El Dorado Hydroelectric Project
FERC Project 184

November 8, 2010

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- Final -
2010 Annual Noxious Weed Monitoring Report

El Dorado Hydroelectric Project

El Dorado Irrigation District

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1.0 Introduction

This 2010 Noxious Weed Monitoring Report (Report) has been prepared to meet the requirements of El Dorado Irrigation District’s (EID) “El Dorado Hydroelectric Project (Federal Energy Regulatory Commission (FERC) No. 184): A Plan for the Prevention and Control of Noxious Weeds” (Plan) (EID 2008a). The Plan was prepared under the U.S. Forest Service 4(e) condition No. 44 of the FERC license and approved by the Eldorado National Forest (ENF) on April 17, 2007 and by FERC on May 1, 2008. Figure 1 in Appendix A shows the regional location of the survey area.

The Plan describes an annual monitoring program to identify new infestations of noxious weeds and evaluate whether existing infestations have been controlled. The monitoring program utilizes ENF standardized monitoring forms and includes Global Positioning System (GPS) mapping of infestations. An annual report that includes the following information is due to ENF by January 15 of each year:

- Follow-up inspections of previously identified noxious weed populations;
- Presence of any new weed populations; and
- Updated Geographic Information System (GIS) base map with the results of on-going monitoring.

The data gathered from the 2008 and 2009 surveys serve as the baseline conditions for the 2010 survey. All of the occurrences documented in 2008 and 2009 were re-visited in 2010 and evaluated in this Report. Any additional occurrences observed along licensee-maintained roads or at project facilities were recorded. Some occurrences from 2008 have been eradicated and datasheets for those areas are no longer necessary. Weed treatments and effectiveness are noted and evaluated in the Report, where applicable. Only limited treatments were performed between the 2008 and 2009 surveys since the details of implementing the Integrated Pest Management Plan (IPMP) were not yet finalized.

The existing facilities covered under the FERC license and subject to noxious weed monitoring include:

- Facilities at the four storage reservoirs (Lake Aloha, Echo Lake, Silver Lake, and Caples Lake),
- Echo Lake Conduit,
- El Dorado Diversion Dam,
- El Dorado Canal (including flumes, tunnels, and pipelines),
- Alder Creek Diversion Dam and Feeder,
- El Dorado Forebay,
- El Dorado Pipeline and Penstock,
- El Dorado Powerhouse, and
- Licensee-maintained access roads (as identified later in this Report in Table 3).

This Report summarizes the noxious weed occurrences located within the Project 184 boundary and along licensee-maintained roads during the 2010 monitoring season and will be filed with FERC by March 1, 2011.
2.0 Methods

Due to the cool, wet spring, field monitoring began on May 21, 2010 (a little later than 2009) at the lower elevation sites and was completed on July 30, 2010 following surveys at Lake Aloha. In accordance with the Plan, digital photos were taken (Appendix B), GPS data was collected, and standardized data forms were completed for each identified infestation (Appendix C). In most instances, GPS locations were captured using a Leica GS20 hand-held, sub-meter-accurate GPS unit with an external antenna. Where conditions did not allow for accurate GPS data capture, locations were approximated using existing maps and aerial photography. Most locations were captured with the GPS and a point or line was sufficient to show the location. Weeds were identified using information from *Weeds of the West, Weeds of California and Other Western States* (Volumes 1 and 2), and the *USDA PLANTS Database* (Whitson 1996, DiTomaso and Healy 2007, USDA 2010). Weeds located within the Project area are listed in Table 1.

Access roads covered under the FERC License were monitored by walking each road and scanning areas adjacent to both sides of the road for incidents of target weed species. The Project 184 facilities listed above were also monitored by walking around each facility. In the cases of reservoir surveys, the entire perimeter of each reservoir was not completely surveyed; rather, areas where Project–related activities occur or have occurred were surveyed. Occurrences of both “List A” and “List B” Noxious Weeds, as defined on the ENF List of Noxious Weeds (Appendix D), were recorded on ENF data forms found in the Plan and representative photographs were taken. Tables 2 and 3 provide a summary of the noxious weeds located at each facility and along each road. The approximate size of each infestation was estimated by field staff using pacing and/or measurements from the GPS (for linear occurrences).

All GPS data was post-processed using base station data to correct for inaccuracies inherent in non-processed GPS data. This data was exported into a GIS (ESRI ArcMap version 9.3) in NAD83, California State Plane Zone 2 coordinates and rectified, as needed for mapping purposes. Maps depicting each delineated noxious weed occurrence (as defined above) is included in Appendix A (Figure 2). Digital photos and data sheets are included in Appendix B and C, respectively. The MAP ID label found in Tables 4 and 5 and in the top right corner of each data sheet corresponds to the label of each occurrence on Figure 2. The labeling protocol follows the format: 01-08 for points and L01-09 for linear features; the “L” before the number refers to “linear”. The number following the dash (-08) refers to the year that each occurrence was identified. Digital photos are organized by date and photo number, corresponding to the photo log from each set of data sheets.

Coordinates for each of the point features are included in Table 4, rather than on the data sheets. A description of each occurrence is found on the data sheets along with an update that refers to changes in the occurrence (e.g., reduced density and/or treatment effectiveness) from 2009 to 2010. The data sheets found in the Noxious Weed Plan were adapted to Microsoft Excel spreadsheet format and the data from the field was entered into these sheets for easier reading and archiving.
3.0 Results and Discussion

Detailed data for each infestation is included in the data sheets found in Appendix C of this report. Table 1 summarizes the species of noxious weeds observed during the 2010 survey and whether they are “List A” or “List B” species. There were no new species observed in 2010. List A weeds are species that have been designated as a higher priority for control. Tables 2 and 3 summarize the weeds found at each facility and along the Project 184, EID-maintained roads, respectively. Table 3 also includes a column indicating whether the road was treated and the success of the treatment.

If a single weed or a couple of weeds were observed during the survey, the site was not recorded or mapped. This survey identifies locations of multiple plants forming a unit that can be targeted for control. Some of these weeds are ubiquitous and mapping each individual Klamath weed, for example, would not provide useful data. General observations were recorded if scattered individual weeds were present along a road or near a facility. These observations can serve as a reference for future surveys to determine if these scattered individual weeds are forming groups that need to be controlled.

Table 1. Summary of Noxious Weeds Observed in the 2010 Survey

<table>
<thead>
<tr>
<th>Species</th>
<th>Common Name</th>
<th>Abbreviation*</th>
<th>Cal-IPC rating¹</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>List A</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Aegilops triuncialis</em></td>
<td>barbed goatgrass</td>
<td>AETR</td>
<td>High</td>
</tr>
<tr>
<td><em>Bromus tectorum</em></td>
<td>cheat grass</td>
<td>BRTE</td>
<td>High</td>
</tr>
<tr>
<td><em>Centaurea solstitialis</em></td>
<td>yellow starthistle</td>
<td>CESO3</td>
<td>High</td>
</tr>
<tr>
<td><em>Chondrilla juncea</em></td>
<td>rush skeletonweed</td>
<td>CHJU</td>
<td>Moderate</td>
</tr>
<tr>
<td><em>Cytisus scoparius</em></td>
<td>Scotch broom</td>
<td>CYSC4</td>
<td>High</td>
</tr>
<tr>
<td><em>Taeniatherum caput-medusae</em></td>
<td>medusahead grass</td>
<td>TACA8</td>
<td>High</td>
</tr>
<tr>
<td><em>Bromus diandrus</em></td>
<td>ripgut brome</td>
<td>BRDID2</td>
<td>Moderate</td>
</tr>
<tr>
<td><strong>List B</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Cirsium vulgare</em></td>
<td>bull thistle</td>
<td>CIVU</td>
<td>Moderate</td>
</tr>
<tr>
<td><em>Hypericum perforatum</em></td>
<td>Klamath weed</td>
<td>HYPE</td>
<td>Moderate</td>
</tr>
<tr>
<td><em>Leucanthemum vulgare</em></td>
<td>ox-eye daisy</td>
<td>LEVU</td>
<td>Moderate</td>
</tr>
<tr>
<td><em>Lathyrus latifolius</em></td>
<td>perennial sweet pea</td>
<td>LALA4</td>
<td>No List</td>
</tr>
<tr>
<td><em>Melilotus officinalis</em>*</td>
<td>yellow sweet clover</td>
<td>MEOF</td>
<td>No List</td>
</tr>
<tr>
<td><em>Rubus armeniacus</em></td>
<td>Himalayan blackberry</td>
<td>RUAR9</td>
<td>High</td>
</tr>
<tr>
<td><em>Torilis arvensis</em></td>
<td>hedge parsley</td>
<td>TOAR</td>
<td>Moderate</td>
</tr>
<tr>
<td><em>Verbascum thapsus</em></td>
<td>wooly mullein</td>
<td>VETH</td>
<td>Limited</td>
</tr>
</tbody>
</table>

*These abbreviations are used in the tables below to indicate which species are present.
** Yellow and white sweet clover are considered the same species, Melilotus officinalis, in the USDA PLANTS database

¹California Invasive Plant Council – Rating Definitions
- **High** – These species have severe ecological impacts on physical processes, plant and animal communities, and vegetation structure. Their reproductive biology and other attributes are conducive to moderate to high rates of dispersal and establishment. Most are widely distributed ecologically.
- **Moderate** – These species have substantial and apparent—but generally not severe—ecological impacts on physical processes, plant and animal communities, and vegetation structure. Their reproductive biology and other attributes are conducive to moderate to high rates of dispersal, though establishment is generally
dependent upon ecological disturbance. Ecological amplitude and distribution may range from limited to widespread.

- **Limited** – These species are invasive but their ecological impacts are minor on a statewide level or there was not enough information to justify a higher score. Their reproductive biology and other attributes result in low to moderate rates of invasiveness. Ecological amplitude and distribution are generally limited, but these species may be locally persistent and problematic.

### Table 2. Summary of Noxious Weeds Observed at Project 184 Facilities in 2010

<table>
<thead>
<tr>
<th>Project 184 Facility</th>
<th>Noxious Weeds List A(^1)</th>
<th>Noxious Weeds List B(^1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lake Aloha</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Echo Lake</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Silver Lake</td>
<td>None</td>
<td>VETH, CIVU</td>
</tr>
<tr>
<td>Caples Lake</td>
<td>None</td>
<td>VETH</td>
</tr>
<tr>
<td>Alder Creek Diversion Dam and Feeder</td>
<td>BRTE</td>
<td>LALA4, HYPE</td>
</tr>
<tr>
<td>Echo Lake Conduit</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>El Dorado Diversion Dam</td>
<td>CESO3, BRTE</td>
<td>LALA4, CIVU, VETH, LEVU</td>
</tr>
<tr>
<td>El Dorado Forebay</td>
<td>CYSC4</td>
<td>RUAR9, LALA4, VETH, HYPE, CIVU</td>
</tr>
<tr>
<td>El Dorado Canal</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Beat 1</strong></td>
<td>CHJU, BRTE</td>
<td>LEVU, HYPE, VETH, LALA4</td>
</tr>
<tr>
<td><strong>Beat 2</strong></td>
<td>BRTE</td>
<td>None</td>
</tr>
<tr>
<td><strong>Beat 3</strong></td>
<td>None</td>
<td>LALA4, RUAR9, CIVU</td>
</tr>
<tr>
<td><strong>Beat 4</strong></td>
<td>None</td>
<td>LEVU, LALA4, HYPE, CIVU, RUAR9</td>
</tr>
<tr>
<td><strong>Beat 5</strong></td>
<td>BRTE</td>
<td>LALA4, HYPE, MEOF, CIVU, VETH</td>
</tr>
<tr>
<td>El Dorado Tunnel</td>
<td>BRTE</td>
<td>MEOF, HYPE</td>
</tr>
<tr>
<td>Lower Penstock</td>
<td>CHJU, BRTE</td>
<td>RUAR9, HYPE, VETH</td>
</tr>
<tr>
<td>Upper Penstock</td>
<td>AETR</td>
<td>RUAR9, CIVU, LALA4, HYPE, TOAR</td>
</tr>
</tbody>
</table>

\(^1\)A designation of none means none of the ENF noxious weeds were present.
<table>
<thead>
<tr>
<th>Road #</th>
<th>Road Name</th>
<th>Length</th>
<th>Noxious Weeds A¹</th>
<th>Noxious Weeds B¹</th>
<th>Control²</th>
</tr>
</thead>
<tbody>
<tr>
<td>11N05A</td>
<td>Echo North</td>
<td>0.2</td>
<td>None</td>
<td>None</td>
<td>N/A</td>
</tr>
<tr>
<td>11N05D</td>
<td>Echo Loop</td>
<td>0.2</td>
<td>None</td>
<td>None</td>
<td>N/A</td>
</tr>
<tr>
<td>10N23Y</td>
<td>Caples Aux. Dam</td>
<td>0.11</td>
<td>None</td>
<td>VETH</td>
<td>None</td>
</tr>
<tr>
<td>R41</td>
<td>Woods Creek</td>
<td>0.19</td>
<td>None</td>
<td>None</td>
<td>N/A</td>
</tr>
<tr>
<td>R42</td>
<td>Caples Main Dam</td>
<td>0.16</td>
<td>None</td>
<td>None</td>
<td>N/A</td>
</tr>
<tr>
<td>*R43</td>
<td>Caples House</td>
<td>0.14</td>
<td>None</td>
<td>None</td>
<td>Eradicated</td>
</tr>
<tr>
<td>*New</td>
<td>Campes Boat Launch</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>N/A</td>
</tr>
<tr>
<td>R44</td>
<td>Caples Quonset</td>
<td>0.06</td>
<td>None</td>
<td>None</td>
<td>N/A</td>
</tr>
<tr>
<td>R61</td>
<td>30 Milestone Spur</td>
<td>0.01</td>
<td>None</td>
<td>None</td>
<td>N/A</td>
</tr>
<tr>
<td>R71</td>
<td>Flume 39/40</td>
<td>0.42</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>R72</td>
<td>Camp X</td>
<td>0.56</td>
<td>None</td>
<td>None</td>
<td>N/A</td>
</tr>
<tr>
<td>R73</td>
<td>Camp 2</td>
<td>0.54</td>
<td>BRTE</td>
<td>BRDID2</td>
<td>None</td>
</tr>
<tr>
<td>R74/74A</td>
<td>El Dorado Tunnel</td>
<td>0.66</td>
<td>BRTE, TACA8</td>
<td>MEOF, HYPE, TOAR, LALA4, VETH, BRDID2</td>
<td>Partial</td>
</tr>
<tr>
<td>R75/75A</td>
<td>Camp 1</td>
<td>0.53</td>
<td>BRTE</td>
<td>CIVU, MEOF, HYPE, LALA4, BRDID4, TOAR, VETH</td>
<td>Partial</td>
</tr>
<tr>
<td>R76</td>
<td>Camp S</td>
<td>0.1</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>10N08Y</td>
<td>Bull Creek</td>
<td>0.43</td>
<td>None</td>
<td>None</td>
<td>N/A</td>
</tr>
<tr>
<td>10N08YA</td>
<td>Camp Two</td>
<td>0.79</td>
<td>None</td>
<td>CIVU</td>
<td>None</td>
</tr>
<tr>
<td>11N02Y</td>
<td>El Dorado Ditch Access</td>
<td>0.91</td>
<td>None</td>
<td>RUAR9, HYPE, CIVU</td>
<td>None</td>
</tr>
<tr>
<td>10N440G</td>
<td>Highway Cut</td>
<td>1.66</td>
<td>None</td>
<td>RUAR9, LALA4, CIVU, HYPE, CIVU</td>
<td>Partial</td>
</tr>
<tr>
<td>R81</td>
<td>Flume 47B</td>
<td>0.07</td>
<td>None</td>
<td>None</td>
<td>N/A</td>
</tr>
<tr>
<td>R82</td>
<td>Pacific Tunnel</td>
<td>0.24</td>
<td>None</td>
<td>None</td>
<td>N/A</td>
</tr>
<tr>
<td>R821</td>
<td>Hazel Creek Tunnel</td>
<td>0.18</td>
<td>None</td>
<td>None</td>
<td>N/A</td>
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<tr>
<td>R83</td>
<td>Spillway 33</td>
<td>0.28</td>
<td>None</td>
<td>RUAR9, VETH, CIVU</td>
<td>None</td>
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<tr>
<td>R84</td>
<td>Old Camp 4</td>
<td>0.28</td>
<td>None</td>
<td>None</td>
<td>N/A</td>
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<tr>
<td>R87</td>
<td>Camp 3</td>
<td>0.21</td>
<td>BRTE</td>
<td>None</td>
<td>Partial</td>
</tr>
<tr>
<td>R88</td>
<td>Camp P</td>
<td>1.32</td>
<td>BRTE</td>
<td>TOAR, CIVU, MEOF, HYPE, LALA4, LEVU</td>
<td>Partial</td>
</tr>
<tr>
<td>R89</td>
<td>Rock Crusher</td>
<td>1.16</td>
<td>BRTE</td>
<td>VETH, MEOF, HYPE, CIVU</td>
<td>Partial</td>
</tr>
<tr>
<td>10N40N</td>
<td>El Dorado Ditch Loop</td>
<td>0.23</td>
<td>None</td>
<td>CIVU</td>
<td>None</td>
</tr>
<tr>
<td>12N34H</td>
<td>Powerhouse</td>
<td>2.86</td>
<td>None</td>
<td>RUAR9, LALA4, CIVU, HYPE, MEOF, VETH</td>
<td>Partial</td>
</tr>
<tr>
<td>R91</td>
<td>Moon Lane</td>
<td>0.31</td>
<td>None</td>
<td>None</td>
<td>N/A</td>
</tr>
<tr>
<td>R92</td>
<td>Moon Lane East</td>
<td>0.2</td>
<td>None</td>
<td>None</td>
<td>N/A</td>
</tr>
<tr>
<td>R93</td>
<td>Kodiak Trail</td>
<td>0.21</td>
<td>None</td>
<td>None</td>
<td>Eradicated</td>
</tr>
<tr>
<td>R94</td>
<td>Bend Court</td>
<td>0.41</td>
<td>BRTE</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>15.63</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

¹A designation of “None” means none of the ENF noxious weeds were present.
²Herbicide or other treatment effectiveness: Partial, Eradicated, N/A (not applicable; no weeds along road), None (there was no control observed)
*New road accessing new Caples Boat Launch Facility replaces old Caples House Road.
3.1 Comments from USFS regarding 2009 Report
In May of 2010 EID received comments on the 2009 Noxious Weed Monitoring Report from the USFS. These comments were addressed in an email from EN2 that was sent to Brian Deason at EID on May 24, 2010. Several comments were easily addressed by supplying some clarification and several comments pertained to treatment recommendations that are different from USFS policies and/or requirements under the now completed Project 184 IPMP. Section 3.5, Control Methods has been amended to reflect these changes.

3.2 Priority List
The Plan identifies general prevention and control measures and provides some guidance on prioritizing control efforts to maximize the effectiveness of available resources. The following priorities have been identified in the Plan and are ranked in order:

1. Prevent the introduction of new invaders.
2. Conduct early treatment of new infestations.
3. Contain and control established infestations.

In determining the priority list for this survey, numbers 1 to 3 above have been considered where appropriate. Since the exact locations of previously identified (1999 study), established infestations were not readily available, the 2008 data serves as the baseline for established infestations. No new invaders were identified in 2010 and only a few new infestations were mapped. Several previously identified locations have been eradicated and removed from the list. All of the mapped occurrences have been given a priority rating as described below. The following criteria were considered when assigning priorities:

- ENF List “A” or “B” species status (Appendix D)
- Ability of the species to spread
- California Invasive Plant Council (CalIPC) Ranking
- Size of the occurrence
- Location of the occurrence and potential for spread
- Density of weeds within the occurrence

Each occurrence has been given a ranking of 1 through 3, with 1 being the highest priority for control and 3 being the lowest priority. In general, a ranking of 1 involves a “List A” species. Larger areas were generally given a higher ranking than smaller areas. If the occurrence is a small area of scattered, low-density “List B” species, it received a ranking of 3. Occurrences with a priority ranking of 1 or 2 should be considered as significant targets for eradication. If occurrences appeared to be new infestations, they were given a priority of 1 or 2.

Because Himalayan blackberry is relatively widespread, it was not given a rating of 1 even though the CalIPC scores it “high”, with severe impacts and invasiveness. A ranking of 1 was restricted to other “List A” species with a high CalIPC rating and a high probability to spread. Cheatgrass is also widespread and is listed as highly invasive but control of this species with herbicide is easier than Himalayan blackberry. Cheatgrass occurrences were prioritized as level 1 based on input from Matt Brown, botanist with the ENF (2009).
If an occurrence observed and recorded in 2008 was eradicated in 2009, the priority list in the 2009 report indicates that control of the occurrence was “complete”. If no noxious weeds were observed at these same locations in 2010, then the data sheets were eliminated and the occurrences were removed from the priority list.

All noxious weeds located within the project area are a high priority for control, but the priority list attempts to give some guidance regarding which occurrences have the greatest potential to rapidly invade new areas or significantly alter natural landscapes. The list can serve as a tool for EID’s resource managers to use in allocating limited personnel and equipment. Tables 4 and 5 list each occurrence, along with its assigned priority. In addition, the last column “Control” indicates the level of control achieved by treatments in 2009-2010.

Table 4. Priority List of Point and Area Occurrences

<table>
<thead>
<tr>
<th>Collection Date</th>
<th>Weeds</th>
<th>MAP ID</th>
<th>X Coord.</th>
<th>Y Coord.</th>
<th>Location</th>
<th>Priority</th>
<th>Control*</th>
</tr>
</thead>
<tbody>
<tr>
<td>5/21/2010</td>
<td>RUAR9, CIVU, LALA4</td>
<td>Area1-08</td>
<td></td>
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*Values could be: Complete, Good, Moderate or No (no weed control observed).*
### Table 5. Priority List of Linear Occurrences

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3.3 Project Facilities
A brief summary of what was found at each project facility surveyed in 2010 is presented below. The data sheets in Appendix C, along with the photos in Appendix B (photos are printed as a contact sheet and digital files are provided for better viewing), provide more detailed information about each occurrence.

Lake Aloha
Lake Aloha was surveyed on July 30. The lake is within Desolation Wilderness at approximately 8,000 feet. The areas around the auxiliary dams, the main dam, and other areas where work has occurred as part of Project 184 were all surveyed. No incidences of noxious weeds were observed during the survey.

Echo Lake and Echo Conduit
Echo Lake was surveyed on July 22. The parking lot, dam area, and road down to the store and boat ramp were surveyed. The entire conduit, including the piped and open ditch sections, up to the outlet into the creek, was surveyed. The survey involved walking along the conduit and observing the maintained area immediately adjacent to the conduit for noxious weeds. No incidences of noxious weeds were observed during the survey.

Caples Lake
Caples Lake was surveyed on July 16. Facilities surveyed include both dams, the parking area near the overflow spillway, the area around the Quonset hut, the Woods Creek Fishing Access parking area, and the new boat launch area and access road. A few individual wooly mullein plants were observed near the dam and overflow channel on the west side of the lake. All of the areas surrounding the new boat launch construction were surveyed since new construction has the potential to introduce new noxious weeds. No new infestations were observed this year but next year will be another critical year to see if dormant weed seeds germinate and begin to colonize disturbed ground around the site. At the Woods Creek Fishing Access there are no noxious weeds.

Note: Following this survey, USFS botanist Matt Brown noted and removed several yellow starthistle seedlings in the disturbed area around the new Caples Lake boat launch. This area should be thoroughly surveyed next year to ensure that starthistle or any other noxious weeds are not spreading.
Silver Lake
Silver Lake was also surveyed on July 16. The facilities surveyed include the dam and outlet area, the parking area and land surrounding the new boat launch area, the road and parking area for the Sandy Cove day-use area, and the area surrounding a small structure at the corner of Highway 88 and Kit Carson Road leading to the Fergusson point day-use area. The very small occurrence of wooly mullein and bull thistle observed in 2008 near the small structure at the corner of Highway 88 and Kit Carson Road has returned. This area has not been treated and the few weeds here have likely been restricted to this small area of disturbed soil around the structure for many years; appearing in varying numbers from year to year. The wooly mullein along the shore near the recently removed Kay’s Resort is still present; however, the sweet clover observed last year has been removed during the construction and restoration of the site.

El Dorado Diversion Dam
The El Dorado Diversion Dam, near Kyburz, was surveyed on July 8. The facilities surveyed at this site include a short access road from Highway 50, the fish ladder and associated structures, and the gate area on the south side of the river. The site has some large areas of historically disturbed soil near the fish ladder, along the north bank of the river. Point 47-08 contains a mixture of sweet pea, yellow starthistle, mustard, cheat grass and wooly mullein covering approximately 50% of 0.25 acre of disturbed ground. Sweet pea is the dominant weed. Just downstream (west) of point 47-08, point 41-08 also contains primarily sweet pea. In 2008, wooly mullein and ox-eye daisy were scattered throughout this area but appear to have been controlled in 2009 by physical and/or chemical means because only a few ox-eye and mullein were observed. Sweet pea covers 5-10% of this 0.25 acre infested area, concentrated around the “Boater Put-in” sign and fish ladder.

Alder Creek Diversion Dam and Feeder
The Alder Creek Diversion Dam and Feeder were surveyed on June 23. This site begins at the Alder Creek Siphon at Camp 1 and continues along the contour toward the diversion dam, up the canyon, approximately 1 mile away. Some brush control and spraying was performed along this pipe in 2009 or early 2010. Only cheat grass was observed this year. Cheat grass is present near the start of the pipe at Camp 1 for approximately 350 feet along the pipe, as it was during the 2008 and 2009 surveys. It is scattered and patchy, comprising 1-5% of the canopy.

El Dorado Forebay
The reservoir was surveyed on May 21 and July 28. The areas surveyed include the dam and dam face; the parking and day-use area; and the grounds around the south side of the reservoir from the point where the canal enters the reservoir to the point where the canal exits the reservoir. The primary occurrence is a large area (Area 1) beginning at the toe of the dam on the north end of the reservoir. There is a significant infestation of Himalayan blackberry with perennial sweet pea interspersed throughout. The overall size of the area infested is approximately 0.25-0.33 acre, with the weeds comprising approximately 35% of the total area. Sweet pea extends up the north side of the dam in patches up to the top of the dam. The use of herbicides near sensitive areas (wetland area) of this infestation is not recommended, but higher up on the dam herbicides could be used.

In the day-use area there is a moderate infestation (5-25% of the cover) of perennial sweet pea between Forebay Road and the parking area and some scattered Klamath weed (46-08). The weed density appears to have slightly increased at this location between 2008 and 2010. Just to
the east of the parking area, between Forebay Road and the reservoir, there is a small group of
scotch broom, a “List A” species (L06-08). Several shrubs are present in a patchy distribution,
covering about 500-1,000 square feet. Because this species is highly invasive it should be
eradicated where observed. This population, observed in the 1999 survey, still remains, so
removal efforts should be continued. It has increased slightly in density since 2008, but the
overall area of infestation is about the same.

The linear infestations along the northeast shore of the reservoir mapped in 2009, L04-09 and
L05-09, are still present. The primary weeds observed here in 2010 were Himalayan blackberry,
Klamath weed and ox-eye daisy; however, wooly mullein, bull thistle and sweet pea are scattered
throughout these areas as well. The blackberry is very dense in places along the shore. Because
of the proximity to the reservoir, these occurrences may best be controlled through physical
means. Herbicides may be effective; however, there may be limited opportunity to apply
herbicide because of the proximity to the lake.

El Dorado Powerhouse
The powerhouse, located at the terminus of the Penstock along the South Fork American River,
was surveyed on May 21 and July 28. There are some Himalayan blackberry, sweet clover, and
wooly mullein along the road near the powerhouse (09-08). The overall extent is relatively
minor and appears very similar to the extent in 2008 and 2009. Given the proximity to the river
and the potential for herbicides to enter a major waterway, special care should be taken when
controlling this occurrence. On the west side of the powerhouse, leading up to the penstock trail,
there is a dense patch of sweet clover and wooly mullein that has increased in density this year
but not overall extent. Just above the powerhouse, along the lower penstock, there is a significant
amount of Himalayan blackberry that has been there since 2008.

El Dorado Canal

Beat 1
This portion of the canal was surveyed on July 8. Beat 1 extends from the El Dorado
diversion dam down to the Alder Creek Siphon at Camp 1 and includes large areas
affected by the Cleveland Fire. Two minor noxious weed occurrences near Carpenter
Creek, identified in 2008, include ox-eye daisy and Klamath weed. One of these, point
40-08, appeared eradicated in 2009, but was observed in 2010. The minor occurrence of
Klamath weed near an un-named creek just east of 30Milestone access road (10-09) was
nearly controlled. A small new occurrence of Klamath weed was mapped near a short
tunnel that the canal passes through. The next two occurrences are in the burned area and
include two “List A” species, rush skeletonweed and starthistle scattered in a strip along
the canal bench. The “List A” weed density at both of these locations has been
significantly reduced as a result of treatments in 2008 and 2009. In fact, the only
skeletonweed or yellow starthistle observed at these locations were some scattered
individuals outside the fence. Cheat grass is still present, mostly outside the fenced area
along the canal. An increase in wooly mullein was also observed in these areas,
primarily as dense clumps outside the fence.
**El Dorado Tunnel**
This short stretch of canal lies between the Alder Creek Siphon and the El Dorado Tunnel. In 2008, there were significant numbers of sweet clover and Klamath weed, especially near the gate. Weed control treatments have significantly reduced the density of weeds along this section in 2009 and 2010.

**Beat 2**
Beat 2 was surveyed on July 1. This is a very short stretch of canal between the Mill-Bull Tunnel and the Plum Creek Siphon. One incident of cheat grass has been identified around the facilities where the canal enters the Plum Creek Siphon (09-09). This occurrence appeared the same as last year. No other occurrences were identified.

**Beat 3**
Beat 3 was surveyed on July 1. This section of canal begins at the outlet of the Plum Creek Siphon at Camp X and ends at the outlet of the Esmeralda Creek Tunnel. This section of canal has eight mapped occurrences, most of which are Himalayan blackberry and sweet pea. Two of the occurrences include ox-eye daisy as well. Four occurrences, L18-08, L19-08, 28-08, and 29-08 are all near Ogilby Creek and all are fairly close together and contain the same mixture of blackberry and sweet pea. Herbicide treatments between 2008 and 2010 along the canal have significantly reduced the density of weeds at these locations. Caution should be used when treating these occurrences due to their proximity to the creek. Blackberry at 26-08 has been almost completely eradicated. L16-08, at the west end of Beat 3 was eradicated in 2009 and remains so in 2010.

**Beat 4**
Beat 4 was surveyed on June 10. This section of canal begins at the outlet of the Esmeralda Creek Tunnel and ends where the canal crosses under Highway 50. Few incidents (5) of noxious weeds were observed in this portion of the canal, and they are all relatively small areas of “List B” species. They include ox-eye daisy, sweet pea, Klamath weed, and bull thistle. The linear occurrences, L10-08 and L11-08, were completely controlled by herbicide treatments along the canal in 2009 and remained eradicated this year. In addition, noxious weeds at point 17-08 have been completely controlled. One minor new occurrence (04-10) was mapped near the terminus of Road 83, consisting of Klamath weed, bull thistle, and sweet clover (each less than <1% cover over 3,000 square feet).

**Beat 5**
Beat 5 was surveyed on June 10. This section of canal begins where the canal crosses Highway 50 and ends at Forebay Reservoir. Five locations with noxious weeds were mapped in 2008, no additional sites were mapped in 2009, and 3 new locations were mapped in 2010 (01-02-, and 03-10). These occurrences are relatively minor, consisting of some of the following weeds: sweet clover, wooly mullein, and cheat grass. Near Camp 5 there was a large amount of sweet pea along the fences around the yard and extending down to the canal in a few places (L09-08). The weeds along the canal have been greatly reduced but there are still some very dense patches of sweet pea between the canal and the Camp 5 facility. The north bank of the bench remains weed free. Point 15-08 appears to have remained weed free since 2009.
There are two very weedy areas along two separate, recently graded and graveled access roads leading down to the canal. One is near Camp 5 (L8-08) and contains a mixture of sweet clover, wooly mullein, sweet pea, and bull thistle, among a variety of other weeds, primarily along the slope between the road and the canal (20 feet wide by 300-350 feet long). The weeds were reduced in 2009 but are returning, especially sweet pea and wooly mullein. The second, similar occurrence (L07-08) containing bull thistle and sweet clover is located along an access road near the canal just before Bullion Bend and has not been treated. At point 45-08, near the tunnel entrance at the end of Beat 5, there was a large patch of sweet pea in 2008, which was mostly controlled in 2009 but appears to be returning in 2010, mostly along the fence line.

**Upper Penstock**

The upper penstock, extending from Forebay Reservoir to the surge chamber, was surveyed on May 21 and July 28. A total of six occurrences were mapped along this portion of the penstock. The most significant, high priority area of noxious weeds occurs in the section from the beginning of the penstock at Forebay to the Forebay Road undercrossing. This area contains a heavy infestation of barbed goatgrass, a “List A” species, along with several other noxious weed species. This highly invasive species appears to be thriving in this portion of the managed area along the penstock and has the potential to move into adjacent residential and openspace land nearby. It was still present this year and should be targeted for control.

Several other areas of sweet pea, Himalayan blackberry, bull thistle, and Klamath weed were documented between Forebay Road and the tunnel. These areas were treated between 2009 and 2010, achieving partial control of the weeds in these areas. Some of the weed infestations extend outside the maintenance responsibility of EID. One new linear occurrence (L03-09) of the same group of weeds was mapped in 2009 and some control was achieved in 2010.

Site L2-09, located west of the tunnel, had not been treated since it was first noted in 2009. This is a long line of very scattered, low density Klamath weed. This year hedge parsley was also observed scattered throughout the same location.

**Lower Penstock**

The lower penstock, surveyed on July 28, refers to the section of penstock between the surge chamber and the powerhouse. The site is very steep and exposed along a northwest facing slope. A total of three occurrences are mapped along this portion of the penstock. Most weeds are located along the lower third of this section of penstock. It appears some spraying may have occurred this year or late in 2009. Klamath weed, cheatgrass, and rush skeletonweed are scattered throughout the lower third of this section (L1-09), comprising 5-15% of the cover, which is an increase from last year. The blackberry along the pipe was reduced in 2009 but appears to be increasing significantly this year (20% canopy cover). The patch of blackberry at point 11-08 looks unchanged from 2008 but Klamath weed and wooly mullein have increased. Cheat grass is scattered throughout the lower third of this section of Penstock (1-5%). The patch of sweet clover at the surge chamber, included as a new point in 2009 (02-09), remains the same.
3.4 Licensee-maintained roads
Table 3, above, summarizes the noxious weeds observed along the Project 184 licensee-maintained roads. A total of 14 roads had some noxious weeds, but most were relatively minor occurrences. Six roads have “List A” noxious weeds, primarily cheatgrass, but medusa-head grass and star thistle are also present at the El Dorado Tunnel and Camp P roads, respectively. Himalayan blackberry is abundant along some roads, such as the Powerhouse Road and Highway Cut Road. Treatment along these roads significantly reduced the blackberry in places in 2009 but the blackberry is returning and additional treatments are necessary.

Table 3 also includes a summary of the roads treated during the intervening period between 2009 and 2010. The treatments performed along the roads between the surveys were not directed at removing noxious weeds; rather, they were standard vegetation maintenance. Treatments were by mechanical (mastication or weed trimmer) or chemical means. The data sheets and photos in Appendices B and C provide more information about each roadside occurrence.

3.5 Control Methods
Weed control can be accomplished through a variety of methods, but an approach that integrates a variety of techniques usually achieves more complete, longer-lasting control. The Plan outlines general guidelines for control actions and includes Integrated Weed Management Guidelines in Appendix D (EID 2008b). In addition, the IPMP for Project 184 provides more detailed guidance on weed control. The methods, with respect to herbicide use, described in the IPMP document must be adhered to for Project 184 to be in compliance with the FERC license. In addition, all herbicide applications must be recommended by a DPR-licensed Pest Control Advisor and supervised by a licensed, Qualified Applicator.

As described in the IPMP, all known locations of rare plants must be flagged with a 100-foot buffer and herbicide treatments must not be made within this zone. Figure 2 displays the locations of rare plants identified in the Project 184 boundary.

The section below describes some additional information about the control of specific weed species. Research has shown that certain treatments are more effective than others. Where information is available and applicable, these techniques are described below. Several keys to an effective integrated weed control program are:

1. Monitor weed populations and success of treatments regularly.
2. Re-seed disturbed areas with a fast growing cover crop or replant native species to out-compete weeds.
3. Allow and encourage native species to re-colonize an area after disturbance (this may conflict with vegetation management goals in some places).
4. Reduce the amount of herbicide used and/or use herbicides with selective modes of action.
5. Apply herbicide treatments at appropriate times to maximize their efficiency.

**Barbed goatgrass:** Control of this species will require several years of late winter/early spring sprays (there are no selective herbicides for this species). Re-seeding with a fast-growing native ground cover species is beneficial (Davy 2008).
Cheatgrass: Mowing or trimming cheatgrass can reduce seed production if it occurs within one week of flowering. Herbicide applications will control cheatgrass if applied in early spring, when temperatures have warmed sufficiently but before the grass has matured (there are no selective herbicides for this species). If a native perennial species is established shortly after spraying or mowing cheatgrass, control will be improved (Bosard et.al. 2000).

Yellow starthistle: Starthistle can be controlled effectively with a combination of physical and chemical methods. Mowing or trimming should be done when 2-5% of the flowering heads are blooming and may need to be repeated later in the season. Repeated mowing and revegetation with native ground cover species provides good control. Several herbicides are available, but the EPA Reduced Risk herbicide, Milestone (aminopyralid) is selective and provides pre- and post-emergence control at multiple growth stages, especially when applied early in the season (Bosard et.al. 2000).

Scotch broom: Cutting Scotch broom off at the base in September-October reduces re-sprouting and is effective in our region. If cut plants are allowed to dry on-site and burned in place early in the season the fire destroys the shallow seeds and causes other seeds to re-sprout. The seedlings then perish during the summer dry season. Triclopyr applied to basal bark using a wick and low volume is effective for small areas such as the occurrence at Forebay. Because of the extensive seed bank, all treatment needs to be monitored closely and new seedlings destroyed promptly.

Ox-eye daisy: Several herbicides work for this species, but resistance to MCPA, 2,4-D, and dicamba has been observed (Bossard et.at. 2000). If non-chemical methods are desired, mulching heavily (3-4 inches compacted) with rice straw has been shown to be effective. Be sure to use certified weed-free mulch. Early season monitoring is necessary to make sure plants are not growing through the mulch. Aminopyralid also works well for ox-eye daisy.

Klamath weed: Where the Klamath weed leaf beetle, Chrysolina quadrigemina, has been introduced, this noxious weed has been prevented from rapidly spreading and invading in most cases. The beetle is present in the project area and is likely keeping Klamath weed under control.

Himalayan blackberry: This weed requires special attention. It is often near water, so herbicide applications may not be possible or need to be done with caution. It vigorously re-sprouts when cut and herbicide applications often will not completely kill the roots, which subsequently re-sprout. Consult with a PCA regarding herbicide use, but in general, applications should be made in late summer – fall when nutrient transport to the roots is occurring. If an area is physically cleared, the new growth should be allowed to reach approximately 18 inches before a follow-up herbicide application. Caution: Excessive moisture stress may reduce herbicide effectiveness. Replanting an area recently treated for blackberry with a fast-growing native species that can shade it out helps prevent re-establishment of this species.

Others: The other weed species encountered can be controlled with standard herbicide use or other standard means as identified in the IPMP and no specific control methods are recommended.
4.0 **Summary**

Data was collected on a total of 101 weed occurrences throughout the Project 184 facilities and licensee-maintained roads in 2010. There was 1 new linear occurrence (an extension of point 05-08) and 6 new point locations. Three linear occurrences and 5 points were eliminated this year. Overall, there were relatively few significant occurrences of “List A” noxious weed species. “List A” weed species were observed along 7 roads and 9 facilities (Forebay, Diversion Dam, Alder Creek Feeder, and 5 sections of the Canal; Beat 1, Beat 2, Beat 5, El Dorado Tunnel, and the upper and lower sections of penstock). With the exception of Lake Aloha, Echo Lake and Echo Conduit, all listed facilities have some “List A” or “List B” weeds. Overall there doesn’t appear to be major spreading of the noxious weed occurrences or increases in the incidence of new occurrences.

The most common “List A” species within the Project area is cheatgrass, followed by skeleton weed. Cheatgrass is widespread in the region and the apparent increase in the number of occurrences in the 2009 data is primarily due to increased awareness of the species rather than a rapid spread of cheatgrass from 2008 to 2009. Several infestations of starthistle and skeleton weed on the canal have been greatly reduced over the last 2 years, especially along Beat 1 of the canal. The other “List A” species are found only at one or two locations. The Scotch broom along Beat 1 near the Camp 1 house has been eradicated but the Forebay occurrence still exists. The barbed goatgrass along the upper penstock near Forebay Reservoir is still present. This occurrence covers a fairly large area and should be targeted for control and monitored closely.

In 2010, the most common and widespread noxious weeds in the survey area were Himalayan blackberry, perennial sweet pea, and Klamath weed. Himalayan blackberry continues to be the most problematic in terms of spread and effect on native species. It is widespread throughout the region and is very difficult to control. Where it invades riparian areas, it out-competes native species, often forming dense, impenetrable thickets. As described above, a multi-pronged approach with follow-up treatments is often required to control this difficult to manage species. Partial control of this species was noted at the following locations in 2009: powerhouse road, highway cut road, the lower penstock, the upper penstock, and Beat 3 of the Canal. Blackberry at some of these sites increased in 2010. It appears that blackberry could remain in a pattern of spread followed by treatments that partially control the blackberry, which then returns in the subsequent year. This could maintain the blackberry infestations in a relatively static condition, which may be all that is practical.

Interestingly, there was a surge in wooly mullein in several locations this year, particularly along the upper section of the canal and lower penstock. Some large patches were noted along Beat 1 of the Canal, primarily outside the fence. This may be due to the cool, wet spring this year providing favorable conditions for this species, or it could be a result of treatment practices that have reduced other weed species and allowed mullein to increase. Continued monitoring over the next couple of years will be necessary to determine the cause and extent of any spread of this species.

With the continued implementation of the IPMP this year, high priority noxious weed occurrences will be targeted for control. The GIS database and map should be used by pest control managers to easily locate and treat high priority occurrences. By comparing next year’s
(2011) datasheets and photos with the 2008 - 2010 data, treatment programs can be evaluated and EID staff can make changes to the overall weed control strategy. The GIS database will allow resource managers to track the distribution and spread of noxious weeds at Project 184 facilities over time.

**Recommendations**

Given the effort required to survey the entire Project area and the lack of change detected in many areas, it makes sense to alter or amend the survey protocols so that the entire Project is not surveyed every year. We recommend consulting with the USFS to come to an agreement about what to survey and how often to survey. There are several alternative survey options that could be implemented. Some potential options include:

- Surveying the Project area every two years.
- Surveying only Priority 1 and 2 areas every year along with areas that have a high potential for new occurrences (recently completed construction).
- Surveying the entire Project every year except those areas that have not had any weeds since 2008.
- Some other combination of extended period between surveys and/or targeted areas for surveys.
5.0 References


DiTomaso and Healy 2007. Weeds of California and Other Western States: Volumes 1 and 2. University of California Agriculture and Natural Resources Publication 3488. Oakland, CA


EID 2006. FERC Order Issuing New License – Project 184


FERC 2008 Letter from FERC to EID. Order Modifying and Approving Noxious Plan Pursuant to U.S. Forest Service 4(e) Condition 44.


APPENDIX A
Figures
Figure 1. Regional Location and Vicinity
Figure 2. Noxious Weed and Rare Plant Occurrences
2010 Survey - FERC Project 184
Page 1 of 3
Figure 2. Noxious Weed and Rare Plant Occurrences

2010 Survey - FERC Project 184

Legend

Noxious weed points
Control
- Complete
- Good
- Moderate
- Poor
- None

Noxious weed lines
Control
- Complete
- Good
- Moderate
- Poor
- None
- Noxious weed area

Rare Plants
- Red Hills Soap Lily
- Yellow-burr Navaretia
- Pleasant Valley Mariposa Lily
- Pacific Yew

Administrative Boundaries
- USFS Land
- Communities

Hydrology
- Canal/Ditch
- Connector
- Pipeline
- Stream/River

Roads
- Highway
- Major Road
- Licensee Maint'd Roads
- USFS Roads

Prepared By:
Date: 11/4/2010 Created By: Ethan Koenigs

NAD 1983 State Plane California Feet

1 inch = 3,000 feet

0 1 20.5 Miles

Tahoe NF Placer
El Dorado NF
Douglas
Shasta NF
El Dorado NF
Tahoe NF
Placer
Douglas
Shasta NF

Page 2 of 3
Figure 2. Noxious Weed and Rare Plant Occurrences
2010 Survey - FERC Project 184
Page 3 of 3

Legend
Noxious weed points
- Complete
- Good
- Moderate
- Poor
- None

Noxious weed lines
- Complete
- Good
- Moderate
- Poor
- None

Rare Plants
- Red Hills Soap Lily
- Yellow-burr Navaretia
- Pleasant Valley Mariposa Lily
- Pacific Yew

Administrative Boundaries
- USFS Land
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- Canal/Ditch
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- Pipeline
- Stream/River

Roads
- Highway
- Major Road
- Licensee Maint'd Roads
- USFS Roads

Prepared By:
Date: 11/4/2010 Created By: Ethan Koenigs

1 inch = 3,000 feet
NAD 1983 State Plane California II Feet
APPENDIX B
Noxious Weed Occurrence Photos
May 21, 2010: Upper penstock (partial); Powerhouse Rd., Forebay res., Rd. 93
May 21, 2010: Upper penstock (partial); Powerhouse Rd., Forebay res., Rd. 93 (cont.)
June 4, 2010: Highway cut Rd. (10N40G), Rds. 81-84, 11N02Y
June 10, 2010: El Dorado Canal Beats 4 and 5
July 1, 2010: El Dorado Canal Beats 2, 3, and partial 4
July 8, 2010: El Dorado Canal Beat 1, Camp 1 rds. (74 and 75), Alder Creek diversion
July 16, 2010: Caples Lake and Silver Lake
July 22, 2010: Bend Court
July 28, 2010: Lower penstock, partial upper penstock, partial Forebay res., Moon Lane
APPENDIX C
Noxious Weed Occurrence Data Sheets
## 2010 Data Sheet Index

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<td>May 21</td>
<td>Upper penstock (partial); Powerhouse Rd., Forebay res., Rd. 93</td>
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<tr>
<td>June 4</td>
<td>Highway cut Rd. (10N40G), Rds. 81-84, 11N02Y</td>
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<tr>
<td>June 10</td>
<td>El Dorado Canal Beats 4 and 5</td>
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<tr>
<td>June 29</td>
<td>Camp 2 rds., 10N08Y, Rds. 87-89</td>
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<tr>
<td>July 1</td>
<td>El Dorado Canal Beats 2, 3, and partial 4</td>
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<td>July 8</td>
<td>El Dorado Canal Beat 1, Camp 1 rds. (74 and 75), Alder Creek diversion</td>
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<td>July 16</td>
<td>Caples Lake and Silver Lake</td>
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<td>July 22</td>
<td>Bend Court</td>
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<tr>
<td>July 28</td>
<td>Lower penstock, partial upper penstock, partial Forebay res., Moon lane</td>
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# APPENDIX C

EID Weed Observation and Monitoring Form

<table>
<thead>
<tr>
<th>Photo #</th>
<th>GPS Waypoint or feature #</th>
<th>Bearing or Direction</th>
<th>Feature/Notes</th>
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<tbody>
<tr>
<td>917/918</td>
<td>01-09</td>
<td>W/NW</td>
<td>RUAR9 – same, slight increase</td>
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<tr>
<td>919/920</td>
<td>L01-08</td>
<td>SW</td>
<td>Multiple species (BRIDID2)</td>
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<tr>
<td>921/922</td>
<td>L02-08</td>
<td>NE/SW</td>
<td>RUAR9/HYPE</td>
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<tr>
<td>926/927</td>
<td>01-08</td>
<td>E</td>
<td>RUAR9 - culvert</td>
</tr>
<tr>
<td>928</td>
<td>02-08</td>
<td>SW</td>
<td>Large patch RUAR9 near 15 mph sign – up road from bend at draw</td>
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<tr>
<td>929</td>
<td>02-08</td>
<td>W</td>
<td>At draw – downslope side</td>
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<tr>
<td>930</td>
<td>03-08</td>
<td>W-NW</td>
<td>RUAR9</td>
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<td>931/932</td>
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<td>W/W</td>
<td>RUAR9 increasing</td>
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<td>936/938</td>
<td>L01-10</td>
<td>E-NE</td>
<td>RUAR9, HYPE, &amp; CIVU – (170) ditch and upslope RUAR9/CIVU</td>
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<tr>
<td>939</td>
<td>06-08</td>
<td>SW</td>
<td>TOAR, RUAR9 – downslope along road</td>
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<tr>
<td>940</td>
<td>06-08</td>
<td>NE</td>
<td>RUAR9 – along shoulder</td>
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<tr>
<td>941/943</td>
<td>07-08</td>
<td>NE/S</td>
<td>RUAR9 / RUAR9 and CIVU in ditch</td>
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<tr>
<td>945</td>
<td>08-08</td>
<td>SW</td>
<td>RUAR9 – along shoulder, downslope</td>
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<tr>
<td>946</td>
<td>09-08</td>
<td>E</td>
<td>Near powerhouse, RUAR9 and MEOF</td>
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<tr>
<td>950/951</td>
<td>09-08</td>
<td>S/S</td>
<td>Near powerhouse, MEOF / MEOF, others</td>
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<tr>
<td>952</td>
<td>Area 1</td>
<td>W</td>
<td>Base of Forebay Reservoir</td>
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<tr>
<td>953</td>
<td>L05-08</td>
<td>E</td>
<td>AETR along upper Penstock</td>
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## Notes

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C-2
# Photo Log

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<th>Feature/Notes</th>
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<tr>
<td>954-957</td>
<td>L04-08</td>
<td>W-W-SE</td>
<td>RUAR9 and LALA4 – Partial control</td>
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<tr>
<td>958-959</td>
<td>L03-09 (08)?</td>
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<td>RUAR9 and LALA4 – Partial control</td>
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<td>960</td>
<td>13-08</td>
<td>SE</td>
<td>LALA4</td>
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<tr>
<td>961/962</td>
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<td>RUAR9 – good control</td>
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<tr>
<td>963</td>
<td>12-08</td>
<td>NW</td>
<td>Eradicated HYPE – Kodiak Trail</td>
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<td>972</td>
<td>L02-09</td>
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## Notes

Page 2

Erosion along road between blocks 9-13; waterbars needed.
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<th>General Information</th>
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<tr>
<td>Observer name(s)</td>
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<td>Site or facility name</td>
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<tr>
<td>Land use type</td>
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<td>Invaded vegetation type</td>
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<tr>
<td>Gross Area</td>
</tr>
<tr>
<td>Disturbances &amp; impacts</td>
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<tr>
<td>Associated species</td>
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<td>Environmental Conditions (e.g. soil conditions, exposure, etc.)</td>
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### Site Information

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<td>Ownership</td>
<td>Transportation Corridor</td>
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<td>Invaded vegetation type</td>
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<tr>
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### Weed Information

#### Weed Identification

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<tr>
<td>Location data accuracy</td>
<td>5-15m</td>
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<td>Location description</td>
<td>Downslope side of road. Update: RUAR9 coming back - about same size clump.</td>
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<td>Site address or other description</td>
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<tr>
<td>Gross Area</td>
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<tr>
<td>Disturbances &amp; impacts</td>
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<tr>
<td>Associated species</td>
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<td>Infested area</td>
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<tr>
<td>Canopy Cover</td>
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<tr>
<td>Appearance</td>
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<td>Distribution pattern</td>
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<td>Collection date (mm/dd/yyyy)</td>
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### Site Information

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<tbody>
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<td>Site address or other description</td>
<td>Powerhouse Road</td>
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<tr>
<td>Ownership</td>
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</tr>
<tr>
<td>Land use type</td>
<td>Transportation Corridor</td>
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<td>Roadside maintenance</td>
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<td>Associated species</td>
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### Weed Information

#### Weed Identification

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<td>hedge parsley</td>
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<td>Distribution pattern</td>
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#### Photo documentation

| 939, 940 |

#### Weed Location

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<td>NAD83</td>
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<tr>
<td>Location data accuracy</td>
<td>5-15m</td>
</tr>
<tr>
<td>Location description</td>
<td>Along road on downslope side, at a slight bend in the road near a minor drainage. Update: Increasing infestation. L 01-10 nearly continuous linear stretch of RUAR9 from above first wall down to second wall.; new line 05-08 - 06-08</td>
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### General Information

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<thead>
<tr>
<th>Collection date (mm/dd/yyyy)</th>
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### Site Information

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<td>Powerhouse Road</td>
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<td>Land use type</td>
<td>Transportation Corridor</td>
</tr>
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<td>Invaded vegetation type</td>
<td>Forest</td>
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<tr>
<td>Gross Area</td>
<td>1,000 sq. ft.</td>
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<tr>
<td>Disturbances &amp; impacts</td>
<td>Roadside maintenance</td>
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<tr>
<td>Associated species</td>
<td>Douglas Fir, Big-leaf Maple, Pacific Dogwood, Black Oak.</td>
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<tr>
<td>Environmental Conditions (e.g. soil conditions, exposure, etc.)</td>
<td>Shady, N. facing canyon</td>
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### Weed Information

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<td>Klamath weed</td>
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<tr>
<td>Canopy Cover</td>
<td>25-50%</td>
</tr>
<tr>
<td>Appearance</td>
<td>Germ'g./early growth</td>
</tr>
<tr>
<td>Distribution pattern</td>
<td>Clumpy</td>
</tr>
<tr>
<td>Photo documentation</td>
<td>941, 943</td>
</tr>
</tbody>
</table>

#### Weed Location

<table>
<thead>
<tr>
<th>Geographic location (ID)</th>
<th>07-08</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coordinate system</td>
<td>Ca. State Plane Zone 2</td>
</tr>
<tr>
<td>Datum</td>
<td></td>
</tr>
<tr>
<td>Location data accuracy</td>
<td>NAD83</td>
</tr>
<tr>
<td>Location description</td>
<td>5-15m</td>
</tr>
<tr>
<td></td>
<td>Along road near a wide bend along a small drainage extending down the road for a couple hundred feet. Update: Extent appears same as 2009 with slight increase.</td>
</tr>
<tr>
<td><strong>General Information</strong></td>
<td><strong>ID: 08-08</strong></td>
</tr>
<tr>
<td>-------------------------</td>
<td>--------------</td>
</tr>
<tr>
<td>Collection date (mm/dd/yyyy)</td>
<td>5/21/2010</td>
</tr>
<tr>
<td>Observer name(s)</td>
<td>Ethan Koenigs</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Site Information</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Site or facility name</td>
<td>El Dorado Powerhouse</td>
</tr>
<tr>
<td>Site address or other description</td>
<td>Powerhouse Road</td>
</tr>
<tr>
<td>Ownership</td>
<td></td>
</tr>
<tr>
<td>Land use type</td>
<td>Transportation Corridor</td>
</tr>
<tr>
<td>Invaded vegetation type</td>
<td>Forest</td>
</tr>
<tr>
<td>Gross Area</td>
<td>4,000 sq. ft.</td>
</tr>
<tr>
<td>Disturbances &amp; impacts</td>
<td>Roadside maintenance</td>
</tr>
<tr>
<td>Associated species</td>
<td>Douglas Fir, Canyon Live Oak, Black Oak, California Grape.</td>
</tr>
<tr>
<td>Environmental Conditions (e.g. soil conditions, exposure, etc.)</td>
<td>Shady, N. facing canyon</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Weed Information</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Weed genus and species</td>
<td>Rubus discolor, Hypericum perforatum, Lathyrus latifolius, Cirsium vulgare</td>
</tr>
<tr>
<td>Weed common name(s)</td>
<td>Himalayan Blackberry, Klamath Weed, Perennial Sweet Pea, bull thistle</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Weed Identification</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Presence or Absence</td>
<td>Present (all)</td>
</tr>
<tr>
<td>Treated</td>
<td>No</td>
</tr>
<tr>
<td>Infested area</td>
<td>500 sq. ft.</td>
</tr>
<tr>
<td>Canopy Cover</td>
<td>5-25% &lt;1% &lt;1% &lt;1%</td>
</tr>
<tr>
<td>Appearance</td>
<td>New growth</td>
</tr>
<tr>
<td>Distribution pattern</td>
<td>Clumpy</td>
</tr>
<tr>
<td>Photo documentation</td>
<td>945</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Weed Location</strong></th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Geographic location (ID)</td>
<td>08-08</td>
</tr>
<tr>
<td>Coordinate system</td>
<td>Ca. State Plane Zone 2</td>
</tr>
<tr>
<td>Datum</td>
<td>NAD83</td>
</tr>
<tr>
<td>Location data accuracy</td>
<td>5-15m</td>
</tr>
<tr>
<td>Location description</td>
<td>Along road on downslope side; SMUD powerhouse visible. LALA4 &amp; HYPE canopy cover is &lt;1%. Update: Extent of occurrence is about the same; upslope side +100'; RUAR9 extends down rd. 200'; CIVU in ditch uphill side.</td>
</tr>
<tr>
<td>General Information</td>
<td>ID: 09-08</td>
</tr>
<tr>
<td>---------------------</td>
<td>-----------</td>
</tr>
<tr>
<td>Collection date (mm/dd/yyyy)</td>
<td>5/21/2010</td>
</tr>
<tr>
<td>Observer name(s)</td>
<td>Ethan Koenigs</td>
</tr>
</tbody>
</table>

**Site Information**

<table>
<thead>
<tr>
<th>Site or facility name</th>
<th>El Dorado Powerhouse</th>
</tr>
</thead>
<tbody>
<tr>
<td>Site address or other description</td>
<td>Powerhouse Road</td>
</tr>
<tr>
<td>Ownership</td>
<td>EID</td>
</tr>
<tr>
<td>Land use type</td>
<td>Transportation Corridor Powerhouse</td>
</tr>
<tr>
<td>Invaded vegetation type</td>
<td>Forest</td>
</tr>
<tr>
<td>Gross Area</td>
<td>1/4 acres</td>
</tr>
</tbody>
</table>

**Disturbances & impacts**

| Roadside maintenance | Facility Maintenance |

**Associated species**

| Douglas Fir, Ponderosa Pine. |

**Environmental Conditions (e.g. soil conditions, exposure, etc.)**

Very exposed sunny area; many weeds among rip rap below road.

**Weed Information**

**Weed Identification**

<table>
<thead>
<tr>
<th>Weed genus and species</th>
<th>Rubus discolor</th>
<th>Melilotus alba</th>
<th>Verbasum thapsus</th>
<th>Hypericum performatum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weed common name(s)</td>
<td>Himalayan Blackberry</td>
<td>White Sweet Clover</td>
<td>Wooly mullwin</td>
<td>Klamath Weed</td>
</tr>
</tbody>
</table>

**Presence**

<table>
<thead>
<tr>
<th>Presence or Absence</th>
<th>Present (all)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Treated</td>
<td>No</td>
</tr>
</tbody>
</table>

| Infested area | 400-600 sq. ft. |

| Canopy Cover | 1-5% | 1-5% | <1% | <1% |

<table>
<thead>
<tr>
<th>Appearance</th>
<th>New growth</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distribution pattern</td>
<td>Clumpy</td>
</tr>
</tbody>
</table>

| Photo documentation | 50, 951, 653 (from 7-28-2010) |

**Weed Location**

<table>
<thead>
<tr>
<th>Geographic location (ID)</th>
<th>09-08</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coordinate system</td>
<td>Ca. State Plane Zone 2</td>
</tr>
<tr>
<td>Datum</td>
<td>NAD83</td>
</tr>
<tr>
<td>Location data accuracy</td>
<td>5-15m</td>
</tr>
</tbody>
</table>

Along road and slope leading down to the river. Update: River is likely to close for chemical treatment. Extent of occurrence is about the same as 2009. Near Powerhouse - W. side patch of S.C. (183); Sweet clover is expanding to uphill side along reinforced hillside;
<table>
<thead>
<tr>
<th>General Information</th>
<th>ID: 12-08</th>
</tr>
</thead>
<tbody>
<tr>
<td>Collection date (mm/dd/yyyy)</td>
<td>5/21/2010</td>
</tr>
<tr>
<td>Observer name(s)</td>
<td>Ethan Koenigs</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Site Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Site or facility name</td>
</tr>
<tr>
<td>Site address or other description</td>
</tr>
<tr>
<td>Ownership</td>
</tr>
<tr>
<td>Land use type</td>
</tr>
<tr>
<td>Invaded vegetation type</td>
</tr>
<tr>
<td>Gross Area</td>
</tr>
<tr>
<td>Disturbances &amp; impacts</td>
</tr>
<tr>
<td>Associated species</td>
</tr>
<tr>
<td>Environmental Conditions (e.g. soil conditions, exposure, etc.)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Weed Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weed genus and species</td>
</tr>
<tr>
<td>Weed common name(s)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Weed Identification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Presence or Absence</td>
</tr>
<tr>
<td>Treated</td>
</tr>
<tr>
<td>Infested area</td>
</tr>
<tr>
<td>Canopy Cover</td>
</tr>
<tr>
<td>Appearance</td>
</tr>
<tr>
<td>Distribution pattern</td>
</tr>
<tr>
<td>Photo documentation</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Weed Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Geographic location (ID)</td>
</tr>
<tr>
<td>Coordinate system</td>
</tr>
<tr>
<td>Datum</td>
</tr>
<tr>
<td>Location data accuracy</td>
</tr>
<tr>
<td>Location description</td>
</tr>
</tbody>
</table>
**General Information**

<table>
<thead>
<tr>
<th>Collection date (mm/dd/yyyy)</th>
<th>5/21/2010</th>
</tr>
</thead>
<tbody>
<tr>
<td>Observer name(s)</td>
<td>Ethan Koenigs</td>
</tr>
</tbody>
</table>

**Site Information**

<table>
<thead>
<tr>
<th>Site or facility name</th>
<th>EID Penstock</th>
</tr>
</thead>
<tbody>
<tr>
<td>Site address or other description</td>
<td>Between forebay reservoir and tunnel</td>
</tr>
<tr>
<td>Ownership</td>
<td>Water Transport Facility</td>
</tr>
<tr>
<td>Land use type</td>
<td>Forest</td>
</tr>
<tr>
<td>Invaded vegetation type</td>
<td>Forest</td>
</tr>
<tr>
<td>Gross Area</td>
<td>700 sq. ft.</td>
</tr>
<tr>
<td>Disturbances &amp; impacts</td>
<td>Pipe Maintenance</td>
</tr>
</tbody>
</table>

**Associated species**

- Ponderosa Pine, mountain misery (*Chameobatia foliolosa*).

**Environmental Conditions**

- Roadside shoulder - gravely soil - sunny

**Weed Information**

**Weed Identification**

- **Weed genus and species**
  - *Rubus discolor*  
  - *Lathyrus latifolius*
- **Weed common name(s)**
  - Himalayan Blackberry  
  - Perennial Sweet Pea

**Presence**

<table>
<thead>
<tr>
<th>Presence or Absence</th>
<th>Present (all)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Treated</td>
<td>Yes</td>
</tr>
<tr>
<td>Infested area</td>
<td>500 sq. ft.</td>
</tr>
<tr>
<td>Canopy Cover</td>
<td>5-25%</td>
</tr>
</tbody>
</table>
| Appearance          | Germ’g./early growth  
| Distribution pattern| New growth  
|                     | Clumpy       |
| Photo documentation | 960           |

**Weed Location**

<table>
<thead>
<tr>
<th>Geographic location (ID)</th>
<th>13-08</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coordinate system</td>
<td>Ca. State Plane Zone 2</td>
</tr>
<tr>
<td>Datum</td>
<td>NAD83</td>
</tr>
<tr>
<td>Location data accuracy</td>
<td>&lt; 1m</td>
</tr>
<tr>
<td>Location description</td>
<td>Isolated clump along Penstock road (southside). Update: Slight reduction in area but early in season.</td>
</tr>
<tr>
<td>General Information</td>
<td>ID: L01-08</td>
</tr>
<tr>
<td>---------------------</td>
<td>------------</td>
</tr>
<tr>
<td>Collection date (mm/dd/yyyy)</td>
<td>5/21/2010</td>
</tr>
<tr>
<td>Observer name(s)</td>
<td>Ethan Koenigs</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Site Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Site or facility name</td>
</tr>
<tr>
<td>Site address or other description</td>
</tr>
<tr>
<td>Ownership</td>
</tr>
<tr>
<td>Land use type</td>
</tr>
<tr>
<td>Invaded vegetation type</td>
</tr>
<tr>
<td>Gross Area</td>
</tr>
<tr>
<td>Environmental Conditions (e.g. soil conditions, exposure, etc.)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Weed Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weed genus and species</td>
</tr>
<tr>
<td>Weed common name(s)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Weed Identification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Presence or Absence</td>
</tr>
<tr>
<td>Treated</td>
</tr>
<tr>
<td>Infested area</td>
</tr>
<tr>
<td>Canopy Cover</td>
</tr>
<tr>
<td>Appearance</td>
</tr>
<tr>
<td>Distribution pattern</td>
</tr>
<tr>
<td>Photo documentation</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Weed Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Geographic location (ID)</td>
</tr>
<tr>
<td>Coordinate system</td>
</tr>
<tr>
<td>Datum</td>
</tr>
<tr>
<td>Location data accuracy</td>
</tr>
<tr>
<td>Location description</td>
</tr>
</tbody>
</table>
### General Information

<table>
<thead>
<tr>
<th>Collection date (mm/dd/yyyy)</th>
<th>5/21/2010</th>
</tr>
</thead>
<tbody>
<tr>
<td>Observer name(s)</td>
<td>Ethan Koenigs</td>
</tr>
</tbody>
</table>

### Site Information

<table>
<thead>
<tr>
<th>Site or facility name</th>
<th>El Dorado Powerhouse</th>
</tr>
</thead>
<tbody>
<tr>
<td>Site address or other description</td>
<td>Powerhouse Road</td>
</tr>
<tr>
<td>Ownership</td>
<td></td>
</tr>
<tr>
<td>Land use type</td>
<td>Transportation Corridor</td>
</tr>
<tr>
<td>Invaded vegetation type</td>
<td>Forest</td>
</tr>
<tr>
<td>Gross Area</td>
<td>2500 sq. ft.</td>
</tr>
<tr>
<td>Disturbances &amp; impacts</td>
<td>Roadside maintenance</td>
</tr>
<tr>
<td>Associated species</td>
<td>Douglas Fir, Big-leaf Maple, Pacific Dogwood, California Hazelnut.</td>
</tr>
<tr>
<td>Environmental Conditions</td>
<td>Shady, N-facing slope, gravel road</td>
</tr>
</tbody>
</table>

### Weed Information

#### Weed Identification

<table>
<thead>
<tr>
<th>Weed genus and species</th>
<th>Rubus discolor</th>
<th>Hypericum perforatum</th>
<th>Cirsium vulgare</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weed common name(s)</td>
<td>Himalayan Blackberry</td>
<td>Klamath weed</td>
<td>bull thistle</td>
</tr>
</tbody>
</table>

#### Presence

<table>
<thead>
<tr>
<th>Presence or Absence</th>
<th>Present (all)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Treated</td>
<td>No</td>
</tr>
<tr>
<td>Infested area</td>
<td>2,500 sq. ft. (including downslope and upslope)</td>
</tr>
<tr>
<td>Canopy Cover</td>
<td>5-25%</td>
</tr>
<tr>
<td>Appearance</td>
<td>Germ'g./early growth</td>
</tr>
<tr>
<td>Distribution pattern</td>
<td>Clumpy</td>
</tr>
<tr>
<td>Photo documentation</td>
<td>936,938</td>
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#### Weed Location

<table>
<thead>
<tr>
<th>Geographic location (ID)</th>
<th>L01-10 (previously 05-08)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coordinate system</td>
<td>Ca. State Plane Zone 2</td>
</tr>
<tr>
<td>Datum</td>
<td>NAD83</td>
</tr>
<tr>
<td>Location data accuracy</td>
<td>5-15m</td>
</tr>
<tr>
<td>Location description</td>
<td>Near rock/fence retaining wall; downslope side also has a small linear stretch of RUAR9 up the road from retaining wall(50'). Update: Increasing RUAR9 - encroaching on road up from wall. HYPE and CIVU in turnout. CIVU also in ditch on uphill side. Changed to a line feature for this occurrence.</td>
</tr>
<tr>
<td>General Information</td>
<td>ID: L02-08</td>
</tr>
<tr>
<td>---------------------</td>
<td>------------</td>
</tr>
<tr>
<td>Collection date (mm/dd/yyyy)</td>
<td>5/21/2010</td>
</tr>
<tr>
<td>Observer name(s)</td>
<td>Ethan Koenigs</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Site Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Site or facility name</td>
</tr>
<tr>
<td>Site address or other description</td>
</tr>
<tr>
<td>Ownership</td>
</tr>
<tr>
<td>Land use type</td>
</tr>
<tr>
<td>Invaded vegetation type</td>
</tr>
<tr>
<td>Gross Area</td>
</tr>
<tr>
<td>Disturbances &amp; impacts</td>
</tr>
<tr>
<td>Associated species</td>
</tr>
<tr>
<td>Environmental Conditions (e.g. soil conditions, exposure, etc.)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Weed Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weed genus and species</td>
</tr>
<tr>
<td>Weed common name(s)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Presence or Absence</th>
</tr>
</thead>
<tbody>
<tr>
<td>Present (all)</td>
</tr>
<tr>
<td>Treated</td>
</tr>
<tr>
<td>Infested area</td>
</tr>
<tr>
<td>Canopy Cover</td>
</tr>
<tr>
<td>Appearance</td>
</tr>
<tr>
<td>Distribution pattern</td>
</tr>
<tr>
<td>Photo documentation</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Weed Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Geographic location (ID)</td>
</tr>
<tr>
<td>Coordinate system</td>
</tr>
<tr>
<td>Datum</td>
</tr>
<tr>
<td>Location data accuracy</td>
</tr>
<tr>
<td>Location description</td>
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</tbody>
</table>
### General Information

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<th>ID: L03-08</th>
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<tr>
<td>5/21/2010</td>
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<table>
<thead>
<tr>
<th>Observer name(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethan Koenigs</td>
</tr>
</tbody>
</table>

### Site Information

<table>
<thead>
<tr>
<th>Site or facility name</th>
</tr>
</thead>
<tbody>
<tr>
<td>EID Penstock</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Site address or other description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Between forebay reservoir and tunnel</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ownership</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water Transport Facility</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Land use type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forest</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Invaded vegetation type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forest</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Gross Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.1 acres</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Disturbances &amp; impacts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pipe Maintenance</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Associated species</th>
</tr>
</thead>
<tbody>
<tr>
<td>Douglas Fir, Ponderosa Pine, Black Oak, Manzanita.</td>
</tr>
</tbody>
</table>

### Weed Information

<table>
<thead>
<tr>
<th>Weed genus and species</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Rubus discolor</em></td>
</tr>
<tr>
<td><em>Lathyrus latifolius</em></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Weed common name(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Himalayan Blackberry</td>
</tr>
<tr>
<td>Perennial Sweet Pea</td>
</tr>
</tbody>
</table>

### Weed Identification

### Presence

<table>
<thead>
<tr>
<th>Presence or Absence</th>
</tr>
</thead>
<tbody>
<tr>
<td>Present (all)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Treated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Infested area</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 acres</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Canopy Cover</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-5%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Appearance</th>
</tr>
</thead>
<tbody>
<tr>
<td>New growth</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Distribution pattern</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clumpy</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Photo documentation</th>
</tr>
</thead>
<tbody>
<tr>
<td>961/962</td>
</tr>
</tbody>
</table>

### Weed Location

<table>
<thead>
<tr>
<th>Geographic location (ID)</th>
</tr>
</thead>
<tbody>
<tr>
<td>L03-08</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Coordinate system</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ca. State Plane Zone 2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Datum</th>
</tr>
</thead>
<tbody>
<tr>
<td>NAD83</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Location data accuracy</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt; 1m</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Location description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Edge of Penstock road on downslope, south side of road; continues into a ravine (most weeds in ravine). Update: Great control of most everything. Blackberry still present down in ravine.</td>
</tr>
</tbody>
</table>

C-18
<table>
<thead>
<tr>
<th><strong>General Information</strong></th>
<th><strong>ID:</strong> L04-08</th>
</tr>
</thead>
<tbody>
<tr>
<td>Collection date (mm/dd/yyyy)</td>
<td>5/21/2010</td>
</tr>
<tr>
<td>Observer name(s)</td>
<td>Ethan Koenigs</td>
</tr>
</tbody>
</table>

### Site Information

<table>
<thead>
<tr>
<th><strong>Site or facility name</strong></th>
<th>EID Penstock</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Site address or other description</strong></td>
<td>Between Forebay reservoir and tunnel</td>
</tr>
<tr>
<td><strong>Ownership</strong></td>
<td>Water Transport Facility</td>
</tr>
<tr>
<td><strong>Land use type</strong></td>
<td>Forest</td>
</tr>
<tr>
<td><strong>Invaded vegetation type</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Gross Area</strong></td>
<td>0.5 acres</td>
</tr>
<tr>
<td><strong>Disturbances &amp; impacts</strong></td>
<td>Pipe Maintenance Other man-made disturbance tree removal</td>
</tr>
<tr>
<td><strong>Associated species</strong></td>
<td>Ponderosa Pine, Black Oak.</td>
</tr>
<tr>
<td><strong>Environmental Conditions (e.g. soil conditions, exposure, etc.)</strong></td>
<td>Very exposed.</td>
</tr>
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</table>

### Weed Information

#### Weed Identification

<table>
<thead>
<tr>
<th>Weed genus and species</th>
<th><strong>Cirsium vulgare</strong></th>
<th><strong>Rubus discolor</strong></th>
<th><strong>Lathyrus latifolius</strong></th>
<th><strong>Bromus diandrus</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Weed common name(s)</td>
<td>Bull Thistle</td>
<td>Himalayan Blackberry</td>
<td>Perennial Sweet Pea</td>
<td>ripgut</td>
</tr>
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</table>

#### Presence

<table>
<thead>
<tr>
<th>Presence or Absence</th>
<th>Present (all)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Treated</td>
<td>Not all</td>
</tr>
<tr>
<td>Infested area</td>
<td>0.5 acres</td>
</tr>
<tr>
<td>Canopy Cover</td>
<td>50-75% all</td>
</tr>
<tr>
<td>Appearance</td>
<td>Germ'g./early growth</td>
</tr>
<tr>
<td>Distribution pattern</td>
<td>Clumpy Linear</td>
</tr>
<tr>
<td>Photo documentation</td>
<td>954-957</td>
</tr>
</tbody>
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### Weed Location

<table>
<thead>
<tr>
<th>Geographic location (ID)</th>
<th>L04-08</th>
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<tbody>
<tr>
<td>Coordinate system</td>
<td>Ca. State Plane Zone 2</td>
</tr>
<tr>
<td>Datum</td>
<td>NAD83</td>
</tr>
<tr>
<td>Location data accuracy</td>
<td>&lt; 1m</td>
</tr>
<tr>
<td>Location description</td>
<td>Much of the HBB is downslope from the Penstock road in a disturbed area. Update: LALA4 patchy near gate, downslope. RUAR9 still heavy south of penstock, may have been treated - partial control; vinca major upslope side of new road</td>
</tr>
<tr>
<td>General Information</td>
<td>ID: L05-08</td>
</tr>
<tr>
<td>---------------------</td>
<td>------------</td>
</tr>
<tr>
<td>Collection date (mm/dd/yyyy)</td>
<td>5/21/2010</td>
</tr>
<tr>
<td>Observer name(s)</td>
<td>Ethan Koenigs</td>
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### Site Information

<table>
<thead>
<tr>
<th>Site or facility name</th>
<th>EID Penstock</th>
</tr>
</thead>
<tbody>
<tr>
<td>Site address or other description</td>
<td>Between outlet of Forebay Reservoir and Tunnel</td>
</tr>
<tr>
<td>Ownership</td>
<td>Water Transport Facility</td>
</tr>
<tr>
<td>Land use type</td>
<td>Forest</td>
</tr>
<tr>
<td>Invaded vegetation type</td>
<td></td>
</tr>
<tr>
<td>Gross Area</td>
<td>0.1 acres</td>
</tr>
<tr>
<td>Disturbances &amp; impacts</td>
<td>Pipe Maintenance</td>
</tr>
<tr>
<td>Associated species</td>
<td>Ponderosa Pine, Annual Grasses, other weedy species, incense cedar</td>
</tr>
<tr>
<td>Environmental Conditions (e.g. soil conditions, exposure, etc.)</td>
<td>Open area, fairly level</td>
</tr>
</tbody>
</table>

### Weed Information

<table>
<thead>
<tr>
<th>Weed Identification</th>
</tr>
</thead>
</table>
| Weed genus and species | Aegilops triuncialis  
Barbed goatgrass |
| Cirsium vulgare  
Bull Thistle |
| Lathyrus latifolius  
Perennial Sweet Pea |
| Bromus diandrus  
ripgut |

<table>
<thead>
<tr>
<th>Presence</th>
</tr>
</thead>
<tbody>
<tr>
<td>Presence or Absence</td>
</tr>
<tr>
<td>Treated</td>
</tr>
<tr>
<td>Infested area</td>
</tr>
</tbody>
</table>
| Canopy Cover | 25-50%  
<1%  
1-5%  
1-5% |
| Appearance | New growth  
New growth |
| Distribution pattern | Scattered patchy |
| Photo documentation | 953 |

### Weed Location

<table>
<thead>
<tr>
<th>Geographic location (ID)</th>
<th>L05-08</th>
</tr>
</thead>
<tbody>
<tr>
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<td>Ca. State Plane Zone 2</td>
</tr>
<tr>
<td>Datum</td>
<td>NAD83</td>
</tr>
<tr>
<td>Location data accuracy</td>
<td>&lt; 1m</td>
</tr>
<tr>
<td>Location description</td>
<td>Between Penstock and access road to base of forebay. BGG is along Penstock fairly evenly; SP and BT are patchy. Update: Patch of LALA4 near road where penstock crosses; couple of VETH; AETR appears same</td>
</tr>
<tr>
<td>General Information</td>
<td>ID: L03-09</td>
</tr>
<tr>
<td>---------------------</td>
<td>------------</td>
</tr>
<tr>
<td>Collection date (mm/dd/yyyy)</td>
<td>5/21/2010</td>
</tr>
<tr>
<td>Observer name(s)</td>
<td>Ethan Koenigs</td>
</tr>
<tr>
<td><strong>Site Information</strong></td>
<td></td>
</tr>
<tr>
<td>Site or facility name</td>
<td>EID Penstock</td>
</tr>
<tr>
<td>Site address or other description</td>
<td>Between Forebay reservoir and Tunnel.</td>
</tr>
<tr>
<td>Ownership</td>
<td></td>
</tr>
<tr>
<td>Land use type</td>
<td>Water Transport Facility</td>
</tr>
<tr>
<td>Invaded vegetation type</td>
<td>Forest</td>
</tr>
<tr>
<td>Gross Area</td>
<td>1500 sq. ft.</td>
</tr>
<tr>
<td>Disturbances &amp; impacts</td>
<td>Roadside maintenance</td>
</tr>
<tr>
<td>Associated species</td>
<td>Douglas Fir, Ponderosa Pine, Mountain misery.</td>
</tr>
<tr>
<td>Environmental Conditions (e.g. soil conditions, exposure, etc.)</td>
<td>open, exposed, gentle slope</td>
</tr>
<tr>
<td><strong>Weed Information</strong></td>
<td></td>
</tr>
<tr>
<td>Weed genus and species</td>
<td>Rubus discolor Lathyrus latifolius</td>
</tr>
<tr>
<td>Weed common name(s)</td>
<td>Himalayan Blackberry Perennial Sweet Pea</td>
</tr>
<tr>
<td><strong>Weed Identification</strong></td>
<td></td>
</tr>
<tr>
<td>Presence or Absence</td>
<td>Present (all)</td>
</tr>
<tr>
<td>Treated</td>
<td>Yes</td>
</tr>
<tr>
<td>Infested area</td>
<td>1500 sq. ft.</td>
</tr>
<tr>
<td>Canopy Cover</td>
<td>5-25%</td>
</tr>
<tr>
<td>Appearance</td>
<td>New growth</td>
</tr>
<tr>
<td>Distribution pattern</td>
<td>Clumpy Linear</td>
</tr>
<tr>
<td>Photo documentation</td>
<td>958, 959</td>
</tr>
<tr>
<td><strong>Weed Location</strong></td>
<td></td>
</tr>
<tr>
<td>Geographic location (ID)</td>
<td>L01-09</td>
</tr>
<tr>
<td>Coordinate system</td>
<td>Ca. State Plane Zone 2</td>
</tr>
<tr>
<td>Datum</td>
<td>NAD83</td>
</tr>
<tr>
<td>Location data accuracy</td>
<td>&lt; 1m</td>
</tr>
<tr>
<td>Location description</td>
<td>Just west of L04-08; South side of road. Update: Partial control of RUAR9</td>
</tr>
</tbody>
</table>
### APPENDIX C

**EID Weed Observation and Monitoring Form**

<table>
<thead>
<tr>
<th>Photo #</th>
<th>GPS Waypoint or feature #</th>
<th>Bearing or Direction</th>
<th>Feature/Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>41/42</td>
<td>L15-08</td>
<td>SW</td>
<td>RUAR9 on shoulder Highway Cut Road</td>
</tr>
<tr>
<td>43</td>
<td>24-08</td>
<td>SW</td>
<td>RUAR9 coming back along N shoulder</td>
</tr>
<tr>
<td>44</td>
<td>L14-08</td>
<td>SW</td>
<td>RUAR9/LALA4 increasing</td>
</tr>
<tr>
<td>45</td>
<td>L14-08</td>
<td>SW</td>
<td>RUAR9/CIVU growing out to road</td>
</tr>
<tr>
<td>47</td>
<td>01-10</td>
<td>W</td>
<td>RUAR9/CIVU/VETH in turnout – N side</td>
</tr>
<tr>
<td>48</td>
<td>22-08</td>
<td>S</td>
<td>RUAR9 along road shoulder – low density</td>
</tr>
<tr>
<td>49</td>
<td>21-08</td>
<td>SW</td>
<td>RUAR9 NW side of road – 1&lt;sup&gt;st&lt;/sup&gt;</td>
</tr>
<tr>
<td>50</td>
<td>21-08</td>
<td>SW</td>
<td>RUAR9 NW side of road – 2&lt;sup&gt;nd&lt;/sup&gt;</td>
</tr>
<tr>
<td>51</td>
<td>21-08</td>
<td>SW</td>
<td>RUAR9 NW side of road – 3&lt;sup&gt;rd&lt;/sup&gt; patch</td>
</tr>
<tr>
<td>52</td>
<td>20-08</td>
<td>NW</td>
<td>RUAR9 coming back after treatment</td>
</tr>
<tr>
<td>53</td>
<td>19-08</td>
<td>NW</td>
<td>RUAR9 coming back</td>
</tr>
<tr>
<td>54</td>
<td>18-08</td>
<td>S</td>
<td>RUAR9 sparse but coming back</td>
</tr>
<tr>
<td>62/63</td>
<td>L13-08</td>
<td></td>
<td>R-83 access road – RUAR9/CIVU</td>
</tr>
<tr>
<td>064</td>
<td>04-09</td>
<td>N-NW</td>
<td>RUAR9 on E side of road</td>
</tr>
<tr>
<td>065</td>
<td>L12-08</td>
<td>NW</td>
<td>RUAR9 on NE side of road</td>
</tr>
</tbody>
</table>

### Notes

- New camera
- 0046 - CIVU
## Photo Log

<table>
<thead>
<tr>
<th>Photo #</th>
<th>GPS Waypoint or feature #</th>
<th>Bearing or Direction</th>
<th>Feature/Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>066</td>
<td>L12-08</td>
<td>NW</td>
<td>RUAR9 in road</td>
</tr>
<tr>
<td>67</td>
<td>16-08</td>
<td>NE</td>
<td>RUAR9 N side of road</td>
</tr>
<tr>
<td>68</td>
<td>3-09</td>
<td>SE</td>
<td>RUAR9 S side of road</td>
</tr>
<tr>
<td>71</td>
<td>L06-09</td>
<td></td>
<td>MEOF – Hazel Creek Tunnel Road</td>
</tr>
</tbody>
</table>

## Notes

Page 2

Erosion along road between blocks 9-13; waterbars needed.
**General Information**

<table>
<thead>
<tr>
<th>Collection date (mm/dd/yyyy)</th>
<th>6/4/2010</th>
</tr>
</thead>
<tbody>
<tr>
<td>Observer name(s)</td>
<td>Ethan Koenigs</td>
</tr>
</tbody>
</table>

**Site Information**

<table>
<thead>
<tr>
<th>Site or facility name</th>
<th>Access Road</th>
</tr>
</thead>
<tbody>
<tr>
<td>Site address or other description</td>
<td>Road from Hazel Creek Road to Hazel Tunnel</td>
</tr>
<tr>
<td>Ownership</td>
<td>Transportation Corridor</td>
</tr>
<tr>
<td>Land use type</td>
<td>Forest</td>
</tr>
<tr>
<td>Invaded vegetation type</td>
<td>Forest</td>
</tr>
<tr>
<td>Gross Area</td>
<td>300 sq. ft.</td>
</tr>
<tr>
<td>Disturbances &amp; impacts</td>
<td>Roadside maintenance</td>
</tr>
<tr>
<td>Associated species</td>
<td>Douglas Fir, Ponderosa Pine, Incense Cedar, Big-leaf Maple, California Rose.</td>
</tr>
<tr>
<td>Environmental Conditions (e.g. soil conditions, exposure, etc.)</td>
<td>Gravel along Road</td>
</tr>
</tbody>
</table>

**Weed Information**

**Weed Identification**

<table>
<thead>
<tr>
<th>Weed genus and species</th>
<th>Rubus discolor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weed common name(s)</td>
<td>Himalayan Blackberry</td>
</tr>
</tbody>
</table>

**Presence**

<table>
<thead>
<tr>
<th>Presence or Absence</th>
<th>Present (all)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Treated</td>
<td>No</td>
</tr>
<tr>
<td>Infested area</td>
<td>300 sq. ft.</td>
</tr>
<tr>
<td>Canopy Cover</td>
<td>25-50%</td>
</tr>
<tr>
<td>Appearance</td>
<td>New growth</td>
</tr>
<tr>
<td>Distribution pattern</td>
<td>Clumpy</td>
</tr>
<tr>
<td>Photo documentation</td>
<td>41/42</td>
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**Weed Location**

<table>
<thead>
<tr>
<th>Geographic location (ID)</th>
<th>04-09</th>
</tr>
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<tbody>
<tr>
<td>Coordinate system</td>
<td>Ca. State Plane Zone 2</td>
</tr>
<tr>
<td>Datum</td>
<td>NAD83</td>
</tr>
<tr>
<td>Location data accuracy</td>
<td>&lt; 1m</td>
</tr>
<tr>
<td>Location description</td>
<td>Approx. 150' from gate at start of road. Minor occurrence. Slight increase from 2009.</td>
</tr>
<tr>
<td>General Information</td>
<td>ID: 05-10</td>
</tr>
<tr>
<td>-------------------------------------</td>
<td>-----------</td>
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<tr>
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<td>6/4/2010</td>
</tr>
<tr>
<td>Observer name(s)</td>
<td>Ethan Koenigs</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Site Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Site or facility name</td>
</tr>
<tr>
<td>Site address or other description</td>
</tr>
<tr>
<td>Ownership</td>
</tr>
<tr>
<td>Land use type</td>
</tr>
<tr>
<td>Invaded vegetation type</td>
</tr>
<tr>
<td>Gross Area</td>
</tr>
<tr>
<td>Disturbances &amp; impacts</td>
</tr>
<tr>
<td>Associated species</td>
</tr>
<tr>
<td>Environmental Conditions (e.g. soil conditions, exposure, etc.)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Weed Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weed genus and species</td>
</tr>
<tr>
<td>Weed common name(s)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Weed Identification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Presence or Absence</td>
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</tr>
<tr>
<td>Appearance</td>
</tr>
<tr>
<td>Distribution pattern</td>
</tr>
<tr>
<td>Photo documentation</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Weed Location</th>
</tr>
</thead>
<tbody>
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<td>Geographic location (ID)</td>
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<tr>
<td>Location data accuracy</td>
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<tr>
<td>Location description</td>
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<tr>
<td>General Information</td>
</tr>
<tr>
<td>---------------------</td>
</tr>
<tr>
<td>Collection date (mm/dd/yyyy)</td>
</tr>
<tr>
<td>Observer name(s)</td>
</tr>
</tbody>
</table>

**Site Information**

<table>
<thead>
<tr>
<th>Site or facility name</th>
<th>Access Road</th>
</tr>
</thead>
<tbody>
<tr>
<td>Site address or other description</td>
<td>El Dorado Ditch Rd.</td>
</tr>
<tr>
<td>Ownership</td>
<td>Transportation Corridor</td>
</tr>
<tr>
<td>Land use type</td>
<td>Forest</td>
</tr>
<tr>
<td>Invaded vegetation type</td>
<td></td>
</tr>
</tbody>
</table>

| Gross Area | 800 sq. ft. |
| Disturbances & impacts | Roadside maintenance |
| Associated species | Douglas Fir, Ponderosa Pine, Dogwood, Big-leaf Maple, Thimble Berry, Native blackberry. |
| Environmental Conditions (e.g. soil conditions, exposure, etc.) | Shady near drainage. |

**Weed Information**

<table>
<thead>
<tr>
<th>Weed Identification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weed genus and species</td>
</tr>
<tr>
<td>Weed common name(s)</td>
</tr>
</tbody>
</table>

**Presence**

| Presence or Absence | Present (all) |
| Treated | No |
| Infested area | 800 sq. ft. |
| Canopy Cover | 5-25% |
| Appearance | Germ'g./early growth |
| Distribution pattern | Clumpy |
| Photo documentation | 67/68 |

**Weed Location**

<p>| Geographic location (ID) | 16-08, 03-09 |
| Coordinate system | Ca. State Plane Zone 2 |
| Datum | NAD83 |
| Location data accuracy | &lt; 1m |
| Location description | 2 pts, first occurrence at an outer bend in road (16-08); second occurrence at an interior bend in road at a draw - 300' down road, just above the canal (03-09); Update: modest increase in RUAR9. |</p>
<table>
<thead>
<tr>
<th>General Information</th>
<th>ID: 18-08</th>
</tr>
</thead>
<tbody>
<tr>
<td>Collection date (mm/dd/yyyy)</td>
<td>6/4/2010</td>
</tr>
<tr>
<td>Observer name(s)</td>
<td>Ethan Koenigs</td>
</tr>
<tr>
<td>Site Information</td>
<td></td>
</tr>
<tr>
<td>Site or facility name</td>
<td>Access Road</td>
</tr>
<tr>
<td>Site address or other description</td>
<td>Highway Cut Road</td>
</tr>
<tr>
<td>Ownership</td>
<td>Transportation Corridor</td>
</tr>
<tr>
<td>Land use type</td>
<td>Forest</td>
</tr>
<tr>
<td>Invaded vegetation type</td>
<td></td>
</tr>
<tr>
<td>Gross Area</td>
<td>500 sq. ft.</td>
</tr>
<tr>
<td>Disturbances &amp; impacts</td>
<td>Roadside maintenance</td>
</tr>
<tr>
<td>Associated species</td>
<td>Mixed Conifer and Hardwood; some riparian associates.</td>
</tr>
<tr>
<td>Environmental Conditions (e.g. soil conditions, exposure, etc.)</td>
<td></td>
</tr>
<tr>
<td>Weed Information</td>
<td></td>
</tr>
<tr>
<td>Weed genus and species</td>
<td><em>Rubus discolor</em></td>
</tr>
<tr>
<td>Weed common name(s)</td>
<td>Himalayan Blackberry</td>
</tr>
<tr>
<td>Presence or Absence (If P &amp; A list)</td>
<td></td>
</tr>
<tr>
<td>Absence next to drop list</td>
<td>Present (all)</td>
</tr>
<tr>
<td>Treated</td>
<td>Growing Back</td>
</tr>
<tr>
<td>Infested area</td>
<td>500 sq. ft.</td>
</tr>
<tr>
<td>Canopy Cover</td>
<td>1-5%</td>
</tr>
<tr>
<td>Appearance</td>
<td>New growth</td>
</tr>
<tr>
<td>Distribution pattern</td>
<td>Clumpy</td>
</tr>
<tr>
<td>Photo documentation</td>
<td>Linear</td>
</tr>
<tr>
<td>Weed Location</td>
<td></td>
</tr>
<tr>
<td>Geographic location (ID)</td>
<td>18-08</td>
</tr>
<tr>
<td>Coordinate system</td>
<td>Ca. State Plane Zone 2</td>
</tr>
<tr>
<td>Datum</td>
<td>NAD83</td>
</tr>
<tr>
<td>Location data accuracy</td>
<td>&lt; 1m</td>
</tr>
<tr>
<td>Location description</td>
<td>At sharp hairpin turn where road incline increases, on downhill side of road. Update: No LALA4; RUAR9 starting to return from edge of road.</td>
</tr>
</tbody>
</table>
**General Information**

<table>
<thead>
<tr>
<th>Collection date (mm/dd/yyyy)</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Observer name(s)</td>
<td>Ethan Koenigs</td>
</tr>
</tbody>
</table>

**Site Information**

<table>
<thead>
<tr>
<th>Site or facility name</th>
<th>Access Road</th>
</tr>
</thead>
<tbody>
<tr>
<td>Site address or other description</td>
<td>Highway Cut Road</td>
</tr>
<tr>
<td>Ownership</td>
<td>Transportation Corridor</td>
</tr>
<tr>
<td>Land use type</td>
<td>Forest</td>
</tr>
<tr>
<td>Invaded vegetation type</td>
<td>Forest</td>
</tr>
<tr>
<td>Gross Area</td>
<td>250-500 sq. ft.</td>
</tr>
<tr>
<td>Disturbances &amp; impacts</td>
<td>Roadside maintenance</td>
</tr>
<tr>
<td>Associated species</td>
<td>Mixed Conifer and Hardwood</td>
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**Weed Information**

**Weed Identification**

<table>
<thead>
<tr>
<th>Weed genus and species</th>
<th>Rubus armeniacus</th>
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<tr>
<td>Weed common name(s)</td>
<td>Himalayan Blackberry</td>
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**Presence**

<table>
<thead>
<tr>
<th>Presence or Absence</th>
<th>Present (all)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Treated</td>
<td>Growing Back</td>
</tr>
<tr>
<td>Infested area</td>
<td>250 sq. ft.</td>
</tr>
<tr>
<td>Canopy Cover</td>
<td>5-25%</td>
</tr>
<tr>
<td>Appearance</td>
<td>New growth</td>
</tr>
<tr>
<td>Distribution pattern</td>
<td>Clumpy</td>
</tr>
<tr>
<td>Photo documentation</td>
<td>53</td>
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**Weed Location**

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<tbody>
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<td>Coordinate system</td>
<td>Ca. State Plane Zone 2</td>
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<tr>
<td>Datum</td>
<td>NAD83</td>
</tr>
<tr>
<td>Location data accuracy</td>
<td>&lt; 1m</td>
</tr>
<tr>
<td>Location description</td>
<td>Along edge of road. Update: RUAR9 coming back, esp. near stump.</td>
</tr>
<tr>
<td>General Information</td>
<td>ID: 20-08</td>
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<td>---------------------</td>
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<tr>
<td>Observer name(s)</td>
<td>Ethan Koenigs</td>
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<tbody>
<tr>
<td>Site or facility name</td>
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<tr>
<td>Site address or other description</td>
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<tr>
<td>Ownership</td>
</tr>
<tr>
<td>Land use type</td>
</tr>
<tr>
<td>Invaded vegetation type</td>
</tr>
<tr>
<td>Gross Area</td>
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<tr>
<td>Disturbances &amp; impacts</td>
</tr>
<tr>
<td>Associated species</td>
</tr>
<tr>
<td>Environmental Conditions (e.g. soil conditions, exposure, etc.)</td>
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<table>
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<tr>
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</tr>
<tr>
<td>Weed genus and species</td>
</tr>
<tr>
<td>Weed common name(s)</td>
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<table>
<thead>
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<tbody>
<tr>
<td>Presence or Absence</td>
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<tr>
<td>Canopy Cover</td>
</tr>
<tr>
<td>Appearance</td>
</tr>
<tr>
<td>Distribution pattern</td>
</tr>
<tr>
<td>Photo documentation</td>
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<tbody>
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<td>Coordinate system</td>
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<tr>
<td>Datum</td>
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<tr>
<td>Location data accuracy</td>
</tr>
<tr>
<td>Location description</td>
</tr>
<tr>
<td><strong>General Information</strong></td>
</tr>
<tr>
<td>-------------------------</td>
</tr>
<tr>
<td>Collection date (mm/dd/yyyy)</td>
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<tr>
<td>Observer name(s)</td>
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<th><strong>Site Information</strong></th>
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<tbody>
<tr>
<td>Site or facility name</td>
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<tr>
<td>Site address or other description</td>
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<td>Ownership</td>
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<tr>
<td>Land use type</td>
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<tr>
<td>Invaded vegetation type</td>
</tr>
<tr>
<td>Gross Area</td>
</tr>
<tr>
<td>Disturbances &amp; impacts</td>
</tr>
<tr>
<td>Associated species</td>
</tr>
<tr>
<td>Environmental Conditions (e.g. soil conditions, exposure, etc.)</td>
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</tbody>
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<table>
<thead>
<tr>
<th><strong>Weed Information</strong></th>
<th><strong>Weed Identification</strong></th>
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<tbody>
<tr>
<td>Weed genus and species</td>
<td><em>Cirsium vulgare</em></td>
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<td>Bull Thistle</td>
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<table>
<thead>
<tr>
<th><strong>Presence</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Presence or Absence</td>
</tr>
<tr>
<td>Treated</td>
</tr>
<tr>
<td>Infested area</td>
</tr>
<tr>
<td>Canopy Cover</td>
</tr>
<tr>
<td>Appearance</td>
</tr>
<tr>
<td>Distribution pattern</td>
</tr>
<tr>
<td>Photo documentation</td>
</tr>
</tbody>
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<tr>
<td>Geographic location (ID)</td>
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<tr>
<td>Datum</td>
</tr>
<tr>
<td>Location data accuracy</td>
</tr>
<tr>
<td>Location description</td>
</tr>
<tr>
<td><strong>General Information</strong></td>
</tr>
<tr>
<td>------------------------</td>
</tr>
<tr>
<td>Collection date (mm/dd/yyyy)</td>
</tr>
<tr>
<td>Observer name(s)</td>
</tr>
</tbody>
</table>

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<thead>
<tr>
<th><strong>Site Information</strong></th>
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</thead>
<tbody>
<tr>
<td><strong>Site or facility name</strong></td>
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<tr>
<td><strong>Site address or other description</strong></td>
</tr>
<tr>
<td><strong>Ownership</strong></td>
</tr>
<tr>
<td><strong>Land use type</strong></td>
</tr>
<tr>
<td><strong>Invaded vegetation type</strong></td>
</tr>
<tr>
<td><strong>Gross Area</strong></td>
</tr>
<tr>
<td><strong>Disturbances &amp; impacts</strong></td>
</tr>
<tr>
<td><strong>Associated species</strong></td>
</tr>
<tr>
<td><strong>Environmental Conditions (e.g. soil conditions, exposure, etc.)</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Weed Information</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Weed Identification</strong></td>
</tr>
<tr>
<td><strong>Weed genus and species</strong></td>
</tr>
<tr>
<td><strong>Weed common name(s)</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Presence</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Presence or Absence</strong></td>
</tr>
<tr>
<td><strong>Treated</strong></td>
</tr>
<tr>
<td><strong>Infested area</strong></td>
</tr>
<tr>
<td><strong>Canopy Cover</strong></td>
</tr>
<tr>
<td><strong>Appearance</strong></td>
</tr>
<tr>
<td><strong>Distribution pattern</strong></td>
</tr>
<tr>
<td><strong>Photo documentation</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Weed Location</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Geographic location (ID)</strong></td>
</tr>
<tr>
<td><strong>Coordinate system</strong></td>
</tr>
<tr>
<td><strong>Datum</strong></td>
</tr>
<tr>
<td><strong>Location data accuracy</strong></td>
</tr>
<tr>
<td><strong>Location description</strong></td>
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</table>
### General Information

<table>
<thead>
<tr>
<th>Collection date (mm/dd/yyyy)</th>
<th>6/4/2010</th>
</tr>
</thead>
<tbody>
<tr>
<td>Observer name(s)</td>
<td>Ethan Koenigs</td>
</tr>
</tbody>
</table>

### Site Information

<table>
<thead>
<tr>
<th>Site or facility name</th>
<th>Access Road</th>
</tr>
</thead>
<tbody>
<tr>
<td>Site address or other description</td>
<td>Highway Cut Road</td>
</tr>
<tr>
<td>Ownership</td>
<td>Transportation Corridor</td>
</tr>
<tr>
<td>Land use type</td>
<td>Forest</td>
</tr>
<tr>
<td>Invaded vegetation type</td>
<td></td>
</tr>
<tr>
<td>Gross Area</td>
<td>500 sq. ft.</td>
</tr>
<tr>
<td>Disturbances &amp; impacts</td>
<td>Roadside maintenance</td>
</tr>
<tr>
<td>Associated species</td>
<td>Mixed Conifer and Hardwood</td>
</tr>
<tr>
<td>Environmental Conditions (e.g. soil conditions, exposure, etc.)</td>
<td>Northwest exposure; gentle slope</td>
</tr>
</tbody>
</table>

### Weed Information

#### Weed Identification

<table>
<thead>
<tr>
<th>Weed genus and species</th>
<th>Rubus armeniacus</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weed common name(s)</td>
<td>Himalayan Blackberry</td>
</tr>
</tbody>
</table>

#### Presence

<table>
<thead>
<tr>
<th>Presence or Absence</th>
<th>Present (all)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Treated</td>
<td>Growing Back</td>
</tr>
<tr>
<td>Infested area</td>
<td>250 sq. ft.</td>
</tr>
<tr>
<td>Canopy Cover</td>
<td>1-5%</td>
</tr>
<tr>
<td>Appearance</td>
<td>New growth</td>
</tr>
<tr>
<td>Distribution pattern</td>
<td>Clumpy</td>
</tr>
<tr>
<td>Photo documentation</td>
<td>43</td>
</tr>
</tbody>
</table>

#### Weed Location

<table>
<thead>
<tr>
<th>Geographic location (ID)</th>
<th>24-08</th>
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</thead>
<tbody>
<tr>
<td>Coordinate system</td>
<td>Ca. State Plane Zone 2</td>
</tr>
<tr>
<td>Datum</td>
<td>NAD83</td>
</tr>
<tr>
<td>Location data accuracy</td>
<td>5-15m</td>
</tr>
<tr>
<td>Location description</td>
<td>1/8 to 1/4 mile from intersection with Hazel Valley Road. Update: About 90% reduction from 2008 to 2009, but coming back in 2010.</td>
</tr>
</tbody>
</table>
**General Information**

<table>
<thead>
<tr>
<th>Collection date (mm/dd/yyyy)</th>
<th>6/4/2010</th>
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</thead>
<tbody>
<tr>
<td>Observer name(s)</td>
<td>Ethan Koenigs</td>
</tr>
</tbody>
</table>

**Site Information**

<table>
<thead>
<tr>
<th>Site or facility name</th>
<th>Access Road</th>
</tr>
</thead>
<tbody>
<tr>
<td>Site address or other description</td>
<td>Hazel Creek Tunnel Road</td>
</tr>
<tr>
<td>Ownership</td>
<td></td>
</tr>
<tr>
<td>Land use type</td>
<td>Transportation Corridor, Water Transport Facility</td>
</tr>
<tr>
<td>Invaded vegetation type</td>
<td>Forest</td>
</tr>
<tr>
<td>Gross Area</td>
<td>2600 sq. ft.</td>
</tr>
<tr>
<td>Disturbances &amp; impacts</td>
<td>Roadside maintenance</td>
</tr>
<tr>
<td>Environmental Conditions (e.g. soil conditions, exposure, etc.)</td>
<td>Exposed; very rocky, volcanic soil</td>
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</tbody>
</table>

**Weed Information**

**Weed Identification**

<table>
<thead>
<tr>
<th>Weed genus and species</th>
<th>Meliolotus officinalis</th>
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<tbody>
<tr>
<td>Weed common name(s)</td>
<td>White Sweet Clover</td>
</tr>
</tbody>
</table>

**Presence**

<table>
<thead>
<tr>
<th>Presence or Absence</th>
<th>Present (all)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Treated</td>
<td>No</td>
</tr>
<tr>
<td>Infested area</td>
<td>1000 sq. ft.</td>
</tr>
<tr>
<td>Canopy Cover</td>
<td>5-25%</td>
</tr>
<tr>
<td>Appearance</td>
<td>New growth</td>
</tr>
<tr>
<td>Distribution pattern</td>
<td>Clumpy, Scattered patchy, Linear</td>
</tr>
<tr>
<td>Photo documentation</td>
<td>71</td>
</tr>
</tbody>
</table>

**Weed Location**

<table>
<thead>
<tr>
<th>Geographic location (ID)</th>
<th>L06-09</th>
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<tbody>
<tr>
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<td>Ca. State Plane Zone 2</td>
</tr>
<tr>
<td>Datum</td>
<td>NAD83</td>
</tr>
<tr>
<td>Location data accuracy</td>
<td>5-15m</td>
</tr>
<tr>
<td>Location description</td>
<td>At the terminus of Hazel tunnel road (last 150') large clump of MEOF at end of road. Updat: Patchy along upper end of line, then large dense clump of MEOF.</td>
</tr>
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### General Information

<table>
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<th>Collection date (mm/dd/yyyy)</th>
<th>4-Jun</th>
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<tr>
<td>Observer name(s)</td>
<td>Ethan Koenigs</td>
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### Site Information

<table>
<thead>
<tr>
<th>Site or facility name</th>
<th>Access Road</th>
</tr>
</thead>
<tbody>
<tr>
<td>Site address or other description</td>
<td>El Dorado Ditch</td>
</tr>
<tr>
<td>Ownership</td>
<td>Transportation Corridor</td>
</tr>
<tr>
<td>Land use type</td>
<td>Forest</td>
</tr>
<tr>
<td>Invaded vegetation type</td>
<td>Forest</td>
</tr>
<tr>
<td>Gross Area</td>
<td>15,000 sq. ft.</td>
</tr>
<tr>
<td>Disturbances &amp; impacts</td>
<td>Roadside maintenance</td>
</tr>
<tr>
<td>Associated species</td>
<td>Douglas Fir, Ponderosa Pine, Dogwood, Big-leaf Maple, Thimble Berry, native blackberry.</td>
</tr>
<tr>
<td>Environmental Conditions (e.g. soil conditions, exposure, etc.)</td>
<td>Mostly NW - NE exposer</td>
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### Weed Information

#### Weed Identification

<table>
<thead>
<tr>
<th>Weed genus and species</th>
<th>Cirsium vulgare</th>
<th>Rubus armeniacus</th>
<th>Hypericum perforatum</th>
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</thead>
<tbody>
<tr>
<td>Weed common name(s)</td>
<td>Bull Thistle</td>
<td>Himalayan Blackberry</td>
<td>Klamath Weed</td>
</tr>
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#### Presence

<table>
<thead>
<tr>
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<th>Present (all) 75% in places along shoulder</th>
</tr>
</thead>
<tbody>
<tr>
<td>Treated</td>
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</tr>
<tr>
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<td>15,000 sq. ft.</td>
</tr>
<tr>
<td>Canopy Cover</td>
<td>&lt;1% 50-75% &lt;1%</td>
</tr>
<tr>
<td>Appearance</td>
<td>New growth</td>
</tr>
<tr>
<td>Distribution pattern</td>
<td>Clumpy Scattered even</td>
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<td>Photo documentation</td>
<td>65/66</td>
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#### Weed Location

<table>
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<tbody>
<tr>
<td>Coordinate system</td>
<td>Ca. State Plane Zone 2</td>
</tr>
<tr>
<td>Datum</td>
<td>NAD83</td>
</tr>
<tr>
<td>Location data accuracy</td>
<td>&lt; 1m</td>
</tr>
<tr>
<td>Location description</td>
<td>Begins near intersection with Hazel Tunnel Road spur and extends down to next spur road to North. Update: RUAR9 very thick along E side of road; HYPE and CIVU scattered and light</td>
</tr>
<tr>
<td>General Information</td>
<td>ID: L13-08</td>
</tr>
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<td>---------------------</td>
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</tr>
<tr>
<td>Collection date (mm/dd/yyyy)</td>
<td>6/4/2010</td>
</tr>
<tr>
<td>Observer name(s)</td>
<td>Ethan Koenigs</td>
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<th>Site Information</th>
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<tbody>
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<td>Site or facility name</td>
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<tr>
<td>Site address or other description</td>
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<table>
<thead>
<tr>
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<tr>
<td>Land use type</td>
</tr>
<tr>
<td>Invaded vegetation type</td>
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</tbody>
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<table>
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<tbody>
<tr>
<td>Gross Area</td>
</tr>
<tr>
<td>Disturbances &amp; impacts</td>
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<table>
<thead>
<tr>
<th>Environmental Conditions (e.g. soil conditions, exposure, etc.)</th>
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<td>Associated species</td>
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<tr>
<td>north slope, shady</td>
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<table>
<thead>
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<tr>
<td>Weed genus and species</td>
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<td>Weed common name(s)</td>
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<table>
<thead>
<tr>
<th>Weed Information</th>
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<tbody>
<tr>
<td>Presence or Absence</td>
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<tr>
<td>Treated</td>
</tr>
<tr>
<td>Infested area</td>
</tr>
<tr>
<td>Canopy Cover</td>
</tr>
<tr>
<td>Appearance</td>
</tr>
<tr>
<td>Distribution pattern</td>
</tr>
<tr>
<td>Photo documentation</td>
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<td>Coordinate system</td>
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<tr>
<td>Datum</td>
</tr>
<tr>
<td>Location data accuracy</td>
</tr>
<tr>
<td>Location description</td>
</tr>
<tr>
<td>General Information</td>
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<tr>
<td>Collection date (mm/dd/yyyy)</td>
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<td>Observer name(s)</td>
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<th>Site Information</th>
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<td>Site address or other description</td>
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<td>Land use type</td>
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<td>Invaded vegetation type</td>
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<td>Disturbances &amp; impacts</td>
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<table>
<thead>
<tr>
<th>Associated species</th>
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</thead>
<tbody>
<tr>
<td>Mixed Conifer and Hardwood</td>
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<thead>
<tr>
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<tr>
<td>near a drainage,</td>
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<td>Present (all)</td>
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<table>
<thead>
<tr>
<th>Treated</th>
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</thead>
<tbody>
<tr>
<td>Growing Back</td>
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<table>
<thead>
<tr>
<th>Infested area</th>
<th>4,500 sq. ft.</th>
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<tbody>
<tr>
<td>Canopy Cover</td>
<td>&lt;1% 25-50% 5-25%</td>
</tr>
<tr>
<td>Appearance</td>
<td>New growth New growth</td>
</tr>
<tr>
<td>Distribution pattern</td>
<td>Clumpy Scattered even</td>
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<tr>
<td>Photo documentation</td>
<td>44,45 see photo log</td>
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<td>Datum</td>
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<tr>
<td>Location data accuracy</td>
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<tr>
<td>Location description</td>
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### General Information

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<td>Observer name(s)</td>
<td>Ethan Koenigs</td>
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### Site Information

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<tr>
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<th>Access Road</th>
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<tr>
<td>Site address or other description</td>
<td>Highway Cut Road</td>
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<td>Ownership</td>
<td></td>
</tr>
<tr>
<td>Land use type</td>
<td>Transportation Corridor</td>
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<tr>
<td>Invaded vegetation type</td>
<td>Forest</td>
</tr>
<tr>
<td>Gross Area</td>
<td>3000 sq. ft.</td>
</tr>
<tr>
<td>Disturbances &amp; impacts</td>
<td>Roadside maintenance</td>
</tr>
<tr>
<td>Associated species</td>
<td>Douglas Fir, White Fir, Incense Cedar, Ponderosa Pine, Dogwood, Black Oak, Deer Brush</td>
</tr>
<tr>
<td>Environmental Conditions (e.g. soil conditions, exposure, etc.)</td>
<td>NW facing slope, gentle slope, shady</td>
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### Weed Information

<table>
<thead>
<tr>
<th>Weed genus and species</th>
<th>Rubus armeniacus</th>
<th>Cirsium vulgare</th>
<th>Lathyrus latifolius</th>
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<tbody>
<tr>
<td>Weed common name(s)</td>
<td>Himalayan Blackberry</td>
<td>Bull Thistle</td>
<td>Perennial Sweet Pea</td>
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</table>

<table>
<thead>
<tr>
<th>Presence or Absence</th>
<th>Present (all)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Treated</td>
<td>partial</td>
</tr>
<tr>
<td>Infested area</td>
<td>3000 sq. ft.</td>
</tr>
<tr>
<td>Canopy Cover</td>
<td>25-50%</td>
</tr>
<tr>
<td>Appearance</td>
<td>New growth</td>
</tr>
<tr>
<td>Distribution pattern</td>
<td>Clumpy</td>
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<tr>
<td>Photo documentation</td>
<td>41/42</td>
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### Weed Location

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<td>Ca. State Plane Zone 2</td>
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<tr>
<td>Datum</td>
<td>NAD83</td>
</tr>
<tr>
<td>Location data accuracy</td>
<td>&lt; 1m</td>
</tr>
<tr>
<td>Location description</td>
<td>Along both shoulders from intersection w/ Hazel Valley Rd.  RUAR9 very heavy in places expecially on North-side of road. Update: Similar to 2009, RUAR9 growing bac;. Very little LALA4 or CIVU (&lt;1%).</td>
</tr>
</tbody>
</table>
# APPENDIX C

## EID Weed Observation and Monitoring Form

### Photo Log

<table>
<thead>
<tr>
<th>Photo #</th>
<th>GPS Waypoint or feature #</th>
<th>Bearing or Direction</th>
<th>Feature/Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>117</td>
<td>04-10</td>
<td>SE</td>
<td>Bridge, weed patch – MEOF, CIVU – in grassy area</td>
</tr>
<tr>
<td>118</td>
<td>17-08</td>
<td>N/W</td>
<td>LALA4 eradicated at Hazel Creek Tunnel</td>
</tr>
<tr>
<td>122</td>
<td>45-08</td>
<td>S/E</td>
<td>LALA4 eradicated</td>
</tr>
<tr>
<td>121</td>
<td>L09-08</td>
<td>S</td>
<td>LALA4 at Camp 5 (Building)</td>
</tr>
<tr>
<td>124</td>
<td>01-10</td>
<td>W/NW</td>
<td>VETH</td>
</tr>
<tr>
<td>125</td>
<td>02-10</td>
<td>N/NE</td>
<td>BRTE</td>
</tr>
<tr>
<td>126</td>
<td>02-10</td>
<td>S/SW</td>
<td>BRTE</td>
</tr>
<tr>
<td>127</td>
<td>03-10</td>
<td>E/NE</td>
<td>MEOF, BRTE near bridge</td>
</tr>
<tr>
<td>134</td>
<td>L07-08</td>
<td>E</td>
<td>CIVU and other weeds</td>
</tr>
<tr>
<td>135</td>
<td>L07-08</td>
<td>W</td>
<td>CIVU</td>
</tr>
<tr>
<td>137</td>
<td>L08-08</td>
<td>N/NW</td>
<td>MEOF, CIVU</td>
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### Notes

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<tr>
<td>Observer name(s)</td>
<td>Ethan Koenigs</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Site Information</strong></th>
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</thead>
<tbody>
<tr>
<td>Site or facility name</td>
</tr>
<tr>
<td>Site address or other description</td>
</tr>
<tr>
<td>Ownership</td>
</tr>
<tr>
<td>Land use type</td>
</tr>
<tr>
<td>Invaded vegetation type</td>
</tr>
<tr>
<td>Gross Area</td>
</tr>
<tr>
<td>Disturbances &amp; impacts</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Associated species</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>White fir, Douglas Fir, black oak, Dogwood, Incense Cedar, other weedy species.</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Environmental Conditions (e.g. soil conditions, exposure, etc.)</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Exposed opening in tree cover/ NE-facing slope.</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th><strong>Weed Information</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Weed genus and species</td>
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<tr>
<td>Weed common name(s)</td>
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<table>
<thead>
<tr>
<th><strong>Weed Identification</strong></th>
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</thead>
<tbody>
<tr>
<td>Presence or Absence</td>
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<tr>
<td>Treated</td>
</tr>
<tr>
<td>Infested area</td>
</tr>
<tr>
<td>Canopy Cover</td>
</tr>
<tr>
<td>Distribution pattern</td>
</tr>
<tr>
<td>Photo documentation</td>
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</table>

<table>
<thead>
<tr>
<th><strong>Weed Location</strong></th>
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<tbody>
<tr>
<td>Geographic location (ID)</td>
</tr>
<tr>
<td>Coordinate system</td>
</tr>
<tr>
<td>Datum</td>
</tr>
<tr>
<td>Location data accuracy</td>
</tr>
<tr>
<td>Location description</td>
</tr>
<tr>
<td><strong>General Information</strong></td>
</tr>
<tr>
<td>-------------------------</td>
</tr>
<tr>
<td>Collection date (mm/dd/yyyy)</td>
</tr>
<tr>
<td>Observer name(s)</td>
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<tr>
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<tbody>
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<td>Site address or other description</td>
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<tr>
<td>Ownership</td>
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<tr>
<td>Land use type</td>
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<td>Invaded vegetation type</td>
</tr>
<tr>
<td>Gross Area</td>
</tr>
<tr>
<td>Disturbances &amp; impacts</td>
</tr>
<tr>
<td>Associated species</td>
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<tr>
<td>Environmental Conditions (e.g. soil conditions, exposure, etc.)</td>
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<tbody>
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<td>Treated</td>
</tr>
<tr>
<td>Infested area</td>
</tr>
<tr>
<td>Canopy Cover</td>
</tr>
<tr>
<td>Seeding</td>
</tr>
<tr>
<td>Distribution pattern</td>
</tr>
<tr>
<td>Photo documentation</td>
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<td>Datum</td>
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<td>Location data accuracy</td>
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<td>Location description</td>
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C-40
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</tr>
<tr>
<td>Site Information</td>
<td></td>
</tr>
<tr>
<td>Site or facility name</td>
<td>El Dorado Canal</td>
</tr>
<tr>
<td>Site address or other description</td>
<td>Beat 5</td>
</tr>
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<td>Ownership</td>
<td></td>
</tr>
<tr>
<td>Land use type</td>
<td>Water Transport Facility</td>
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<td>Invaded vegetation type</td>
<td>Forest</td>
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<td>1000 sq. ft.</td>
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<tr>
<td>Disturbances &amp; impacts</td>
<td>Canal Maintenance</td>
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<tr>
<td>Associated species</td>
<td>Ponderosa pine, white fir, incense cedar, big-leaf maple, willow</td>
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<td>Environmental Conditions (e.g. soil conditions, exposure, etc.)</td>
<td>Exposed, disturbed area</td>
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<td>Weed Information</td>
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<tr>
<td>Weed genus and species</td>
<td>Bromus tectorum, melilotus officinalis</td>
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<td>Seeding</td>
<td>Linear</td>
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</tr>
<tr>
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<td>1-5m</td>
</tr>
<tr>
<td>Location description</td>
<td>S. side of canal in a clearing at the end of a gravel road near a wood bridge across the canal.</td>
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</tr>
<tr>
<td>Ownership</td>
</tr>
<tr>
<td>Land use type</td>
</tr>
<tr>
<td>Invaded vegetation type</td>
</tr>
<tr>
<td>Gross Area</td>
</tr>
<tr>
<td>Disturbances &amp; impacts</td>
</tr>
<tr>
<td>Associated species</td>
</tr>
<tr>
<td>Environmental Conditions (e.g. soil conditions, exposure, etc.)</td>
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<td>Canopy Cover</td>
</tr>
<tr>
<td>Distribution pattern</td>
</tr>
<tr>
<td>Photo documentation</td>
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<td>Datum</td>
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<td>Location data accuracy</td>
</tr>
<tr>
<td>Location description</td>
</tr>
<tr>
<td><strong>General Information</strong></td>
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<td>Collection date (mm/dd/yyyy)</td>
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<tr>
<td>Observer name(s)</td>
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<tr>
<td>Disturbances &amp; impacts</td>
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<tr>
<td>Associated species</td>
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<td>Environmental Conditions (e.g. soil conditions, exposure, etc.)</td>
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</tr>
</thead>
<tbody>
<tr>
<td>Presence or Absence</td>
</tr>
<tr>
<td>Treated</td>
</tr>
<tr>
<td>Infested area</td>
</tr>
<tr>
<td>Canopy Cover</td>
</tr>
<tr>
<td>Distribution pattern</td>
</tr>
<tr>
<td>Photo documentation</td>
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<tr>
<td>Coordinate system</td>
</tr>
<tr>
<td>Datum</td>
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<tr>
<td>Location data accuracy</td>
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<tr>
<td>Location description</td>
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### General Information

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### Site Information

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<th>Site or facility name</th>
<th>El Dorado Canal</th>
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<tbody>
<tr>
<td>Site address or other description</td>
<td>Beat 5</td>
</tr>
<tr>
<td>Ownership</td>
<td>EID</td>
</tr>
<tr>
<td>Land use type</td>
<td>Water Transport Facility</td>
</tr>
<tr>
<td>Invaded vegetation type</td>
<td>Forest</td>
</tr>
</tbody>
</table>

| Gross Area       | 1000 sq. ft. |
| Disturbances & impacts | Canal Maintenance, Roadside maintenance |

| Associated species | Ponderosa Pine, Douglas Fir, White Fir, other weedy species. |
| Environmental Conditions (e.g. soil conditions, exposure, etc.) | Moderately shaded, N-facing slope |

### Weed Information

#### Weed Identification

<table>
<thead>
<tr>
<th>Weed genus and species</th>
<th>Lathyrus latifolius</th>
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<tr>
<td>Weed common name(s)</td>
<td>Perennial Sweet Pea</td>
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#### Presence

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<tr>
<td>Treated</td>
<td>Most but not all</td>
</tr>
<tr>
<td>Infested area</td>
<td>400 sq. ft.</td>
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<tr>
<td>Canopy Cover</td>
<td>25-50%</td>
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<table>
<thead>
<tr>
<th>Distribution pattern</th>
<th>New growth</th>
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<tr>
<td>Photo documentation</td>
<td>Scattered even</td>
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| Photo documentation | 122 |

#### Weed Location

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<td>Datum</td>
<td>NAD83</td>
</tr>
<tr>
<td>Location data accuracy</td>
<td>&lt; 1m</td>
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| Location description | West end of Beat 5 near access gate and tunnel to Forebay on north bank. Update: Fairly heavy along fence, N bank - eradicated ~20’ from canal, slight increase from 2009. Some LALA4 outside gate. |

C-44
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<td>Beat 5</td>
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<tr>
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<td>Water Transport Facility</td>
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<tr>
<td>Land use type</td>
<td>Forest</td>
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<tr>
<td>Invaded vegetation type</td>
<td>Forest</td>
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<tr>
<td>Gross Area</td>
<td>1000 sq. ft.</td>
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<tr>
<td>Disturbances &amp; impacts</td>
<td>Canal Maintenance</td>
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<tr>
<td>Associated species</td>
<td>Ponderosa Pine, Douglas Fir, Black Oak, Big-leaf Maple, Deer Brush</td>
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<td>Environmental Conditions (e.g. soil conditions, exposure, etc.)</td>
<td>northwest exposure, partly shaded</td>
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<tr>
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<td>Just below Camp 5. Update: LALA4 up to fence on up-slope (south)side, 50-75% cover. North bank bench clear.</td>
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## APPENDIX C

### EID Weed Observation and Monitoring Form

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<thead>
<tr>
<th>Photo #</th>
<th>GPS Waypoint or feature #</th>
<th>Bearing or Direction</th>
<th>Feature/Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>152</td>
<td>08-09</td>
<td>S</td>
<td>CIVU and RUAR9 in turnout W side of road</td>
</tr>
<tr>
<td>153</td>
<td>L25-08</td>
<td>S</td>
<td>CIVU on E side of road</td>
</tr>
<tr>
<td>154</td>
<td>07-09</td>
<td>SE</td>
<td>BRTE</td>
</tr>
<tr>
<td>155</td>
<td>L07-09</td>
<td>N</td>
<td>BRTE and BRDID2 along road</td>
</tr>
<tr>
<td>156</td>
<td>L07-09</td>
<td>S</td>
<td>BRTE and BRDID2 along road</td>
</tr>
<tr>
<td>160</td>
<td>L22-08</td>
<td>W/SW</td>
<td>MEOF on side of road</td>
</tr>
<tr>
<td>161</td>
<td>34-08</td>
<td>NE</td>
<td>HYPE controlled/treated – some still present</td>
</tr>
<tr>
<td>162</td>
<td>33-08</td>
<td>SE</td>
<td>LALA4 – whole area – Canal Beat 3</td>
</tr>
<tr>
<td>163</td>
<td>33-08</td>
<td>SE</td>
<td>LALA4 – Canal Beat 3</td>
</tr>
<tr>
<td>164</td>
<td>33-08</td>
<td>NW</td>
<td>TOAR – Canal Beat 3</td>
</tr>
<tr>
<td>165</td>
<td>L24-08</td>
<td>NE</td>
<td>TOAR – Camp P Road</td>
</tr>
<tr>
<td>166/167</td>
<td>32-08</td>
<td>SW/NE</td>
<td>CIVU – Camp P Road</td>
</tr>
<tr>
<td>168</td>
<td>L23-08</td>
<td>E</td>
<td>Good control – Camp P Road</td>
</tr>
<tr>
<td>169</td>
<td>31-08</td>
<td>E</td>
<td>TOAR – very minor – Camp P Road</td>
</tr>
<tr>
<td>170</td>
<td>30-08</td>
<td>E</td>
<td>TOAR – mixed with other vegetation – Camp P Road</td>
</tr>
</tbody>
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### Notes


C-48
<table>
<thead>
<tr>
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<th>GPS Waypoint or feature #</th>
<th>Bearing or Direction</th>
<th>Feature/Notes</th>
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<tbody>
<tr>
<td>171</td>
<td>L20-08</td>
<td>SE</td>
<td>RUAR9 and LALA4 on upslope side of road</td>
</tr>
<tr>
<td>172</td>
<td>L17-08</td>
<td>W</td>
<td>Treated area at top of road near gate</td>
</tr>
<tr>
<td>173</td>
<td>L17-08</td>
<td>W</td>
<td>Treated portion of road – LALA4 still dense along edges</td>
</tr>
<tr>
<td>174/175</td>
<td>L17-08</td>
<td>NW/SE</td>
<td>Treated edge of road – some LALA4 still remains</td>
</tr>
<tr>
<td>180/181</td>
<td>29-08</td>
<td>SE/W</td>
<td>BRID2 and LEVU – many other weeds</td>
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<tr>
<td>182/183</td>
<td>L21-08</td>
<td>SE/NW</td>
<td>Good control along road – mechanical and chemical</td>
</tr>
<tr>
<td>184</td>
<td>25-08</td>
<td>S</td>
<td>CIVU in clearing</td>
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**Notes**

Page 2
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<tr>
<td>Site address or other description</td>
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<td>Land use type</td>
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<tr>
<td>Gross Area</td>
</tr>
<tr>
<td>Disturbances &amp; impacts</td>
</tr>
<tr>
<td>Associated species</td>
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<tr>
<td>Environmental Conditions (e.g. soil conditions, exposure, etc.)</td>
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<td>Weed genus and species</td>
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<td>Weed common name(s)</td>
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<tbody>
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<td>Presence or Absence</td>
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| Collection date (mm/dd/yyyy) | 6/29/2010 |
| Observer name(s)             | Ethan Koenigs |

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<tr>
<th>Site or facility name</th>
<th>Access Road</th>
</tr>
</thead>
<tbody>
<tr>
<td>Site address or other description</td>
<td>Camp P Road: Near intersection with Camp 3 Road</td>
</tr>
</tbody>
</table>

| Ownership | Transportation Corridor |
| Land use type | Forest |

| Invaded vegetation type | Forest |
| Disturbances & impacts | Roadside maintenance, Clearing on road and SPI Plantation |

| Associated species | Mixed Conifer; Deer Brush, multiple weed sp. |

| Environmental Conditions (e.g. soil conditions, exposure, etc.) | Mostly Gravel within landing/clearing; full sun; flat |

### Weed Information

#### Weed Identification

| Weed genus and species         | Bromus tectorum | Leucanthemum vulgare | Bromus diandrus | Rubus armeniacus |
| Weeds common name(s)           | Cheat grass (scattered, 5%) | Ox-eye Daisy (<1%) | Ripgut Brome (5-10%) | Himalyan Blackberry (1 clump) |

#### Weeds

| Presence or Absence | Present (not all species) |
| Treated             | Yes |
| Infested area       | 2,500 sq. ft. |
| Canopy Cover        | 5-25% | <1% | 5-25% | <1% |
| Appearance          | Flowering | New growth | Seeding | Flowering |
| Distribution pattern| Scattered patchy | Linear | Scattered patchy | Clumpy |
| Photo documentation | 180/181 |

#### Weed Location

| Geographic location (ID) | 29-08 |
| Coordinate system        | Ca. State Plane Zone 2 |
| Datum                    | NAD83 |
| Location data accuracy   | < 1m |

<p>| Location description | At large clearing just before intersection of Camp P Road and Camp 3 Road. Update: Area has been treated. No CESO3 or HYPE observed; patchy BRID2 and BRTE; |</p>
<table>
<thead>
<tr>
<th>General Information</th>
<th>ID: 30-08</th>
</tr>
</thead>
<tbody>
<tr>
<td>Collection date (mm/dd/yyyy)</td>
<td>6/29/2010</td>
</tr>
<tr>
<td>Observer name(s)</td>
<td>Ethan Koenigs</td>
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<th>Site Information</th>
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<tbody>
<tr>
<td>Site or facility name</td>
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<tr>
<td>Site address or other description</td>
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<tr>
<th>Ownership</th>
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<tbody>
<tr>
<td>Land use type</td>
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<tr>
<td>Invaded vegetation type</td>
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<tr>
<th>Site Information</th>
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<tbody>
<tr>
<td>Gross Area</td>
</tr>
<tr>
<td>Disturbances &amp; impacts</td>
</tr>
<tr>
<td>Associated species</td>
</tr>
<tr>
<td>Environmental Conditions (e.g. soil conditions, exposure, etc.)</td>
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<table>
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</thead>
<tbody>
<tr>
<td>Weed genus and species</td>
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<tr>
<td>Weed common name(s)</td>
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<tr>
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<tr>
<td>Infested area</td>
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<tr>
<td>Canopy Cover</td>
</tr>
<tr>
<td>Appearance</td>
</tr>
<tr>
<td>Distribution pattern</td>
</tr>
<tr>
<td>Photo documentation</td>
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<td>Coordinate system</td>
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<tr>
<td>Datum</td>
</tr>
<tr>
<td>Location data accuracy</td>
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<tr>
<td>Location description</td>
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<td>General Information</td>
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<td>Collection date (mm/dd/yyyy)</td>
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<tr>
<td>Observer name(s)</td>
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<td>Land use type</td>
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<td>Invaded vegetation type</td>
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<td>Gross Area</td>
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<td>Disturbances &amp; impacts</td>
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<td>Environmental Conditions (e.g. soil conditions, exposure, etc.)</td>
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<td>Weed Identification</td>
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<tr>
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<td>Canopy Cover</td>
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<tr>
<td>Distribution pattern</td>
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<tr>
<td>Photo documentation</td>
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<tr>
<td>Weed Location</td>
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<td>Geographic location (ID)</td>
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<tr>
<td>Coordinate system</td>
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<tr>
<td>Datum</td>
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<td>General Information</td>
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<td>Collection date (mm/dd/yyyy)</td>
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<td>Observer name(s)</td>
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<td>Invaded vegetation type</td>
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<td>Disturbances &amp; impacts</td>
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<td>Environmental Conditions (e.g. soil conditions, exposure, etc.)</td>
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<td>Weed genus and species</td>
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<td>Location data accuracy</td>
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<td>Location description</td>
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</tr>
<tr>
<td>Collection date (mm/dd/yyyy)</td>
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<tr>
<td>Observer name(s)</td>
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<td>Ownership</td>
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<td>Land use type</td>
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<td>Invaded vegetation type</td>
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<td>Gross Area</td>
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<tr>
<td>Disturbances &amp; impacts</td>
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<tr>
<td>Associated species</td>
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<tr>
<td>Environmental Conditions (e.g. soil conditions, exposure, etc.)</td>
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<tbody>
<tr>
<td>Weed Identification</td>
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<tr>
<td>Weed genus and species</td>
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<tr>
<td>Weed common name(s)</td>
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<td>Coordinate system</td>
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<tr>
<td>Datum</td>
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<td>Location data accuracy</td>
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<td>Land use type</td>
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<td>Invaded vegetation type</td>
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<tr>
<td>Gross Area</td>
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<tr>
<td>Disturbances &amp; impacts</td>
</tr>
<tr>
<td>Associated species</td>
</tr>
<tr>
<td>Environmental Conditions (e.g. soil conditions, exposure, etc.)</td>
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<table>
<thead>
<tr>
<th>Weed Information</th>
<th>Weed Identification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weed genus and species</td>
<td>Cirsium vulgare</td>
</tr>
<tr>
<td>Weed common name(s)</td>
<td>Bull Thistle</td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th>Presence</th>
</tr>
</thead>
<tbody>
<tr>
<td>Presence or Absence</td>
</tr>
<tr>
<td>Treated</td>
</tr>
<tr>
<td>Infested area</td>
</tr>
<tr>
<td>Canopy Cover</td>
</tr>
<tr>
<td>Appearance</td>
</tr>
<tr>
<td>Distribution pattern</td>
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<tr>
<td>Photo documentation</td>
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<table>
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<th>Weed Location</th>
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<tbody>
<tr>
<td>Geographic location (ID)</td>
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<tr>
<td>Coordinate system</td>
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<td>Datum</td>
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<tr>
<td>Location data accuracy</td>
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<tr>
<td>Location description</td>
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**General Information**

<table>
<thead>
<tr>
<th>Collection date (mm/dd/yyyy)</th>
<th>6/29/2010</th>
</tr>
</thead>
<tbody>
<tr>
<td>Observer name(s)</td>
<td>Ethan Koenigs</td>
</tr>
</tbody>
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**Site Information**

<table>
<thead>
<tr>
<th>Site or facility name</th>
<th>Access Road</th>
</tr>
</thead>
<tbody>
<tr>
<td>Site address or other description</td>
<td>Camp 2 Road</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ownership</th>
<th>Transportation Corridor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Land use type</td>
<td>Forest</td>
</tr>
<tr>
<td>Invaded vegetation type</td>
<td></td>
</tr>
<tr>
<td>Gross Area</td>
<td>0.4 acres</td>
</tr>
<tr>
<td>Disturbances &amp; impacts</td>
<td>Roadside maintenance</td>
</tr>
<tr>
<td>Associated species</td>
<td>Canyon Live Oak, Manzanita, Douglas Fir; various other grasses and forbes.</td>
</tr>
<tr>
<td>Environmental Conditions</td>
<td>West-facing slope; very exposed, rocky soil.</td>
</tr>
</tbody>
</table>

**Weed Information**

<table>
<thead>
<tr>
<th>Weed genus and species</th>
<th>Bromus tectorum</th>
<th>Bromus diandrus</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weed common name(s)</td>
<td>Cheat grass</td>
<td>Ripgut Brome</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Presence or Absence</th>
<th>Present (all)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Treated</td>
<td>No</td>
</tr>
<tr>
<td>Infested area</td>
<td>0.4 acres</td>
</tr>
<tr>
<td>Canopy Cover</td>
<td>25-50%</td>
</tr>
<tr>
<td>Appearance</td>
<td>Senesc.</td>
</tr>
<tr>
<td>Distribution pattern</td>
<td>Clumpy</td>
</tr>
<tr>
<td>Photo documentation</td>
<td>155</td>
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**Weed Location**

<table>
<thead>
<tr>
<th>Geographic location (ID)</th>
<th>L07-09</th>
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<tbody>
<tr>
<td>Coordinate system</td>
<td>Ca. State Plane Zone 2</td>
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<tr>
<td>Datum</td>
<td>NAD83</td>
</tr>
<tr>
<td>Location data accuracy</td>
<td>&lt; 1m</td>
</tr>
<tr>
<td>Location description</td>
<td>Beginning past second gate, near rock outcrops &amp; extending to 250’ before tender's house; along road shoulders. Variable weed density. Update: Same as 2009.</td>
</tr>
</tbody>
</table>
### General Information

<table>
<thead>
<tr>
<th>Collection date (mm/dd/yyyy)</th>
<th>6/29/2010</th>
</tr>
</thead>
<tbody>
<tr>
<td>Observer name(s)</td>
<td>Ethan Koenigs</td>
</tr>
</tbody>
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### Site Information

<table>
<thead>
<tr>
<th>Site or facility name</th>
<th>Access Road</th>
</tr>
</thead>
<tbody>
<tr>
<td>Site address or other description</td>
<td>Camp 3 Road</td>
</tr>
<tr>
<td>Ownership</td>
<td>Water Transport Facility</td>
</tr>
<tr>
<td>Land use type</td>
<td>Forest</td>
</tr>
<tr>
<td>Invaded vegetation type</td>
<td></td>
</tr>
<tr>
<td>Gross Area</td>
<td>14,000-15,000 sq. ft.</td>
</tr>
<tr>
<td>Disturbances &amp; impacts</td>
<td>Roadside maintenance</td>
</tr>
<tr>
<td></td>
<td>Turnouts</td>
</tr>
<tr>
<td>Associated species</td>
<td>Mixed Conifer &amp; Hardwood - many weedy species on shoulder.</td>
</tr>
<tr>
<td>Environmental Conditions (e.g. soil conditions, exposure, etc.)</td>
<td>Road is near Ogilby Creek at terminus.</td>
</tr>
</tbody>
</table>

### Weed Information

#### Weed Identification

- **Weed genus and species**: *Cirsium vulgare, Bromus tectorum, Torilis arvensis, Rubus discolor, Hypericum perforatum, Lathyrus latifolius*.
- **Weed common name(s)**: Bull Thistle, Cheat grass, Hedge Parsley, Himalayan Blackberry, Klamath Weed, Perennial Sweet Pea.

#### Presence

- **Presence or Absence**: Present (all)
- **Treated**: Yes
- **Infested area**: 14,000-15,000 sq. ft.
- **Canopy Cover**: 1-5%
- **Distribution pattern**: Clumpy, Linear
- **Photo documentation**: 172-175

#### Weed Location

- **Geographic location (ID)**: L17-08
- **Coordinate system**: Ca. State Plane Zone 2
- **Datum**: NAD83
- **Location data accuracy**: < 1m
- **Location description**: From gate on Camp P to canal. Update: Moderate control - LALA4 and RUAR9 still heavy on edge of road. Moderate to good control of HYPE and BRTE on upper section of road. Good control on edge of road - 2-3' from edge. LALA4 controlled about 65% - still remains on edge of road.
<table>
<thead>
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<th><strong>General Information</strong></th>
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<tbody>
<tr>
<td><strong>Collection date (mm/dd/yyyy)</strong></td>
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<tr>
<td><strong>Observer name(s)</strong></td>
<td>Ethan Koenigs,</td>
</tr>
<tr>
<td><strong>Site Information</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Site or facility name</strong></td>
<td>Access Road</td>
</tr>
<tr>
<td><strong>Site address or other description</strong></td>
<td>Camp P road</td>
</tr>
<tr>
<td><strong>Ownership</strong></td>
<td>Transportation Corridor</td>
</tr>
<tr>
<td><strong>Land use type</strong></td>
<td>Forest</td>
</tr>
<tr>
<td><strong>Invaded vegetation type</strong></td>
<td>Forest</td>
</tr>
<tr>
<td><strong>Gross Area</strong></td>
<td>12,000 sq. ft.</td>
</tr>
<tr>
<td><strong>Disturbances &amp; impacts</strong></td>
<td>Roadside maintenance, SPI Plantation to North-east side of road</td>
</tr>
<tr>
<td><strong>Associated species</strong></td>
<td>Mixed Conifer; Deer Brush, Maple</td>
</tr>
<tr>
<td><strong>Environmental Conditions (e.g. soil conditions, exposure, etc.)</strong></td>
<td>Gravel road and shoulder.</td>
</tr>
<tr>
<td><strong>Weed Information</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Weed Identification</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Weed genus and species</strong></td>
<td><em>B. tectorum</em></td>
</tr>
<tr>
<td><strong>Weed common name(s)</strong></td>
<td>Cheat grass</td>
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<td><strong>Weed Location</strong></td>
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<tr>
<td><strong>Datum</strong></td>
<td>NAD83</td>
</tr>
<tr>
<td><strong>Location data accuracy</strong></td>
<td>&lt; 1m</td>
</tr>
<tr>
<td><strong>Location description</strong></td>
<td>Along beginning of Camp P road, near intersection with 10N40N; extends for about 600' (ft) along road. Update: Partial control with mechanical and chemical means. No CIVU, TOAR, or VETH observed this year; minor RUAR9; other weeds also very low density</td>
</tr>
<tr>
<td><strong>General Information</strong></td>
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</tr>
<tr>
<td>--------------------------</td>
<td>----------------</td>
</tr>
<tr>
<td><strong>Collection date (mm/dd/yyyy)</strong></td>
<td>6/29/2010</td>
</tr>
<tr>
<td><strong>Observer name(s)</strong></td>
<td>Ethan Koenigs</td>
</tr>
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<th><strong>Site Information</strong></th>
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<tbody>
<tr>
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<td>Rock Crusher road</td>
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<td><strong>Ownership</strong></td>
<td>USFS/SPI</td>
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<tr>
<td><strong>Land use type</strong></td>
<td>Transportation Corridor</td>
</tr>
<tr>
<td><strong>Invaded vegetation type</strong></td>
<td>Forest</td>
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<tr>
<td><strong>Gross Area</strong></td>
<td>0.5 acres</td>
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<tr>
<td><strong>Disturbances &amp; impacts</strong></td>
<td>Roadside maintenance</td>
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<tr>
<td><strong>Associated species</strong></td>
<td>Mixed Conifer, Deer Brush, weedy species along road.</td>
</tr>
<tr>
<td><strong>Environmental Conditions (e.g. soil conditions, exposure, etc.)</strong></td>
<td>Full sun; western exposure</td>
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<table>
<thead>
<tr>
<th><strong>Weed Information</strong></th>
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</thead>
<tbody>
<tr>
<td><strong>Weed genus and species</strong></td>
<td>Cirsium vulgare, H. perforatum, Bromus tectorum, Meliolotus alba, Verbascum thapsus</td>
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<tr>
<td><strong>Weed common name(s)</strong></td>
<td>Bull Thistle, Klamath Weed, Cheat Grass, White Sweet Clover, Woolly Mullein</td>
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<table>
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<tr>
<th><strong>Weed Identification</strong></th>
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<tbody>
<tr>
<td><strong>Presence or Absence</strong></td>
<td>Present (all)</td>
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<tr>
<td><strong>Treated</strong></td>
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<td><strong>Infested area</strong></td>
<td>11,000 sq. ft.</td>
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<td><strong>Canopy Cover</strong></td>
<td>1-5% &lt;1%</td>
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<td><strong>Distribution pattern</strong></td>
<td>Flowering New growth Seeding</td>
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<td><strong>Photo documentation</strong></td>
<td>Scattered patchy 160</td>
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<th><strong>Weed Location</strong></th>
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<tr>
<td><strong>Datum</strong></td>
</tr>
<tr>
<td><strong>Location data accuracy</strong></td>
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<tr>
<td><strong>Location description</strong></td>
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<tr>
<td>General Information</td>
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<tr>
<td><strong>Collection date</strong> (mm/dd/yyyy)</td>
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<tr>
<td><strong>Observer name(s)</strong></td>
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<tr>
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<tr>
<td><strong>Land use type</strong></td>
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<tr>
<td><strong>Invaded vegetation type</strong></td>
</tr>
<tr>
<td><strong>Gross Area</strong></td>
</tr>
<tr>
<td><strong>Disturbances &amp; impacts</strong></td>
</tr>
<tr>
<td><strong>Associated species</strong></td>
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<tr>
<td><strong>Environmental Conditions (e.g. soil conditions, exposure, etc.)</strong></td>
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<tr>
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</tr>
<tr>
<td><strong>Canopy Cover</strong></td>
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<tr>
<td><strong>Distribution pattern</strong></td>
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<td><strong>Photo documentation</strong></td>
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<td>Treated</td>
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<tr>
<td>Infested area</td>
</tr>
<tr>
<td>Canopy Cover</td>
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<tr>
<td>New growth</td>
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<tr>
<td>Distribution pattern</td>
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<tr>
<td>Photo documentation</td>
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<td>Datum</td>
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### Site Information

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<tr>
<th>Site or facility name</th>
<th>Access Road</th>
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<tr>
<td>Site address or other description</td>
<td>Camp 2 Road</td>
</tr>
<tr>
<td>Ownership</td>
<td></td>
</tr>
<tr>
<td>Land use type</td>
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<tr>
<td>Invaded vegetation type</td>
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<table>
<thead>
<tr>
<th>Gross Area</th>
<th>900 sq. ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disturbances &amp; impacts</td>
<td>Roadside maintenance</td>
</tr>
<tr>
<td>Associated species</td>
<td>Mixed Conifer</td>
</tr>
<tr>
<td>Environmental Conditions (e.g. soil conditions, exposure, etc.)</td>
<td>Gravel shoulder along road - moderately dense forest - flat.</td>
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### Weed Information

#### Weed Identification

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<th>Weed genus and species</th>
<th><em>Cirsium vulgare</em></th>
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<tr>
<td>Weed common name(s)</td>
<td>Bull Thistle</td>
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#### Presence

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<tr>
<th>Presence or Absence</th>
<th>Present (all)</th>
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<tr>
<td>Treated</td>
<td>No</td>
</tr>
<tr>
<td>Infested area</td>
<td>900 sq. ft.</td>
</tr>
<tr>
<td>Canopy Cover</td>
<td>&lt;1%</td>
</tr>
<tr>
<td>Appearance</td>
<td>New growth</td>
</tr>
<tr>
<td>Distribution pattern</td>
<td>Scattered patchy</td>
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<tr>
<td>Photo documentation</td>
<td>Linear</td>
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#### Weed Location

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<td>Coordinate system</td>
<td>Ca. State Plane Zone 2</td>
</tr>
<tr>
<td>Datum</td>
<td>NAD83</td>
</tr>
<tr>
<td>Location data accuracy</td>
<td>&lt; 1m</td>
</tr>
<tr>
<td>Location description</td>
<td>Primarily east side of road near small drainage. Update: Appears the same as 2009 - very minor occurrence.</td>
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# APPENDIX C

## EID Weed Observation and Monitoring Form

### Photo Log

<table>
<thead>
<tr>
<th>Photo #</th>
<th>GPS Waypoint or feature #</th>
<th>Bearing or Direction</th>
<th>Feature/Notes</th>
</tr>
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<tbody>
<tr>
<td>188/189</td>
<td>06-09</td>
<td>S/SW</td>
<td>CIVU near canal</td>
</tr>
<tr>
<td>196</td>
<td>L19-08</td>
<td>SE</td>
<td>Control of LALA4</td>
</tr>
<tr>
<td>197</td>
<td>L18-08</td>
<td>SE</td>
<td>Control of LALA4/RUAR9</td>
</tr>
<tr>
<td>198</td>
<td>28-08</td>
<td>SE</td>
<td>Minor amount of LALA4</td>
</tr>
<tr>
<td>199</td>
<td>29-08</td>
<td>SE</td>
<td>Access road terminus at spillway (Camp P) – LALA4</td>
</tr>
<tr>
<td>202</td>
<td>26-08</td>
<td>SW</td>
<td>Controlled – RUAR9</td>
</tr>
<tr>
<td>203</td>
<td>05-09</td>
<td>S</td>
<td>Good control – RUAR9 and LEVU</td>
</tr>
<tr>
<td>204</td>
<td>50-08</td>
<td>W</td>
<td>LEVU near Alarm 15</td>
</tr>
<tr>
<td>206</td>
<td>09-09</td>
<td>E</td>
<td>BRTE near Plum Siphon</td>
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### Notes

- C-66
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<th>General Information</th>
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<tr>
<td>Collection date (mm/dd/yyyy)</td>
<td>7/1/2010</td>
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<tr>
<td>Observer name(s)</td>
<td>Ethan Koenigs,</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Site Information</td>
<td></td>
</tr>
<tr>
<td>Site or facility name</td>
<td>El Dorado Canal</td>
</tr>
<tr>
<td>Site address or other description</td>
<td>Beat 4 at Esmerelda Crk. Flume over canal</td>
</tr>
<tr>
<td>Ownership</td>
<td></td>
</tr>
<tr>
<td>Land use type</td>
<td>Water Transport Facility</td>
</tr>
<tr>
<td>Invaded vegetation type</td>
<td>Forest</td>
</tr>
<tr>
<td>Gross Area</td>
<td>1000 sq. ft.</td>
</tr>
<tr>
<td>Disturbances &amp; impacts</td>
<td>Canal Maintenance</td>
</tr>
<tr>
<td>Associated species</td>
<td>Mixed Conifer and Montane Riparian; bracken fern, native blackberry, mixed grasses &amp; forbs.</td>
</tr>
<tr>
<td>Environmental Conditions (e.g. soil conditions, exposure, etc.)</td>
<td>Riparian area</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Weed Information</td>
<td></td>
</tr>
<tr>
<td>Weed genus and species</td>
<td><em>Leucanthemum vulgare</em></td>
</tr>
<tr>
<td>Weed common name(s)</td>
<td>Ox-eye Daisy</td>
</tr>
<tr>
<td>Presence or Absence</td>
<td>Present (not all species)</td>
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<tr>
<td>Treated</td>
<td>Yes</td>
</tr>
<tr>
<td>Infested area</td>
<td>1000 sq. ft.</td>
</tr>
<tr>
<td>Canopy Cover</td>
<td>&lt;1%</td>
</tr>
<tr>
<td>Appearance</td>
<td>New growth Flowering</td>
</tr>
<tr>
<td>Distribution pattern</td>
<td>Scattered patchy</td>
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<tr>
<td>Photo documentation</td>
<td>203/204</td>
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<tr>
<td>Location data accuracy</td>
<td>5-15m</td>
</tr>
<tr>
<td>Location description</td>
<td>Near propane tank &amp; creek flume at tunnel exit. Only a few LEVU near flume; good control; no RUAR9.</td>
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</tbody>
</table>
**General Information**

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<thead>
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<td>Observer name(s)</td>
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**Site Information**

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<tbody>
<tr>
<td>Site address or other description</td>
<td>Beat 3</td>
</tr>
<tr>
<td>Ownership</td>
<td>Water Transport Facility</td>
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<tr>
<td>Land use type</td>
<td>Forest</td>
</tr>
<tr>
<td>Invaded vegetation type</td>
<td>800 sq. ft.</td>
</tr>
<tr>
<td>Gross Area</td>
<td>Canal Maintenance</td>
</tr>
<tr>
<td>Disturbances &amp; impacts</td>
<td>Mixed Conifer-hardwoods; Douglas Fir, Incense Cedar, Black Oak, Dogwood, yarrow, mixed annual grasses.</td>
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<td>Associated species</td>
<td>Shady, north-facing slope.</td>
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<td>Environmental Conditions (e.g. soil conditions, exposure, etc.)</td>
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**Weed Information**

**Weed Identification**

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**Presence**

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<tr>
<td>Treated</td>
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</tr>
<tr>
<td>Infested area</td>
<td>800 sq. ft.</td>
</tr>
<tr>
<td>Canopy Cover</td>
<td>1-5%</td>
</tr>
<tr>
<td>Appearance</td>
<td>New growth</td>
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<td>Distribution pattern</td>
<td>Scattered patchy</td>
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<td>Photo documentation</td>
<td>188, 189</td>
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<td>Land use type</td>
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<td>Invaded vegetation type</td>
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<td>Disturbances &amp; impacts</td>
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<tr>
<td>Land use type</td>
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<tr>
<td>Invaded vegetation type</td>
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<tr>
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<td>Disturbances &amp; impacts</td>
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<td>Associated species</td>
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<td>Canopy Cover</td>
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<td>Appearance</td>
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<td>Distribution pattern</td>
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<td>Datum</td>
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<tr>
<td>Location data accuracy</td>
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<td>Location description</td>
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<td>Observer name(s)</td>
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**Site Information**

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<tr>
<td>Site address or other description</td>
<td>Beat 4 near Esmerelda Tunnel</td>
</tr>
<tr>
<td>Ownership</td>
<td>Water Transport Facility</td>
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<tr>
<td>Land use type</td>
<td>Forest</td>
</tr>
<tr>
<td>Invaded vegetation type</td>
<td>Forest</td>
</tr>
<tr>
<td>Gross Area</td>
<td>750 sq. ft.</td>
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<tr>
<td>Disturbances &amp; impacts</td>
<td>Canal Maintenance</td>
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<tr>
<td>Associated species</td>
<td>Mixed Conifer, Montane Riparian; native blackberry; other weedy species</td>
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<tr>
<td>Environmental Conditions (e.g. soil conditions, exposure, etc.)</td>
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**Weed Information**

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<th>Weed Identification</th>
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<tr>
<td>Weed genus and species</td>
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<td>Weed common name(s)</td>
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**Presence**

<table>
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<th>Present (all)</th>
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<tr>
<td>Treated</td>
<td>Unknown</td>
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<tr>
<td>Infested area</td>
<td>750 sq. ft.</td>
</tr>
<tr>
<td>Canopy Cover</td>
<td>1-5%</td>
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<tr>
<td>Distribution pattern</td>
<td>Flowering</td>
</tr>
<tr>
<td>Photo documentation</td>
<td>202</td>
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**Weed Location**

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<th>Geographic location (ID)</th>
<th>50-08</th>
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</thead>
<tbody>
<tr>
<td>Coordinate system</td>
<td>Ca. State Plane Zone 2</td>
</tr>
<tr>
<td>Datum</td>
<td>NAD83</td>
</tr>
<tr>
<td>Location data accuracy</td>
<td>&lt; 1m</td>
</tr>
<tr>
<td>Location description</td>
<td>On the north side of canal near spillway 30 (Esmerelda Creek). Update: Sparse LEVU remaining.</td>
</tr>
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</table>
### General Information

<table>
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<th>Collection date (mm/dd/yyyy)</th>
<th>7/1/2010</th>
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<tbody>
<tr>
<td>Observer name(s)</td>
<td>Ethan Koenigs</td>
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### Site Information

<table>
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<tr>
<th>Site or facility name</th>
<th>El Dorado Canal</th>
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</thead>
<tbody>
<tr>
<td>Site address or other description</td>
<td>Beat 3</td>
</tr>
<tr>
<td>Ownership</td>
<td>Water Transport Facility</td>
</tr>
<tr>
<td>Invaded vegetation type</td>
<td>Forest</td>
</tr>
<tr>
<td>Gross Area</td>
<td>0.25 acres</td>
</tr>
<tr>
<td>Disturbances &amp; impacts</td>
<td>Canal Maintenance Other man-made disturbance</td>
</tr>
<tr>
<td>Associated species</td>
<td>Mixed Conifer &amp; Hardwood - Incense Cedar, Canyon Live Oak, Thimbleberry, Black Oak; Montane riparian as well.</td>
</tr>
<tr>
<td>Environmental Conditions (e.g. soil conditions, exposure, etc.)</td>
<td>West facing slope near Ogilby Creek.</td>
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</tbody>
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### Weed Information

#### Weed Identification

<table>
<thead>
<tr>
<th>Weed genus and species</th>
<th>Lathyrus latifolius Rubus armeniacus</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weed common name(s)</td>
<td>Perennial Sweet Pea Himalayan Blackberry</td>
</tr>
</tbody>
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#### Presence

<table>
<thead>
<tr>
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<th>Present (all)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Treated</td>
<td>Yes</td>
</tr>
<tr>
<td>Infested area</td>
<td>0.25 acres</td>
</tr>
<tr>
<td>Canopy Cover</td>
<td>1-5%</td>
</tr>
<tr>
<td>New growth</td>
<td></td>
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<tr>
<td>Distribution pattern</td>
<td>Clumpy Linear</td>
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<td>Photo documentation</td>
<td>96-99</td>
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### Weed Location

<table>
<thead>
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<th>Geographic location (ID)</th>
<th>L18-08, L19-08, 27-08, 28-08</th>
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<tr>
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<td>Datum</td>
<td>NAD83</td>
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<tr>
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<td>&lt; 1m</td>
</tr>
<tr>
<td>Location description</td>
<td>Linear stretch on downslope side of flume up to the end of access road near alarm station on Ogilby Creek. Update: Good control - a few patches of LALA4, very little RUAR9; LALA4 patch near Spillway Access Road still present/treated but not controlled</td>
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# APPENDIX C

## EID Weed Observation and Monitoring Form – Roads Near Camp 1

### Photo Log

<table>
<thead>
<tr>
<th>Photo #</th>
<th>GPS Waypoint or feature #</th>
<th>Bearing or Direction</th>
<th>Feature/Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>236</td>
<td>41-08</td>
<td>W</td>
<td>Weed control near canal intake/some LALA4</td>
</tr>
<tr>
<td>237</td>
<td>41-08</td>
<td>W</td>
<td>LALA4 along river near intake</td>
</tr>
<tr>
<td>238</td>
<td>47-08</td>
<td>E</td>
<td>Multiple weeds to east of intake facility</td>
</tr>
<tr>
<td>239</td>
<td>47-08</td>
<td>NE</td>
<td>LALA4 above (N) intake facility</td>
</tr>
<tr>
<td>246/247</td>
<td>40-08</td>
<td>W/SW</td>
<td>LEVU and VETH along flume</td>
</tr>
<tr>
<td>248</td>
<td>48-08</td>
<td>E</td>
<td>Few LEVU</td>
</tr>
<tr>
<td>249</td>
<td>10-09</td>
<td>NW</td>
<td>Good control of HYPE, one small patch along fence</td>
</tr>
<tr>
<td>250</td>
<td>7-8-10-001</td>
<td>E</td>
<td>New point - HYPE</td>
</tr>
<tr>
<td>251/252</td>
<td>L35-08</td>
<td>SW/NE</td>
<td>Large patch of VETH and BRTE near flume – east side of L35-08</td>
</tr>
<tr>
<td>253</td>
<td>L35-08</td>
<td>NW</td>
<td>Good control, weedy outside fence</td>
</tr>
<tr>
<td>254</td>
<td>L34-08</td>
<td>NW</td>
<td>Good control, weedy outside fence (VETH)</td>
</tr>
<tr>
<td>255</td>
<td>L33-08</td>
<td>SE</td>
<td>VETH outside fence</td>
</tr>
<tr>
<td>256</td>
<td>L33-08</td>
<td>NW</td>
<td>HYPE and VETH outside fence</td>
</tr>
<tr>
<td>257</td>
<td>L33-08</td>
<td>E</td>
<td>VETH – mostly outside fence</td>
</tr>
<tr>
<td>258</td>
<td>L33-08</td>
<td>E</td>
<td>Good control along canal</td>
</tr>
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### Notes

C-73
<table>
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<th>Photo #</th>
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<th>Feature/Notes</th>
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<tbody>
<tr>
<td>259</td>
<td>38-08</td>
<td>N</td>
<td>LALA4 still heavy; no CYSC4</td>
</tr>
<tr>
<td>260</td>
<td>L32-08</td>
<td>W</td>
<td>Tall MEOF along Camp 1 canal access road</td>
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<tr>
<td>261</td>
<td>39-08</td>
<td>NW</td>
<td>Clearing surrounded by weeds</td>
</tr>
<tr>
<td>262</td>
<td>L29-08</td>
<td>E</td>
<td>MEOF in turnout</td>
</tr>
<tr>
<td>263</td>
<td>L29-08</td>
<td>W</td>
<td>MEOF, HYPE, and BRTE</td>
</tr>
<tr>
<td>264/265</td>
<td>L29-08</td>
<td>W</td>
<td>MEOF and BRTE along road</td>
</tr>
<tr>
<td>266</td>
<td>37-08</td>
<td>SW</td>
<td>BRID2, MEOF on road shoulder</td>
</tr>
<tr>
<td>267</td>
<td>L30-08</td>
<td>S</td>
<td>LALA4 near house</td>
</tr>
<tr>
<td>268</td>
<td>L30-08</td>
<td>N</td>
<td>BRTE and LALA4 along road</td>
</tr>
<tr>
<td>269</td>
<td>36-08</td>
<td>S</td>
<td>Good control – no noxious weeds</td>
</tr>
<tr>
<td>270</td>
<td>L28-08</td>
<td>NW</td>
<td>Weedy road – MEOF visible</td>
</tr>
<tr>
<td>271</td>
<td>L28-08</td>
<td>NW</td>
<td>Upper end - MEOF</td>
</tr>
<tr>
<td>272</td>
<td>L26-08</td>
<td>S</td>
<td>Good control along “old” section of road</td>
</tr>
<tr>
<td>273</td>
<td>L26-08</td>
<td>N-NW</td>
<td>No MEOF, dense BRID2 and BRTE on down slope</td>
</tr>
<tr>
<td>274</td>
<td>L27-08</td>
<td>NW</td>
<td>Minor BRTE and other weeds</td>
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**Notes**

Page 2
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</tr>
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<td>Gross Area</td>
</tr>
<tr>
<td>Disturbances &amp; impacts</td>
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<tr>
<td>Associated species</td>
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<tr>
<td>Environmental Conditions (e.g. soil conditions, exposure, etc.)</td>
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<tr>
<td>Canopy Cover</td>
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<tr>
<td>Appearance</td>
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<tr>
<td>Distribution pattern</td>
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</tr>
<tr>
<td>Location data accuracy</td>
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<tr>
<td>Location description</td>
</tr>
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<td>---------------------</td>
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<td>Collection date (mm/dd/yyyy)</td>
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<tr>
<td>Observer name(s)</td>
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<td>Site or facility name</td>
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<td>Site address or other description</td>
</tr>
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<td>Gross Area</td>
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<tr>
<td>Disturbances &amp; impacts</td>
</tr>
<tr>
<td>Associated species</td>
</tr>
<tr>
<td>Environmental Conditions (e.g. soil conditions, exposure, etc.)</td>
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<td><strong>Weed Information</strong></td>
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<tr>
<td>Infested area</td>
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<tr>
<td>Distribution pattern</td>
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<td>Coordinate system</td>
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</tr>
<tr>
<td>Collection date (mm/dd/yyyy)</td>
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<tr>
<td>Observer name(s)</td>
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<thead>
<tr>
<th>Site Information</th>
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</thead>
<tbody>
<tr>
<td>Site or facility name</td>
<td>Access Road</td>
</tr>
<tr>
<td>Site address or other description</td>
<td>El Dorado Tunnel Road</td>
</tr>
<tr>
<td>Ownership</td>
<td>Transportation Corridor</td>
</tr>
<tr>
<td>Land use type</td>
<td>Forest</td>
</tr>
<tr>
<td>Invaded vegetation type</td>
<td>Forest</td>
</tr>
<tr>
<td>Gross Area</td>
<td>400 sq. ft.</td>
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<tr>
<td>Disturbances &amp; impacts</td>
<td>Roadside maintenance</td>
</tr>
<tr>
<td>Associated species</td>
<td>Ponderosa Pine, Douglas Fir, Blue Wild Rye, Alder, Big Leaf Maple, Willows</td>
</tr>
<tr>
<td>Environmental Conditions (e.g. soil conditions, exposure, etc.)</td>
<td>Flat area, near Alder Creek</td>
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<table>
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<tr>
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</thead>
<tbody>
<tr>
<td>Weed genus and species</td>
<td>Melilotus officinalis  Bromus tectorum</td>
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<tr>
<td>Weed common name(s)</td>
<td>White Sweet Clover  Cheat grass</td>
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<table>
<thead>
<tr>
<th>Weed Identification</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Presence or Absence</td>
<td>Present (all)</td>
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<tr>
<td>Treated</td>
<td>Yes</td>
</tr>
<tr>
<td>Infested area</td>
<td>0 sq. ft.</td>
</tr>
<tr>
<td>Canopy Cover</td>
<td>&lt;1%</td>
</tr>
<tr>
<td>Appearance</td>
<td>New growth  Seeding</td>
</tr>
<tr>
<td>Distribution pattern</td>
<td>Scattered even</td>
</tr>
<tr>
<td>Photo documentation</td>
<td>269</td>
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<thead>
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<tr>
<td>Coordinate system</td>
<td>Ca. State Plane Zone 2</td>
</tr>
<tr>
<td>Datum</td>
<td>NAD83</td>
</tr>
<tr>
<td>Location data accuracy</td>
<td>&lt; 1m</td>
</tr>
<tr>
<td>Location description</td>
<td>El Dorado Tunnel road, 100' from gate &amp; near siphon; within 100' of Alder Crk.  Update: Good Control, Minimal weeds.</td>
</tr>
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</table>
### General Information

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<thead>
<tr>
<th>Collection date (mm/dd/yyyy)</th>
<th>7/8/2010</th>
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<tbody>
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<td>Observer name(s)</td>
<td>Ethan Koenigs, Logan McCarthy</td>
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### Site Information

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<tr>
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<th>Access Road</th>
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<tr>
<td>Site address or other description</td>
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<tr>
<td>Ownership</td>
<td>Transportation Corridor</td>
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<td>Land use type</td>
<td>Forest</td>
</tr>
<tr>
<td>Invaded vegetation type</td>
<td>Forest</td>
</tr>
<tr>
<td>Gross Area</td>
<td>250 sq. ft.</td>
</tr>
<tr>
<td>Disturbances &amp; impacts</td>
<td>Roadside maintenance</td>
</tr>
<tr>
<td>Associated species</td>
<td>Black Oak, Douglas fir, Incense Cedar, Deer Brush, Yarrow</td>
</tr>
<tr>
<td>Environmental Conditions (e.g. soil conditions, exposure, etc.)</td>
<td>gravel road</td>
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### Weed Information

#### Weed Identification

<table>
<thead>
<tr>
<th>Weed genus and species</th>
<th>Bromus tectorum</th>
<th>Melilotus officinalis</th>
<th>Bromus diandrus</th>
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<tbody>
<tr>
<td>Weed common name(s)</td>
<td>Cheat grass</td>
<td>White Sweet Clover</td>
<td>Ripgut Brome</td>
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#### Weed Description

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<th>Present (all)</th>
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<tbody>
<tr>
<td>Treated</td>
<td>Yes</td>
</tr>
<tr>
<td>Infested area</td>
<td>250 sq. ft.</td>
</tr>
<tr>
<td>Canopy Cover</td>
<td>1-5%</td>
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<tr>
<td>Appearance</td>
<td>New growth</td>
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<tr>
<td>Distribution pattern</td>
<td>Clumpy</td>
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<td>Photo documentation</td>
<td>Linear</td>
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#### Weed Location

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<td>NAD83</td>
</tr>
<tr>
<td>Location data accuracy</td>
<td>&lt; 1m</td>
</tr>
<tr>
<td>Location description</td>
<td>West side of road, half-way up. Sweet clover very minimal, mostly ripgut and cheat grass. Update: small occurrence, no change since 2009.</td>
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<tr>
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<th><strong>Site Information</strong></th>
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<tbody>
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<tr>
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<td>Land use type</td>
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<td>Invaded vegetation type</td>
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<tr>
<td>Gross Area</td>
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<tr>
<td>Disturbances &amp; impacts</td>
</tr>
<tr>
<td>Associated species</td>
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<th><strong>Weed Information</strong></th>
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<td>Weed common name(s)</td>
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<td>Infested area</td>
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<td>Canopy Cover</td>
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<tr>
<td>Appearance</td>
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<td>Distribution pattern</td>
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<td>Photo documentation</td>
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<td>Datum</td>
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### General Information

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<tbody>
<tr>
<td>Observer name(s)</td>
<td>Ethan Koenigs</td>
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### Site Information

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<tr>
<th>Site or facility name</th>
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<tbody>
<tr>
<td>Site address or other description</td>
<td>Camp 1 road (East fork of road)</td>
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<tr>
<td>Ownership</td>
<td>Transportation Corridor, Water Transport Facility</td>
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<tr>
<td>Land use type</td>
<td>Forest</td>
</tr>
<tr>
<td>Invaded vegetation type</td>
<td>Forest</td>
</tr>
<tr>
<td>Gross Area</td>
<td>3500 sq. ft.</td>
</tr>
<tr>
<td>Disturbances &amp; impacts</td>
<td>Roadside maintenance, Other man-made disturbance</td>
</tr>
<tr>
<td>Associated species</td>
<td>Ponderosa Pine, Douglas Fir, Black Oak, Deer Brush, Blue Wild Rye, Curly Dock</td>
</tr>
<tr>
<td>Environmental Conditions (e.g. soil conditions, exposure, etc.)</td>
<td>Northwest-facing slope, rocky soil, very exposed</td>
</tr>
</tbody>
</table>

### Weed Information

#### Weed Identification

<table>
<thead>
<tr>
<th>Weed genus and species</th>
<th>Melilotus officinalis</th>
<th>Bromus tectorum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weed common name(s)</td>
<td>Sweet Clover</td>
<td>Cheat Grass</td>
</tr>
</tbody>
</table>

#### Present (not all species)

<table>
<thead>
<tr>
<th>Presence or Absence</th>
<th>Present (all)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Treated</td>
<td>Yes</td>
</tr>
<tr>
<td>Infested area</td>
<td>1000 sq. ft.</td>
</tr>
<tr>
<td>Canopy Cover</td>
<td>1-5%</td>
</tr>
<tr>
<td>Appearance</td>
<td>New growth</td>
</tr>
<tr>
<td>Distribution pattern</td>
<td>Clumpy</td>
</tr>
<tr>
<td>Photo documentation</td>
<td>261</td>
</tr>
</tbody>
</table>

#### Weed Location

<table>
<thead>
<tr>
<th>Geographic location (ID)</th>
<th>39-08</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coordinate system</td>
<td>Ca. State Plane Zone 2</td>
</tr>
<tr>
<td>Datum</td>
<td>NAD83</td>
</tr>
<tr>
<td>Location data accuracy</td>
<td>&lt; 1m</td>
</tr>
</tbody>
</table>

Location description: Large clearing; weeds primarily around the margin. Update: Very little MEOF. BRTE around edge as last year.
<table>
<thead>
<tr>
<th><strong>General Information</strong></th>
<th><strong>ID:</strong> 40-08</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Collection date</strong></td>
<td>7/8/2010</td>
</tr>
<tr>
<td><strong>Observer name(s)</strong></td>
<td>Ethan Koenigs</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Site Information</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Site or facility name</strong></td>
</tr>
<tr>
<td><strong>Site address or other description</strong></td>
</tr>
<tr>
<td><strong>Ownership</strong></td>
</tr>
<tr>
<td><strong>Land use type</strong></td>
</tr>
<tr>
<td><strong>Invaded vegetation type</strong></td>
</tr>
<tr>
<td><strong>Gross Area</strong></td>
</tr>
<tr>
<td><strong>Disturbances &amp; impacts</strong></td>
</tr>
<tr>
<td><strong>Associated species</strong></td>
</tr>
<tr>
<td><strong>Environmental Conditions (e.g. soil conditions, exposure, etc.)</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Weed Information</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Weed genus and species</strong></td>
</tr>
<tr>
<td><strong>Weed common name(s)</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Presence</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Presence or Absence</strong></td>
</tr>
<tr>
<td><strong>Treated</strong></td>
</tr>
<tr>
<td><strong>Infested area</strong></td>
</tr>
<tr>
<td><strong>Canopy Cover</strong></td>
</tr>
<tr>
<td><strong>Appearance</strong></td>
</tr>
<tr>
<td><strong>Distribution pattern</strong></td>
</tr>
<tr>
<td><strong>Photo documentation</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Weed Location</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Geographic location (ID)</strong></td>
</tr>
<tr>
<td><strong>Coordinate system</strong></td>
</tr>
<tr>
<td><strong>Datum</strong></td>
</tr>
<tr>
<td><strong>Location data accuracy</strong></td>
</tr>
<tr>
<td><strong>Location description</strong></td>
</tr>
<tr>
<td>General Information</td>
</tr>
<tr>
<td>---------------------</td>
</tr>
<tr>
<td>Collection date (mm/dd/yyyy)</td>
</tr>
<tr>
<td>Observer name(s)</td>
</tr>
</tbody>
</table>

### Site Information

<table>
<thead>
<tr>
<th>Site or facility name</th>
<th>Diversion Dam</th>
</tr>
</thead>
<tbody>
<tr>
<td>Site address or other description</td>
<td>Northwest side of facility</td>
</tr>
<tr>
<td>Ownership</td>
<td>Water Transport Facility</td>
</tr>
<tr>
<td>Invaded vegetation type</td>
<td>Forest</td>
</tr>
<tr>
<td>Gross Area</td>
<td>5,000 sq. ft.</td>
</tr>
<tr>
<td>Disturbances &amp; impacts</td>
<td>Facility Maintenance</td>
</tr>
<tr>
<td>Associated species</td>
<td>Mixed Confier, Black Oak, Black Cottonwood</td>
</tr>
<tr>
<td>Environmental Conditions (e.g. soil conditions, exposure, etc.)</td>
<td>Rocky, exposed</td>
</tr>
</tbody>
</table>

### Weed Information

#### Weed Identification

<table>
<thead>
<tr>
<th>Weed genus and species</th>
<th>Lathyrus latifolius</th>
<th>Verbascum thapsus</th>
<th>Leucanthemum vulgare</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weed common name(s)</td>
<td>Sweet Pea</td>
<td>Wooly Mullein</td>
<td>Ox-eye Daisy</td>
</tr>
</tbody>
</table>

#### Present (not all species)

<table>
<thead>
<tr>
<th>Presence or Absence</th>
<th>Present (not all species)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Treated</td>
<td>Yes (physical removal - weed trimmer)</td>
</tr>
<tr>
<td>Infested area</td>
<td>2,000 sq. ft.</td>
</tr>
<tr>
<td>Canopy Cover</td>
<td>5-25%</td>
</tr>
<tr>
<td>Appearance</td>
<td>Flowering</td>
</tr>
<tr>
<td>Distribution pattern</td>
<td>Scattered patchy</td>
</tr>
<tr>
<td>Photo documentation</td>
<td>236/237</td>
</tr>
</tbody>
</table>

### Weed Location

<table>
<thead>
<tr>
<th>Geographic location (ID)</th>
<th>41-08</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coordinate system</td>
<td>Ca. State Plane Zone 2</td>
</tr>
<tr>
<td>Datum</td>
<td>NAD83</td>
</tr>
<tr>
<td>Location data accuracy</td>
<td>1-5m</td>
</tr>
<tr>
<td>Location description</td>
<td>Disturbed area adjacent to Diversion Dam and rive; also along road. UPDATE: Overall area reduced; LALA4 concentrated in rocks between &quot;Boater Put-In&quot; sign and fish ladder.</td>
</tr>
</tbody>
</table>
**General Information**

<table>
<thead>
<tr>
<th>Collection date (mm/dd/yyyy)</th>
<th>07/08/2010</th>
</tr>
</thead>
<tbody>
<tr>
<td>Observer name(s)</td>
<td>Ethan Koenigs</td>
</tr>
</tbody>
</table>

**Site Information**

<table>
<thead>
<tr>
<th>Site or facility name</th>
<th>Diversion Dam</th>
</tr>
</thead>
<tbody>
<tr>
<td>Site address or other description</td>
<td>Northeast side of facility</td>
</tr>
<tr>
<td>Ownership</td>
<td></td>
</tr>
<tr>
<td>Land use type</td>
<td>Water Transport Facility</td>
</tr>
<tr>
<td>Invaded vegetation type</td>
<td>Forest</td>
</tr>
<tr>
<td>Gross Area</td>
<td>0.25 acres</td>
</tr>
<tr>
<td>Disturbances &amp; impacts</td>
<td>Facility Maintenance</td>
</tr>
<tr>
<td>Associated species</td>
<td>Mixed Conifer, Black Oak</td>
</tr>
<tr>
<td>Environmental Conditions (e.g. soil conditions, exposure, etc.)</td>
<td>Very exposed, sunny.</td>
</tr>
</tbody>
</table>

**Weed Information**

**Weed Identification**

<table>
<thead>
<tr>
<th>Weed genus and species</th>
<th>Lathyrus latifolius</th>
<th>Verbascum thapsus</th>
<th>Centaurea solstitialis</th>
<th>Bromus tectorum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weed common name(s)</td>
<td>Sweet Pea (50%)</td>
<td>Woolly Mullein (&lt;1%)</td>
<td>Star Thistle (&lt;1%)</td>
<td>Cheat Grass (10%)</td>
</tr>
</tbody>
</table>

**Presence (not all species)**

<table>
<thead>
<tr>
<th>Presence or Absence</th>
<th>Present (not all species)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Treated</td>
<td>Unknown</td>
</tr>
<tr>
<td>Infested area</td>
<td>10,000 sq. ft.</td>
</tr>
<tr>
<td>Canopy Cover</td>
<td>50-75%</td>
</tr>
<tr>
<td>Appearance</td>
<td>Flowering</td>
</tr>
<tr>
<td>Distribution pattern</td>
<td>Clumpy</td>
</tr>
<tr>
<td>Photo documentation</td>
<td>238/239</td>
</tr>
<tr>
<td></td>
<td>Seeding</td>
</tr>
<tr>
<td></td>
<td>Scattered patchy</td>
</tr>
</tbody>
</table>

**Weed Location**

<table>
<thead>
<tr>
<th>Geographic location (ID)</th>
<th>47-08</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coordinate system</td>
<td>Ca. State Plane Zone 2</td>
</tr>
<tr>
<td>Datum</td>
<td>NAD83</td>
</tr>
<tr>
<td>Location data accuracy</td>
<td>1-5m</td>
</tr>
<tr>
<td>Location description</td>
<td>Area adjacent to gravel turn around, near large boulders; mostly Sweet Pea; UPDATE: Some weed trimming at edge of gravel turn-around. Heavy LALA4; Overall about same as 2009 - needs addl. treatment.</td>
</tr>
<tr>
<td><strong>General Information</strong></td>
<td><strong>ID: 48-08</strong></td>
</tr>
<tr>
<td>-------------------------------------------------------------</td>
<td>---------------</td>
</tr>
<tr>
<td>Collection date (mm/dd/yyyy)</td>
<td>7/8/2010</td>
</tr>
<tr>
<td>Observer name(s)</td>
<td>Ethan Koenigs</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Site Information</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Site or facility name</td>
</tr>
<tr>
<td>Site address or other description</td>
</tr>
<tr>
<td>Ownership</td>
</tr>
<tr>
<td>Land use type</td>
</tr>
<tr>
<td>Invaded vegetation type</td>
</tr>
<tr>
<td>Gross Area</td>
</tr>
<tr>
<td>Disturbances &amp; impacts</td>
</tr>
<tr>
<td>Associated species</td>
</tr>
<tr>
<td>Environmental Conditions (e.g. soil conditions, exposure, etc.)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Weed Information</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Weed genus and species</td>
</tr>
<tr>
<td>Weed common name(s)</td>
</tr>
<tr>
<td><strong>Weed Identification</strong></td>
</tr>
<tr>
<td>Presence or Absence</td>
</tr>
<tr>
<td>Treated</td>
</tr>
<tr>
<td>Infested area</td>
</tr>
<tr>
<td>Canopy Cover</td>
</tr>
<tr>
<td>Appearance</td>
</tr>
<tr>
<td>Distribution pattern</td>
</tr>
<tr>
<td>Photo documentation</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Weed Location</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Geographic location (ID)</td>
</tr>
<tr>
<td>Coordinate system</td>
</tr>
<tr>
<td>Datum</td>
</tr>
<tr>
<td>Location data accuracy</td>
</tr>
<tr>
<td>Location description</td>
</tr>
</tbody>
</table>
### General Information
<table>
<thead>
<tr>
<th>Collection date (mm/dd/yyyy)</th>
<th>7/8/2010</th>
</tr>
</thead>
<tbody>
<tr>
<td>Observer name(s)</td>
<td>Ethan Koenigs</td>
</tr>
</tbody>
</table>

### Site Information
<table>
<thead>
<tr>
<th>Site or facility name</th>
<th>Access Road</th>
</tr>
</thead>
<tbody>
<tr>
<td>Site address or other description</td>
<td>The El Dorado Tunnel road</td>
</tr>
<tr>
<td>Ownership</td>
<td>Transportation Corridor</td>
</tr>
<tr>
<td>Land use type</td>
<td>Forest</td>
</tr>
<tr>
<td>Invaded vegetation type</td>
<td></td>
</tr>
<tr>
<td>Gross Area</td>
<td>3000 sq. ft.</td>
</tr>
<tr>
<td>Disturbances &amp; impacts</td>
<td>Roadside maintenance, Tunnel Construction</td>
</tr>
<tr>
<td>Associated species</td>
<td>Deer Brush, Black Oak, Big Leaf Maple, other weedy species</td>
</tr>
<tr>
<td>Environmental Conditions (e.g. soil conditions, exposure, etc.)</td>
<td>East-facing slope; very exposed</td>
</tr>
</tbody>
</table>

### Weed Information
<table>
<thead>
<tr>
<th>Weed genus and species</th>
<th>Meliolotus officinalis, Hypericum perforatum, Bromus tectorum, Bromus diandrus</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weed common name(s)</td>
<td>Sweet Clover, Klamath Weed, Cheat grass, Ripgut Brome</td>
</tr>
</tbody>
</table>

#### Presence or Absence
- Present (all)

#### Treated
- Yes

#### Infested area
- 3000 sq. ft.

#### Canopy Cover
- <1%

#### Appearance
- Flowering, Flowering, Seeding, Senesc.

#### Distribution pattern
- Clumpy, Scattered even, Linear, Scattered even

#### Photo documentation
- 272/273

### Weed Location
<table>
<thead>
<tr>
<th>Geographic location (ID)</th>
<th>L26-08</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coordinate system</td>
<td>Ca. State Plane Zone 2</td>
</tr>
<tr>
<td>Datum</td>
<td>NAD83</td>
</tr>
<tr>
<td>Location data accuracy</td>
<td>&lt; 1m</td>
</tr>
<tr>
<td>Location description</td>
<td>Upper Section of road from siphon exit to old canal bench. Update: MEOF still under control. Heavy BRID2 and BRTE.</td>
</tr>
</tbody>
</table>

C-85
<table>
<thead>
<tr>
<th><strong>General Information</strong></th>
<th><strong>ID:</strong> L27-08</th>
</tr>
</thead>
<tbody>
<tr>
<td>Collection date (mm/dd/yyyy)</td>
<td>7/8/2010</td>
</tr>
<tr>
<td>Observer name(s)</td>
<td>Ethan Koenigs,</td>
</tr>
<tr>
<td><strong>Site Information</strong></td>
<td></td>
</tr>
<tr>
<td>Site or facility name</td>
<td>El Dorado Canal</td>
</tr>
<tr>
<td>Site address or other description</td>
<td>Short Section just before El Dorado Tunnel</td>
</tr>
<tr>
<td>Ownership</td>
<td>EID</td>
</tr>
<tr>
<td>Land use type</td>
<td>Water Transport Facility</td>
</tr>
<tr>
<td>Invaded vegetation type</td>
<td>Forest</td>
</tr>
<tr>
<td>Gross Area</td>
<td>750 sq. ft.</td>
</tr>
<tr>
<td>Disturbances &amp; impacts</td>
<td>Canal Maintenance</td>
</tr>
<tr>
<td>Associated species</td>
<td>Ponderosa Pine, Douglas fir, Black Oak, Deer Brush, Big Leaf Maple, other weedy species.</td>
</tr>
<tr>
<td>Environmental Conditions</td>
<td>North facing slope no tree canopy.</td>
</tr>
<tr>
<td><strong>Weed Information</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Weed Identification</strong></td>
<td></td>
</tr>
<tr>
<td>Weed genus and species</td>
<td>Hypericum perforatum, Melilotus officinalis, Bromus tectorum</td>
</tr>
<tr>
<td>Weed common name(s)</td>
<td>Klamath Weed, White Sweet Clover, Cheat grass</td>
</tr>
<tr>
<td><strong>Weed Description</strong></td>
<td></td>
</tr>
<tr>
<td>Presence or Absence</td>
<td>Present (all)</td>
</tr>
<tr>
<td>Treated</td>
<td>Yes</td>
</tr>
<tr>
<td>Infested area</td>
<td>750 sq. ft.</td>
</tr>
<tr>
<td>Canopy Cover</td>
<td>&lt;1%</td>
</tr>
<tr>
<td>Appearance</td>
<td>Flowering</td>
</tr>
<tr>
<td>Distribution pattern</td>
<td>Scattered patchy, Linear</td>
</tr>
<tr>
<td>Photo documentation</td>
<td>274</td>
</tr>
<tr>
<td><strong>Weed Location</strong></td>
<td></td>
</tr>
<tr>
<td>Geographic location (ID)</td>
<td>L27-08</td>
</tr>
<tr>
<td>Coordinate system</td>
<td>Ca. State Plane Zone 2</td>
</tr>
<tr>
<td>Datum</td>
<td></td>
</tr>
<tr>
<td>Location data accuracy</td>
<td>&lt; 1m</td>
</tr>
<tr>
<td>Location description</td>
<td>Short section of canal from fence to flume. Update: Same as 2009</td>
</tr>
</tbody>
</table>
**General Information**

<table>
<thead>
<tr>
<th>Collection date (mm/dd/yyyy)</th>
<th>7/8/2010</th>
</tr>
</thead>
<tbody>
<tr>
<td>Observer name(s)</td>
<td>Ethan Koenigs</td>
</tr>
</tbody>
</table>

**Site Information**

<table>
<thead>
<tr>
<th>Site or facility name</th>
<th>Access Road</th>
</tr>
</thead>
<tbody>
<tr>
<td>Site address or other description</td>
<td>El Dorado tunnel road</td>
</tr>
<tr>
<td>Ownership</td>
<td>Transportation Corridor</td>
</tr>
<tr>
<td>Land use type</td>
<td>Forest</td>
</tr>
<tr>
<td>Invaded vegetation type</td>
<td>Forest</td>
</tr>
<tr>
<td>Gross Area</td>
<td>0.6 acres</td>
</tr>
<tr>
<td>Disturbances &amp; impacts</td>
<td>Roadside maintenance</td>
</tr>
<tr>
<td>Associated species</td>
<td>Deer Brush, Black Oak, Big Leaf Maple, other weedy species</td>
</tr>
<tr>
<td>Environmental Conditions (e.g. soil conditions, exposure, etc.)</td>
<td>East-facing slope</td>
</tr>
</tbody>
</table>

**Weed Information**

| Weed Identification |
|----------------------|----------------|
| Weed genus and species | *M. officinalis, T. arvensis, H. perforatum, B. tectorum, Bromus diandrus, Taenatherum caput-medusae* |
| Weed common name(s) | White Sweet Clover, Hedge, Klamath Weed, Cheat grass, Ripgut Brome, Medusahead Grass |

**Weed Location**

<table>
<thead>
<tr>
<th>Geographic location (ID)</th>
<th>L28-08</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coordinate system</td>
<td>Ca. State Plane Zone 2</td>
</tr>
<tr>
<td>Datum</td>
<td>NAD83</td>
</tr>
<tr>
<td>Location data accuracy</td>
<td>&lt; 1m</td>
</tr>
<tr>
<td>Location description</td>
<td>Lower section of road starting from L26-08 to near bridge over Alder Creek. Update: Lower section of road from Alder bridge to switchback has increased weeds from 2009 (low density MEOF, HYPE, TOAR); weed density and species variable along rd.</td>
</tr>
<tr>
<td>General Information</td>
<td>ID: L29-08</td>
</tr>
<tr>
<td>---------------------</td>
<td>------------</td>
</tr>
<tr>
<td>Collection date (mm/dd/yyyy)</td>
<td>7/8/2010</td>
</tr>
<tr>
<td>Observer name(s)</td>
<td>Ethan Koenigs</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Site Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Site or facility name</td>
</tr>
<tr>
<td>Site address or other description</td>
</tr>
<tr>
<td>Ownership</td>
</tr>
<tr>
<td>Land use type</td>
</tr>
<tr>
<td>Invaded vegetation type</td>
</tr>
<tr>
<td>Gross Area</td>
</tr>
<tr>
<td>Disturbances &amp; impacts</td>
</tr>
<tr>
<td>Associated species</td>
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<tr>
<td>Environmental Conditions (e.g. soil conditions, exposure, etc.)</td>
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<table>
<thead>
<tr>
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</tr>
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<tbody>
<tr>
<td>Weed genus and species</td>
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<tr>
<td>Weed common name(s)</td>
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### Present (not all species)

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<thead>
<tr>
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<tbody>
<tr>
<td>Treated</td>
<td>No</td>
</tr>
<tr>
<td>Infested area</td>
<td>8800 sq. ft.</td>
</tr>
<tr>
<td>Canopy Cover</td>
<td>&lt;1% &lt;1% &lt;1% 1-5%</td>
</tr>
<tr>
<td>Appearance</td>
<td>New growth Flowering Seeding Senesc.</td>
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<tr>
<td>Distribution pattern</td>
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<td>262-265</td>
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<tr>
<td>Location description</td>
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<td>Ownership</td>
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<tr>
<td>Land use type</td>
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<td>Disturbances &amp; impacts</td>
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<td>Appearance</td>
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<td>Distribution pattern</td>
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<tr>
<td>Appearance</td>
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<tr>
<td>Distribution pattern</td>
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<td>Photo documentation</td>
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<tr>
<td>Disturbances &amp; impacts</td>
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<tr>
<td>Associated species</td>
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<tr>
<td>Environmental Conditions (e.g. soil conditions, exposure, etc.)</td>
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<table>
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<tr>
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<table>
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<tr>
<td>Appearance</td>
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<tr>
<td>Distribution pattern</td>
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<tr>
<td>Photo documentation</td>
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<td>Datum</td>
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<td>Location data accuracy</td>
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<tr>
<td>Location description</td>
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</tr>
<tr>
<td>Collection date (mm/dd/yyyy)</td>
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<tr>
<td>Observer name(s)</td>
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</thead>
<tbody>
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</tr>
<tr>
<td>Site address or other description</td>
<td>Beat 1</td>
</tr>
<tr>
<td>Ownership</td>
<td></td>
</tr>
<tr>
<td>Land use type</td>
<td>Water Transport Facility</td>
</tr>
<tr>
<td>Invaded vegetation type</td>
<td>Forest</td>
</tr>
<tr>
<td>Gross Area</td>
<td>3,000 sq. ft.</td>
</tr>
<tr>
<td>Disturbances &amp; impacts</td>
<td>Canal Maintenance Historic Fire</td>
</tr>
<tr>
<td>Associated species</td>
<td>Bracken Fern, Thimbleberry</td>
</tr>
<tr>
<td>Environmental Conditions (e.g. soil conditions, exposure, etc.)</td>
<td>very exposed, northeast facing slope</td>
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</table>

<table>
<thead>
<tr>
<th><strong>Weed Information</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Weed genus and species</td>
<td><em>Bromus tectorum</em> <em>Verbascum thapsus</em></td>
</tr>
<tr>
<td>Weed common name(s)</td>
<td>Cheat grass Woolly Mullein</td>
</tr>
</tbody>
</table>

### Present (not all species)

| Presence or Absence              | Present (not all species) No CHJU or CESO |
| Treatment                        | Yes |
| Infested area                    | 3,000 sq. ft. |
| Canopy Cover                     | 1-5% 1-5% |
| Appearance                       | Senesc. Flowering |
| Distribution pattern             | Linear Clumpy |
| Photo documentation              | 254/255 |

### Weed Location

<table>
<thead>
<tr>
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<th>L34-08</th>
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<tbody>
<tr>
<td>Coordinate system</td>
<td>Ca. State Plane Zone 2</td>
</tr>
<tr>
<td>Datum</td>
<td>NAD83</td>
</tr>
<tr>
<td>Location data accuracy</td>
<td>1-5m</td>
</tr>
<tr>
<td>Location description</td>
<td>Along canal bench north side; <strong>UPDATE:</strong> Most VETH and BRTE outside fence. Significant increase in VETH in 2010.</td>
</tr>
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**General Information**

<table>
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<td>Ethan Koenigs,</td>
</tr>
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**Site Information**

<table>
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<tr>
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</tr>
<tr>
<td>Ownership</td>
<td></td>
</tr>
<tr>
<td>Land use type</td>
<td>Water Transport Facility</td>
</tr>
<tr>
<td>Invaded vegetation type</td>
<td>Forest</td>
</tr>
<tr>
<td>Gross Area</td>
<td>3,000 sq. ft.</td>
</tr>
<tr>
<td>Disturbances &amp; impacts</td>
<td>Canal Maintenance Historic Fire</td>
</tr>
<tr>
<td>Associated species</td>
<td>Deer Brush, Big Leaf Maple, Black Oak, various weeds</td>
</tr>
<tr>
<td>Environmental Conditions (e.g. soil conditions, exposure, etc.)</td>
<td>NE exposure; very exposed</td>
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**Weed Information**

**Weed Identification**

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<tr>
<th>Weed genus and species</th>
<th><em>Chondrilla juncea</em></th>
<th><em>Bromus tectorum</em></th>
<th><em>Verbascum thapsus</em></th>
</tr>
</thead>
<tbody>
<tr>
<td>Weed common name(s)</td>
<td>Rush Skeleton weed</td>
<td>Cheat Grass</td>
<td>wooly mullein</td>
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**Present (not all species)**

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<thead>
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<th>Presence or Absence(s)</th>
<th>Present (all)</th>
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<tbody>
<tr>
<td>Treatment</td>
<td>Yes</td>
</tr>
<tr>
<td>Infested area</td>
<td>3,000 sq. ft.</td>
</tr>
<tr>
<td>Canopy Cover</td>
<td>&lt;1%</td>
</tr>
<tr>
<td>Appearance</td>
<td>Flowering</td>
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<tr>
<td>Distribution pattern</td>
<td>Linear</td>
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**Weed Location**

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<td>Other (specify): State Plane</td>
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<td>Datum</td>
<td>NAD83</td>
</tr>
<tr>
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<td>1-5m</td>
</tr>
<tr>
<td>Location description</td>
<td>Beginning just west of flume on north side of canal for approximately 200'; UPDATE: Partial control of weeds; Beginning at flume - large patch of VETH below flume (N. side) along with BRTE - Outside fence heavy BRTE, and scattered VETH and CHJU</td>
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## APPENDIX C

**EID Weed Observation and Monitoring Form – Silver/Caples Area**

### Photo Log

<table>
<thead>
<tr>
<th>Photo #</th>
<th>GPS Waypoint or feature #</th>
<th>Bearing or Direction</th>
<th>Feature/Notes</th>
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<tbody>
<tr>
<td>454/455</td>
<td>11-09</td>
<td>SW</td>
<td>Silver Lake - VETH at day use boat ramp</td>
</tr>
<tr>
<td>458/459</td>
<td>11-09</td>
<td>E</td>
<td>Silver Lake - VETH at day use boat ramp</td>
</tr>
<tr>
<td>461</td>
<td>44-08</td>
<td>NW</td>
<td>Silver Lake – near Kit Carson Lodge - Road to Ferguson Pt.</td>
</tr>
<tr>
<td>462</td>
<td>44-08</td>
<td>SE</td>
<td>Silver Lake – near Kit Carson Lodge - Road to Ferguson Pt.</td>
</tr>
<tr>
<td>467/468</td>
<td>49-08</td>
<td>W-SW</td>
<td>VETH along face of dam</td>
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### Notes

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<tr>
<td>Canopy Cover</td>
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<tr>
<td>Appearance</td>
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<tr>
<td>Distribution pattern</td>
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<td>Photo documentation</td>
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<tr>
<td>Location data accuracy</td>
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<td>Location description</td>
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<td><em>Verbascum thapsus</em> <em>Cirsium vulgare</em></td>
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<td>Wooly Mullein Bull Thistle</td>
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<td>Location data accuracy</td>
<td>1-5m</td>
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<tr>
<td>Location description</td>
<td>Northwest side of dam at intersection to Ferguson Point. Update: Only s small VETH plants and few CIVU</td>
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C-97
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<td>Invaded vegetation type</td>
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<tr>
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<tr>
<td>Disturbances &amp; impacts</td>
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<tr>
<td>Associated species</td>
</tr>
<tr>
<td>Environmental Conditions (e.g. soil conditions, exposure, etc.)</td>
</tr>
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<table>
<thead>
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</tr>
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<tbody>
<tr>
<td>Weed genus and species</td>
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<tr>
<td>Weed common name(s)</td>
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<table>
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<tbody>
<tr>
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</tr>
<tr>
<td>Presence or Absence</td>
</tr>
<tr>
<td>Treated</td>
</tr>
<tr>
<td>Infested area</td>
</tr>
<tr>
<td>Canopy Cover</td>
</tr>
<tr>
<td>Appearance</td>
</tr>
<tr>
<td>Distribution pattern</td>
</tr>
<tr>
<td>Photo documentation</td>
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</tr>
<tr>
<td>Location description</td>
</tr>
<tr>
<td>General Information</td>
</tr>
<tr>
<td>---------------------</td>
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<td>Collection date (mm/dd/yyyy)</td>
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<tr>
<td>Site address or other description</td>
</tr>
<tr>
<td>Ownership</td>
</tr>
<tr>
<td>Land use type</td>
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<tr>
<td>Invaded vegetation type</td>
</tr>
<tr>
<td>Gross Area</td>
</tr>
<tr>
<td>Disturbances &amp; impacts</td>
</tr>
<tr>
<td>Associated species</td>
</tr>
<tr>
<td>Environmental Conditions (e.g. soil conditions, exposure, etc.)</td>
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<tr>
<td>Treated</td>
</tr>
<tr>
<td>Infested area</td>
</tr>
<tr>
<td>Canopy Cover</td>
</tr>
<tr>
<td>Appearance</td>
</tr>
<tr>
<td>Distribution pattern</td>
</tr>
<tr>
<td>Photo documentation</td>
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<tr>
<td>Datum</td>
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<tr>
<td>Location data accuracy</td>
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<td>Location description</td>
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# APPENDIX C

EID Weed Observation and Monitoring Form – Lower Penstock

## Photo Log

<table>
<thead>
<tr>
<th>Photo #</th>
<th>GPS Waypoint or feature #</th>
<th>Bearing or Direction</th>
<th>Feature/Notes</th>
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</thead>
<tbody>
<tr>
<td>653</td>
<td>09-08</td>
<td>N</td>
<td>Powerhouse – dense MEOF and VETH</td>
</tr>
<tr>
<td>654</td>
<td>L01-09</td>
<td>W</td>
<td>RUAR9 along pathway up penstock</td>
</tr>
<tr>
<td>655</td>
<td>L01-09</td>
<td>S</td>
<td>RUAR9 in foreground and significant VETH along penstock</td>
</tr>
<tr>
<td>656</td>
<td>L01-09</td>
<td>S</td>
<td>VETH along penstock</td>
</tr>
<tr>
<td>657</td>
<td>11-08</td>
<td>W</td>
<td>RUAR9 adjacent to penstock and structure</td>
</tr>
<tr>
<td>658</td>
<td>11-08</td>
<td>S</td>
<td>VETH scattered here as well and 150’ up from point.</td>
</tr>
<tr>
<td>662</td>
<td>02-09</td>
<td>N-NE</td>
<td>MEOF near surge chamber</td>
</tr>
<tr>
<td>663</td>
<td>L2-09</td>
<td>E</td>
<td>HYPE near penstock</td>
</tr>
<tr>
<td>664</td>
<td>L2-09</td>
<td>E</td>
<td>HYPE near penstock</td>
</tr>
<tr>
<td>669</td>
<td>Area 01</td>
<td>SW</td>
<td>LALA4 upper NW corner of dam at Forebay</td>
</tr>
<tr>
<td>670</td>
<td>46-08</td>
<td>NE</td>
<td>LALA4 – parking lot of Forebay</td>
</tr>
<tr>
<td>671/672</td>
<td>L06-08</td>
<td>E</td>
<td>CYSC4 at Forebay</td>
</tr>
<tr>
<td>673/674</td>
<td>L04-09</td>
<td>NW</td>
<td>CIVU, LEVU, HYPE along lake shore</td>
</tr>
<tr>
<td>675/676</td>
<td>L05-09</td>
<td>N/S</td>
<td>HYPE and LEVU along shore/heavy RUAR9 along lake</td>
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## Notes
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<td>Collection date (mm/dd/yyyy)</td>
<td>7/28/2010</td>
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<tr>
<td>Observer name(s)</td>
<td>Ethan Koenigs</td>
</tr>
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<th>Site Information</th>
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<tbody>
<tr>
<td>Site or facility name</td>
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<tr>
<td>Site address or other description</td>
</tr>
<tr>
<td>Ownership</td>
</tr>
<tr>
<td>Land use type</td>
</tr>
<tr>
<td>Invaded vegetation type</td>
</tr>
<tr>
<td>Gross Area</td>
</tr>
<tr>
<td>Disturbances &amp; impacts</td>
</tr>
<tr>
<td>Associated species</td>
</tr>
<tr>
<td>Environmental Conditions (e.g. soil conditions, exposure, etc.)</td>
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<table>
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</tr>
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<tbody>
<tr>
<td>Weed genus and species</td>
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<tr>
<td>Weed common name(s)</td>
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<table>
<thead>
<tr>
<th>Weed Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Presence or Absence</td>
</tr>
<tr>
<td>Treatment</td>
</tr>
<tr>
<td>Infested area</td>
</tr>
<tr>
<td>Canopy Cover</td>
</tr>
<tr>
<td>Distribution pattern</td>
</tr>
<tr>
<td>Photo documentation</td>
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<table>
<thead>
<tr>
<th>Weed Location</th>
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<tbody>
<tr>
<td>Geographic location (ID)</td>
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<tr>
<td>Coordinate system</td>
</tr>
<tr>
<td>Datum</td>
</tr>
<tr>
<td>Location data accuracy</td>
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<tr>
<td>Location description</td>
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### General Information

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</thead>
<tbody>
<tr>
<td>Observer name(s)</td>
<td>Ethan Koenigs</td>
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</tbody>
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### Site Information

<table>
<thead>
<tr>
<th>Site or facility name</th>
<th>EID Penstock</th>
</tr>
</thead>
<tbody>
<tr>
<td>Site address or other description</td>
<td>Lower penstock (steep portion)</td>
</tr>
<tr>
<td>Ownership</td>
<td>Water Transport Facility</td>
</tr>
<tr>
<td>Land use type</td>
<td>Forest</td>
</tr>
<tr>
<td>Invaded vegetation type</td>
<td>Forest</td>
</tr>
<tr>
<td>Gross Area</td>
<td>0.25 acres</td>
</tr>
<tr>
<td>Disturbances &amp; impacts</td>
<td>Canal Maintenance Trail Maintenance</td>
</tr>
<tr>
<td>Associated species</td>
<td>Douglas fir, Canyon Live Oak, Deer Brush, Toyon</td>
</tr>
<tr>
<td>Environmental Conditions (e.g. soil conditions, exposure, etc.)</td>
<td>Exposed, northwest-facing slope</td>
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</tbody>
</table>

### Weed Information

#### Weed Identification

<table>
<thead>
<tr>
<th>Weed genus and species</th>
<th>Rubus armeniacus</th>
<th>Verbascum thapsus</th>
<th>Bromus tectorum</th>
<th>Hypericum perforatum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weed common name(s)</td>
<td>Himalayan blackberry</td>
<td>Woolly Mullein</td>
<td>Cheat grass</td>
<td>Klamath weed</td>
</tr>
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#### Weed Description

<table>
<thead>
<tr>
<th>Presence or Absence</th>
<th>Present (all)</th>
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</thead>
<tbody>
<tr>
<td>Treatment</td>
<td>Unknown</td>
</tr>
<tr>
<td>Infested area</td>
<td>2,000 sq. ft.</td>
</tr>
<tr>
<td>Canopy Cover</td>
<td>5-25%</td>
</tr>
<tr>
<td>Appearance</td>
<td>Seeding</td>
</tr>
<tr>
<td>Distribution pattern</td>
<td>Clumpy</td>
</tr>
<tr>
<td>Photo documentation</td>
<td>657/658</td>
</tr>
<tr>
<td>Appearance</td>
<td>Clump of RUAR9 near water tank in lower section of Penstock and scattered clumps of VETH and HYPE. RUAR9 same as 2009; VETH and HYPE increasing; BRTE slight increase.</td>
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### Weed Location

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<td>Coordinate system</td>
<td>Ca. State Plane Zone 2</td>
</tr>
<tr>
<td>Datum</td>
<td>NAD83</td>
</tr>
<tr>
<td>Location data accuracy</td>
<td>&lt; 1m</td>
</tr>
<tr>
<td>Location description</td>
<td>Clump of RUAR9 near water tank in lower section of Penstock and scattered clumps of VETH and HYPE. RUAR9 same as 2009; VETH and HYPE increasing; BRTE slight increase.</td>
</tr>
<tr>
<td>General Information</td>
<td>ID: 46-08</td>
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<tr>
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<tr>
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<td>7/28/2010</td>
</tr>
<tr>
<td>Observer name(s)</td>
<td>Ethan Koenigs</td>
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<table>
<thead>
<tr>
<th>Site Information</th>
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</thead>
<tbody>
<tr>
<td>Site or facility name</td>
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<tr>
<td>Site address or other description</td>
</tr>
<tr>
<td>Ownership</td>
</tr>
<tr>
<td>Land use type</td>
</tr>
<tr>
<td>Invaded vegetation type</td>
</tr>
<tr>
<td>Gross Area</td>
</tr>
<tr>
<td>Disturbances &amp; impacts</td>
</tr>
<tr>
<td>Associated species</td>
</tr>
<tr>
<td>Environmental Conditions (e.g. soil conditions, exposure, etc.)</td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th>Weed Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weed genus and species</td>
</tr>
<tr>
<td>Weed common name(s)</td>
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<table>
<thead>
<tr>
<th>Weed Identification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Presence or Absence</td>
</tr>
<tr>
<td>Treated</td>
</tr>
<tr>
<td>Infested area</td>
</tr>
<tr>
<td>Canopy Cover</td>
</tr>
<tr>
<td>Appearance</td>
</tr>
<tr>
<td>Distribution pattern</td>
</tr>
<tr>
<td>Photo documentation</td>
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<td>Datum</td>
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<td>Location data accuracy</td>
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<td>Location description</td>
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## General Information

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## Site Information

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<td>Lower section, Near Powerhouse</td>
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<tr>
<td>Ownership</td>
<td>Water Transport Facility</td>
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<td>Invaded vegetation type</td>
<td>Forest</td>
</tr>
<tr>
<td>Gross Area</td>
<td>1 acres</td>
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<tr>
<td>Disturbances &amp; impacts</td>
<td>Canal Maintenance Trail Maintenance</td>
</tr>
<tr>
<td>Associated species</td>
<td>Douglas fir, Canyon Live Oak, Deer Brush, Toyon</td>
</tr>
<tr>
<td>Environmental Conditions (e.g. soil conditions, exposure, etc.)</td>
<td>Exposed, northwest-facing slope</td>
</tr>
</tbody>
</table>

## Weed Information

### Weed Identification

- **Rubus armeniacus**: Himalayan blackberry
- **Chondrilla juncea**: Rush Skeletonweed
- **Bromus tectorum**: Cheat grass
- **Verbascum thapsus**: Wooly mullien

### Weed Description

- **Presence or Absence**: Present (all)
- **Treated**: Unknown
- **Infested area**: 5000 sq. ft.
- **Canopy Cover**: 5-25% <1% 1-5% 1-5%
- **Distribution pattern**: Scattered patchy Linear
- **Photo documentation**: 654-656

### Weed Location

- **Geographic location (ID)**: L01-09
- **Coordinate system**: Ca. State Plane Zone 2
- **Datum**: NAD83
- **Location data accuracy**: < 1m
- **Location description**: Trail from Powerhouse up to Penstock; scattered along trail and Penstock approx. 300ft. Update: RUAR9 is still growing back/spreading significantly. VETH is heavy (1-5%).
<table>
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<td>Site or facility name</td>
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<td>Site address or other description</td>
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<tr>
<td>Ownership</td>
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<tr>
<td>Land use type</td>
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<tr>
<td>Invaded vegetation type</td>
</tr>
<tr>
<td>Gross Area</td>
</tr>
<tr>
<td>Disturbances &amp; impacts</td>
</tr>
<tr>
<td>Associated species</td>
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<tr>
<td>Environmental Conditions (e.g. soil conditions, exposure, etc.)</td>
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<tbody>
<tr>
<td><strong>Weed Identification</strong></td>
</tr>
<tr>
<td>Weed genus and species</td>
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<td>Weed common name(s)</td>
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<tr>
<th><strong>Weed Description</strong></th>
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<tbody>
<tr>
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<tr>
<td>Treatment</td>
</tr>
<tr>
<td>Infested area</td>
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<tr>
<td>Canopy Cover</td>
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<tr>
<td>Appearance</td>
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<tr>
<td>Distribution pattern</td>
</tr>
<tr>
<td>Photo documentation</td>
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<tr>
<td>Coordinate system</td>
</tr>
<tr>
<td>Datum</td>
</tr>
<tr>
<td>Location data accuracy</td>
</tr>
<tr>
<td>Location description</td>
</tr>
<tr>
<td>General Information</td>
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</tr>
<tr>
<td>Collection date (mm/dd/yyyy)</td>
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<td>Ownership</td>
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<td>Land use type</td>
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<td>Invaded vegetation type</td>
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<tr>
<td>Disturbances &amp; impacts</td>
</tr>
<tr>
<td>Associated species</td>
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<td>Environmental Conditions (e.g. soil conditions, exposure, etc.)</td>
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<tr>
<td>Weed common name(s)</td>
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<th>Presence</th>
</tr>
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<td></td>
</tr>
<tr>
<td>No</td>
<td></td>
</tr>
</tbody>
</table>

| Infested area | 4000 sq. ft. |
| Canopy Cover | <1% 1-5% 1-5% <1% |
| Flowering | Seeding |
| Clumpy | Linear |

| Distribution pattern | Scattered even |
| Photo documentation | 673/674 |

<table>
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<tbody>
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<td>Datum</td>
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<tr>
<td>Location description</td>
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<tr>
<td>Observer name(s)</td>
<td>Ethan Koenigs</td>
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### Site Information

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<tr>
<th>Site or facility name</th>
<th>Forebay Reservoir</th>
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<tbody>
<tr>
<td>Site address or other description</td>
<td>northeast side of reservoir</td>
</tr>
<tr>
<td>Ownership</td>
<td>Water Storage Facility</td>
</tr>
<tr>
<td>Land use type</td>
<td>Forest</td>
</tr>
<tr>
<td>Invaded vegetation type</td>
<td>Forest</td>
</tr>
<tr>
<td>Gross Area</td>
<td>0.35 acres</td>
</tr>
<tr>
<td>Disturbances &amp; impacts</td>
<td>Other man-made disturbance, Lake fluctuations</td>
</tr>
<tr>
<td>Associated species</td>
<td>Ponderosa Pine, Native Blackberry, Cherry Tree, Alder, Willow</td>
</tr>
<tr>
<td>Environmental Conditions (e.g. soil conditions, exposure, etc.)</td>
<td>Sunny, west facing, in clearing.</td>
</tr>
</tbody>
</table>

### Weed Information

#### Weed Identification

<table>
<thead>
<tr>
<th>Weed genus and species</th>
<th>Rubus discolor, <em>Leucanthemum vulgare</em>, <em>Hypericum perforatum</em></th>
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<tbody>
<tr>
<td>Weed common name(s)</td>
<td>Himalayan Blackberry, Ox-eye Daisy, Klamath weed</td>
</tr>
</tbody>
</table>

#### Presence

<table>
<thead>
<tr>
<th>Presence or Absence</th>
<th>Present (all)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Treated</td>
<td>No</td>
</tr>
<tr>
<td>Infested area</td>
<td>0.3 acres</td>
</tr>
<tr>
<td>Canopy Cover</td>
<td>50-75%</td>
</tr>
<tr>
<td>Appearance</td>
<td>Seeding</td>
</tr>
<tr>
<td>Distribution pattern</td>
<td>Linear</td>
</tr>
<tr>
<td>Photo documentation</td>
<td>675/676</td>
</tr>
</tbody>
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#### Weed Location

<table>
<thead>
<tr>
<th>Geographic location (ID)</th>
<th>L05-09</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coordinate system</td>
<td>Ca. State Plane Zone 2</td>
</tr>
<tr>
<td>Datum</td>
<td>NAD83</td>
</tr>
<tr>
<td>Location data accuracy</td>
<td>&lt; 1m</td>
</tr>
<tr>
<td>Location description</td>
<td>Lake shore, RUAR9 forms a dense band along the shore; approximately 50'. Update: LEVU and HYPE scattered along edge; RUAR9 about same as 2009</td>
</tr>
<tr>
<td><strong>General Information</strong></td>
<td><strong>ID: L06-08</strong></td>
</tr>
<tr>
<td>-------------------------</td>
<td>---------------</td>
</tr>
<tr>
<td>Collection date (mm/dd/yyyy)</td>
<td>7/28/2010</td>
</tr>
<tr>
<td>Observer name(s)</td>
<td>Ethan Koenigs</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Site Information</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Site or facility name</td>
</tr>
<tr>
<td>Site address or other description</td>
</tr>
<tr>
<td>Ownership</td>
</tr>
<tr>
<td>Land use type</td>
</tr>
<tr>
<td>Invaded vegetation type</td>
</tr>
<tr>
<td>Gross Area</td>
</tr>
<tr>
<td>Disturbances &amp; impacts</td>
</tr>
<tr>
<td>Associated species</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Weed Information</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Weed Identification</strong></td>
</tr>
<tr>
<td>Weed genus and species</td>
</tr>
<tr>
<td>Weed common name(s)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Presence</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Presence or Absence</td>
</tr>
<tr>
<td>Treated</td>
</tr>
<tr>
<td>Infested area</td>
</tr>
<tr>
<td>Canopy Cover</td>
</tr>
<tr>
<td>Appearance</td>
</tr>
<tr>
<td>Distribution pattern</td>
</tr>
<tr>
<td>Photo documentation</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Weed Location</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Geographic location (ID)</td>
</tr>
<tr>
<td>Coordinate system</td>
</tr>
<tr>
<td>Datum</td>
</tr>
<tr>
<td>Location data accuracy</td>
</tr>
<tr>
<td>Location description</td>
</tr>
<tr>
<td>General Information</td>
</tr>
<tr>
<td>---------------------</td>
</tr>
<tr>
<td>Collection date (mm/dd/yyyy)</td>
</tr>
<tr>
<td>Observer name(s)</td>
</tr>
</tbody>
</table>

### Site Information

<table>
<thead>
<tr>
<th>Site or facility name</th>
<th>El Dorado Canal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Site address or other description</td>
<td>Short Section just before El Dc</td>
</tr>
<tr>
<td>Ownership</td>
<td>Water Transport Facility</td>
</tr>
<tr>
<td>Invaded vegetation type</td>
<td>Forest</td>
</tr>
<tr>
<td>Gross Area</td>
<td>sq. ft.</td>
</tr>
<tr>
<td>Disturbances &amp; impacts</td>
<td>Canal Maintenance</td>
</tr>
<tr>
<td>Associated species</td>
<td>Ponderosa Pine, Douglas fir, Black Oak, Deer Brush, Big Leaf Maple, other weedy species.</td>
</tr>
<tr>
<td>Environmental Conditions (e.g. soil conditions, exposure, etc.)</td>
<td>North facing slope no tree canopy.</td>
</tr>
</tbody>
</table>

### Weed Information

#### Weed Identification

<table>
<thead>
<tr>
<th>Weed genus and species</th>
<th>Hypericum perforatum</th>
<th>Melilotus alba</th>
<th>Bromus tectorum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weed common name(s)</td>
<td>Klamath Weed</td>
<td>White Sweet Clover</td>
<td>Cheat grass</td>
</tr>
</tbody>
</table>

#### Weed Description

<table>
<thead>
<tr>
<th>Presence or Absence</th>
<th>Present (all)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Treated</td>
<td>Yes</td>
</tr>
<tr>
<td>Infested area</td>
<td>sq. ft.</td>
</tr>
<tr>
<td>Canopy Cover</td>
<td>&lt;1%&lt;1%1-5%</td>
</tr>
<tr>
<td>Appearance</td>
<td>Flowering</td>
</tr>
<tr>
<td>Distribution pattern</td>
<td>Scattered patchy Linear</td>
</tr>
<tr>
<td>Photo documentation</td>
<td>1077</td>
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#### Weed Location

<table>
<thead>
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<th>Geographic location (ID)</th>
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<tbody>
<tr>
<td>Coordinate system</td>
<td>Ca. State Plane Zone 2</td>
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<tr>
<td>Datum</td>
<td>NAD83</td>
</tr>
<tr>
<td>Location data accuracy</td>
<td>&lt; 1m</td>
</tr>
<tr>
<td>Location description</td>
<td>Short section of canal from fence to flume. Update: Good control of SC and CW. About the same as 2009.</td>
</tr>
</tbody>
</table>
APPENDIX D
Eldorado National Forest Noxious Weeds List
**Eldorado National Forest**  
**Noxious Weed List**

**List A.** Highly invasive weed species known or suspected (*) to occur on the Eldorado National Forest

- *Aegilops triuncialis*  
  barbed goatgrass
- *Bromus tectorum*  
  cheat grass
- *Cardus nutans*  
  musk thistle
- *Carduus pycnocephalus*  
  Italian thistle
- *Centaurea maculata*  
  spotted knapweed
- *Centaurea solstitialis*  
  yellow starthistle
- *Cirsium arvense*  
  Canada thistle
- *Chondrilla juncea*  
  rush skeletonweed
- *Cytisus scoparius*  
  Scotch broom
- *Genista monspellantus*  
  French broom
- *Lepidium latifolium*  
  tall whitetop / perennial pepperweed
- *Linaria genistifolia ssp. dalmatica*  
  Dalmation toadflax
- *Lythrum salicaria* (added 12/26/07)  
  purple loosestrife
- *Spartium junceum*  
  Spanish broom
- *Taenatherum caput-medusae*  
  medusahead grass

**List B.** A list of other exotic or noxious weeds that may occur on the Eldorado National Forest that currently are not believed to be as aggressive as those in list A

- *Acroptilon repens (Centaurea repens)*  
  Russian knapweed
- *Ailanthus altissima*  
  Chinese tree of heaven
- *Bromus diandrus*  
  ripgut brome
- *Cardaria chalapense*  
  small (lens podded) whitetop
- *Cardaria draba*  
  heart podded whitetop
- *Centaurea diffusa*  
  diffuse (white) knapweed
- *Centaurea melitonensis*  
  tocalote
- *Cirsium vulgare*  
  bull thistle
- *Conium maculatum*  
  poison hemlock
- *Euphorbia esula*  
  leafy spurge
- *Euphorbia oblongata*  
  oblong spurge
- *Festuca arundinacea*  
  tall fescue
- *Foeniculum vulgare*  
  fennel
- *Hirschfeldia incana* (added 7/03)  
  mustard
- *Hypericum perforatum*  
  Klamathweed
- *Leucanthemum vulgare*  
  ox-eye daisy
- *Lathyrus latifolius*  
  perennial sweet pea
- *Lycopus coronaria*  
  rose campion / mullein pink
- *Melilotus alba*  
  white sweet clover
- *Melilotus officinalis*  
  yellow sweet clover
- *Onopordum acanthium* (added 8/16/04)  
  Scotch thistle
- *Rubus discolor*  
  Himalayan blackberry
- *Salsola tragus*  
  Russian thistle / tumbleweed
- *Silybum marianum* (added 9/25/03)  
  milk thistle
- *Sisymbrium altissimum* (added 12/26/03)  
  Jim Hill or tumble mustard
- *Tamarix chinensis*  
  tamarisk / salt cedar
- *Torilis arvensis* (added 7/2/03)  
  hedge parsley
- *Verbascum thapsus*  
  woolly mullein