ft2	bank reveg 95%	8/3/2006	03:52:39pm		
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0767	Bohemian	Group		3-6 ft	101-200	Bloom	Ripar-Veg Highwater	Treatment	Habitat	R-11	Foliar	Asterwood	Mostly Closed	Organic/Clay	High	Yes	30	ft2	bank reveg above 75%	8/10/2006	03:55:50pm		
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0769	Bohemian	Group		3-6 ft	51-100	Bloom	Ripar-Veg Highwater	Treatment	Habitat	R-11	Foliar	Asterwood	Mostly Open	Organic/Clay	High	Yes	30	ft2	bank reveg above 90%	8/10/2006	04:04:36pm		
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0770	Bohemian	Group		<3 ft	6-10	Pre-bloom	Riparian - Gravelbar	Treatment	Habitat	R-11	Foliar	Asterwood	Open	Sand	High	Yes	4	ft2	sand bar 100%	8/10/2006	04:07:17pm		
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0771	Bohemian	Group		<3 ft	26-50	Pre-bloom	Riparian - Gravelbar	Treatment	Habitat	R-11	Foliar	Asterwood	Open	Gravel	High	Yes	4	ft2	sand bar	8/10/2006	04:09:33pm		
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0773	Bohemian	Group		3-6 ft	6-10	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Asterwood	Open	Sand	High	Yes	12	ft2	sandy bank reveg above	8/3/2006	04:13:52pm		
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0774	Bohemian	Group		3-6 ft	26-50	Bloom	Ripar-Veg Highwater	Treatment	Habitat	R-11	Foliar	Asterwood	Open	Fines	High	Yes	15	ft2	sandy bank reveg above	8/10/2006	04:15:28pm		
CNWCBC	Sasha Sicks	NAD 83 North Plane 4601 Feet	LBR0601	Bohemian	Group		>6 ft	>200	Bloom	Riparian - Gravelbar	Treatment	Aquamaster/Glypro	R-11	Foliar	Asterwood	Mostly Closed	Sand	High	Yes	13500	ft2	spray rt side ds	8/14/2006	10:03:31am		
CNWCBC	Sasha Sicks	NAD 83 North Plane 4601 Feet	LBR0602	Bohemian	Group		3-6 ft	>200	Bloom	Riparian - Gravelbar	Treatment	Habitat	R-11	Foliar	Asterwood	Mostly Closed	Sand	Medium	No	12000	ft2	end spray 10 6.2 gly. 4 hab	8/10/2006	04:00:00pm		
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0601	Bohemian	Group		3-6 ft	11-25	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Asterwood	Mostly Open	Organic/Clay	High	Yes	20	ft2	99% reveg 3	8/3/2006	10:08:36am		
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0605	Bohemian	Group		3-6 ft	26-50	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Asterwood	Mostly Closed	Organic/Clay	High	Yes	40	ft2	100% reveg above	8/3/2006	10:24:16am		
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0606	Bohemian	Group		>6 ft	26-50	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Asterwood	Mostly Open	Fines	High	Yes	20	ft2	75%	8/3/2006	10:34:23am		
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0612	Bohemian	Group		3-6 ft	11-25	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Asterwood	Mostly Open	Fines	High	Yes	40	ft2	99% flag start spray 8/14	8/3/2006	11:13:36am		
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0614	Bohemian	Group		3-6 ft	26-50	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Asterwood	Mostly Open	Fines	High	Yes	50	ft2	98% some missed reveg above	8/3/2006	11:21:08am		
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0616	Bohemian	Group		3-6 ft	101-200	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Asterwood	Mostly Open	Fines	High	Yes	40	ft2	100% new growth 25+	8/14/2006	11:26:09am		
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0619	Bohemian	Group		3-6 ft	26-50	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Asterwood	Mostly Open	Organic/Clay	High	Yes	15	ft2	100%	8/3/2006	11:31:59am		
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0621	Bohemian	Group		3-6 ft	11-25	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Asterwood	Mostly Open	Fines	High	Yes	40	ft2	98%	8/8/2006	11:37:55am		
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0622	Bohemian	Group		3-6 ft	101-200	Bloom	Ripar-Veg Highwater	Treatment	Habitat	R-11	Foliar	Asterwood	Mostly Open	Fines	High	Yes	40	ft2	95% some missed new growth	8/10/2006	11:40:03am		
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0631	Bohemian	Group		3-6 ft	26-50	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Asterwood	Open	Fines	High	Yes	25	ft2	75% missed a lot reveg above	8/8/2006	12:11:17pm		
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0633	Bohemian	Group		3-6 ft	26-50	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Asterwood	Mostly Open	Fines	High	Yes	50	ft2	100%	8/8/2006	12:16:59pm		
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0635	Bohemian	Group		3-6 ft	26-50	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Asterwood	Mostly Open	Organic/Clay	High	Yes	40	ft2	100% new growth 6	8/8/2006	12:21:18pm		
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0637	Bohemian	Group		3-6 ft	26-50	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Asterwood	Mostly Open	Fines	High	Yes	50	ft2	95% missed @ road	8/8/2006	12:25:11pm		
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0639	Bohemian	Group		3-6 ft	26-50	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Asterwood	Open	Fines	High	Yes	50	ft2	75%	8/8/2006	12:30:15pm		
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0641	Bohemian	Group		3-6 ft	26-50	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Asterwood	Open	Fines	High	Yes	40	ft2	100%	8/9/2006	12:35:42pm		
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0643	Bohemian	Group		3-6 ft	26-50	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Asterwood	Open	Fines	Medium	Yes	45	ft2	95% reveg 6	8/9/2006	12:40:51pm		
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0645	Bohemian	Group		3-6 ft	51-100	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Asterwood	Mostly Open	Fines	High	Yes	40	ft2	95% new growth 6 reveg above	8/9/2006	12:46:00pm		
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0647	Bohemian	Group		3-6 ft	11-25	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Asterwood	Open	Fines	High	Yes	30	ft2	20% missed	8/9/2006	12:50:52pm		
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0649	Bohemian	Group		3-6 ft	11-25	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Asterwood	Mostly Closed	Organic/Clay	High	Yes	10	ft2	97% reveg 4	8/9/2006	12:54:37pm		
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0651	Bohemian	Group		3-6 ft	51-100	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Asterwood</											

AGENCY	COLLECTOR	DATE	TURN	SITE ID	SPECIES	CLUSTER	TV	AVER	STEM	PHENOLOG	SITE TYPE	ACTION	HERBICIDE	SURFACTANT	TREATMENT	OWNERSHIP	CANOPY	SUBSTRATE	PLNT	ERODE	HIGH	AREA	UNIT	COMMENTS	DATE	YMD	TIME
CCNWCBC	Carol Cross	NAD	83 North Plane 4601 Feet	LBR0632	Bohemian	Group		3-6 ft	101-200	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Merrill & Ring	Open	Fines	High	Yes	30	ft2		75% missed a lot reveg above	8/17/2006	12:13:21pm	
CCNWCBC	Carol Cross	NAD	83 North Plane 4601 Feet	LBR0634	Bohemian	Group		3-6 ft	101-200	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Merrill & Ring	Mostly Open	Fines	High	Yes	40	ft2		98% new growth 8 reveg above	8/17/2006	12:18:27pm	
CCNWCBC	Carol Cross	NAD	83 North Plane 4601 Feet	LBR0636	Bohemian	Group		3-6 ft	101-200	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Defrang	Mostly Open	Organic/Clay	High	Yes	40	ft2		100% new growth 3	8/15/2006	12:23:13pm	
CCNWCBC	Carol Cross	NAD	83 North Plane 4601 Feet	LBR0642	Bohemian	Group		3-6 ft	101-200	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Jaffarian	Mostly Open	Fines	High	Yes	40	ft2		75% reveg above 10	9/5/2006	12:37:32pm	
CCNWCBC	Carol Cross	NAD	83 North Plane 4601 Feet	LBR0644	Bohemian	Group		3-6 ft	101-200	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Jaffarian	Open	Fines	High	Yes	45	ft2		60% reveg above	9/5/2006	12:43:04pm	
CCNWCBC	Carol Cross	NAD	83 North Plane 4601 Feet	LBR0646	Bohemian	Group		3-6 ft	101-200	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Jaffarian	Open	Fines	High	Yes	40	ft2		95% reveg above	9/5/2006	12:48:52pm	
CCNWCBC	Carol Cross	NAD	83 North Plane 4601 Feet	LBR0648	Bohemian	Group		3-6 ft	101-200	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Inject	Jaffarian	Open	Fines	High	Yes	30	ft2		95% reveg above	9/5/2006	12:52:24pm	
CCNWCBC	Carol Cross	NAD	83 North Plane 4601 Feet	LBR0650	Bohemian	Group		3-6 ft	11-25	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Jaffarian	Mostly Open	Organic/Clay	High	Yes	10	ft2		98%	9/5/2006	12:56:26pm	
CCNWCBC	Carol Cross	NAD	83 North Plane 4601 Feet	LBR0652	Bohemian	Group		3-6 ft	101-200	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Inject	Jaffarian	Mostly Open	Organic/Clay	High	Yes	50	ft2		99% good reveg site new gro	9/5/2006	01:00:52pm	
CCNWCBC	Carol Cross	NAD	83 North Plane 4601 Feet	LBR0654	Bohemian	Group		3-6 ft	11-25	Bloom	Riparian - Gravelbar	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Jaffarian	Open	Gravel	High	Yes	6	ft2		99%	9/5/2006	01:04:27pm	
CCNWCBC	Carol Cross	NAD	83 North Plane 4601 Feet	LBR0656	Bohemian	Group		3-6 ft	101-200	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Inject	Jaffarian	Open	Organic/Clay	High	Yes	30	ft2		98%	9/5/2006	01:08:03pm	
CCNWCBC	Carol Cross	NAD	83 North Plane 4601 Feet	LBR0659	Bohemian	Group		3-6 ft	26-50	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Jaffarian	Mostly Closed	Organic/Clay	High	Yes	12	ft2		100%	9/5/2006	01:14:44pm	
CCNWCBC	Carol Cross	NAD	83 North Plane 4601 Feet	LBR0661	Bohemian	Group		3-6 ft	11-25	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Jaffarian	Mostly Closed	Organic/Clay	High	Yes	10	ft2		50% missed	9/5/2006	01:18:22pm	
CCNWCBC	Carol Cross	NAD	83 North Plane 4601 Feet	LBR0663	Bohemian	Group		3-6 ft	11-25	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Jaffarian	Closed	Organic/Clay	High	Yes	10	ft2		50% missed	9/5/2006	01:29:55pm	
CCNWCBC	Carol Cross	NAD	83 North Plane 4601 Feet	LBR0666	Bohemian	Group		3-6 ft	26-50	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Jaffarian	Mostly Closed	Fines	High	Yes	25	ft2		100% reveg site	9/5/2006	01:58:04pm	
CCNWCBC	Carol Cross	NAD	83 North Plane 4601 Feet	LBR0669	Bohemian	Group		3-6 ft	11-25	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Jaffarian	Mostly Closed	Organic/Clay	High	Yes	20	ft2		100% new growth 3 reveg above	9/5/2006	02:14:34pm	
CCNWCBC	Sasha Sicks	NAD	83 North Plane 4601 Feet	LBR0638	Bohemian	Group		3-6 ft	1-200	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Inject	Jaffarian	Mostly Open	Fines	High	Yes	50	ft2		50% missed @ road	9/5/2006	12:27:40pm	
CCNWCBC	Sasha Sicks	NAD	83 North Plane 4601 Feet	LBR0640	Bohemian	Group		3-6 ft	101-200	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Inject	Jaffarian	Open	Fines	High	Yes	50	ft2		75% reveg above @ road	9/5/2006	12:32:33pm	
CCNWCBC	Carol Cross	NAD	83 North Plane 4601 Feet	LBR0670	Bohemian	Group		3-6 ft	11-25	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Jaffarian	Mostly Open	Organic/Clay	High	Yes	30	ft2		98% reveg above	8/31/2006	02:53:41pm	
CCNWCBC	Carol Cross	NAD	83 North Plane 4601 Feet	LBR0672	Bohemian	Group		3-6 ft	11-25	Bloom	Riparian - Gravelbar	Treatment	Aquamaster/Glypro	None	Inject	Jaffarian	Open	Organic/Clay	High	No	40	ft2		95% reveg above new growth	8/31/2006	02:57:45pm	
CCNWCBC	Carol Cross	NAD	83 North Plane 4601 Feet	LBR0674	Bohemian	Group		3-6 ft	26-50	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Jaffarian	Open	Organic/Clay	High	Yes	40	ft2		95%	8/31/2006	03:03:05pm	
CCNWCBC	Carol Cross	NAD	83 North Plane 4601 Feet	LBR0676	Bohemian	Group		3-6 ft	11-25	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Jaffarian	Mostly Open	Organic/Clay	High	Yes	30	ft2		99% reveg above	8/31/2006	03:17:02pm	
CCNWCBC	Carol Cross	NAD	83 North Plane 4601 Feet	LBR0678	Bohemian	Group		3-6 ft	26-50	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Jaffarian	Open	Organic/Clay	High	Yes	25	ft2		97% reveg site	8/31/2006	03:22:51pm	
CCNWCBC	Carol Cross	NAD	83 North Plane 4601 Feet	LBR0680	Bohemian	Group		3-6 ft	26-50	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Jaffarian	Open	Organic/Clay	High	Yes	50	ft2		99% new growth 3 reveg above	8/31/2006	03:27:35pm	
CCNWCBC	Carol Cross	NAD	83 North Plane 4601 Feet	LBR0682	Bohemian	Group		3-6 ft	6-10	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Jaffarian	Open	Fines	High	Yes	40	ft2		80% missed bank plants	8/31/2006	03:34:09pm	
CCNWCBC	Carol Cross	NAD	83 North Plane 4601 Feet	LBR0776	Bohemian	Group		3-6 ft	6-10	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Jaffarian	Mostly Closed	Sand	High	Yes	25	ft2		98% new growth 10	8/31/2006	10:19:18am	
CCNWCBC	Carol Cross	NAD	83 North Plane 4601 Feet	LBR0778	Bohemian	Group		3-6 ft	2-5	Bloom	Large Woody Debris	Treatment	Aquamaster/Glypro	None	Inject	Jaffarian	Mostly Open	Vegetated or LWD	High	Yes	10	ft2		99%	8/31/2006	10:26:29am	
CCNWCBC	Carol Cross	NAD	83 North Plane 4601 Feet	LBR0780	Bohemian	Group		3-6 ft	2-5	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Jaffarian	Mostly Open	Fines	High	Yes	10	ft2		100%	8/31/2006	10:35:03am	
CCNWCBC	Carol Cross	NAD	83 North Plane 4601 Feet	LBR0782	Bohemian	Group		3-6 ft	11-25	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Jaffarian	Mostly Closed	Organic/Clay	High	Yes	3	ft2		100%	8/31/2006	10:41:35am	
CCNWCBC	Carol Cross	NAD	83 North Plane 4601 Feet	LBR0785	Bohemian	Group		3-6 ft	11-25	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Jaffarian	Open	Organic/Clay	High	Yes	15	ft2		99%	8/31/2006	10:55:17am	
CCNWCBC	Carol Cross	NAD	83 North Plane 4601 Feet	LBR0788	Bohemian	Group		3-6 ft	2-5	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Jaffarian	Mostly Open	Organic/Clay	High	Yes	4	ft2		99%	8/31/2006	11:11:32am	
CCNWCBC	Carol Cross	NAD	83 North Plane 4601 Feet	LBR0790	Bohemian	Group		3-6 ft	26-50	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Jaffarian	Open	Organic/Clay	High	Yes	50	ft2		95% @ sb bridge reveg above	8/31/2006	12:20:30pm	
CCNWCBC	Carol Cross	NAD	83 North Plane 4601 Feet	LBR0794	Bohemian	Group		3-6 ft	11-25	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Jaffarian	Mostly Open	Sand	High	Yes	40	ft2		75%	8/31/2006	12:31:47pm	
CCNWCBC	Carol Cross	NAD	83 North Plane 4601 Feet	LBR0799	Bohemian	Group		3-6 ft	51-100	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Jaffarian	Mostly Open	Organic/Clay	High	Yes	60	ft2		100% new growth+	8/31/2006	12:44:36pm	
CCNWCBC	Carol Cross	NAD	83 North Plane 4601 Feet	LBR0802	Bohemian	Group		3-6 ft	26-50	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Jaffarian	Open	Organic/Clay	High	Yes	50	ft2		100%	8/31/2006	12:51:02pm	
CCNWCBC	Carol Cross	NAD	83 North Plane 4601 Feet	LBR0804	Bohemian	Group		3-6 ft	11-25	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Jaffarian	Open	Sand	High	Yes	50	ft2		100%	8/31/2006	12:54:50pm	
CCNWCBC	Carol Cross	NAD	83 North Plane 4601 Feet	LBR0806	Bohemian	Group		3-6 ft	26-50	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Jaffarian	Open	Sand	High	Yes	50	ft2		100%	8/31/2006	01:00:55pm	
CCNWCBC	Carol Cross	NAD	83 North Plane 4601 Feet	LBR0808	Bohemian	Group		3-6 ft	51-100	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Jaffarian	Open	Sand	High	Yes	50	ft2		99%	8/31/2006	01:05:10pm	
CCNWCBC	Carol Cross	NAD	83 North Plane 4601 Feet	LBR0820	Bohemian	Group		3-6 ft	51-100	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Jaffarian	Open	Fines	High	Yes	50	ft2		98%	8/31/2006	01:33:57pm	
CCNWCBC	Carol Cross	NAD	83 North Plane 4601 Feet	LBR0822	Bohemian	Group		3-6 ft	26-50	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Jaffarian	Mostly Closed	Organic/Clay	High	Yes	30	ft2		100%	8/31/2006	01:37:44pm	
CCNWCBC	Carol Cross	NAD	83 North Plane 4601 Feet	LBR0824	Bohemian	Group		3-6 ft	26-50	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Jaffarian	Open	Fines	High	Yes	50	ft2		95%	8/31/2006	01:41:41pm	
CCNWCBC	Carol Cross	NAD	83 North Plane 4601 Feet	LBR0826	Bohemian	Group		3-6 ft	26-50	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Jaffarian	Open	Organic/Clay	High	Yes	50	ft2		99%	8/31/2006	01:45:42pm	
CCNWCBC	Carol Cross	NAD	83 North Plane 4601 Feet	LBR0828	Bohemian	Group		3-6 ft	11-25	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Jaffarian	Open	Fines	High	Yes	30	ft2		95%	8/31/2006	01:56:12pm	
CCNWCBC	Carol Cross	NAD	83 North Plane 4601 Feet	LBR0831	Bohemian	Group		3-6 ft	2-5	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Jaffarian	Mostly Closed	Fines	High	Yes	30	ft2		100%	8/31/2006	02:08:17pm	
CCNWCBC	Carol Cross	NAD	83 North Plane 4601 Feet	LBR0833	Bohemian	Group		<3 ft	2-5	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Jaffarian	Mostly Closed	Fines	High	Yes	15	ft2		100%	8/31/2006	02:21:35pm	
CCNWCBC	Carol Cross	NAD	83 North Plane 4601 Feet	LBR0835	Bohemian	Group		3-6 ft	2-5	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Jaffarian	Mostly Closed	Fines	High	Yes	12	ft2		100%	8/31/2006	02:27:26pm	
CCNWCBC	Carol Cross	NAD	83 North Plane 4601 Feet	LBR0840	Bohemian	Group		3-6 ft	6-10	Pre-bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Jaffarian	Mostly Open	Fines	High	Yes	15	ft2		100%	8/31/2006	02:41:43pm	
CCNWCBC	Carol Cross	NAD	83 North Plane 4601 Feet	LBR0842	Bohemian	Group		3-6 ft	2-5	Pre-bloom	Ripar-Veg Highwater	Treatment	Aquamaster														

AGENCY	COLLECTOR	DATURN	SITE ID	SPECIES	CLUSTER	TV	AVER	STEM C	PHENOLOG	SITE TYPE	ACTION	HERBICIDE	SURFACTANT	TREATMENT	OWNERSHIP	CANOPY	SUBSTRATE	PLNT	ERODE	HIGH	AREA	UNIT	COMMENTS	DATE	YMD	TIME
CCNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0801	Bohemian	Group		3-6 ft	11-25	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Defrang	Mostly Closed	Organic/Clay	High	Yes	15	ft2	90%		8/24/2006	12:48:17pm	
CCNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0803	Bohemian	Group		3-6 ft	>200	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Defrang	Open	Organic/Clay	High	Yes	50	ft2	98% reveg above	8/24/2006	12:52:39pm		
CCNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0805	Bohemian	Group		3-6 ft	26-50	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Defrang	Open	Sand	High	Yes	50	ft2	bank sb access 99%	8/24/2006	01:17:49pm		
CCNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0807	Bohemian	Group		3-6 ft	>200	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Defrang	Open	Sand	High	Yes	50	ft2	98% reveg large area above	8/24/2006	01:02:33pm		
CCNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0809	Bohemian	Group		3-6 ft	>200	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Defrang	Open	Sand	High	Yes	50	ft2	90% new growth +	8/24/2006	01:06:36pm		
CCNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0810	Bohemian	Group		3-6 ft	51-100	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Defrang	Open	Sand	High	Yes	30	ft2	99%	8/24/2006	01:08:23pm		
CCNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0811	Bohemian	Group		3-6 ft	6-10	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Defrang	Open	Sand	High	Yes	5	ft2	100%	8/24/2006	01:10:28pm		
CCNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0812	Bohemian	Group		3-6 ft	6-10	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Merrill & Ring	Open	Organic/Clay	High	Yes	10	ft2	100% new growth-	8/17/2006	01:11:54pm		
CCNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0813	Bohemian	Group		<3 ft	6-10	Pre-bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Merrill & Ring	Open	Organic/Clay	High	Yes	10	ft2	98% missed several	8/21/2006	01:14:19pm		
CCNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0815	Bohemian	Group		<3 ft	6-10	Pre-bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Merrill & Ring	Mostly Closed	Organic/Clay	High	Yes	10	ft2	100% new growth++	8/21/2006	01:21:34pm		
CCNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0816	Bohemian	Group		3-6 ft	11-25	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Merrill & Ring	Closed	Fines	High	Yes	15	ft2	99%	8/21/2006	01:23:31pm		
CCNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0817	Bohemian	Group		3-6 ft	11-25	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Merrill & Ring	Mostly Closed	Fines	High	Yes	30	ft2	100%	8/22/2006	01:25:27pm		
CCNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0818	Bohemian	Group		3-6 ft	101-200	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Merrill & Ring	Mostly Closed	Fines	High	Yes	30	ft2	99% reveg site above +	8/17/2006	01:27:00pm		
CCNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0819	Bohemian	Group		3-6 ft	11-25	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Merrill & Ring	Closed	Fines	High	Yes	10	ft2	100% new growth+	8/21/2006	01:31:45pm		
CCNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0821	Bohemian	Group		3-6 ft	<200	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Merrill & Ring	Open	Fines	High	Yes	50	ft2	98% good reveg site	8/21/2006	01:35:43pm		
CCNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0823	Bohemian	Group		3-6 ft	26-50	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Merrill & Ring	Mostly Closed	Organic/Clay	High	Yes	50	ft2	80% new growth+	8/21/2006	01:39:15pm		
CCNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0825	Bohemian	Group		3-6 ft	<200	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Merrill & Ring	Open	Fines	High	Yes	50	ft2	80% new growth+ end good re	8/21/2006	01:43:22pm		
CCNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0827	Bohemian	Group		3-6 ft	<200	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Merrill & Ring	Open	Fines	High	Yes	50	ft2	98% new growth +	8/17/2006	01:49:20pm		
CCNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0829	Bohemian	Group		3-6 ft	51-100	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Merrill & Ring	Open	Fines	High	Yes	40	ft2	90% new growth+	8/22/2006	02:00:27pm		
CCNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0830	Bohemian	Group		3-6 ft	6-10	Pre-bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Merrill & Ring	Mostly Closed	Fines	High	Yes	20	ft2	99% elk in woods above me	8/22/2006	02:03:14pm		
CCNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0832	Bohemian	Group		3-6 ft	51-100	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Merrill & Ring	Mostly Closed	Sand	High	Yes	40	ft2	98% new growth +	8/22/2006	02:11:01pm		
CCNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0834	Bohemian	Group		3-6 ft	11-25	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Merrill & Ring	Mostly Closed	Fines	High	Yes	40	ft2	99%	8/22/2006	02:25:33pm		
CCNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0836	Bohemian	Group		3-6 ft	6-10	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Merrill & Ring	Mostly Closed	Fines	High	Yes	15	ft2	99%	8/22/2006	02:29:10pm		
CCNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0838	Bohemian	Group		3-6 ft	11-25	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Merrill & Ring	Mostly Closed	Fines	High	Yes	20	ft2	98% new growth-	7/5/2006	02:34:23pm		
CCNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0839	Bohemian	Group		3-6 ft	6-10	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Jaffarian	Mostly Open	Fines	High	Yes	10	ft2	90%	7/5/2006	02:39:32pm		
CCNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0841	Bohemian	Group		3-6 ft	26-50	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Jaffarian	Mostly Open	Fines	Medium	Yes	20	ft2	99%	7/5/2006	02:42:58pm		
CCNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0845	Bohemian	Group		3-6 ft	11-25	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Jaffarian	Mostly Closed	Fines	High	Yes	20	ft2	99%	7/5/2006	02:50:31pm		
CCNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0846	Bohemian	Group		3-6 ft	11-25	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Jaffarian	Open	Organic/Clay	High	Yes	20	ft2	98%	7/5/2006	02:52:14pm		
CCNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0850	Bohemian	Group		3-6 ft	11-25	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Jaffarian	Mostly Open	Organic/Clay	High	Yes	25	ft2	99% new growth -	7/5/2006	02:59:04pm		
CCNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0851	Bohemian	Group		3-6 ft	6-10	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Jaffarian	Open	Sand	High	Yes	10	ft2	99%	7/5/2006	03:17:41pm		
CCNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0852	Bohemian	Group		3-6 ft	6-10	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Jaffarian	Open	Sand	High	Yes	10	ft2	%	7/5/2006	03:20:32pm		
CCNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0857	Bohemian	Individual		3-6 ft	26-50	Bloom	Field/Pasture	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Jaffarian	Mostly Open	Organic/Clay	Low	No	40	ft2	100% new growth +	7/5/2006	04:06:38am		
CCNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0754	Bohemian	Group		<3 ft	2-5	Pre-bloom	Field/Pasture	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Jaffarian	Open	Organic/Clay	Medium	No	6	ft2		7/5/2006	04:08:07pm		
CCNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0755	Bohemian	Group		3-6 ft	26-50	Bloom	Field/Pasture	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Jaffarian	Mostly Open	Fines	Medium	No	30	ft2	99%	7/5/2006	04:12:03pm		
CCNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0756	Bohemian	Group		3-6 ft	51-100	Bloom	Field/Pasture	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Jaffarian	Open	Fines	High	Yes	50	ft2	retreat	9/5/2006	04:14:13pm		
CCNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0757	Bohemian	Group		>6 ft	101-200	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Jaffarian	Open	Gravel	High	Yes	75	ft2	retreat	9/5/2006	04:18:04pm		
CCNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0758	Bohemian	Group		3-6 ft	11-25	Bloom	Field/Pasture	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Jaffarian	Mostly Open	Fines	High	Yes	20	ft2	retreat	9/5/2006	04:22:45pm		
CCNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0759	Bohemian	Group		3-6 ft	51-100	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Jaffarian	Open	Sand	High	Yes	30	ft2	retreat	9/5/2006	04:25:17pm		
CCNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0760	Bohemian	Group		3-6 ft	26-50	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Jaffarian	Open	Gravel	High	Yes	50	ft2	retreat	9/5/2006	04:27:16pm		
CCNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0761	Bohemian	Group		3-6 ft	101-200	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Jaffarian	Open	Gravel	High	Yes	50	ft2	retreat	9/5/2006	04:29:04pm		
CCNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0762	Bohemian	Group		3-6 ft	101-200	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Jaffarian	Open	Fines	High	Yes	50	ft2	retreat	9/5/2006	04:31:17pm		
CCNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0763	Bohemian	Group		3-6 ft	101-200	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Jaffarian	Open	Sand	Medium	Yes	50	ft2	retreat	9/5/2006	04:34:55pm		
CCNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0764	Bohemian	Group		3-6 ft	101-200	Bloom	Riparian - Gravelbar	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Jaffarian	Open	Sand	High	Yes	50	ft2	retreat	9/5/2006	04:36:29pm		
CCNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0765	Bohemian	Group		3-6 ft	51-100	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Jaffarian	Open	Gravel	High	Yes	40	ft2	retreat	9/5/2006	04:38:07pm		
CCNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0766	Bohemian	Group		3-6 ft	26-50	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Jaffarian	Open	Gravel	High	Yes	30	ft2	retreat	9/5/2006	04:39:57pm		
CCNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0767	Bohemian	Group		3-6 ft	26-50	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Jaffarian	Open	Sand	High	Yes	10	ft2	retreat	9/5/2006	04:41:46pm		
CCNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0768	Bohemian	Group		3-6 ft	101-200	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Jaffarian	Open	Fines	High	Yes	50	ft2	retreat	9/5/2006	04:43:20pm		
CCNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0769	Bohemian	Group		3-6 ft	26-50	Bloom	Riparian - Gravelbar	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Jaffarian	Open	Gravel	High	Yes	25	ft2	retreat	9/5/2006	04:45:29pm		
CCNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0770	Bohemian	Group		3-6 ft	101-200	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Jaffarian	Open	Organic/Clay	High	Yes	30	ft2	retreat	9/5/2006	04:50:12pm		
CCNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0771	Bohemian																						

AGENCY	COLLECTOR	DATE	TURN	SITE ID	SPECIES	CLUSTER	TY	AVER	STEM C	PHENOLOG	SITE TYPE	ACTION	HERBICIDE	SURFACTANT	TREATMENT	OWNERSHIP	CANOPY	SUBSTRATE	PLNT	ERODE	HIGH	AREA	UNIT	COMMENTS	DATE	YMD	TIME
CNWCBC	Carol Cross	NAD	83 North Plane 4601 Feet	LBR0645	Bohemian	Individual		<3 ft	6-10	Pre-bloom	Riparian - Gravelbar	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Merrill & Ring	Mostly Open	Gravel	High	Yes	1	ft2		in river on log yellowing	9/5/2006	12:54:45pm	
CNWCBC	Carol Cross	NAD	83 North Plane 4601 Feet	LBR0651	Bohemian	Group		3-6 ft	11-25	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Merrill & Ring	Mostly Open	Organic/Clay	High	Yes	20	ft2	rb		9/5/2006	01:11:05pm	
CNWCBC	Carol Cross	NAD	83 North Plane 4601 Feet	LBR0652	Bohemian	Group		3-6 ft	11-25	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Jaffarian	Mostly Open	Fines	High	Yes	6	ft2	rb	98% leaf drop	7/6/2006	02:20:51pm	
CNWCBC	Carol Cross	NAD	83 North Plane 4601 Feet	LBR0654	Bohemian	Group		3-6 ft	51-100	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Jaffarian	Mostly Open	Fines	High	Yes	40	ft2			7/6/2006	02:26:41pm	
CNWCBC	Carol Cross	NAD	83 North Plane 4601 Feet	LBR0655	Bohemian	Group		3-6 ft	101-200	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Jaffarian	Mostly Open	Fines	High	Yes	60	ft2	rb	90% leaf drop 10 ng	8/31/2006	02:28:55pm	
CNWCBC	Carol Cross	NAD	83 North Plane 4601 Feet	LBR0656	Bohemian	Group		3-6 ft	6-10	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Rayonier	Mostly Open	Organic/Clay	High	Yes	10	ft2		100% leaf drop	7/19/2006	02:32:53pm	
CNWCBC	Carol Cross	NAD	83 North Plane 4601 Feet	LBR0657	Bohemian	Group		3-6 ft	11-25	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Defrang	Mostly Open	Organic/Clay	High	Yes	30	ft2	rb	99% leaf drop	8/31/2006	02:34:41pm	
CNWCBC	Carol Cross	NAD	83 North Plane 4601 Feet	LBR0658	Bohemian	Group		<3 ft	26-50	Pre-bloom	Riparian - Gravelbar	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Defrang	Mostly Open	Fines	High	Yes	8	ft2	r	100% leaf drop	8/31/2006	02:37:03pm	
CNWCBC	Carol Cross	NAD	83 North Plane 4601 Feet	LBR0659	Bohemian	Group		3-6 ft	11-25	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Defrang	Mostly Open	Organic/Clay	High	Yes	40	ft2	rb	planted above 15new grow	8/30/2006	02:39:18pm	
CNWCBC	Carol Cross	NAD	83 North Plane 4601 Feet	LBR0660	Bohemian	Group		3-6 ft	101-200	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Defrang	Mostly Open	Organic/Clay	High	Yes	100	ft2	rb	planted above 75% leaf d	8/31/2006	02:43:02pm	
CNWCBC	Carol Cross	NAD	83 North Plane 4601 Feet	LBR0661	Bohemian	Group		3-6 ft	26-50	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Asterwood	Mostly Open	Organic/Clay	High	Yes	20	ft2	rb	95% leaf drop	8/3/2006	02:50:22pm	
CNWCBC	Carol Cross	NAD	83 North Plane 4601 Feet	LBR0662	Bohemian	Group		3-6 ft	51-100	Pre-bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Defrang	Mostly Open	Fines	High	Yes	75	ft2	rb	planted above 97% leaf d	7/13/2006	02:53:37pm	
CNWCBC	Carol Cross	NAD	83 North Plane 4601 Feet	LBR0623	Bohemian	Group		3-6 ft	26-50	Pre-bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Defrang	Mostly Open	Sand	High	Yes	20	ft2		new growth in sprayed area	7/13/2006	11:04:29am	
CNWCBC	Sasha Sicks	NAD	83 North Plane 4601 Feet	LBR0601	Bohemian	Individual		<3 ft	2-5	Bloom	Riparian - Gravelbar	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Defrang	Open	Sand	Medium	No	1	ft2		start point 8-31	7/13/2006	08:37:07am	
CNWCBC	Sasha Sicks	NAD	83 North Plane 4601 Feet	LBR0602	Bohemian	Clump		<3 ft	26-50	Bloom	Riparian - Gravelbar	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Defrang	Mostly Open	Sand	Medium	Yes	100	ft2		stress cut fallen on knotwee	8/31/2006	08:48:11am	
CNWCBC	Sasha Sicks	NAD	83 North Plane 4601 Feet	LBR0604	Bohemian	Group		3-6 ft	51-100	Bloom	Riparian - Gravelbar	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Defrang	Open	Sand	Medium	Yes	600	ft2		retreat	8/31/2006	08:55:31am	
CNWCBC	Carol Cross	NAD	83 North Plane 4601 Feet	LBR0689	Bohemian	Group		3-6 ft	11-25	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Defrang	Mostly Open	Sand	Medium	Yes	800	ft2		retreat	8/31/2006	09:20:44am	
CNWCBC	Carol Cross	NAD	83 North Plane 4601 Feet	LBR0689	Bohemian	Group		3-6 ft	11-25	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Defrang	Open	Organic/Clay	Medium	No	40	ft2			8/30/2006	11:03:04am	
CNWCBC	Carol Cross	NAD	83 North Plane 4601 Feet	LBR0696	Bohemian	Group		3-6 ft	11-25	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Defrang	Open	Organic/Clay	Medium	No	10	ft2		100%	8/30/2006	11:32:09am	
CNWCBC	Carol Cross	NAD	83 North Plane 4601 Feet	LBR0698	Bohemian	Group		3-6 ft	26-50	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Cascade	Open	Fines	High	Yes	50	ft2		95%	7/17/2006	11:56:25am	
CNWCBC	Carol Cross	NAD	83 North Plane 4601 Feet	LBR0700	Bohemian	Group		3-6 ft	26-50	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Cascade	Open	Sand	High	Yes	40	ft2		75% new growth+	7/19/2006	12:00:11pm	
CNWCBC	Carol Cross	NAD	83 North Plane 4601 Feet	LBR0702	Bohemian	Group		3-6 ft	11-25	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Cascade	Open	Sand	High	Yes	40	ft2		reveg 75%	7/19/2006	12:03:36pm	
CNWCBC	Carol Cross	NAD	83 North Plane 4601 Feet	LBR0704	Bohemian	Group		3-6 ft	11-25	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Cascade	Open	Sand	High	Yes	30	ft2		98%	7/19/2006	12:07:31pm	
CNWCBC	Carol Cross	NAD	83 North Plane 4601 Feet	LBR0706	Bohemian	Group		3-6 ft	6-10	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Rayonier	Mostly Open	Sand	High	Yes	25	ft2		97%	7/19/2006	12:10:40pm	
CNWCBC	Carol Cross	NAD	83 North Plane 4601 Feet	LBR0707	Bohemian	Group		3-6 ft	11-25	Pre-bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	R-11	Foliar	Cascade	Mostly Open	Sand	High	Yes	30	ft2		98% new growth-	9/15/2006	01:16:39pm	
CNWCBC	Carol Cross	NAD	83 North Plane 4601 Feet	LBR0709	Bohemian	Group		3-6 ft	2-5	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Rayonier	Mostly Closed	Sand	High	Yes	30	ft2		99%	8/2/2006	12:17:05pm	
CNWCBC	Carol Cross	NAD	83 North Plane 4601 Feet	LBR0712	Bohemian	Group		3-6 ft	6-10	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Asterwood	Open	Sand	High	Yes	30	ft2		78% new growth	8/3/2006	12:25:03pm	
CNWCBC	Carol Cross	NAD	83 North Plane 4601 Feet	LBR0718	Bohemian	Group		3-6 ft	2-5	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Asterwood	Open	Sand	High	Yes	15	ft2		98%	8/3/2006	12:38:59pm	
CNWCBC	Carol Cross	NAD	83 North Plane 4601 Feet	LBR0721	Bohemian	Group		3-6 ft	26-50	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Asterwood	Open	Sand	High	Yes	50	ft2		99% reveg above	8/3/2006	12:51:49pm	
CNWCBC	Carol Cross	NAD	83 North Plane 4601 Feet	LBR0723	Bohemian	Group		3-6 ft	6-10	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Asterwood	Open	Sand	High	Yes	50	ft2		99% reveg?	8/3/2006	12:55:01pm	
CNWCBC	Carol Cross	NAD	83 North Plane 4601 Feet	LBR0726	Bohemian	Group		3-6 ft	26-50	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Asterwood	Open	Sand	High	Yes	50	ft2		98% new growth-	8/9/2006	01:03:10pm	
CNWCBC	Carol Cross	NAD	83 North Plane 4601 Feet	LBR0728	Bohemian	Group		3-6 ft	26-50	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Defrang	Open	Sand	High	Yes	40	ft2		95% new growth+	8/30/2006	01:14:38pm	
CNWCBC	Carol Cross	NAD	83 North Plane 4601 Feet	LBR0730	Bohemian	Group		3-6 ft	51-100	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Defrang	Open	Sand	High	Yes	50	ft2		98% new growth-	8/30/2006	01:17:49pm	
CNWCBC	Carol Cross	NAD	83 North Plane 4601 Feet	LBR0733	Bohemian	Group		3-6 ft	26-50	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Defrang	Open	Fines	High	Yes	50	ft2		80% new growth+	8/30/2006	01:22:41pm	
CNWCBC	Carol Cross	NAD	83 North Plane 4601 Feet	LBR0735	Bohemian	Group		3-6 ft	11-25	Bloom	Large Woody Debris	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Defrang	Open	Vegetated or LWD	High	Yes	12	ft2			8/30/2006	01:29:01pm	
CNWCBC	Carol Cross	NAD	83 North Plane 4601 Feet	LBR0745	Bohemian	Group		3-6 ft	6-10	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Defrang	Mostly Closed	Organic/Clay	Low	No	30	ft2		99%	8/30/2006	02:18:34pm	
CNWCBC	Carol Cross	NAD	83 North Plane 4601 Feet	LBR0747	Bohemian	Group		3-6 ft	6-10	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Inject + Foliar	Clallam Count	Open	Gravel	Medium	No	87120	ft2		Spryd cns.plants in creek	8/29/2006	02:22:16pm	
CNWCBC	Carol Cross	NAD	83 North Plane 4601 Feet	LBR0688	Bohemian	Group		3-6 ft	11-25	Post-Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	DNR	Open	Fines	High	Yes	8	ft2			9/13/2006	11:00:01am	
CNWCBC	Carol Cross	NAD	83 North Plane 4601 Feet	LBR0690	Bohemian	Group		3-6 ft	101-200	Post-Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	DNR	Open	Organic/Clay	Medium	No	40	ft2			9/13/2006	11:06:53am	
CNWCBC	Carol Cross	NAD	83 North Plane 4601 Feet	LBR0692	Bohemian	Group		<3 ft	6-10	Post-Bloom	Ripar-Floodplain	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	DNR	Open	Vegetated or LWD	High	Yes	30	ft2			9/13/2006	11:16:54am	
CNWCBC	Carol Cross	NAD	83 North Plane 4601 Feet	LBR0693	Bohemian	Group		3-6 ft	6-10	Post-Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	DNR	Open	Organic/Clay	Medium	No	20	ft2			9/13/2006	11:22:03am	
CNWCBC	Carol Cross	NAD	83 North Plane 4601 Feet	LBR0694	Bohemian	Group		3-6 ft	51-100	Post-Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	DNR	Open	Sand	Medium	No	50	ft2		99% reveg	9/13/2006	11:25:29am	
CNWCBC	Carol Cross	NAD	83 North Plane 4601 Feet	LBR0695	Bohemian	Group		3-6 ft	11-25	Post-Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	DNR	Mostly Open	Sand	High	Yes	12	ft2		98%	9/13/2006	11:27:42am	
CNWCBC	Carol Cross	NAD	83 North Plane 4601 Feet	LBR0697	Bohemian	Group		<3 ft	26-50	Post-Bloom	Large Woody Debris	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	DNR	Open	Vegetated or LWD	High	Yes	40	ft2		massive log jam up r side	9/13/2006	11:51:23am	
CNWCBC	Carol Cross	NAD	83 North Plane 4601 Feet	LBR0699	Bohemian	Group		3-6 ft	101-200	Post-Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	DNR	Open	Organic/Clay	High	Yes	50	ft2		reveg site	9/13/2006	11:58:20am	
CNWCBC	Carol Cross	NAD	83 North Plane 4601 Feet	LBR0701	Bohemian	Group		3-6 ft	101-200	Post-Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	DNR	Open	Sand	High	Yes	40	ft2		reveg site	9/13/2006	12:01:45pm	
CNWCBC	Carol Cross	NAD	83 North Plane 4601 Feet	LBR0703	Bohemian	Group		3-6 ft	101-200	Post-Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	DNR	Open	Sand	Medium	Yes	40	ft2		75% new growth +	9/13/2006	12:04:57pm	
CNWCBC	Carol Cross	NAD	83 North Plane 4601 Feet	LBR0705	Bohemian	Group		3-6 ft	51-100	Post-Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	DNR	Open	Sand									

AGENCY	COLLECTOR	DATURN	SITE ID	SPECIES	CLUSTER	TV	AVER	STEM C	PHENOLOG	SITE TYPE	ACTION	HERBICIDE	SURFACTANT	TREATMENT	OWNERSHIP	CANOPY	SUBSTRATE	PLNT	ERODE	HIGH	AREA	UNIT	COMMENTS	DATE	YMD	TIME
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0781	Bohemian	Group		3-6 ft	11-25	Post-Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	DNR	Mostly Open	Gravel	High	Yes	12	ft2	98%		9/13/2006	10:36:36am	
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0853	Bohemian	Group		3-6 ft	6-10	Post-Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	DNR	Open	Sand	High	Yes	6	ft2	98%		9/13/2006	10:35:09pm	
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0612	Bohemian	Group		3-6 ft	26-50	Post-Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	DNR	Mostly Open	Fines	Medium	Yes	35	ft2	90% leaf drop 10 new growth		9/13/2006	10:17:41am	
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0617	Bohemian	Group		3-6 ft	101-200	Post-Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	DNR	Open	Fines	High	Yes	50	ft2	reveg. 97% leaf drop 20 new growth		9/13/2006	10:38:56pm	
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0648	Bohemian	Group		3-6 ft	11-25	Post-Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	DNR	Mostly Open	Organic/Clay	High	Yes	10	ft2	rb 75% leaf drop		9/13/2006	01:03:20pm	
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0653	Bohemian	Group		<3 ft	6-10	Post-Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	DNR	Mostly Open	Organic/Clay	High	Yes	5	ft2	new growth		9/13/2006	02:24:56pm	
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0707	Bohemian	Group		3-6 ft	101-200	Post-Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	DNR	Mostly Open	Gravel	High	Yes	100	ft2	start retreat 9/12/06		9/13/2006	09:50:34am	
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0678	Bohemian	Group		3-6 ft	51-100	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	DNR	Mostly Open	Organic/Clay	High	Yes	40	ft2	rb hw 100% reveg		8/28/2006	11:38:10am	
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0725	Bohemian	Individual		<3 ft	1	Post-Bloom	Riparian - Gravelbar	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	DNR	Mostly Open	Gravel	High	Yes	1	ft2	river no effect		9/13/2006	12:28:50pm	
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0728	Bohemian	Group		<3 ft	2-5	Post-Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	DNR	Mostly Open	Organic/Clay	High	Yes	10	ft2	new growth 8		9/13/2006	12:34:33pm	
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0729	Bohemian	Individual		<3 ft	2-5	Post-Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	DNR	Mostly Closed	Fines	High	Yes	2	ft2	bank new growth		9/13/2006	12:36:56pm	
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0730	Bohemian	Individual		<3 ft	2-5	Post-Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	DNR	Mostly Closed	Organic/Clay	High	Yes	2	ft2	bank reveg above		9/13/2006	12:39:20pm	
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0731	Bohemian	Individual		<3 ft	2-5	Post-Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	DNR	Mostly Closed	Organic/Clay	High	Yes	2	ft2	bank new growth		9/13/2006	12:42:16pm	
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0732	Bohemian	Individual		<3 ft	2-5	Post-Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	DNR	Closed	Organic/Clay	High	Yes	1	ft2	new growth		9/13/2006	12:44:26pm	
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0734	Bohemian	Individual		3-6 ft	11-25	Post-Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	DNR	Mostly Open	Organic/Clay	High	Yes	100	ft2	end spray 7/19 flag		9/13/2006	01:28:21pm	
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0736	Bohemian	Group		3-6 ft	6-10	Post-Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	DNR	Mostly Open	Organic/Clay	High	Yes	1	ft2	new growth		9/13/2006	01:35:02pm	
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0738	Bohemian	Individual		<3 ft	1	Post-Bloom	Riparian - Gravelbar	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	DNR	Mostly Closed	Organic/Clay	High	Yes	1	ft2	site by road 90% leaf drop		9/13/2006	01:41:13pm	
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0739	Bohemian	Group		3-6 ft	11-25	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	DNR	Mostly Open	Organic/Clay	High	Yes	40	ft2	90% leaf drop		8/28/2006	01:43:15pm	
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0741	Bohemian	Group		<3 ft	6-10	Post-Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Defrang	Mostly Open	Organic/Clay	High	Yes	20	ft2	bank new growth		9/13/2006	01:48:25pm	
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0750	Bohemian	Group		<3 ft	6-10	Post-Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Defrang	Mostly Closed	Fines	High	Yes	10	ft2	bank reveg above new growth		9/13/2006	02:23:31pm	
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0757	Bohemian	Group		3-6 ft	2-5	Post-Bloom	Riparian - Gravelbar	Treatment	Aquamaster/Glypro	None	Inject	Defrang	Mostly Open	Sand	High	Yes	8	ft2	reveg above 100%		9/13/2006	03:27:54pm	
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0772	Bohemian	Group		3-6 ft	11-25	Post-Bloom	Riparian - Gravelbar	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Defrang	Open	Fines	High	Yes	6	ft2	sand bar & log 95%		9/13/2006	04:11:41pm	
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0848	Bohemian	Group		<3 ft	>200	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Rayonier	Open	Sand	High	No	8000	ft2	Sprayed canes below Levin's		8/29/2006	02:55:08pm	
CNWCBC	Sasha Sicks	NAD 83 North Plane 4601 Feet	LBR0751	Bohemian	Individual		<3 ft	6-10	Post-Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Brady		Vegetated or LWD	Low	No	0		Taken from survey data/spray		9/8/2006	10:16:59am	
CNWCBC	Sasha Sicks	NAD 83 North Plane 4601 Feet	LBR0752	Bohemian	Individual		<3 ft	2-5	Post-Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Brady		Vegetated or LWD	Low	No	0		Taken from survey data/spray		9/8/2006	10:18:56am	
CNWCBC	Sasha Sicks	NAD 83 North Plane 4601 Feet	LBR0753	Bohemian	Individual		3-6 ft	6-10	Post-Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Brady		Vegetated or LWD	Low	No	0		Taken from survey data/spray		9/26/2006	10:21:22am	
CNWCBC	Sasha Sicks	NAD 83 North Plane 4601 Feet	LBR0754	Bohemian	Individual		<3 ft	6-10	Post-Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Brady		Vegetated or LWD	Low	No	0		Taken from survey data/spray		9/27/2006	10:24:11am	
CNWCBC	Sasha Sicks	NAD 83 North Plane 4601 Feet	LBR0755	Bohemian	Individual		<3 ft	6-10	Post-Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Brady		Vegetated or LWD	Low	No	0		Taken from survey data/spray		9/27/2006	10:25:55am	
CNWCBC	Sasha Sicks	NAD 83 North Plane 4601 Feet	LBR0756	Bohemian	Individual		3-6 ft	6-10	Post-Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Brady		Vegetated or LWD	Low	No	0		Taken from survey data/spray		9/26/2006	10:29:11am	
CNWCBC	Sasha Sicks	NAD 83 North Plane 4601 Feet	LBR0757	Bohemian	Individual		<3 ft	2-5	Post-Bloom	Large Woody Debris	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Brady		Vegetated or LWD	Low	No	0		Taken from survey data/spray		9/27/2006	10:31:47am	
CNWCBC	Sasha Sicks	NAD 83 North Plane 4601 Feet	LBR0758	Bohemian	Individual		<3 ft	2-5	Post-Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Brady		Low	Low	No	0		Taken from survey data/spray		9/27/2006	10:34:07am	
CNWCBC	Sasha Sicks	NAD 83 North Plane 4601 Feet	LBR0759	Bohemian	Clump		3-6 ft	26-50	Post-Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Brady		Vegetated or LWD	Low	No	0		Taken from survey data/spray		9/26/2006	10:39:15am	
CNWCBC	Sasha Sicks	NAD 83 North Plane 4601 Feet	LBR0760	Bohemian	Individual		<3 ft	2-5	Post-Bloom	Large Woody Debris	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Brady		Vegetated or LWD	Low	No	0		Taken from survey data/spray		9/27/2006	10:42:10am	
CNWCBC	Sasha Sicks	NAD 83 North Plane 4601 Feet	LBR0761	Bohemian	Individual		3-6 ft	11-25	Post-Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Brady		Sand	Low	No	0		Taken from survey data/spray		9/26/2006	10:45:18am	
CNWCBC	Sasha Sicks	NAD 83 North Plane 4601 Feet	LBR0762	Bohemian	Individual		<3 ft	1	Post-Bloom	Large Woody Debris	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Brady		Vegetated or LWD	Low	No	0		Taken from survey data/spray		9/27/2006	10:48:17am	
CNWCBC	Sasha Sicks	NAD 83 North Plane 4601 Feet	LBR0763	Bohemian	Individual		3-6 ft	6-10	Post-Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Brady		Sand	Low	No	0		Taken from survey data/spray		9/26/2006	10:50:21am	
CNWCBC	Sasha Sicks	NAD 83 North Plane 4601 Feet	LBR0764	Bohemian	Individual		<3 ft	2-5	Post-Bloom	Riparian - Gravelbar	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Brady		Sand	Low	No	0		Taken from survey data/spray		9/27/2006	10:52:51am	
CNWCBC	Sasha Sicks	NAD 83 North Plane 4601 Feet	LBR0601	Bohemian	Group		>6 ft	51-100	Post-Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Newman		Sand	Low	No	0		logjam by roundhouse		9/26/2006	10:29:55am	
CNWCBC	Sasha Sicks	NAD 83 North Plane 4601 Feet	LBR0727	Bohemian	Clump		3-6 ft	6-10	Post-Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Newman		Sand	Low	No	0		logjam		9/26/2006	09:22:35am	
CNWCBC	Sasha Sicks	NAD 83 North Plane 4601 Feet	LBR0728	Bohemian	Individual		<3 ft	2-5	Post-Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Newman		Sand	Low	No	0		behind a log		9/27/2006	09:24:59am	
CNWCBC	Sasha Sicks	NAD 83 North Plane 4601 Feet	LBR0729	Bohemian	Individual		<3 ft	1	Post-Bloom	Large Woody Debris	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Newman		Vegetated or LWD	Low	No	0		on roots		9/27/2006	09:26:51am	
CNWCBC	Sasha Sicks	NAD 83 North Plane 4601 Feet	LBR0730	Bohemian	Individual		3-6 ft	11-25	Post-Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Newman		Sand	Low	No	0		low on bank and up top		9/26/2006	09:28:43am	
CNWCBC	Sasha Sicks	NAD 83 North Plane 4601 Feet	LBR0731	Bohemian	Clump		>6 ft	11-25	Post-Bloom	Ripar-Floodplain	Treatment	Aquamaster/Glypro	None	Inject	Newman		Fines	Low	No	0		back in bushes		9/26/2006	09:30:54am	
CNWCBC	Sasha Sicks	NAD 83 North Plane 4601 Feet	LBR0732	Bohemian	Group		3-6 ft	51-100	Post-Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Newman		Sand	Low	No	0				9/26/2006	09:33:22am	
CNWCBC	Sasha Sicks	NAD 83 North Plane 4601 Feet	LBR0733	Bohemian	Clump		3-6 ft	11-25	Post-Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Newman		Sand	Low	No	0		after deep hole		9/27/2006	09:36:32am	
CNWCBC	Sasha Sicks	NAD 83 North Plane 4601 Feet	LBR0734	Bohemian	Individual		<3 ft	6-10	Post-Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Newman		Sand	Low	No	0		under salmonberries		9/27/2006	09:38:39am	
CNWCBC	Sasha Sicks	NAD 83 North Plane 4601 Feet	LBR0735	Bohemian	Individual		<3 ft	2-5	Post-Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Newman		Sand	Low	No	0		along water edge		9/27/2006	09:40:30am	
CNWCBC	Sasha Sicks	NAD 83 North Plane 4601 Feet	LBR0736	Bohemian	Individual		3-6 ft	11-25	Post-Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Newman		Sand	Low	No	0		peninsula		9/27/2006	09:42:16am	
CNWCBC	Sasha Sicks	NAD 83 North Plane 4601 Feet	LBR0737	Bohemian	Individual		<3 ft	6-10	Post-Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Newman		Sand	Low	No	0		very small		9/27/2006	09:44:04am</	



AGENCY	COLLECTOR	DATURN	SITE ID	SPECIES	CLUSTER	TV	AVER	STEM C	PHENOLOG	SITE TYPE	ACTION	HERBICIDE	SURFACTANT	TREATMENT	OWNERSHIP	CANOPY	SUBSTRATE	PLNT	ERODE	HIGH	AREA	UNIT	COMMENTS	DATE	YMD	TIME
CNWCBC	Sasha Sicks	NAD 83 North Plane 4601 Feet	LBR0622	Bohemian	Clump		>6 ft	101-200	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Defrang		Sand	High	Yes	0			Taken from survey data/spray	8/30/2006	03:29:49pm	
CNWCBC	Sasha Sicks	NAD 83 North Plane 4601 Feet	LBR0625	Bohemian	Group		>6 ft	101-200	Bloom	Ripar-Floodplain	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Defrang		Vegetated or LWD	High	Yes	0			Taken from survey data/spray	8/30/2006	03:53:15pm	
CNWCBC	Sasha Sicks	NAD 83 North Plane 4601 Feet	LBR0638	Bohemian	Group		3-6 ft	>200	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Defrang		Fines	Medium	No	400	ft2		Experiment Plot w/Habitat	7/31/2006	11:05:58am	
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0601	Bohemian	Group		3-6 ft	101-200	Post-bloom	Field/Pasture	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Defrang		Organic/Clay	Medium	Yes	200	ft2		end retreat 9/12/06	9/12/2006	09:56:24am	
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0602	Bohemian	Group		3-6 ft	101-200	Post-bloom	Riparian-Other	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	barber		Organic/Clay	High	Yes	200	ft2		start retreat 9/13/06	9/13/2006	09:59:20am	
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0603	Bohemian	Group		3-6 ft	101-200	Post-bloom	Riparian-Other	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Defrang	Closed	Organic/Clay	High	Yes	200	ft2		end treat 9/12/06	9/12/2006	10:03:54am	
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0604	Bohemian	Group		3-6 ft	101-200	Post-bloom	Riparian - Gravelbar	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	barber/cascad	Mostly Open	Organic/Clay	High	Yes	200	ft2		start respray 9/15/06	9/15/2006	10:07:09am	
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0605	Bohemian	Group		3-6 ft	26-50	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Cascade	Mostly Closed	Organic/Clay	High	Yes	30	ft2		reveg-cont huge group	7/19/2006	10:35:34am	
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0606	Bohemian	Group		3-6 ft	51-100	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	R-11	Foliar	Cascade	Mostly Open	Organic/Clay	High	Yes	50	ft2		end lg group st sp 7/19	7/19/2006	10:38:07am	
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0607	Bohemian	Group		3-6 ft	26-50	Post-bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Cascade	Mostly Open	Organic/Clay	High	Yes	200	ft2		retreat begin 9/15/06	9/15/2006	10:52:43am	
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0608	Bohemian	Group		<3 ft	2-5	Pre-bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	R-11	Foliar	Cascade	Mostly Closed	Organic/Clay	High	Yes	4	ft2		reveg	7/19/2006	10:57:52am	
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0609	Bohemian	Group		<3 ft	2-5	Pre-bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	R-11	Foliar	Cascade	Mostly Open	Organic/Clay	High	Yes	200	ft2		retreat begin 9/15/06	9/15/2006	10:52:43am	
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0610	Bohemian	Group		3-6 ft	6-10	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Cascade	Mostly Open	Organic/Clay	High	Yes	10	ft2		reveg 100% ld	7/19/2006	11:04:38am	
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0611	Bohemian	Group		3-6 ft	26-50	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	R-11	Foliar	Cascade	Mostly Open	Organic/Clay	High	Yes	40	ft2		90% ld ng 10	7/19/2006	11:07:01am	
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0612	Bohemian	Group		3-6 ft	11-25	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	R-11	Foliar	Cascade	Mostly Open	Organic/Clay	High	Yes	40	ft2		bk 100% ng 15	7/19/2006	11:10:40am	
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0613	Bohemian	Group		3-6 ft	26-50	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	R-11	Foliar	Cascade	Mostly Closed	Organic/Clay	High	Yes	20	ft2		bk reveg 100% ng 14	7/19/2006	11:14:10am	
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0614	Bohemian	Group		3-6 ft	11-25	Bloom	Riparian - Gravelbar	Treatment	Aquamaster/Glypro	R-11	Foliar	Cascade	Mostly Open	Organic/Clay	High	Yes	6	ft2		bk browning 50%	7/19/2006	11:14:06am	
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0615	Bohemian	Group		3-6 ft	2-5	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Cascade	Mostly Closed	Organic/Clay	High	Yes	6	ft2		bk 100%	7/19/2006	11:21:04am	
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0616	Bohemian	Group		3-6 ft	26-50	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	R-11	Foliar	Cascade	Mostly Closed	Organic/Clay	High	Yes	10	ft2		bk 100% ng	7/19/2006	11:23:38am	
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0617	Bohemian	Group		3-6 ft	11-25	Pre-bloom	Riparian - Gravelbar	Treatment	Aquamaster/Glypro	R-11	Foliar	Cascade	Mostly Open	Gravel	High	Yes	6	ft2		100%	7/19/2006	11:25:15am	
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0618	Bohemian	Group		3-6 ft	2-5	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Cascade	Mostly Closed	Organic/Clay	High	Yes	6	ft2		bk 100% ng 10	7/19/2006	11:26:53am	
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0619	Bohemian	Group		3-6 ft	6-10	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Cascade	Mostly Closed	Fines	High	Yes	3	ft2		bk 100% ng	7/19/2006	11:29:45am	
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0620	Bohemian	Group		3-6 ft	101-200	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Inject + Foliar	Merrill & Ring	Mostly Closed	Organic/Clay	High	Yes	300	ft2		95% long area	8/15/2006	01:43:29pm	
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0621	Bohemian	Group		3-6 ft	51-100	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Inject + Foliar	Merrill & Ring	Mostly Closed	Organic/Clay	High	Yes	50	ft2		98% long area	8/15/2006	01:54:11pm	
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0622	Bohemian	Group		3-6 ft	101-200	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Inject + Foliar	Merrill & Ring	Mostly Closed	Organic/Clay	High	Yes	50	ft2		98% reveg site	8/15/2006	02:00:37pm	
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0605	Bohemian	Group		3-6 ft	101-200	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Inject + Foliar	Merrill & Ring	Mostly Closed	Organic/Clay	High	Yes	50	ft2		98% ng 8	8/15/2006	02:07:48pm	
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0606	Bohemian	Group		3-6 ft	101-200	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Inject + Foliar	Merrill & Ring	Open	Organic/Clay	High	Yes	100	ft2		95% ng min reveg above	8/15/2006	02:16:38pm	
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0607	Bohemian	Group		3-6 ft	101-200	Bloom	Ripar-Floodplain	Treatment	Aquamaster/Glypro	Agri-Dex	Inject + Foliar	Merrill & Ring	Open	Organic/Clay	Medium	No	1	acres		creek area	8/15/2006	02:22:44pm	
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0601	Bohemian	Fragment		3-6 ft	11-25	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Cascade	Mostly Closed	Organic/Clay	High	Yes				reveg_100% ng 3	7/19/2006	11:31:22am	
CNWCBC	Carol Cross	NAD 83 North Plane 4601 Feet	LBR0602	Bohemian	Group		3-6 ft	26-50	Bloom	Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Cascade	Mostly Closed	Organic/Clay	High	Yes				reveg_100% ng	7/19/2006	11:35:15am	
CNWCBC	annan bowly	NAD 83 North Plane 4601 Feet	LBR0602	Bohemian	Individual		<3 ft	51-100	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Medium	No	0				beaver damage,above water	6/10/2006	02:42:04pm	
CNWCBC	annan bowly	NAD 83 North Plane 4601 Feet	LBR0603	Bohemian	Group		>6 ft	>200	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Sand	Medium	Yes	0			in water, beaver damage	6/10/2006	02:50:17pm	
CNWCBC	annan bowly	NAD 83 North Plane 4601 Feet	LBR0604	Bohemian	Clump		3-6 ft	51-100	Pre-bloom	Large Woody Debris	Inventory	None	None	None			Vegetated or LWD	Medium	No	0			in water, beaver damage,	6/10/2006	02:57:12pm	
CNWCBC	annan bowly	NAD 83 North Plane 4601 Feet	LBR0611	Bohemian	Clump		<3 ft	26-50	Pre-bloom	Large Woody Debris	Inventory	None	None	None			Sand	Medium	Yes	0			water, bevr damag, on log	6/10/2006	03:55:47pm	
CNWCBC	annan bowly	NAD 83 North Plane 4601 Feet	LBR0612	Bohemian	Clump		3-6 ft	26-50	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Organic/Clay	High	Yes	0			in watr, bevr damag,	6/10/2006	04:00:09pm	
CNWCBC	annan bowly	NAD 83 North Plane 4601 Feet	LBR0613	Bohemian	Group		>6 ft	>200	Pre-bloom	Ripar-Floodplain	Inventory	None	None	None			Vegetated or LWD	Low	No	0			goes 30ft back approx.	6/10/2006	04:06:27pm	
CNWCBC	annan bowly	NAD 83 North Plane 4601 Feet	LBR0614	Bohemian	Individual		<3 ft	11-25	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Organic/Clay	Medium	Yes	0			on roadwad,	6/11/2006	10:38:01am	
CNWCBC	annan bowly	NAD 83 North Plane 4601 Feet	LBR0615	Bohemian	Clump		<3 ft	11-25	Pre-bloom	Large Woody Debris	Inventory	None	None	None			Vegetated or LWD	Medium	Yes	0			in water	6/11/2006	10:40:41am	
CNWCBC	annan bowly	NAD 83 North Plane 4601 Feet	LBR0616	Bohemian	Clump		<3 ft	11-25	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Vegetated or LWD	Medium	No	0			far bank by alder, in watr,log	6/11/2006	10:43:28am	
CNWCBC	annan bowly	NAD 83 North Plane 4601 Feet	LBR0617	Bohemian	Clump		3-6 ft	26-50	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Organic/Clay	Medium	Yes	0			includes all open bank	6/11/2006	10:46:51am	
CNWCBC	annan bowly	NAD 83 North Plane 4601 Feet	LBR0618	Bohemian	Individual		<3 ft	2-5	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Vegetated or LWD	Medium	Yes	0			right up from big patch, in watr	6/11/2006	10:49:03am	
CNWCBC	annan bowly	NAD 83 North Plane 4601 Feet	LBR0619	Bohemian	Clump		<3 ft	26-50	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Vegetated or LWD	Medium	Yes	0			elk crossing, plant in watr	6/11/2006	10:52:29am	
CNWCBC	annan bowly	NAD 83 North Plane 4601 Feet	LBR0620	Bohemian	Individual		<3 ft	2-5	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Vegetated or LWD	Low	No	0			on log	6/11/2006	10:56:14am	
CNWCBC	annan bowly	NAD 83 North Plane 4601 Feet	LBR0621	Bohemian	Individual		<3 ft	2-5	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Vegetated or LWD	Low	No	0			high vege bank	6/11/2006	10:58:47am	
CNWCBC	annan bowly	NAD 83 North Plane 4601 Feet	LBR0622	Bohemian	Clump		3-6 ft	51-100	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Sand	Medium	Yes	0			elk crossing, high erode bank	6/11/2006	11:00:50am	
CNWCBC	annan bowly	NAD 83 North Plane 4601 Feet	LBR0623	Bohemian	Clump		>6 ft	>200	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Sand	High	Yes	0			in water middle o river	6/11/2006	11:03:20am	
CNWCBC	annan bowly	NAD 83 North Plane 4601 Feet	LBR0624	Bohemian	Clump		>6 ft	51-100	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Vegetated or LWD	Low	No	0			signs of treatment	6/11/2006	11:06:52am	
CNWCBC	annan bowly	NAD 83 North Plane 4601 Feet	LBR0625	Bohemian	Clump		3-6 ft	51-100	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Organic/Clay	Medium	Yes	0			high claybank, plant in watr	6/11/2006	11:09:42am	
CNWCBC	annan bowly	NAD 83 North Plane 4601 Feet	LBR0626	Bohemian	Clump		3-6 ft	101-200	Pre-bloom	Ripar-Veg Highwater	Inventory															

AGENCY	COLLECTOR	DATURN	SITE ID	SPECIES	CLUSTER	TV	AVER	STEM C	PHENOLOG	SITE TYPE	ACTION	HERBICIDE	SURFACTANT	TREATMENT	OWNERSHIP	CANOPY	SUBSTRATE	PLNT	ERODE	HIGH	AREA	UNIT	COMMENTS	DATE	YMD	TIME
CCNWCB	annan bowly	NAD 83 North Plane 4601 Feet	LBR0646	Bohemian	Individual		3-6 ft	6-10	Pre-bloom	Ripar-Floodplain	Inventory	None	None	None			Vegetated or LWD	Low	No	0		mixed with brush	6/13/2006	08:12:54am		
CCNWCB	annan bowly	NAD 83 North Plane 4601 Feet	LBR0647	Bohemian	Clump		3-6 ft	26-50	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Vegetated or LWD	Low	No	0		by cascara tree, down by river	6/13/2006	08:16:16am		
CCNWCB	annan bowly	NAD 83 North Plane 4601 Feet	LBR0648	Bohemian	Individual		<3 ft	11-25	Pre-bloom	Ripar-Floodplain	Inventory	None	None	None			Vegetated or LWD	Low	No	0		in treated area, clumps close	6/13/2006	08:19:49am		
CCNWCB	annan bowly	NAD 83 North Plane 4601 Feet	LBR0649	Bohemian	Individual		<3 ft	6-10	Pre-bloom	Large Woody Debris	Inventory	None	None	None			Vegetated or LWD	Medium	No	0		on wood, some on bank	6/13/2006	08:22:52am		
CCNWCB	annan bowly	NAD 83 North Plane 4601 Feet	LBR0650	Bohemian	Clump		3-6 ft	26-50	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Sand	Medium	No	0		in watr, treated above	6/13/2006	08:25:29am		
CCNWCB	annan bowly	NAD 83 North Plane 4601 Feet	LBR0651	Bohemian	Individual		<3 ft	1	Pre-bloom	Large Woody Debris	Inventory	None	None	None			Vegetated or LWD	Low	No	0		on roots, in wster	6/13/2006	08:28:28am		
CCNWCB	annan bowly	NAD 83 North Plane 4601 Feet	LBR0652	Bohemian	Individual		<3 ft	2-5	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Vegetated or LWD	Low	No	0			6/13/2006	08:40:32am		
CCNWCB	annan bowly	NAD 83 North Plane 4601 Feet	LBR0653	Bohemian	Clump		>6 ft	>200	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Vegetated or LWD	Medium	Yes	0		in watr, both sides fall tree	6/13/2006	08:42:51am		
CCNWCB	annan bowly	NAD 83 North Plane 4601 Feet	LBR0654	Bohemian	Clump		>6 ft	101-200	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Vegetated or LWD	Medium	Yes	0		in watr, some erosion	6/13/2006	08:45:20am		
CCNWCB	annan bowly	NAD 83 North Plane 4601 Feet	LBR0655	Bohemian	Individual		3-6 ft	6-10	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Vegetated or LWD	Low	No	0		on roots	6/13/2006	08:48:07am		
CCNWCB	annan bowly	NAD 83 North Plane 4601 Feet	LBR0656	Bohemian	Individual		<3 ft	2-5	Pre-bloom	Large Woody Debris	Inventory	None	None	None			Vegetated or LWD	Medium	No	0		in watr, on wood	6/13/2006	08:50:13am		
CCNWCB	annan bowly	NAD 83 North Plane 4601 Feet	LBR0657	Bohemian	Group		>6 ft	>200	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Vegetated or LWD	Medium	Yes	0		in watr, by slanted fall tree	6/13/2006	08:52:56am		
CCNWCB	annan bowly	NAD 83 North Plane 4601 Feet	LBR0658	Bohemian	Individual		<3 ft	2-5	Pre-bloom	Large Woody Debris	Inventory	None	None	None			Vegetated or LWD	Medium	No	0		on both rootwads, no up creek	6/13/2006	08:54:37am		
CCNWCB	annan bowly	NAD 83 North Plane 4601 Feet	LBR0659	Bohemian	Group		>6 ft	>200	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Vegetated or LWD	Medium	Yes	0		part big pach, in watr	6/13/2006	08:56:34am		
CCNWCB	annan bowly	NAD 83 North Plane 4601 Feet	LBR0660	Bohemian	Clump		3-6 ft	51-100	Pre-bloom	Ripar-Floodplain	Inventory	None	None	None			Vegetated or LWD	Low	No	0		treated, new plants sick	6/13/2006	08:59:05am		
CCNWCB	annan bowly	NAD 83 North Plane 4601 Feet	LBR0661	Bohemian	Clump		3-6 ft	11-25	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Vegetated or LWD	Low	No	0		hummingbird nest babys in, ha	6/13/2006	09:03:33am		
CCNWCB	annan bowly	NAD 83 North Plane 4601 Feet	LBR0662	Bohemian	Individual		<3 ft	2-5	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Vegetated or LWD	Medium	No	0		few on bank	6/13/2006	09:07:09am		
CCNWCB	annan bowly	NAD 83 North Plane 4601 Feet	LBR0663	Bohemian	Individual		<3 ft	6-10	Pre-bloom	Large Woody Debris	Inventory	None	None	None			Vegetated or LWD	Medium	No	0		in watr on log	6/13/2006	09:10:51am		
CCNWCB	annan bowly	NAD 83 North Plane 4601 Feet	LBR0664	Bohemian	Group		3-6 ft	101-200	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Vegetated or LWD	Medium	No	0		below humbirdnest, in watr	6/13/2006	09:12:13am		
CCNWCB	annan bowly	NAD 83 North Plane 4601 Feet	LBR0665	Bohemian	Individual		<3 ft	2-5	Pre-bloom	Large Woody Debris	Inventory	None	None	None			Vegetated or LWD	Low	No	0		on submerged log	6/13/2006	09:18:27am		
CCNWCB	annan bowly	NAD 83 North Plane 4601 Feet	LBR0666	Bohemian	Group		3-6 ft	101-200	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Vegetated or LWD	Medium	No	0		big clump in watr	6/13/2006	09:25:46am		
CCNWCB	annan bowly	NAD 83 North Plane 4601 Feet	LBR0667	Bohemian	Individual		<3 ft	2-5	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Vegetated or LWD	Low	No	0		on roots, on log	6/13/2006	09:28:23am		
CCNWCB	annan bowly	NAD 83 North Plane 4601 Feet	LBR0668	Bohemian	Clump		<3 ft	26-50	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Vegetated or LWD	Medium	No	0		on gravelbar	6/13/2006	09:30:06am		
CCNWCB	annan bowly	NAD 83 North Plane 4601 Feet	LBR0669	Bohemian	Clump		3-6 ft	26-50	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Vegetated or LWD	Medium	No	0		in watr, treated, newplant sic	6/13/2006	09:32:00am		
CCNWCB	annan bowly	NAD 83 North Plane 4601 Feet	LBR0670	Bohemian	Clump		>6 ft	51-100	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Vegetated or LWD	Medium	No	0		below treated	6/13/2006	09:33:58am		
CCNWCB	annan bowly	NAD 83 North Plane 4601 Feet	LBR0671	Bohemian	Clump		3-6 ft	26-50	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Vegetated or LWD	Medium	No	0		in water and on bank	6/13/2006	09:36:19am		
CCNWCB	annan bowly	NAD 83 North Plane 4601 Feet	LBR0672	Bohemian	Clump		<3 ft	11-25	Pre-bloom	Large Woody Debris	Inventory	None	None	None			Vegetated or LWD	Medium	No	0		on wood, in water	6/13/2006	09:38:02am		
CCNWCB	annan bowly	NAD 83 North Plane 4601 Feet	LBR0673	Bohemian	Clump		3-6 ft	11-25	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Vegetated or LWD	Medium	No	0		in watr, onwood rootwad	6/13/2006	09:40:02am		
CCNWCB	annan bowly	NAD 83 North Plane 4601 Feet	LBR0674	Bohemian	Clump		<3 ft	26-50	Pre-bloom	Large Woody Debris	Inventory	None	None	None			Vegetated or LWD	Medium	No	0		all parts d log jam, on bank	6/13/2006	09:42:29am		
CCNWCB	annan bowly	NAD 83 North Plane 4601 Feet	LBR0675	Bohemian	Clump		>6 ft	51-100	Pre-bloom	Large Woody Debris	Inventory	None	None	None			Vegetated or LWD	Low	No	0		behind big log ramgs	6/13/2006	09:46:27am		
CCNWCB	annan bowly	NAD 83 North Plane 4601 Feet	LBR0676	Bohemian	Clump		3-6 ft	26-50	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Vegetated or LWD	Medium	No	0		peninsula by log jam	6/13/2006	09:49:31am		
CCNWCB	annan bowly	NAD 83 North Plane 4601 Feet	LBR0677	Bohemian	Group		>6 ft	101-200	Pre-bloom	Large Woody Debris	Inventory	None	None	None			Vegetated or LWD	Medium	No	0		by big log, 300+ 6in. fish	6/13/2006	09:59:27am		
CCNWCB	annan bowly	NAD 83 North Plane 4601 Feet	LBR0678	Bohemian	Clump		>6 ft	26-50	Pre-bloom	Riparian - Gravelbar	Inventory	None	None	None			Sand	Medium	No	0		by creek mouth	6/13/2006	10:01:03am		
CCNWCB	annan bowly	NAD 83 North Plane 4601 Feet	LBR0679	Bohemian	Clump		3-6 ft	26-50	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Organic/Clay	Medium	No	0		10 ft up creek	6/13/2006	10:06:12am		
CCNWCB	annan bowly	NAD 83 North Plane 4601 Feet	LBR0680	Bohemian	Clump		<3 ft	6-10	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Organic/Clay	Medium	No	0		50 ft up bank	6/13/2006	10:08:33am		
CCNWCB	annan bowly	NAD 83 North Plane 4601 Feet	LBR0681	Bohemian	Individual		>6 ft	2-5	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Vegetated or LWD	Low	No	0		175 ft up creek	6/13/2006	10:17:59am		
CCNWCB	annan bowly	NAD 83 North Plane 4601 Feet	LBR0682	Bohemian	Group		>6 ft	101-200	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Vegetated or LWD	Medium	No	0		in watr, across from creek	6/13/2006	10:21:29am		
CCNWCB	annan bowly	NAD 83 North Plane 4601 Feet	LBR0683	Bohemian	Clump		<3 ft	11-25	Pre-bloom	Large Woody Debris	Inventory	None	None	None			Vegetated or LWD	Medium	No	0		in water on dead wood	6/13/2006	10:23:09am		
CCNWCB	annan bowly	NAD 83 North Plane 4601 Feet	LBR0684	Bohemian	Clump		3-6 ft	>200	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Vegetated or LWD	Medium	No	0		all over lite inlet bank, log	6/13/2006	10:24:48am		
CCNWCB	annan bowly	NAD 83 North Plane 4601 Feet	LBR0685	Bohemian	Clump		3-6 ft	26-50	Pre-bloom	Ripar-Floodplain	Inventory	None	None	None			Vegetated or LWD	Low	No	0		30 ft from river	6/13/2006	10:27:20am		
CCNWCB	annan bowly	NAD 83 North Plane 4601 Feet	LBR0687	Bohemian	Individual		<3 ft	2-5	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Vegetated or LWD	Low	No	0		up from creek, by big alders	6/13/2006	10:45:51am		
CCNWCB	annan bowly	NAD 83 North Plane 4601 Feet	LBR0688	Bohemian	Clump		3-6 ft	51-100	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Vegetated or LWD	Medium	No	0		in water, on wood	6/13/2006	10:48:04am		
CCNWCB	annan bowly	NAD 83 North Plane 4601 Feet	LBR0690	Bohemian	Clump		3-6 ft	51-100	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Vegetated or LWD	Medium	Yes	0		treated	6/13/2006	10:53:02am		
CCNWCB	annan bowly	NAD 83 North Plane 4601 Feet	LBR0691	Bohemian	Individual		<3 ft	6-10	Pre-bloom	Ripar-Floodplain	Inventory	None	None	None			Vegetated or LWD	Low	No	0		20ft from river,	6/13/2006	10:55:18am		
CCNWCB	annan bowly	NAD 83 North Plane 4601 Feet	LBR0692	Bohemian	Clump		3-6 ft	26-50	Pre-bloom	Ripar-Floodplain	Inventory	None	None	None			Vegetated or LWD	Low	No	0		treated area, newplantshealthy	6/13/2006	10:58:06am		
CCNWCB	annan bowly	NAD 83 North Plane 4601 Feet	LBR0693	Bohemian	Clump		<3 ft	51-100	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Vegetated or LWD	Medium	No	0		in water, much dead logs	6/13/2006	11:00:19am		
CCNWCB	annan bowly	NAD 83 North Plane 4601 Feet	LBR0695	Bohemian	Clump		3-6 ft	51-100	Pre-bloom	Large Woody Debris	Inventory	None	None	None			Vegetated or LWD	Medium	No	0		in watr, all aros rivr on wood	6/13/2006	12:37:07pm		
CCNWCB	annan bowly	NAD 83 North Plane 4601 Feet	LBR0699	Bohemian	Clump		3-6 ft	26-50	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Sand	Medium	No	0		by log pileup	6/13/2006	12:58:10pm		
CCNWCB	annan bowly	NAD 83 North Plane 4601 Feet	LBR0700	Bohemian	Group		>6 ft	>200	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Vegetated or LWD	Medium	No	0		in water, stops past bank	6/13/2006	01:00:23pm		
CCNWCB	annan bowly	NAD 83 North Plane 4601 Feet	LBR0701	Bohemian	Clump		3-6 ft	51-100	Pre-bloom	Large Woody Debris	Inventory	None	None	None			Vegetated or LWD	Medium	No	0		in watr, on log	6/13/2006	01:02:47pm		
CCNWCB	annan bowly	NAD 83 North Plane 4601 Feet	LBR0702	Bohemian	Clump		3-6 ft	26-50	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Vegetated or LWD	Medium	No	0		in watr, on wood, on gravel	6/13/2006	01:09:12pm		
CCNWCB	ross mcdormar	NAD 83 North Plane 4601 Feet	LBR0703	Bohemian	Group		>6 ft	>200	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Vegetated or LWD	Low	No	0		big patch by log sticm out	6/13/2006	01:14:07pm		
CCNWCB	annan bowly	NAD 83 North Plane 4601 Feet	LBR0704	Bohemian	Clump		3-6 ft	51-100	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Vegetated or LWD	Medium	No	0		in water by bigpatch	6/13/2006	01:16:38pm		
CCNWCB	annan bowly	NAD 83 North Plane 4601 Feet	LBR0705	Bohemian	Group		3-6 ft	>200	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Vegetated or LWD	Medium	No	0		island w lot of plants, in wat	6/13/2006	01:20:37pm		
CCNWCB	annan bowly	NAD 83 North Plane 4601 Feet	LBR0706	Bohemian	Individual		<3 ft	6-10	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Vegetated or LWD	Medium	No	0		in water, beaver damaged	6/13/2006	01:21:41pm		
CCNWCB	annan bowly	NAD 83 North Plane 4601 Feet	LBR0707	Bohemian	Clump		3-6 ft	51-100	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Vegetated or LWD	Medium	No	0		in water, on island	6/13/2006	01:29:59pm		
CCNWCB	annan bowly	NAD 83 North Plane 4601 Feet	LBR0708	Bohemian	Clump		3-6 ft	51-100	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Vegetated or LWD	Medium	No	0		in water, on island, beavdamag	6/13/2006	01:31:25pm		
CCNWCB	annan bowly	NAD 83 North Plane 4601 Feet	LBR0709	Bohemian	Individual		3-6 ft	6-10	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Vegetated or LWD	Medium	No	0		bank across from island	6/13/2006	01:33:16pm		
CCNWCB	annan bowly	NAD 83 North Plane 4601 Feet																								

AGENCY	COLLECTOR	DATURN	SITE ID	SPECIES	CLUSTER	TV	AVER	STEM C	PHENOLOG	SITE TYPE	ACTION	HERBICIDE	SURFACTANT	TREATMENT	OWNERSHIP	CANOPY	SUBSTRATE	PLNT	ERODE	HIGH	AREA	UNIT	COMMENTS	DATE	YMD	TIME
CCNWCBC	annan bowly	NAD 83 North Plane 4601 Feet	LBR0734	Bohemian	Clump		3-6 ft	51-100	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Vegetated or LWD	Medium	No	0			beavr damage,mix w grass	6/14/2006	11:22:36am	
CCNWCBC	annan bowly	NAD 83 North Plane 4601 Feet	LBR0735	Bohemian	Clump		3-6 ft	26-50	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Vegetated or LWD	Low	No	0			mix salmonberry, beavr trails	6/14/2006	11:23:25am	
CCNWCBC	annan bowly	NAD 83 North Plane 4601 Feet	LBR0736	Bohemian	Clump		3-6 ft	51-100	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Vegetated or LWD	Low	No	0			10ft back, in salmonby, by riv	6/14/2006	11:25:26am	
CCNWCBC	annan bowly	NAD 83 North Plane 4601 Feet	LBR0737	Bohemian	Clump		>6 ft	51-100	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Vegetated or LWD	Low	No	0			mix grass, in watr, beaf tracw	6/14/2006	11:28:12am	
CCNWCBC	annan bowly	NAD 83 North Plane 4601 Feet	LBR0738	Bohemian	Group		>6 ft	101-200	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Vegetated or LWD	Medium	Yes	0			beavtrails,mix with grass,inwt	6/14/2006	11:30:18am	
CCNWCBC	annan bowly	NAD 83 North Plane 4601 Feet	LBR0739	Bohemian	Group		>6 ft	51-100	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Vegetated or LWD	Low	No	0			on sharp corner, root wad	6/14/2006	11:33:45am	
CCNWCBC	annan bowly	NAD 83 North Plane 4601 Feet	LBR0740	Bohemian	Group		3-6 ft	>200	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Vegetated or LWD	Low	No	0			heavybeavdamage,big onesupt	6/14/2006	11:36:12am	
CCNWCBC	annan bowly	NAD 83 North Plane 4601 Feet	LBR0741	Bohemian	Clump		3-6 ft	101-200	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Sand	Medium	Yes	0			mix grass,moreback,in water	6/14/2006	11:47:43am	
CCNWCBC	annan bowly	NAD 83 North Plane 4601 Feet	LBR0742	Bohemian	Individual		<3 ft	2-5	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Vegetated or LWD	Medium	No	0			in roots live tree, in water	6/14/2006	11:52:01am	
CCNWCBC	annan bowly	NAD 83 North Plane 4601 Feet	LBR0743	Bohemian	Individual		<3 ft	2-5	Pre-bloom	Large Woody Debris	Inventory	None	None	None			Vegetated or LWD	Low	No	0			in wat, beavdamage, on bank	6/14/2006	11:54:07am	
CCNWCBC	annan bowly	NAD 83 North Plane 4601 Feet	LBR0744	Bohemian	Individual		<3 ft	1	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			None	Low	No	0			one by bank on log in grass	6/14/2006	11:56:30am	
CCNWCBC	annan bowly	NAD 83 North Plane 4601 Feet	LBR0745	Bohemian	Individual		<3 ft	26-50	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Sand	Medium	Yes	0			hidden in grass	6/14/2006	11:58:39am	
CCNWCBC	annan bowly	NAD 83 North Plane 4601 Feet	LBR0746	Bohemian	Individual		<3 ft	26-50	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Vegetated or LWD	Low	No	0			under salmoby,ingrass,inwater	6/14/2006	12:00:32pm	
CCNWCBC	annan bowly	NAD 83 North Plane 4601 Feet	LBR0747	Bohemian	Individual		<3 ft	6-10	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Sand	Low	No	0			in grass, beaver slide,in wate	6/14/2006	12:02:22pm	
CCNWCBC	annan bowly	NAD 83 North Plane 4601 Feet	LBR0748	Bohemian	Individual		<3 ft	26-50	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Sand	Low	No	0			in grass, on sand	6/14/2006	12:05:05pm	
CCNWCBC	annan bowly	NAD 83 North Plane 4601 Feet	LBR0749	Bohemian	Clump		<3 ft	51-100	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Vegetated or LWD	Low	No	0			all over by shallow crossing,	6/14/2006	12:09:36pm	
CCNWCBC	annan bowly	NAD 83 North Plane 4601 Feet	LBR0750	Bohemian	Individual		<3 ft	6-10	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Sand	Low	No	0			on mounds	6/14/2006	12:11:38pm	
CCNWCBC	annan bowly	NAD 83 North Plane 4601 Feet	LBR0751	Bohemian	Individual		<3 ft	6-10	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Vegetated or LWD	Low	No	0			in grass, in water	6/15/2006	10:16:59am	
CCNWCBC	annan bowly	NAD 83 North Plane 4601 Feet	LBR0752	Bohemian	Individual		<3 ft	2-5	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Vegetated or LWD	Low	No	0			in grass, in water	6/15/2006	10:18:56am	
CCNWCBC	annan bowly	NAD 83 North Plane 4601 Feet	LBR0753	Bohemian	Individual		3-6 ft	6-10	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Vegetated or LWD	Low	No	0			underoverhang,branches,onist	6/15/2006	10:21:22am	
CCNWCBC	annan bowly	NAD 83 North Plane 4601 Feet	LBR0754	Bohemian	Individual		<3 ft	6-10	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Vegetated or LWD	Low	No	0			island in grass, some on bank	6/15/2006	10:24:11am	
CCNWCBC	annan bowly	NAD 83 North Plane 4601 Feet	LBR0755	Bohemian	Individual		<3 ft	6-10	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Vegetated or LWD	Low	No	0			underoverhang,branches,inwat	6/15/2006	10:25:55am	
CCNWCBC	annan bowly	NAD 83 North Plane 4601 Feet	LBR0756	Bohemian	Individual		3-6 ft	6-10	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Vegetated or LWD	Low	No	0			in grass, in water	6/15/2006	10:29:11am	
CCNWCBC	annan bowly	NAD 83 North Plane 4601 Feet	LBR0757	Bohemian	Individual		<3 ft	2-5	Pre-bloom	Large Woody Debris	Inventory	None	None	None			Vegetated or LWD	Low	No	0			in water, on wood	6/15/2006	10:31:47am	
CCNWCBC	annan bowly	NAD 83 North Plane 4601 Feet	LBR0758	Bohemian	Individual		<3 ft	2-5	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			None	Low	No	0			in water onsteep mud	6/15/2006	10:34:07am	
CCNWCBC	annan bowly	NAD 83 North Plane 4601 Feet	LBR0759	Bohemian	Clump		3-6 ft	26-50	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Vegetated or LWD	Low	No	0			down from rope, across in root	6/15/2006	10:39:15am	
CCNWCBC	annan bowly	NAD 83 North Plane 4601 Feet	LBR0760	Bohemian	Individual		<3 ft	2-5	Pre-bloom	Large Woody Debris	Inventory	None	None	None			Vegetated or LWD	Low	No	0			on rooftop, beavr damage,onb	6/15/2006	10:42:10am	
CCNWCBC	annan bowly	NAD 83 North Plane 4601 Feet	LBR0761	Bohemian	Individual		3-6 ft	11-25	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Sand	Low	No	0			on sandbar, by rooftop, pond	6/15/2006	10:45:18am	
CCNWCBC	annan bowly	NAD 83 North Plane 4601 Feet	LBR0762	Bohemian	Individual		<3 ft	1	Pre-bloom	Large Woody Debris	Inventory	None	None	None			Vegetated or LWD	Low	No	0			on submergump, frag in wate	6/15/2006	10:48:17am	
CCNWCBC	annan bowly	NAD 83 North Plane 4601 Feet	LBR0763	Bohemian	Individual		3-6 ft	6-10	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Sand	Low	No	0			on bank, down by river	6/15/2006	10:50:21am	
CCNWCBC	annan bowly	NAD 83 North Plane 4601 Feet	LBR0764	Bohemian	Individual		<3 ft	2-5	Pre-bloom	Riparian - Gravelbar	Inventory	None	None	None			Sand	Low	No	0			in water, in mud	6/15/2006	10:52:51am	
CCNWCBC	annan bowly	NAD 83 North Plane 4601 Feet	LBR0765	Bohemian	Individual		<3 ft	2-5	Pre-bloom	Riparian - Gravelbar	Inventory	None	None	None			Vegetated or LWD	Low	No	0			ingrassbank,onmud,inwater	6/15/2006	10:55:15am	
CCNWCBC	annan bowly	NAD 83 North Plane 4601 Feet	LBR0766	Bohemian	Individual		<3 ft	2-5	Pre-bloom	Large Woody Debris	Inventory	None	None	None			Vegetated or LWD	Low	No	0			inwater,onrooftop	6/15/2006	10:58:20am	
CCNWCBC	annan bowly	NAD 83 North Plane 4601 Feet	LBR0767	Bohemian	Individual		<3 ft	1	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Vegetated or LWD	Low	No	0			on moss	6/15/2006	11:01:06am	
CCNWCBC	annan bowly	NAD 83 North Plane 4601 Feet	LBR0768	Bohemian	Individual		3-6 ft	6-10	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Sand	Low	No	0			underbranches	6/15/2006	11:06:43am	
CCNWCBC	annan bowly	NAD 83 North Plane 4601 Feet	LBR0769	Bohemian	Individual		3-6 ft	11-25	Pre-bloom	Riparian - Gravelbar	Inventory	None	None	None			Vegetated or LWD	Low	No	0			in grass, some up top	6/15/2006	11:08:59am	
CCNWCBC	annan bowly	NAD 83 North Plane 4601 Feet	LBR0770	Bohemian	Individual		<3 ft	2-5	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Vegetated or LWD	Low	No	0			on grass, in water	6/15/2006	11:11:19am	
CCNWCBC	annan bowly	NAD 83 North Plane 4601 Feet	LBR0771	Bohemian	Individual		<3 ft	1	Pre-bloom	Large Woody Debris	Inventory	None	None	None			Vegetated or LWD	Low	No	0			on bundle of sticks	6/15/2006	11:13:27am	
CCNWCBC	annan bowly	NAD 83 North Plane 4601 Feet	LBR0772	Bohemian	Fragment		3-6 ft	6-10	Pre-bloom	Large Woody Debris	Inventory	None	None	None			Vegetated or LWD	Low	No	0			in water	6/15/2006	11:15:38am	
CCNWCBC	annan bowly	NAD 83 North Plane 4601 Feet	LBR0773	Bohemian	Fragment		3-6 ft	2-5	Pre-bloom	Large Woody Debris	Inventory	None	None	None			Vegetated or LWD	Low	No	0			in water by log jam	6/15/2006	11:21:35am	
CCNWCBC	Carol	NAD 83 North Plane 4601 Feet	LBR0601	Bohemian	Group		<3 ft	2-5	Pre-bloom	Roadside	Inventory	None	None	None			Organic/Clay	Low	No	0			tr rv w/vg	6/16/2006	11:02:36am	
CCNWCBC	Carol	NAD 83 North Plane 4601 Feet	LBR0602	Bohemian	Clump		<3 ft	6-10	Pre-bloom	Roadside	Inventory	None	None	None			Organic/Clay	Low	No	0			tr rv	6/16/2006	11:10:00am	
CCNWCBC	Carol	NAD 83 North Plane 4601 Feet	LBR0603	Bohemian	Group		<3 ft	6-10	Pre-bloom	Riparian-Other	Inventory	None	None	None			Organic/Clay	Low	No	0			tr rv	6/16/2006	11:13:27am	
CCNWCBC	ross mcdormar	NAD 83 North Plane 4601 Feet	LBR0601	Bohemian	Individual		3-6 ft	51-100	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Organic/Clay	High	No	0			1?	6/4/2006	02:41:58pm	
CCNWCBC	ross mcdormar	NAD 83 North Plane 4601 Feet	LBR0602	Bohemian	Clump		>6 ft	26-50	Pre-bloom	Ripar-Floodplain	Inventory	None	None	None			Vegetated or LWD	Low	No	0			up into woods	6/4/2006	02:45:57pm	
CCNWCBC	ross mcdormar	NAD 83 North Plane 4601 Feet	LBR0603	Bohemian	Individual		3-6 ft	6-10	Pre-bloom	Large Woody Debris	Inventory	None	None	None			Vegetated or LWD	High	No	0			on bank as well	6/4/2006	02:49:46pm	
CCNWCBC	ross mcdormar	NAD 83 North Plane 4601 Feet	LBR0604	Bohemian	Clump		3-6 ft	51-100	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Organic/Clay	Medium	No	0			poor satellites	6/4/2006	02:54:07pm	
CCNWCBC	ross mcdormar	NAD 83 North Plane 4601 Feet	LBR0605	Bohemian	Clump		3-6 ft	101-200	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Organic/Clay	Medium	No	0			in water&wd	6/4/2006	02:58:53pm	
CCNWCBC	ross mcdormar	NAD 83 North Plane 4601 Feet	LBR0606	Bohemian	Individual		3-6 ft	26-50	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Organic/Clay	Medium	No	0			in lwd and in water	6/4/2006	03:02:19pm	
CCNWCBC	ross mcdormar	NAD 83 North Plane 4601 Feet	LBR0607	Bohemian	Group		<3 ft	6-10	Pre-bloom	Field/Pasture	Inventory	None	None	None			Vegetated or LWD	Low	No	0			1	5/28/2006	01:24:32pm	
CCNWCBC	ross mcdormar	NAD 83 North Plane 4601 Feet	LBR0608	Bohemian	Group		>6 ft	26-50	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Sand									

AGENCY	COLLECTOR	DATURN	SITE ID	SPECIES	CLUSTER	TV	AVER	STEM C	PHENOLOG	SITE TYPE	ACTION	HERBICIDE	SURFACTANT	TREATMENT	OWNERSHIP	CANOPY	SUBSTRATE	PLNT	ERODE	HIGH	AREA	UNIT	COMMENTS	DATE	YMD	TIME
CCNWCB	ross mcdormar	NAD 83 North Plane 4601 Feet	LBR0631	Bohemian	Individual		<3 ft	11-25	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	cb		Sand	Low	No	0		1	far bank	5/29/2006	10:43:02am	
CCNWCB	ross mcdormar	NAD 83 North Plane 4601 Feet	LBR0632	Bohemian	Individual		<3 ft	6-10	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	cb		Sand	Low	No	0		1		5/29/2006	10:46:58am	
CCNWCB	ross mcdormar	NAD 83 North Plane 4601 Feet	LBR0633	Bohemian	Individual		<3 ft	51-100	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	cb		Sand	Low	No	0		1	1 kw damage other damage	5/29/2006	10:49:45am	
CCNWCB	ross mcdormar	NAD 83 North Plane 4601 Feet	LBR0634	Bohemian	Individual		3-6 ft	101-200	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	cb		Vegetated or LWD	High	No	0		1	some kw damage	5/29/2006	10:54:38am	
CCNWCB	ross mcdormar	NAD 83 North Plane 4601 Feet	LBR0635	Bohemian	Individual		<3 ft	11-25	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	cb		Sand	Medium	No	0		1		5/29/2006	10:58:37am	
CCNWCB	ross mcdormar	NAD 83 North Plane 4601 Feet	LBR0636	Bohemian	Individual		<3 ft	11-25	Pre-bloom	Large Woody Debris	Inventory	None	None	None	cb		Vegetated or LWD	Medium	No	0		1	in river	5/29/2006	11:01:37am	
CCNWCB	ross mcdormar	NAD 83 North Plane 4601 Feet	LBR0637	Bohemian	Individual		<3 ft	6-10	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	cb		Sand	Medium	No	0		1		5/29/2006	11:03:56am	
CCNWCB	ross mcdormar	NAD 83 North Plane 4601 Feet	LBR0638	Bohemian	Individual		<3 ft	101-200	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	cb		Fines	Medium	No	0		1	1 kw damage	5/29/2006	11:05:58am	
CCNWCB	ross mcdormar	NAD 83 North Plane 4601 Feet	LBR0639	Bohemian	Individual		>6 ft	>200	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	cb		Vegetated or LWD	Medium	No	0		1	kw&native damage	5/29/2006	11:08:27am	
CCNWCB	ross mcdormar	NAD 83 North Plane 4601 Feet	LBR0640	Bohemian	Individual		<3 ft	2-5	Pre-bloom	Large Woody Debris	Inventory	None	None	None	cb		Vegetated or LWD	Low	No	0		1	log jam	5/29/2006	11:10:59am	
CCNWCB	ross mcdormar	NAD 83 North Plane 4601 Feet	LBR0641	Bohemian	Individual		3-6 ft	>200	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	cb		Fines	Low	No	0		1	1 kw damage look in woods y	5/29/2006	11:13:58am	
CCNWCB	ross mcdormar	NAD 83 North Plane 4601 Feet	LBR0642	Bohemian	Individual		<3 ft	6-10	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	cb		Vegetated or LWD	Low	No	0		1		5/29/2006	11:17:38am	
CCNWCB	ross mcdormar	NAD 83 North Plane 4601 Feet	LBR0643	Bohemian	Individual		<3 ft	6-10	Pre-bloom	Large Woody Debris	Inventory	None	None	None	cb		Vegetated or LWD	Medium	No	0		1		5/29/2006	11:19:26am	
CCNWCB	ross mcdormar	NAD 83 North Plane 4601 Feet	LBR0644	Bohemian	Individual		3-6 ft	26-50	Pre-bloom	Ripar-Floodplain	Inventory	None	None	None	cb		Vegetated or LWD	Low	No	0		1	on high bank	5/29/2006	11:21:59am	
CCNWCB	ross mcdormar	NAD 83 North Plane 4601 Feet	LBR0645	Bohemian	Individual		<3 ft	2-5	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	cb		Fines	Low	No	0		1	under tree	5/29/2006	11:26:11am	
CCNWCB	ross mcdormar	NAD 83 North Plane 4601 Feet	LBR0646	Bohemian	Group		<3 ft	26-50	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	cb		Fines	Low	No	0		1		5/29/2006	11:29:20am	
CCNWCB	ross mcdormar	NAD 83 North Plane 4601 Feet	LBR0647	Bohemian	Individual		3-6 ft	101-200	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	cb		Fines	Medium	No	0		1	1 kw damage	5/29/2006	11:32:43am	
CCNWCB	ross mcdormar	NAD 83 North Plane 4601 Feet	LBR0648	Bohemian	Individual		<3 ft	6-10	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	cb		Vegetated or LWD	Low	No	0		1	in reedsy	5/29/2006	11:34:18am	
CCNWCB	ross mcdormar	NAD 83 North Plane 4601 Feet	LBR0649	Bohemian	Individual		<3 ft	2-5	Pre-bloom	Riparian - Gravelbar	Inventory	None	None	None	cb		Fines	Low	No	0		1	in river	5/29/2006	11:37:49am	
CCNWCB	ross mcdormar	NAD 83 North Plane 4601 Feet	LBR0650	Bohemian	Individual		3-6 ft	2-5	Pre-bloom	Ripar-Floodplain	Inventory	None	None	None	cb		Vegetated or LWD	Low	No	0		1		5/29/2006	11:41:27am	
CCNWCB	ross mcdormar	NAD 83 North Plane 4601 Feet	LBR0651	Bohemian	Individual		<3 ft	26-50	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	cb		Fines	Medium	No	0		1		5/29/2006	11:43:16am	
CCNWCB	ross mcdormar	NAD 83 North Plane 4601 Feet	LBR0652	Bohemian	Clump		>6 ft	2-5	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	cb		Vegetated or LWD	Low	No	0		1	?	5/29/2006	12:42:53pm	
CCNWCB	ross mcdormar	NAD 83 North Plane 4601 Feet	LBR0653	Bohemian	Individual		3-6 ft	6-10	Pre-bloom	Ripar-Floodplain	Inventory	None	None	None	cb		Vegetated or LWD	Low	No	0		1	?	in woods & reeds	5/29/2006	12:45:11pm
CCNWCB	ross mcdormar	NAD 83 North Plane 4601 Feet	LBR0654	Bohemian	Individual		3-6 ft	26-50	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	cb		Vegetated or LWD	Medium	No	0		1	?	5/29/2006	12:47:51pm	
CCNWCB	ross mcdormar	NAD 83 North Plane 4601 Feet	LBR0655	Bohemian	Clump		<3 ft	11-25	Pre-bloom	Riparian - Gravelbar	Inventory	None	None	None	cb		Vegetated or LWD	Medium	No	0		1	?	5/29/2006	12:50:07pm	
CCNWCB	ross mcdormar	NAD 83 North Plane 4601 Feet	LBR0656	Bohemian	Individual		3-6 ft	26-50	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	cb		Fines	Medium	No	0		1	?	5/29/2006	12:52:59pm	
CCNWCB	ross mcdormar	NAD 83 North Plane 4601 Feet	LBR0657	Bohemian	Individual		<3 ft	11-25	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	cb		Vegetated or LWD	Low	No	0		1	?	5/29/2006	12:56:30pm	
CCNWCB	ross mcdormar	NAD 83 North Plane 4601 Feet	LBR0658	Bohemian	Individual		3-6 ft	>200	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	cb		Sand	Medium	No	0		1	?	5/29/2006	01:01:29pm	
CCNWCB	ross mcdormar	NAD 83 North Plane 4601 Feet	LBR0659	Bohemian	Individual		3-6 ft	101-200	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	cb		Sand	Medium	No	0		1	?	5/29/2006	01:06:21pm	
CCNWCB	ross mcdormar	NAD 83 North Plane 4601 Feet	LBR0660	Bohemian	Clump		3-6 ft	101-200	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	cb		Sand	Medium	No	0		1	?	5/29/2006	01:10:00pm	
CCNWCB	ross mcdormar	NAD 83 North Plane 4601 Feet	LBR0661	Bohemian	Individual		<3 ft	2-5	Pre-bloom	Large Woody Debris	Inventory	None	None	None	cb		Vegetated or LWD	Medium	No	0		1	?	in root system	5/29/2006	01:13:52pm
CCNWCB	ross mcdormar	NAD 83 North Plane 4601 Feet	LBR0662	Bohemian	Individual		<3 ft	11-25	Pre-bloom	Large Woody Debris	Inventory	None	None	None	cb		Vegetated or LWD	Medium	No	0		1	1 w/ d & on bank	5/29/2006	01:20:14pm	
CCNWCB	ross mcdormar	NAD 83 North Plane 4601 Feet	LBR0663	Bohemian	Clump		3-6 ft	51-100	Pre-bloom	Riparian - Gravelbar	Inventory	None	None	None	cb		Fines	Medium	No	0		1	on island	5/29/2006	01:24:01pm	
CCNWCB	ross mcdormar	NAD 83 North Plane 4601 Feet	LBR0664	Bohemian	Clump		3-6 ft	101-200	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	cb		Organic/Clay	Medium	No	0		1	1 grt l br & bank	5/29/2006	01:26:46pm	
CCNWCB	ross mcdormar	NAD 83 North Plane 4601 Feet	LBR0665	Bohemian	Clump		<3 ft	>200	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	cb		Fines	Medium	No	0		1	into woods	5/29/2006	01:29:37pm	
CCNWCB	ross mcdormar	NAD 83 North Plane 4601 Feet	LBR0666	Bohemian	Individual		<3 ft	101-200	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	cb		Sand	Medium	No	0		1	into woods	5/29/2006	01:33:06pm	
CCNWCB	ross mcdormar	NAD 83 North Plane 4601 Feet	LBR0667	Bohemian	Clump		3-6 ft	51-100	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	cb		Sand	Medium	No	0		1		5/29/2006	01:44:57pm	
CCNWCB	ross mcdormar	NAD 83 North Plane 4601 Feet	LBR0668	Bohemian	Clump		3-6 ft	11-25	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	cb		Organic/Clay	High	No	0		1		5/29/2006	01:47:52pm	
CCNWCB	ross mcdormar	NAD 83 North Plane 4601 Feet	LBR0669	Bohemian	Individual		3-6 ft	2-5	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	cb		Vegetated or LWD	Medium	No	0		1		5/29/2006	01:55:02pm	
CCNWCB	ross mcdormar	NAD 83 North Plane 4601 Feet	LBR0670	Bohemian	Individual		3-6 ft	11-25	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	cb		Gravel	Medium	No	0		1		5/29/2006	01:59:25pm	
CCNWCB	ross mcdormar	NAD 83 North Plane 4601 Feet	LBR0671	Bohemian	Clump		3-6 ft	51-100	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	cb		Vegetated or LWD	High	No	0		1	1 kw damage	5/29/2006	02:01:12pm	
CCNWCB	ross mcdormar	NAD 83 North Plane 4601 Feet	LBR0672	Bohemian	Clump		3-6 ft	>200	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	cb		Sand	Medium	No	0		1	1 kw damage	5/29/2006	02:03:51pm	
CCNWCB	ross mcdormar	NAD 83 North Plane 4601 Feet	LBR0673	Bohemian	Individual		<3 ft	11-25	Pre-bloom	Large Woody Debris	Inventory	None	None	None	cb		Vegetated or LWD	High	No	0		1	1 kw damage	5/29/2006	02:06:54pm	
CCNWCB	ross mcdormar	NAD 83 North Plane 4601 Feet	LBR0674	Bohemian	Clump		3-6 ft	26-50	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	cb		Sand	Medium	No	0		1	1 kw damage	5/29/2006	02:10:29pm	
CCNWCB	ross mcdormar	NAD 83 North Plane 4601 Feet	LBR0675	Bohemian	Individual		3-6 ft	6-10	Pre-bloom	Field/Pasture	Inventory	None	None	None	cb		Vegetated or LWD	Low	No	0		1	1 at edge of clearing	5/29/2006	02:14:03pm	
CCNWCB	ross mcdormar	NAD 83 North Plane 4601 Feet	LBR0676	Bohemian	Clump		3-6 ft	11-25	Pre-bloom	Ripar-Floodplain	Inventory	None	None	None	cb		Vegetated or LWD	Low	No	0		1	?	in woods	5/29/2006	02:22:21pm
CCNWCB	ross mcdormar	NAD 83 North Plane 4601 Feet	LBR0677	Bohemian	Group		>6 ft	26-50	Pre-bloom	Ripar-Floodplain	Inventory	None	None	None	cb		Vegetated or LWD	Low	No	0		1	?	in woods	5/29/2006	02:25:04pm
CCNWCB	ross mcdormar	NAD 83 North Plane 4601 Feet	LBR0678	Bohemian	Clump		3-6 ft	26-50	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	cb		Vegetated or LWD	Medium	No	0		1		5/29/2006	02:27:49pm	
CCNWCB	ross mcdormar	NAD 83 North Plane 4601 Feet	LBR0679	Bohemian	Individual		3-6 ft	6-10	Pre-bloom	Large Woody Debris	Inventory	None	None	None	cb		Vegetated or LWD	High	No	0		1	1 in river	5/29/2006	02:30:19pm	
CCNWCB	ross mcdormar	NAD 83 North Plane 4601 Feet	LBR0680	Bohemian	Individual		3-6 ft	2-5	Pre-bloom	Ripar-Floodplain	Inventory	None	None	None	cb		Vegetated or LWD	Low	No	0		1	?	5/29/2006	02:35:04pm	
CCNWCB	ross mcdormar	NAD 83 North Plane 4601 Feet	LBR0681	Bohemian	Clump		3-6 ft	26-50	Pre-bloom																	

AGENCY	COLLECTOR	DATURN	SITE ID	SPECIES	CLUSTER	TV	AVER	STEM C	PHENOLOG	SITE TYPE	ACTION	HERBICIDE	SURFACTANT	TREATMENT	OWNERSHIP	CANOPY	SUBSTRATE	PLNT	ERODE	HIGH	AREA	UNIT	COMMENTS	DATE	YMD	TIME
CCNWCB	ross mcdormar	NAD 83 North Plane 4601 Feet	LBR0710	Bohemian	Clump		>6 ft	51-100	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	None	None	Vegetated or LWD	Medium	No	0	0	1		6/4/2006	11:15:01am	
CCNWCB	ross mcdormar	NAD 83 North Plane 4601 Feet	LBR0711	Bohemian	Clump		>6 ft	51-100	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	None	None	Vegetated or LWD	Medium	No	0	0		in berries too	6/4/2006	11:19:18am	
CCNWCB	ross mcdormar	NAD 83 North Plane 4601 Feet	LBR0712	Bohemian	Group		>6 ft	>200	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	None	None	Vegetated or LWD	Low	No	0	0			6/4/2006	11:22:40am	
CCNWCB	ross mcdormar	NAD 83 North Plane 4601 Feet	LBR0713	Bohemian	Clump		>6 ft	>200	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	None	None	Vegetated or LWD	Low	No	0	0		on lwd to beaver damage	6/4/2006	11:25:07am	
CCNWCB	ross mcdormar	NAD 83 North Plane 4601 Feet	LBR0714	Bohemian	Group		>6 ft	>200	Pre-bloom	Ripar-Floodplain	Inventory	None	None	None	None	None	Vegetated or LWD	Low	No	0	0			6/4/2006	11:29:39am	
CCNWCB	ross mcdormar	NAD 83 North Plane 4601 Feet	LBR0715	Bohemian	Group		>6 ft	>200	Pre-bloom	Ripar-Floodplain	Inventory	None	None	None	None	None	Vegetated or LWD	Low	No	0	0			6/4/2006	11:33:18am	
CCNWCB	ross mcdormar	NAD 83 North Plane 4601 Feet	LBR0716	Bohemian	Group		>6 ft	>200	Pre-bloom	Ripar-Floodplain	Inventory	None	None	None	None	None	Vegetated or LWD	Medium	No	0	0			6/4/2006	11:36:16am	
CCNWCB	ross mcdormar	NAD 83 North Plane 4601 Feet	LBR0717	Bohemian	Individual		3-6 ft	11-25	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	None	None	Vegetated or LWD	Medium	No	0	0			6/4/2006	11:45:52am	
CCNWCB	ross mcdormar	NAD 83 North Plane 4601 Feet	LBR0718	Bohemian	Clump		>6 ft	11-25	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	None	None	Vegetated or LWD	Low	No	0	0		beaver activity	6/4/2006	12:01:42pm	
CCNWCB	ross mcdormar	NAD 83 North Plane 4601 Feet	LBR0719	Bohemian	Group		>6 ft	>200	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	None	None	Sand	Medium	Yes	0	0		1 in berry bushes thick	6/4/2006	12:04:32pm	
CCNWCB	ross mcdormar	NAD 83 North Plane 4601 Feet	LBR0720	Bohemian	Individual		<3 ft	6-10	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	None	None	Organic/Clay	Medium	No	0	0			6/4/2006	12:10:51pm	
CCNWCB	ross mcdormar	NAD 83 North Plane 4601 Feet	LBR0721	Bohemian	Individual		>6 ft	>200	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	None	None	Organic/Clay	Medium	No	0	0			6/4/2006	12:16:05pm	
CCNWCB	ross mcdormar	NAD 83 North Plane 4601 Feet	LBR0722	Bohemian	Individual		<3 ft	26-50	Pre-bloom	Large Woody Debris	Inventory	None	None	None	None	None	Vegetated or LWD	Medium	No	0	0			6/4/2006	12:18:35pm	
CCNWCB	ross mcdormar	NAD 83 North Plane 4601 Feet	LBR0723	Bohemian	Individual		<3 ft	11-25	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	None	None	Sand	Medium	No	0	0		poor satellites	6/4/2006	12:27:39pm	
CCNWCB	ross mcdormar	NAD 83 North Plane 4601 Feet	LBR0724	Bohemian	Clump		>6 ft	101-200	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	None	None	Organic/Clay	Low	No	0	0		beavers	6/4/2006	12:37:46pm	
CCNWCB	Jake	NAD 83 North Plane 4601 Feet	LBR0601	Bohemian	Group		>6 ft	51-100	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	None	None	Sand	Medium	No	0	0		logjam by roundhouse	6/27/2006	08:29:55am	
CCNWCB	Jake	NAD 83 North Plane 4601 Feet	LBR0602	Bohemian	Clump		3-6 ft	11-25	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	None	None	Fines	Medium	No	0	0		2 on log in river	6/27/2006	08:32:05am	
CCNWCB	Jake	NAD 83 North Plane 4601 Feet	LBR0603	Bohemian	Group		>6 ft	>200	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	None	None	Fines	Medium	Yes	0	0		big patch above beach	6/27/2006	08:33:56am	
CCNWCB	Jake	NAD 83 North Plane 4601 Feet	LBR0604	Bohemian	Group		>6 ft	101-200	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	None	None	Sand	Low	No	0	0		way back on floodplain	6/27/2006	08:36:13am	
CCNWCB	Jake	NAD 83 North Plane 4601 Feet	LBR0605	Bohemian	Clump		3-6 ft	11-25	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	None	None	Sand	Low	No	0	0		on beach	6/27/2006	08:37:47am	
CCNWCB	Jake	NAD 83 North Plane 4601 Feet	LBR0606	Bohemian	Individual		>6 ft	1	Pre-bloom	Ripar-Floodplain	Inventory	None	None	None	None	None	Fines	Low	No	0	0		one on tall bank	6/27/2006	08:42:20am	
CCNWCB	Jake	NAD 83 North Plane 4601 Feet	LBR0607	Bohemian	Clump		3-6 ft	6-10	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	None	None	Sand	Low	No	0	0		behind rootwad	6/27/2006	08:44:02am	
CCNWCB	Jake	NAD 83 North Plane 4601 Feet	LBR0608	Bohemian	Individual		3-6 ft	2-5	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	None	None	Sand	Low	No	0	0		back in tall grass	6/27/2006	08:45:39am	
CCNWCB	Jake	NAD 83 North Plane 4601 Feet	LBR0609	Bohemian	Individual		3-6 ft	2-5	Pre-bloom	Riparian - Gravelbar	Inventory	None	None	None	None	None	Sand	Low	No	0	0		under spruce	6/27/2006	08:47:37am	
CCNWCB	Jake	NAD 83 North Plane 4601 Feet	LBR0610	Bohemian	Individual		<3 ft	2-5	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	None	None	Sand	Low	No	0	0		by spruce	6/27/2006	08:49:14am	
CCNWCB	Jake	NAD 83 North Plane 4601 Feet	LBR0611	Bohemian	Individual		3-6 ft	26-50	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	None	None	Fines	Low	No	0	0		spread out in tall grass	6/27/2006	08:50:36am	
CCNWCB	Jake	NAD 83 North Plane 4601 Feet	LBR0612	Bohemian	Group		3-6 ft	51-100	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	None	None	Fines	Low	No	0	0		back on floodplain	6/27/2006	08:51:59am	
CCNWCB	Jake	NAD 83 North Plane 4601 Feet	LBR0613	Bohemian	Individual		3-6 ft	26-50	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	None	None	Sand	Low	No	0	0		under logjam	6/27/2006	08:53:23am	
CCNWCB	Jake	NAD 83 North Plane 4601 Feet	LBR0614	Bohemian	Clump		3-6 ft	26-50	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	None	None	Sand	Low	No	0	0		beside logjam	6/27/2006	08:56:06am	
CCNWCB	Jake	NAD 83 North Plane 4601 Feet	LBR0615	Bohemian	Group		3-6 ft	101-200	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	None	None	Sand	Low	Yes	0	0		start of big patch	6/27/2006	08:58:58am	
CCNWCB	Jake	NAD 83 North Plane 4601 Feet	LBR0616	Bohemian	Group		>6 ft	>200	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	None	None	Sand	Low	No	0	0		river & 50 feet back on floodp	6/27/2006	09:00:22am	
CCNWCB	Jake	NAD 83 North Plane 4601 Feet	LBR0617	Bohemian	Group		>6 ft	>200	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	None	None	Sand	Low	No	0	0		way back	6/27/2006	09:02:57am	
CCNWCB	Jake	NAD 83 North Plane 4601 Feet	LBR0618	Bohemian	Group		3-6 ft	101-200	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	None	None	Sand	Low	No	0	0		end of patch,check river	6/27/2006	09:05:12am	
CCNWCB	Jake	NAD 83 North Plane 4601 Feet	LBR0619	Bohemian	Individual		3-6 ft	6-10	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	None	None	Sand	Low	No	0	0		small clump	6/27/2006	09:06:38am	
CCNWCB	Jake	NAD 83 North Plane 4601 Feet	LBR0620	Bohemian	Group		3-6 ft	101-200	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	None	None	Sand	Low	No	0	0		15 in thimble berries	6/27/2006	09:10:24am	
CCNWCB	Jake	NAD 83 North Plane 4601 Feet	LBR0621	Bohemian	Group		>6 ft	>200	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	None	None	Fines	Low	Yes	0	0		huge!	6/27/2006	09:12:50am	
CCNWCB	Jake	NAD 83 North Plane 4601 Feet	LBR0622	Bohemian	Group		>6 ft	>200	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	None	None	Sand	Low	Yes	0	0		thousands	6/27/2006	09:14:10am	
CCNWCB	Jake	NAD 83 North Plane 4601 Feet	LBR0623	Bohemian	Individual		3-6 ft	11-25	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	None	None	Sand	Low	No	0	0		end patch	6/27/2006	09:15:28am	
CCNWCB	Jake	NAD 83 North Plane 4601 Feet	LBR0624	Bohemian	Individual		>6 ft	26-50	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	None	None	Sand	Low	No	0	0		knottweed damage	6/27/2006	09:17:07am	
CCNWCB	Jake	NAD 83 North Plane 4601 Feet	LBR0625	Bohemian	Individual		3-6 ft	11-25	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	None	None	Sand	Low	No	0	0		beaver damage	6/27/2006	09:19:27am	
CCNWCB	Jake	NAD 83 North Plane 4601 Feet	LBR0626	Bohemian	Group		>6 ft	51-100	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	None	None	Sand	Medium	No	0	0		annan's swimming hole	6/27/2006	09:21:22am	
CCNWCB	Jake	NAD 83 North Plane 4601 Feet	LBR0627	Bohemian	Clump		3-6 ft	51-100	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	None	None	Fines	Low	No	0	0		met up with annan	6/27/2006	09:23:04am	
CCNWCB	akb	NAD 83 North Plane 4601 Feet	LBR0628	Bohemian	Fragment		<3 ft	6-10	Pre-bloom	Large Woody Debris	Inventory	None	None	None	None	None	Vegetated or LWD	Low	No	0	0		fragments in water	6/27/2006	10:32:48am	
CCNWCB	akb	NAD 83 North Plane 4601 Feet	LBR0629	Bohemian	Individual		<3 ft	6-10	Pre-bloom	Large Woody Debris	Inventory	None	None	None	None	None	Sand	Low	No	0	0		on beach in dry sticks	6/27/2006	10:34:57am	
CCNWCB	akb	NAD 83 North Plane 4601 Feet	LBR0630	Bohemian	Individual		3-6 ft	6-10	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	None	None	Vegetated or LWD	Low	No	0	0		in high grass	6/27/2006	10:37:50am	
CCNWCB	akb	NAD 83 North Plane 4601 Feet	LBR0631	Bohemian	Individual		<3 ft	2-5	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	None	None	Organic/Clay	Low	No	0	0		up on mud bank	6/27/2006	10:40:03am	
CCNWCB	akb	NAD 83 North Plane 4601 Feet	LBR0635	Bohemian	Individual		<3 ft	1	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	None	None	Organic/Clay	Low	No	0	0		on bank	6/27/2006	10:56:33am	
CCNWCB	akb	NAD 83 North Plane 4601 Feet	LBR0636	Bohemian	Individual		<3 ft	1	Pre-bloom	Large Woody Debris	Inventory	None	None	None	None	None	Vegetated or LWD	Low	No	0	0		on root wad	6/27/2006	10:59:34am	
CCNWCB	akb	NAD 83 North Plane 4601 Feet	LBR0637	Bohemian	Clump		<3 ft	11-25	Pre-bloom	Large Woody Debris	Inventory	None	None	None	None	None	Vegetated or LWD	Low	No	0	0		on beaver damage	6/27/2006	11:02:58am	
CCNWCB	Jake	NAD 83 North Plane 4601 Feet	LBR0601	Bohemian	Group		3-6 ft	51-100	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	None	None	Sand	Low	No	0	0		after log crossing	6/19/2006	01:27:37pm	
CCNWCB	Jake	NAD 83 North Plane 4601 Feet	LBR0602	Bohemian	Individual		3-6 ft	6-10	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None												

AGENCY	COLLECTOR	DATURN	SITE ID	SPECIES	CLUSTER	TV	AVER	STEM C	PHENOLOG	SITE TYPE	ACTION	HERBICIDE	SURFACTANT	TREATMENT	OWNERSHIP	CANOPY	SUBSTRATE	PLNT	ERODE	HIGH	AREA	UNIT	COMMENTS	DATE	YMD	TIME
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0638	Bohemian	Individual		<3 ft	1	Pre-bloom	Ripar-Floodplain	Inventory	None	None	None			Fines	Low	No	0			on trail	6/21/2006	10:15:36am	
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0639	Bohemian	Individual		<3 ft	1	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Sand	Low	No	0			open point	6/21/2006	10:27:56am	
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0640	Bohemian	Individual		<3 ft	6-10	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Sand	Low	No	0			logjam	6/21/2006	03:00:07pm	
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0641	Bohemian	Individual		<3 ft	6-10	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Sand	Low	No	0			flagging	6/21/2006	03:03:55pm	
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0642	Bohemian	Individual		<3 ft	2-5	Pre-bloom	Riparian - Gravelbar	Inventory	None	None	None			Sand	Medium	No	0			2 in mud by river	6/21/2006	03:07:03pm	
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0643	Bohemian	Individual		3-6 ft	6-10	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Sand	Low	No	0			tall grass along trail	6/21/2006	03:50:16pm	
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0644	Bohemian	Individual		<3 ft	6-10	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Sand	Low	No	0			from boat	6/22/2006	10:35:55am	
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0645	Bohemian	Individual		<3 ft	1	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Organic/Clay	Low	No	0			under alder	6/22/2006	10:40:10am	
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0646	Bohemian	Individual		<3 ft	1	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Sand	Low	No	0			some fragments	6/22/2006	10:47:34am	
CCNWC	akb	NAD 83 North Plane 4601 Feet	LBR0647	Bohemian	Individual		<3 ft	2-5	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Vegetated or LWD	Low	No	0			follow tape from river	6/22/2006	02:00:57pm	
CCNWC	akb	NAD 83 North Plane 4601 Feet	LBR0648	Bohemian	Individual		<3 ft	1	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Organic/Clay	Low	No	0			follow tape	6/22/2006	02:05:31pm	
CCNWC	akb	NAD 83 North Plane 4601 Feet	LBR0649	Bohemian	Individual		<3 ft	1	Pre-bloom	Ripar-Floodplain	Inventory	None	None	None			Organic/Clay	Low	No	0			follow tape	6/22/2006	02:10:22pm	
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0650	Bohemian	Individual		3-6 ft	6-10	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Sand	Low	No	0					6/10/2006	09:50:48am
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0651	Bohemian	Individual		3-6 ft	6-10	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Sand	Low	No	0			one up on bank	6/10/2006	10:00:48am	
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0652	Bohemian	Individual		<3 ft	6-10	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Sand	High	No	0					6/10/2006	10:05:39am
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0653	Bohemian	Individual		<3 ft	6-10	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Sand	Medium	No	0			remarked east side of river	6/10/2006	10:07:43am	
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0654	Bohemian	Individual		3-6 ft	11-25	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Sand	Medium	No	0			back channel	6/10/2006	10:11:09am	
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0655	Bohemian	Individual		3-6 ft	11-25	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Sand	High	No	0					6/10/2006	10:13:41am
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0656	Bohemian	Group		>6 ft	>200	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Sand	Low	Yes	0			thousands, part of larger patch	6/11/2006	08:55:06am	
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0657	Bohemian	Clump		<3 ft	11-25	Pre-bloom	Large Woody Debris	Inventory	None	None	None			Vegetated or LWD	High	No	0			middle of river	6/11/2006	08:58:34am	
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0658	Bohemian	Clump		3-6 ft	26-50	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Organic/Clay	High	No	0			high on bank	6/11/2006	09:00:29am	
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0659	Bohemian	Clump		<3 ft	11-25	Pre-bloom	Riparian - Gravelbar	Inventory	None	None	None			Sand	Medium	No	0			middle of river	6/11/2006	09:03:40am	
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0660	Bohemian	Group		>6 ft	51-100	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Organic/Clay	Medium	No	0			one far back, start larger patch	6/11/2006	09:05:49am	
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0661	Bohemian	Group		>6 ft	>200	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Sand	Low	Yes	0			part of larger patch	6/11/2006	09:08:30am	
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0662	Bohemian	Group		>6 ft	>200	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Sand	Low	Yes	0			part of giant patch	6/11/2006	09:11:57am	
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0663	Bohemian	Clump		3-6 ft	26-50	Pre-bloom	Riparian - Gravelbar	Inventory	None	None	None			Sand	Medium	No	0			many on sandbar	6/11/2006	09:14:22am	
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0664	Bohemian	Individual		3-6 ft	11-25	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Sand	Medium	No	0			bank and log	6/11/2006	09:16:38am	
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0665	Bohemian	Individual		<3 ft	11-25	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Sand	Low	No	0			some under water	6/11/2006	09:18:19am	
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0666	Bohemian	Individual		3-6 ft	1	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Sand	Medium	No	0			loner	6/11/2006	09:20:29am	
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0667	Bohemian	Group		3-6 ft	6-10	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Sand	Low	No	0			some on river	6/11/2006	09:23:04am	
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0668	Bohemian	Group		3-6 ft	6-10	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Sand	Low	No	0			beaver damage	6/11/2006	09:25:03am	
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0669	Bohemian	Individual		<3 ft	2-5	Pre-bloom	Ripar-Floodplain	Inventory	None	None	None			Sand	Low	No	0			behind stump	6/11/2006	09:26:58am	
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0670	Bohemian	Clump		3-6 ft	6-10	Pre-bloom	Riparian-Other	Inventory	None	None	None			Sand	Medium	No	0			in river by beaver damage	6/11/2006	09:30:20am	
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0671	Bohemian	Clump		3-6 ft	26-50	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Sand	Medium	No	0			start of creek	6/11/2006	09:32:45am	
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0672	Bohemian	Group		3-6 ft	26-50	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Sand	Low	No	0			hidden in grass, start of creek	6/11/2006	09:35:51am	
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0673	Bohemian	Group		3-6 ft	26-50	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Organic/Clay	Low	No	0			10 yards up creek in high grass	6/11/2006	09:38:48am	
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0674	Bohemian	Clump		3-6 ft	26-50	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Organic/Clay	Low	No	0			30 yards up creek	6/11/2006	09:41:44am	
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0675	Bohemian	Group		3-6 ft	51-100	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Sand	Low	No	0			start big patch on creek	6/11/2006	09:44:45am	
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0676	Bohemian	Group		3-6 ft	51-100	Pre-bloom	Ripar-Floodplain	Inventory	None	None	None			Organic/Clay	Low	No	0			middle of big patch	6/11/2006	09:46:58am	
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0677	Bohemian	Group		3-6 ft	51-100	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Sand	High	No	0			exposed roots along creek	6/11/2006	09:49:38am	
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0678	Bohemian	Group		3-6 ft	51-100	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Sand	Low	No	0			more along creek	6/11/2006	09:51:14am	
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0679	Bohemian	Group		3-6 ft	51-100	Pre-bloom	Ripar-Floodplain	Inventory	None	None	None			Organic/Clay	Low	No	0			back from creek	6/11/2006	09:53:11am	
CCNWC	ross mcdorman	NAD 83 North Plane 4601 Feet	LBR0680	Bohemian	Group		3-6 ft	26-50	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Fines	Medium	No	0			near island	6/11/2006	09:56:02am	
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0681	Bohemian	Group		3-6 ft	26-50	Pre-bloom	Ripar-Floodplain	Inventory	None	None	None			Fines	Medium	No	0			hidden in grass	6/11/2006	09:57:47am	
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0682	Bohemian	Clump		3-6 ft	6-10	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Fines	Low	No	0			in high grass close to creek	6/11/2006	10:01:13am	
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0683	Bohemian	Clump		<3 ft	6-10	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Sand	Medium	No	0			under water	6/11/2006	02:28:22pm	
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0684	Bohemian	Clump		3-6 ft	51-100	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Sand	Low	No	0			some on sandbar	6/12/2006	08:48:56am	
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0685	Bohemian	Clump		3-6 ft	26-50	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Organic/Clay	Medium	No	0			some in lwd	6/12/2006	08:51:26am	
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0686	Bohemian	Individual		<3 ft	11-25	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Sand	Low	No	0			some under water	6/12/2006	08:53:23am	
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0687	Bohemian	Group		3-6 ft	51-100	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Sand	Low	No	0			few in water	6/12/2006	08:56:51am	
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0688	Bohemian	Group		3-6 ft	26-50	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Sand	Low	No	0			some in water on lwd	6/12/2006	08:58:32am	
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0689	Bohemian	Individual		3-6 ft	11-25	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Organic/Clay	Medium	No	0			one on floodplain	6/12/2006	09:03:55am	
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0690	Bohemian	Group		3-6 ft	26-50	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Sand	Low	No	0			bunch on floodplain	6/12/2006	09:07:32am	
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0691	Bohemian	Clump		3-6 ft	11-25	Pre-bloom	Large Woody Debris	Inventory	None	None	None			Vegetated or LWD	Low	No	0			some on bank	6/12/2006	09:08:38am	
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0692	Bohemian	Clump		3-6 ft	26-50	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Sand	Low	No	0			across from trail	6/12/2006	09:10:55am	
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0693	Bohemian	Clump		<3 ft	11-25	Pre-bloom	Large Woody Debris	Inventory	None	None	None			Vegetated or LWD	Medium	No	0			on log	6/12/2006	09:13:38am	
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0694	Bohemian	Group		3-6 ft	26-50	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Sand	Low	No	0			spread out	6/12/2006	09:16:37am	
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0695	Bohemian	Individual		<3 ft	1	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Organic/Clay	Low	No	0			loner	6/12/2006	09:20:53am	
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0696	Bohemian	Group		3-6 ft	26-50	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Sand	Low	No	0			start of gig patch	6/12/2006	09:23:02am	
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0697	Bohemian	Group		>6 ft	>200	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Fines	Low	Yes	0						

AGENCY	COLLECTOR	DATURN	SITE ID	SPECIES	CLUSTER	TV	AVER	STEM C	PHENOLOG	SITE TYPE	ACTION	HERBICIDE	SURFACTANT	TREATMENT	OWNERSHIP	CANOPY	SUBSTRATE	PLNT	ERODE	HIGH	AREA	UNIT	COMMENTS	DATE	YMD	TIME
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0670	Bohemian	Group		>6 ft	>200	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	None	Sand	Sand	Low	Yes	0		break in patch	6/12/2006	11:21:58am		
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0671	Bohemian	Group		3-6 ft	51-100	Pre-bloom	Riparian - Gravelbar	Inventory	None	None	None	None	Vegetated or LWD	Sand	Medium	No	0		out from big patch	6/12/2006	11:23:23am		
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0672	Bohemian	Group		3-6 ft	51-100	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	None	Sand	Sand	Low	Yes	0		break in patch	6/12/2006	11:25:27am		
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0673	Bohemian	Group		>6 ft	>200	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	None	Sand	Sand	Low	Yes	0		tons!	6/12/2006	11:27:58am		
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0674	Bohemian	Group		>6 ft	>200	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	None	Sand	Sand	Low	Yes	0		island & back channel	6/12/2006	11:29:51am		
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0675	Bohemian	Group		3-6 ft	101-200	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	None	Sand	Sand	Medium	No	0		high on bank	6/12/2006	11:31:38am		
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0676	Bohemian	Clump		3-6 ft	11-25	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	None	Organic/Clay	Sand	Medium	No	0		whole bank on roads/edge of river	6/12/2006	02:12:05pm		
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0677	Bohemian	Clump		3-6 ft	26-50	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	None	Organic/Clay	Sand	High	No	0			6/12/2006	02:16:55pm		
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0678	Bohemian	Group		>6 ft	>200	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	None	Sand	Sand	Medium	No	0		pre-treated, knoteweed damage	6/12/2006	02:20:07pm		
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0679	Bohemian	Clump		3-6 ft	26-50	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	None	Sand	Sand	Medium	No	0		check river	6/12/2006	02:32:41pm		
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0680	Bohemian	Clump		3-6 ft	26-50	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	None	Sand	Sand	Low	No	0		knoteweed damage	6/12/2006	02:34:06pm		
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0681	Bohemian	Group		3-6 ft	26-50	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	None	Sand	Sand	Medium	No	0		knoteweed damage	6/12/2006	02:35:44pm		
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0682	Bohemian	Group		<3 ft	51-100	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	None	Sand	Sand	Low	No	0		many damage partially	6/12/2006	02:38:02pm		
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0683	Bohemian	Group		3-6 ft	51-100	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	None	Sand	Sand	Low	No	0		pre-treated area	6/12/2006	02:40:40pm		
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0684	Bohemian	Clump		3-6 ft	11-25	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	None	Sand	Sand	Low	No	0			6/12/2006	02:43:26pm		
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0685	Bohemian	Clump		<3 ft	26-50	Pre-bloom	Large Woody Debris	Inventory	None	None	None	None	Vegetated or LWD	Sand	Medium	No	0		pre-treated on log	6/12/2006	02:45:41pm		
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0686	Bohemian	Clump		3-6 ft	51-100	Pre-bloom	Riparian - Gravelbar	Inventory	None	None	None	None	Sand	Sand	Medium	No	0		near levinis water pipe	6/12/2006	02:47:57pm		
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0689	Bohemian	Group		3-6 ft	51-100	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	None	Sand	Sand	Medium	No	0			6/12/2006	09:46:46am		
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0690	Bohemian	Individual		<3 ft	1	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	None	Vegetated or LWD	Sand	Medium	No	0		near beaver hole	6/14/2006	09:50:05am		
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0691	Bohemian	Group		<3 ft	101-200	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	None	Sand	Sand	Low	No	0		water pipe	6/14/2006	09:51:47am		
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0692	Bohemian	Individual		<3 ft	2-5	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	None	Organic/Clay	Sand	Medium	No	0		across from waterpipe	6/14/2006	09:54:15am		
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0693	Bohemian	Individual		3-6 ft	6-10	Pre-bloom	Ripar-Floodplain	Inventory	None	None	None	None	Fines	Sand	Low	No	0		follow beaver trail to swamp	6/14/2006	09:57:07am		
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0694	Bohemian	Group		3-6 ft	51-100	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	None	Sand	Sand	Low	No	0			6/14/2006	10:07:07am		
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0695	Bohemian	Group		3-6 ft	51-100	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	None	Sand	Sand	High	No	0		levin uprooted many, problem!	6/14/2006	10:08:51am		
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0696	Bohemian	Group		3-6 ft	51-100	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	None	Sand	Sand	Low	No	0		old rims nearby	6/14/2006	10:12:48am		
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0697	Bohemian	Group		3-6 ft	51-100	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	None	Sand	Sand	High	No	0		more uprooted on beach!	6/14/2006	10:14:12am		
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0698	Bohemian	Individual		<3 ft	2-5	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	None	Organic/Clay	Sand	Medium	No	0		bank & submerged	6/14/2006	10:15:42am		
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0699	Bohemian	Clump		3-6 ft	26-50	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	None	Sand	Sand	Medium	No	0		beaver trail & river	6/14/2006	10:18:18am		
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0700	Bohemian	Group		3-6 ft	101-200	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	None	Sand	Sand	Low	No	0		up from levins	6/14/2006	10:20:03am		
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0701	Bohemian	Individual		<3 ft	2-5	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	None	Organic/Clay	Sand	Medium	No	0		hidden in rootwad	6/14/2006	10:21:38am		
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0702	Bohemian	Group		3-6 ft	51-100	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	None	Sand	Sand	Low	No	0		check floodplain	6/14/2006	10:24:11am		
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0703	Bohemian	Group		>6 ft	101-200	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	None	Sand	Sand	Medium	No	0		beach & bank	6/14/2006	10:27:53am		
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0704	Bohemian	Individual		<3 ft	2-5	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	None	Organic/Clay	Sand	Medium	No	0		few across from beach	6/14/2006	10:31:26am		
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0705	Bohemian	Group		>6 ft	>200	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	None	Sand	Sand	Low	Yes	0		start big patch	6/14/2006	10:32:51am		
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0706	Bohemian	Group		<3 ft	101-200	Pre-bloom	Riparian - Gravelbar	Inventory	None	None	None	None	Sand	Sand	Medium	No	0		check sandbar & all fwd	6/14/2006	10:36:28am		
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0707	Bohemian	Individual		<3 ft	6-10	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	None	Sand	Sand	Medium	No	0		behind rootw	6/14/2006	10:38:28am		
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0708	Bohemian	Individual		<3 ft	26-50	Pre-bloom	Large Woody Debris	Inventory	None	None	None	None	Vegetated or LWD	Sand	Medium	No	0		all over log jam	6/14/2006	10:40:38am		
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0709	Bohemian	Group		>6 ft	>200	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	None	Sand	Sand	Low	Yes	0		huge patch	6/14/2006	10:41:55am		
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0710	Bohemian	Individual		3-6 ft	11-25	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	None	Organic/Clay	Sand	Medium	No	0		by alder blowdown	6/14/2006	10:43:43am		
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0711	Bohemian	Clump		3-6 ft	11-25	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	None	Sand	Sand	Low	No	0		blowdown	6/14/2006	10:45:12am		
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0712	Bohemian	Clump		3-6 ft	6-10	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	None	Organic/Clay	Sand	Medium	No	0		after annan's swimming hole	6/14/2006	12:23:54pm		
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0716	Bohemian	Clump		3-6 ft	26-50	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	None	Sand	Sand	Low	No	0		Start of creek system!!!!	6/14/2006	03:25:45pm		
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0717	Bohemian	Group		<3 ft	51-100	Pre-bloom	Large Woody Debris	Inventory	None	None	None	None	Vegetated or LWD	Sand	High	No	0		many little ones on dam	6/14/2006	03:47:32pm		
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0718	Bohemian	Individual		<3 ft	2-5	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	None	Sand	Sand	Low	No	0		just down from dam	6/14/2006	03:53:33pm		
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0719	Bohemian	Clump		3-6 ft	11-25	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	None	Sand	Sand	Low	No	0		some under overhang	6/14/2006	03:56:32pm		
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0720	Bohemian	Group		>6 ft	>200	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	None	Sand	Sand	Low	Yes	0		start of big patch on corner	6/14/2006	03:59:03pm		
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0721	Bohemian	Group		>6 ft	>200	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	None	Sand	Sand	Low	No	0		thousands mixed with grass	6/14/2006	04:00:52pm		
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0722	Bohemian	Group		>6 ft	101-200	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	None	Sand	Sand	Low	No	0		end of corner patch	6/14/2006	04:04:20pm		
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0723	Bohemian	Clump		3-6 ft	26-50	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	None	Sand	Sand	Low	No	0		check beaver trail	6/14/2006	04:07:13pm		
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0724	Bohemian	Individual		<3 ft	6-10	Pre-bloom	Riparian-Other	Inventory	None	None	None	None	Sand	Sand	Low	No	0		in river	6/14/2006	04:10:51pm		
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0725	Bohemian	Clump		3-6 ft	11-25	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	None	Sand	Sand	Low	No	0		bank & floodplain	6/14/2006	04:13:58pm		
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0726	Bohemian	Group		3-6 ft	51-100	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	None	Fines	Sand	Low	No	0		10 on floodplain	6/14/2006	04:19:05pm		
CCNWC	Jake	NAD 83 North Plane 4601 Feet	LBR0727	Bohemian	Clump		3-6 ft	6-10	Pre-bloom																	

AGENCY	COLLECTOR	DATURN	SITE ID	SPECIES	CLUSTER	TV	AVER	STEM	PHENOLOG	SITE TYPE	ACTION	HERBICIDE	SURFACTANT	TREATMENT	OWNERSHIP	CANOPY	SUBSTRATE	PLNT	ERODE	HIGH	AREA	UNIT	COMMENTS	DATE	YMD	TIME
CCNWCBC	Jake	NAD 83 North Plane 4601 Feet	LBR0604	Bohemian	Individual		<3 ft	2-5	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Sand	Medium	No	0		hidden under cover	6/10/2006		10:34:57am	
CCNWCBC	Jake	NAD 83 North Plane 4601 Feet	LBR0605	Bohemian	Individual		<3 ft	11-25	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Organic/Clay	Medium	No	0		some in river	6/10/2006		10:36:45am	
CCNWCBC	Jake	NAD 83 North Plane 4601 Feet	LBR0606	Bohemian	Individual		>6 ft	51-100	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Sand	Medium	No	0		high bank down to river. lots!	6/10/2006		10:41:13am	
CCNWCBC	Jake	NAD 83 North Plane 4601 Feet	LBR0607	Bohemian	Individual		<3 ft	6-10	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Sand	Low	No	0		under log	6/10/2006		10:45:15am	
CCNWCBC	Jake	NAD 83 North Plane 4601 Feet	LBR0608	Bohemian	Individual		3-6 ft	26-50	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Sand	Low	No	0			6/10/2006		10:48:02am	
CCNWCBC	Jake	NAD 83 North Plane 4601 Feet	LBR0609	Bohemian	Individual		3-6 ft	11-25	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Gravel	Low	No	0		some in river	6/10/2006		10:52:11am	
CCNWCBC	Uake	NAD 83 North Plane 4601 Feet	LBR0610	Bohemian	Individual		<3 ft	6-10	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Sand	Low	No	0		bank & river	6/10/2006		10:54:43am	
CCNWCBC	Jake	NAD 83 North Plane 4601 Feet	LBR0611	Bohemian	Individual		3-6 ft	26-50	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Sand	Low	No	0		highbank&river beaver damage	6/10/2006		10:58:14am	
CCNWCBC	Jake	NAD 83 North Plane 4601 Feet	LBR0612	Bohemian	Individual		<3 ft	26-50	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Sand	Medium	No	0		bank river & log	6/10/2006		11:04:14am	
CCNWCBC	Jake	NAD 83 North Plane 4601 Feet	LBR0613	Bohemian	Individual		<3 ft	6-10	Pre-bloom	Riparian - Gravelbar	Inventory	None	None	None			Sand	Medium	No	0		on sandbar	6/10/2006		11:09:02am	
CCNWCBC	Jake	NAD 83 North Plane 4601 Feet	LBR0614	Bohemian	Individual		3-6 ft	11-25	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Sand	Low	No	0		bank & river	6/10/2006		11:11:05am	
CCNWCBC	Jake	NAD 83 North Plane 4601 Feet	LBR0615	Bohemian	Clump		3-6 ft	11-25	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Sand	Low	No	0		under blowdown upriver 10 yars	6/10/2006		11:14:02am	
CCNWCBC	Jake	NAD 83 North Plane 4601 Feet	LBR0616	Bohemian	Individual		<3 ft	26-50	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Sand	Medium	No	0		bank & river	6/10/2006		11:30:59am	
CCNWCBC	Jake	NAD 83 North Plane 4601 Feet	LBR0617	Bohemian	Individual		3-6 ft	26-50	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Sand	Low	No	0		large open bank	6/10/2006		11:35:40am	
CCNWCBC	Jake	NAD 83 North Plane 4601 Feet	LBR0618	Bohemian	Individual		<3 ft	51-100	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Sand	Low	No	0		hidden under cover	6/10/2006		11:38:16am	
CCNWCBC	Jake	NAD 83 North Plane 4601 Feet	LBR0619	Bohemian	Individual		>6 ft	51-100	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Sand	High	No	0		one of a few large patches	6/10/2006		11:40:02am	
CCNWCBC	Jake	NAD 83 North Plane 4601 Feet	LBR0620	Bohemian	Individual		>6 ft	>200	Pre-bloom	Ripar-Floodplain	Inventory	None	None	None			Sand	Medium	Yes	0		thousands	6/10/2006		11:45:39am	
CCNWCBC	Jake	NAD 83 North Plane 4601 Feet	LBR0621	Bohemian	Individual		3-6 ft	26-50	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Sand	Low	No	0		high on bank & in river	6/10/2006		11:48:26am	
CCNWCBC	Jake	NAD 83 North Plane 4601 Feet	LBR0622	Bohemian	Individual		<3 ft	11-25	Pre-bloom	Riparian - Gravelbar	Inventory	None	None	None			Sand	Medium	No	0		many in river	6/10/2006		11:51:16am	
CCNWCBC	Jake	NAD 83 North Plane 4601 Feet	LBR0623	Bohemian	Individual		3-6 ft	11-25	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None			Organic/Clay	Low	No	0		50 yards up from bridge	6/10/2006		11:55:46am	
CCNWCBC	annan bowly	NAD 83 North Plane 4601 Feet	LBR0601	Bohemian	Group		<3 ft	11-25	Pre-bloom	Large Woody Debris	Inventory	None	None	None	river behind le	Mostly Open	Vegetated or LWD	Medium	No			woody debris in water	6/13/2006		02:09:38pm	
CCNWCBC	annan bowly	NAD 83 North Plane 4601 Feet	LBR0602	Bohemian	Clump		3-6 ft	6-10	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	river behind d	Mostly Open	Vegetated or LWD	Medium	No			in water	6/13/2006		02:11:40pm	
CCNWCBC	annan bowly	NAD 83 North Plane 4601 Feet	LBR0603	Bohemian	Group		>6 ft	>200	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	river behind le	Mostly Open	Vegetated or LWD	Medium	No			part of big patch by levins	6/13/2006		02:13:20pm	
CCNWCBC	annan bowly	NAD 83 North Plane 4601 Feet	LBR0604	Bohemian	Clump		>6 ft	51-100	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	river behind le	Mostly Open	Vegetated or LWD	Medium	No			beaver damage, in water	6/13/2006		02:15:40pm	
CCNWCBC	annan bowly	NAD 83 North Plane 4601 Feet	LBR0605	Bohemian	Clump		3-6 ft	11-25	Pre-bloom	Large Woody Debris	Inventory	None	None	None	river behind le	Mostly Open	Vegetated or LWD	Medium	No			on debris in wzter, bevr damage	6/13/2006		02:19:53pm	
CCNWCBC	annan bowly	NAD 83 North Plane 4601 Feet	LBR0606	Bohemian	Individual		3-6 ft	6-10	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	river behind d	Mostly Open	Vegetated or LWD	Medium	No			in water, on wood	6/13/2006		02:22:21pm	
CCNWCBC	annan bowly	NAD 83 North Plane 4601 Feet	LBR0607	Bohemian	Clump		3-6 ft	26-50	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	river by dave l	Mostly Open	Vegetated or LWD	Medium	No			beavr damage, in river onwood	6/13/2006		02:25:33pm	
CCNWCBC	annan bowly	NAD 83 North Plane 4601 Feet	LBR0608	Bohemian	Clump		3-6 ft	26-50	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	river by dave l	Mostly Open	Vegetated or LWD	Medium	No			on gravel.in wzter, beavr damage	6/13/2006		02:27:44pm	
CCNWCBC	annan bowly	NAD 83 North Plane 4601 Feet	LBR0609	Bohemian	Clump		<3 ft	6-10	Pre-bloom	Large Woody Debris	Inventory	None	None	None	rvr behind lev	Mostly Open	Vegetated or LWD	Medium	No			in water,	6/13/2006		02:29:58pm	
CCNWCBC	annan bowly	NAD 83 North Plane 4601 Feet	LBR0610	Bohemian	Clump		3-6 ft	51-100	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	rvr behind lev	Mostly Open	Vegetated or LWD	Medium	No			in wzter, grassy bank	6/13/2006		02:32:14pm	
CCNWCBC	annan bowly	NAD 83 North Plane 4601 Feet	LBR0611	Bohemian	Individual		<3 ft	2-5	Pre-bloom	Large Woody Debris	Inventory	None	None	None	rvr behind lev	Mostly Open	Vegetated or LWD	Medium	No			in water, beaver damage, roots	6/13/2006		02:34:23pm	
CCNWCBC	annan bowly	NAD 83 North Plane 4601 Feet	LBR0612	Bohemian	Clump		>6 ft	51-100	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	rvr behind lev	Mostly Open	Vegetated or LWD	Medium	No			in water, goes up bank	6/13/2006		02:36:32pm	
CCNWCBC	ROSS MCDORMAR	NAD 83 North Plane 4601 Feet	LBR0601	Bohemian	Group		3-6 ft	>200	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	GC	Mostly Open	Sand	High	Yes			TREATED ONCE	5/27/2006		04:38:07pm	
CCNWCBC	ross mcdormar	NAD 83 North Plane 4601 Feet	LBR0601	Bohemian	Group		3-6 ft	>200	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	cb	Mostly Open	Gravel	Low	No			1 above high water mark wd ex	5/28/2006		03:09:15pm	
CCNWCBC	ross mcdormar	NAD 83 North Plane 4601 Feet	LBR0602	Bohemian	Group		>6 ft	>200	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	cb	Open	Vegetated or LWD	Medium	Yes			1 enormous far bank too	5/28/2006		03:56:26pm	
CCNWCBC	ross mcdormar	NAD 83 North Plane 4601 Feet	LBR0603	Bohemian	Individual		>6 ft	>200	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	cb	Open	Vegetated or LWD	Medium	Yes			1 far bank in grass, above bank	5/28/2006		04:08:48pm	
CCNWCBC	ross mcdormar	NAD 83 North Plane 4601 Feet	LBR0604	Bohemian	Individual		3-6 ft	101-200	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	cb	Mostly Open	Vegetated or LWD	Medium	Yes			1 far bank around lwd	5/29/2006		10:34:12am	
CCNWCBC	ross mcdormar	NAD 83 North Plane 4601 Feet	LBR0605	Bohemian	Clump		3-6 ft	>200	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	Mostly Open	Fines	Medium	No				1 all along opp bank	5/29/2006		11:45:04am	
CCNWCBC	ross mcdormar	NAD 83 North Plane 4601 Feet	LBR0606	Bohemian	Individual		<3 ft	2-5	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	Open	Sand	Medium	No				1^ in grass	6/2/2006		12:38:17pm	
CCNWCBC	ross mcdormar	NAD 83 North Plane 4601 Feet	LBR0607	Bohemian	Group		>6 ft	>200	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	Open	Vegetated or LWD	Medium	No				across river too	6/4/2006		11:39:34am	
CCNWCBC	ross mcdormar	NAD 83 North Plane 4601 Feet	LBR0608	Bohemian	Individual		<3 ft	6-10	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	Mostly Closed	Sand	High	No					6/4/2006		11:42:57am	
CCNWCBC	annan bowly	NAD 83 North Plane 4601 Feet	LBR0601	Bohemian	Group		>6 ft	>200	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	Mostly Open	Vegetated or LWD	Medium	Yes				big patch	6/13/2006		08:30:20am	
CCNWCBC	Jake	NAD 83 North Plane 4601 Feet	LBR0601	Bohemian	Individual		<3 ft	2-5	Pre-bloom	Ripar-Veg Highwater	Inventory	None	None	None	Closed	Sand	Low	No				hidden under canopy	6/21/2006		03:18:54pm	
CCNWCBC	Jake	NAD 83 North Plane 4601 Feet	LBR0601	Bohemian	Group		>6 ft	>200	Pre-bloom	Ripar-Floodplain	Inventory	None	None	None	Mostly Open	Fines	Low	Yes				huge patch, thousands!	6/11/2006		10:04:22am	

## **Appendix IX: Sol Duc River Treatment Data**

AGENCY	COLLECTOR	DATUM	SITE_ID	SPECIES	CLUSTER	TVAVERAGE	HE	STEM	COUNT	PHENOLOGY	SITE_TYPE	ACTION	HERBICIDE	SURFACTANT	TREATMENT	OWNERSHIP	SUBSTRATE	CANOPY	PLNT	ERODE	HIGH	ERODE	AREA	UNIT	COMMENTS	DATE	YMD	TIME
CCNWCW	Sasha Sicks	NAD83 State Pin N 4601 StaFlt	SD0055A	Bohemian	Clump	3-6 ft	6-10	Pre-bloom		Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Thornton	Sand	Open	High	No			5	ft2	Li bk. in bank width; ME	9/25/2006	09:30:00am		
CCNWCW	Sasha Sicks	NAD83 State Pin N 4601 StaFlt	SD0055B	Bohemian	Clump	3-6 ft	6-10	Pre-bloom		Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	DNR	Sand	Open	High	No	25	ft2			Rt bk. in bank width; ME	9/25/2006	09:40:00am		
CCNWCW	Sasha Sicks	NAD83 State Pin N 4601 StaFlt	SD0055C	Bohemian	Clump	3-6 ft	2-5	Post-bloom		Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Thornton	Sand	Open	High	No	5	ft2			Li bk. ME	9/25/2006	11:03:00am		
CCNWCW	Sasha Sicks	NAD83 State Pin N 4601 StaFlt	CO0002	Bohemian	Group	3-6 ft	101-200	Post-bloom		Roadside	Treatment	Aquamaster/Glypro	Agri-Dex	Inject+Foliar	Nima Weed Bd of Directors	Fines	Open	Low	No	400	ft2				9/28/2006	04:00:00pm		
CCNWCW	Sasha Sicks	NAD83 State Pin N 4601 StaFlt	CO0003	Bohemian	Clump	>6ft	26-50	Post-bloom		Roadside	Treatment	Aquamaster/Glypro	Agri-Dex	Inject+Foliar	Nima Weed Bd of Directors	Organic/Clay	Mostly Closed	Low	No	100	ft2				9/28/2006	04:30:00pm		
CCNWCW	Sasha Sicks	NAD83 State Pin N 4601 StaFlt	SD0057	Bohemian	Clump	>6ft	51-100	Bloom		Riparian-Gravelbar	Treatment	Aquamaster/Glypro	Agri-Dex	Inject+Foliar	Tuttle	Cobble	Open	Low	No	100	ft2			Li bk. ME	9/25/2006	10:00:00am		
CCNWCW	Sasha Sicks	NAD83 State Pin N 4601 StaFlt	SD0061A	Bohemian	Clump	<3 ft	11-25	Pre-bloom		Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Inject	DNR	Sand	Open	High	No	25	ft2			Rt bk	9/20/2006	10:30:00am		
CCNWCW	Sasha Sicks	NAD83 State Pin N 4601 StaFlt	SD0064	Bohemian	Clump	>6ft	51-100	Bloom		Riparian-Gravelbar	Treatment	Aquamaster/Glypro	Agri-Dex	Inject+Foliar	Tuttle	Cobble	Open	High	No	60	ft2			Li bk. ME	9/20/2006	10:50:00am		
CCNWCW	Sasha Sicks	NAD83 State Pin N 4601 StaFlt	SD0065	Bohemian	Clump	3-6 ft	11-25	Pre-bloom		Riparian-Gravelbar	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Tuttle	Cobble	Open	High	No	15	ft2				9/25/2006	11:03:00am		
CCNWCW	Sasha Sicks	NAD83 State Pin N 4601 StaFlt	SD0066	Bohemian	Clump	3-6 ft	51-100	Pre-bloom		Riparian-Gravelbar	Treatment	Aquamaster/Glypro	Agri-Dex	Inject+Foliar	Tuttle	Sand	Open	High	No	3000	ft2			Li bk. ME	9/25/2006	11:10:00am		
CCNWCW	Sasha Sicks	NAD83 State Pin N 4601 StaFlt	SD0067	Bohemian	Clump	3-6 ft	101-200	Pre-bloom		Riparian-Gravelbar	Treatment	Aquamaster/Glypro	Agri-Dex	Inject+Foliar	Gaydeski	Sand	Mostly Open	High	No	1500	ft2			Li bk. ME	9/25/2006	12:00:00pm		
CCNWCW	Sasha Sicks	NAD83 State Pin N 4601 StaFlt	SD0068B	Bohemian	Clump	>6ft	11-25	Post-bloom		Riparian-Gravelbar	Treatment	Aquamaster/Glypro	Agri-Dex	Inject+Foliar	Blodel	Sand	Open	High	No	25	ft2			Li bk. ME	9/25/2006	01:40:00pm		
CCNWCW	Sasha Sicks	NAD83 State Pin N 4601 StaFlt	SD0069	Bohemian	Clump	>6ft	11-25	Post-bloom		Riparian-Gravelbar	Treatment	Aquamaster/Glypro	Agri-Dex	Inject+Foliar	Blodel	Sand	Open	High	No	25	ft2			Li bk. ME	9/25/2006	02:00:00pm		
CCNWCW	Sasha Sicks	NAD83 State Pin N 4601 StaFlt	SD0068A	Bohemian	Clump	<3 ft	6-10	Pre-bloom		Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Blodel	Sand	Mostly Closed	High	No	20	ft2			Li bk. ME	9/25/2006	01:30:00pm		
CCNWCW	Sasha Sicks	NAD83 State Pin N 4601 StaFlt	SD0069	Bohemian	Clump	<3 ft	26-50	Pre-bloom		Riparian-Gravelbar	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Lawrence Gaydeski	Cobble	Open	High	No	25	ft2				9/25/2006	02:40:00pm		
CCNWCW	Sasha Sicks	NAD83 State Pin N 4601 StaFlt	SD0072	Bohemian	Clump	<3 ft	6-10	Pre-bloom		Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Lawrence Gaydeski	Sand	Mostly Closed	Low	No	20	ft2			Rt bk. ME	9/25/2006	03:00:00pm		
CCNWCW	Sasha Sicks	NAD83 State Pin N 4601 StaFlt	SD0073	Bohemian	Clump	3-6 ft	6-10	Pre-bloom		Riparian-Gravelbar	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Blodel	Cobble	Open	Low	No	30	ft2			Rt bk. ME	9/25/2006	03:20:00pm		
CCNWCW	Sasha Sicks	NAD83 State Pin N 4601 StaFlt	SD0074A	Bohemian	Group	>6ft	501-1000	Post-bloom		Riparian-Gravelbar	Treatment	Aquamaster/Glypro	Agri-Dex	Inject+Foliar	Spoelstra	Cobble	Mostly Open	High	No	500	ft2			Rt bk. ME	9/25/2006	03:40:00pm		
CCNWCW	Sasha Sicks	NAD83 State Pin N 4601 StaFlt	SD0074B	Bohemian	Group	>6ft	501-1000	Post-bloom		Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Inject+Foliar	Spoelstra	Sand	Mostly Open	Medium	No	1000	ft2			Rt bk. ME	9/29/2006	10:00:00am		
CCNWCW	Sasha Sicks	NAD83 State Pin N 4601 StaFlt	SD0075	Bohemian	Fragment	<3 ft	1	Pre-bloom		Large Woody Debris	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Spoelstra	Organic/Clay	Open	High	No	2	ft2			Middle of loajam; ME	9/25/2006	03:50:00pm		
CCNWCW	Sasha Sicks	NAD83 State Pin N 4601 StaFlt	SD0081	Bohemian	Group	>6ft	501-1000	Post-bloom		Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Inject+Foliar	Rayonier	Sand	Mostly Open	High	No	3000	ft2			Li bk. ME	9/25/2006	04:20:00pm		
CCNWCW	Sasha Sicks	NAD83 State Pin N 4601 StaFlt	SD0081A	Bohemian	Group	>6ft	2001-3000	Post-bloom		Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Inject+Foliar	Spoelstra	Sand	Open	Medium	No	20000	ft2			N side o' pt 4000 stems+ BEES	9/29/2006	10:00:00am		
CCNWCW	Sasha Sicks	NAD83 State Pin N 4601 StaFlt	SD0083	Bohemian	Clump	>6ft	26-50	Post-bloom		Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Inject+Foliar	Rayonier	Sand	Mostly Closed	High	No	40	ft2			? bk. probably Lt bk; ME	9/25/2006	04:30:00pm		
CCNWCW	Sasha Sicks	NAD83 State Pin N 4601 StaFlt	SD0088	Bohemian	Clump	<3 ft	6-10	Pre-bloom		Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Rayonier	Sand	Open	High	No	20	ft2			Rt bk. need bt/ch waders; ME	9/25/2006	04:40:00pm		
CCNWCW	Sasha Sicks	NAD83 State Pin N 4601 StaFlt	SD0090	Bohemian	Fragment	<3 ft	2-5	Pre-bloom		Large Woody Debris	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	DNR	Woody Debris	Open	High	No	2	ft2			Li bk. within bkwidth; CG; ME	9/25/2006	05:00:00pm		
CCNWCW	Sasha Sicks	NAD83 State Pin N 4601 StaFlt	SD0091	Bohemian	Clump	<3 ft	11-25	Pre-bloom		Riparian-Gravelbar	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	DNR	Cobble	Open	High	No	40	ft2			Li bk. ME. Middle of lt bk.	9/25/2006	05:10:00pm		
CCNWCW	Sasha Sicks	NAD83 State Pin N 4601 StaFlt	SD0092	Bohemian	Group	>6ft	201-500	Post-bloom		Riparian-Gravelbar	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Leppell	Sand	Open	High	No	600	ft2			Li bk. ME	9/25/2006	05:20:00pm		
CCNWCW	Sasha Sicks	NAD83 State Pin N 4601 StaFlt	SD0071	Bohemian	Clump	<3 ft	26-50	Pre-bloom		Riparian-Gravelbar	Treatment	Aquamaster/Glypro	None	Inject	Lawrence Gaydeski	Cobble	Open	High	No	25	ft2			Rt bk. needs spray	9/20/2006	09:00:00am		
CCNWCW	Sasha Sicks	NAD83 State Pin N 4601 StaFlt	SD0062B	Bohemian	Individual	3-6 ft	2-5	Pre-bloom		Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Hit & Miss Logging	Sand	Mostly Closed	Low	No	5	ft2			Rt bk	9/20/2006	10:45:00am		
CCNWCW	Sasha Sicks	NAD83 State Pin N 4601 StaFlt	SD0062C	Bohemian	Clump	3-6 ft	2-5	Pre-bloom		Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Hit & Miss Logging	Sand	Mostly Closed	High	No	5	ft2			Rt bk	9/20/2006	11:30:00pm		
CCNWCW	Sasha Sicks	NAD83 State Pin N 4601 StaFlt	SD0062A	Bohemian	Clump	<3 ft	26-50	Pre-bloom		Riparian-Gravelbar	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	Hit & Miss Logging	Cobble	Open	High	No	30	ft2			Li bk. ME	9/25/2006	10:30:00am		
CCNWCW	Sasha Sicks	NAD83 State Pin N 4601 StaFlt	SD0089	Bohemian	Group	>6ft	201-500	Post-bloom		Riparian-Gravelbar	Treatment	Aquamaster/Glypro	None	Inject	Leppell	Sand	Open	High	No	600	ft2			Li bk. ME	9/20/2006	02:30:00pm		
CCNWCW	Sasha Sicks	NAD83 State Pin N 4601 StaFlt	SD0050A	Bohemian	Individual	>6ft	501-1000	Bloom		Riparian-Gravelbar	Treatment	Aquamaster/Glypro	None	Inject	Rayonier	Sand	Open	High	No	500	ft2			Rt bk. TONS up Lake Cr. ME	9/12/2006	03:45:00pm		
CCNWCW	Sasha Sicks	NAD83 State Pin N 4601 StaFlt	SD0049	Bohemian	Clump	3-6 ft	101-200	Post-bloom		Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	Rayonier	Sand	Mostly Closed	High	No	1000	ft2			Rt bk.	9/18/2006	10:50:00am		
CCNWCW	Sasha Sicks	NAD83 State Pin N 4601 StaFlt	SD0045	Bohemian	Group	3-6 ft	101-200	Bloom		Riparian-Gravelbar	Treatment	Aquamaster/Glypro	None	Inject	DNR	Sand	Open	High	No	1000	ft2			Rt side of gravelbar	9/18/2006	02:30:00pm		
CCNWCW	Sasha Sicks	NAD83 State Pin N 4601 StaFlt	SD0044	Bohemian	Individual	3-6 ft	2-5	Pre-bloom		Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	None	Inject	DNR	Sand	Open	High	No	5	ft2			Rt bk. Moved d/s from inv pt?	9/18/2006	03:00:00pm		
CCNWCW	Sasha Sicks	NAD83 State Pin N 4601 StaFlt	SD0018	Bohemian	Clump	3-6 ft	11-25	Bloom		Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	R-11	Inject+Foliar	DNR	Sand	Mostly Open	Low	No	50	ft2			Li bk	9/14/2006	09:24:00am		
CCNWCW	Sasha Sicks	NAD83 State Pin N 4601 StaFlt	SD0019	Bohemian	Individual	<3 ft	2-5	Pre-bloom		Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Foliar	DNR	Sand	Mostly Open	Low	No	5	ft2			Li bk. behind log	9/14/2006	10:00:00am		
CCNWCW	Sasha Sicks	NAD83 State Pin N 4601 StaFlt	SD0020	Bohemian	Clump	3-6 ft	51-100	Bloom		Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Inject+Foliar	Dundes	Sand	Mostly Open	Low	No	1000	ft2			Rt bk. very dry and of property	9/14/2006	10:13:00am		
CCNWCW	Sasha Sicks	NAD83 State Pin N 4601 StaFlt	SD0048	Giant	Group	>6ft	501-1000	Post-bloom		Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Inject+Foliar	Rayonier	Sand	Mostly Closed	High	No	75000	ft2			Rt bk. Big patch	9/14/2006	02:41:00pm		
CCNWCW	Sasha Sicks	NAD83 State Pin N 4601 StaFlt	SD0013	Bohemian	Clump	>6ft	11-25	Bloom		Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Inject+Foliar	King	Sand	Mostly Closed	Low	No	50	ft2			Rt bk	9/13/2006	01:30:00pm		
CCNWCW	Sasha Sicks	NAD83 State Pin N 4601 StaFlt	SD0014	Bohemian	Clump	>6ft	51-100	Bloom		Ripar-Veg Highwater	Treatment	Aquamaster/Glypro	Agri-Dex	Inject+Foliar	Kenney	Sand	Mostly Closed	High	No	200	ft2			Rt bk	9/13/2006	02:00:00pm		
CCNWCW	Sasha Sicks	NAD83 State Pin N 4601 StaFlt	SD0016B	Bohemian	Group	3-6 ft	51-100	Bloom		Riparian-Other	Treatment	Aquamaster/Glypro	Agri-Dex	Inject+Foliar	Hull	Organic/Clay	Open	Low	No	50	ft2			Rt bk. Up high, by waterpump h	9/13/2006	03:45:00pm		
CCNWCW	Sasha Sicks	NAD83 State Pin N 4601 StaFlt	SD0016C	Bohemian	Clump	3-6 ft	51-100	Bloom		Roadside	Treatment	Aquamaster/Glypro	Agri-Dex	Inject+Foliar	DOT	Organic/Clay	Open	Low	No	100	ft2			Rt side regrowth to empty pks	9/13/2006	03:30:00pm		
CCNWCW	Sasha Sicks	NAD83 State Pin N 4601 StaFlt	LP0001	Bohemian	Group	>6ft	2001-3000	Post-bloom		Developed	Treatment	Aquamaster/Glypro	Agri-Dex	Inject+Foliar	Grafstrom	Vegetated or LWD	Open	High	No	50000	ft2			Li bk. needed ch waders; ME	10/5/2006	08:30:00pm		
CCNWCW	Sasha Sicks	NAD83 State Pin N 4601 StaFlt	LP0002	Bohemian	Group	>6ft	1001-2000	Post-bloom		Developed	Treatment	Aquamaster/Glypro	Agri-Dex	Inject+Foliar	Buck	Vegetated or LWD	Open	Medium	No	8500	ft2			Li bk.	10/4/2006	03:30:00pm		
CCNWCW	Sasha Sicks	NAD83 State Pin N 4601 StaFlt	LP0003	Bohemian	Group																							

**Appendix IX: Pysht River Treatment Data (see Appendix II)**