

**ANNUAL REPORT TO THE LEGISLATURE
FOR YEAR 2010**

**2011 COASTAL ANADROMOUS FISH PASSAGE
ASSESSMENT AND REMEDIATION
PROGRESS REPORT**

Prepared:

September 2011

**Prepared by the California Department of Transportation
Division of Environmental Analysis**

Progress Report January to December 2010

Purpose and Background

This is the sixth annual report prepared in accordance with Article 3.5 of Chapter 1 of Division 1 of the Streets and Highways Code (Senate Bill 857, Kuehl) that took effect January 1, 2006. This law directs the California Department of Transportation (Caltrans) to prepare an annual report describing the status of Caltrans' progress on locating, assessing, and remediating project related fish passage barriers. SB 857 also directs Caltrans to report its progress on developing a programmatic environmental review process to streamline the permitting process for remediating fish passage barrier projects.

This report updates our remediation progress and describes Caltrans' fish passage activities between January 1 and December 31, 2010. The report format was revised to refocus on individual road-stream crossings (barriers), rather than projects, with one or more crossings. Information related to construction issues that did not involve a pre-existing fish passage barrier was omitted.

Caltrans issued a policy memorandum on July 7, 2006, from Jay Norvell, Chief, Division of Environmental Analysis (DEA), to District Deputy Directors and others. That memorandum set SB 857 related policy, provided a copy of SB 857 and provided fish passage assessment and reporting protocols. DEA maintains intranet web pages containing copies of various policy memoranda and guidance, including a page for fish passage assessment, an annual SB 857 reporting page and a permit streamlining page. These pages provide easy access to policy and guidance for all staff and managers.

The Director at the time, Will Kempton, signed an agreement letter dated May 26, 2009, addressed to Assemblymember Eng, then Chair of the Assembly Transportation Committee, accepting an opportunity to administratively address issues proposed in Assembly Bill 1189 (Skinner 2009).

On May 6, 2010, Richard Land, Chief Engineer, issued a policy memorandum updating program and reporting requirements, plan updates and new reporting schedules. The memorandum formally incorporated the elements of the Kempton/Eng agreement, directed Caltrans districts to update fish passage plans, provided direction for the development of district fish passage remediation priorities and directed districts to name fish passage coordinators.

On December 16, 2010, Richard Land issued a policy memorandum encouraging additional efforts to remediate fish passage barriers.

Changes in Annual Reporting and Approach

The focus of this report shifted from a project focus to a barrier focus. Tables now show one barrier per row sorted by location in the order of county, highway route, and post mile. The California Department of Fish and Game's (DFG) Passage Assessment Database (PAD) identification numbers are included in this report to improve the report's focus on individual barriers. The DFG and the California Fish Passage Forum designed the PAD to house and share fish passage barrier assessment data as part of the CalFish database system. The PAD includes web accessible database searching and mapping features that link specific barriers with web-based mapping via PAD identification (PAD_ID) numbers. The PAD is found on the internet at: <http://www.calfish.org/tabid/83/Default.aspx>.

While common names are provided for projects in the tables, common project names vary between agencies. Caltrans uses project numbers for project identification. The provided PAD_ID numbers are a standard barrier identification that can be used to compare locations across agencies.

Changes in Table Contents

With the change to barrier focus and with the addition of PAD_ID numbers, it was discovered that some "remediations" were included due to fish passage issues during construction rather than due to pre-existing barriers that needed remediation to allow fish passage. Such remediations were removed from the tables with a note in the text preceding the table. Other projects or barrier remediations were removed when funding or permitting issues indefinitely delayed or made the project and the remediation infeasible. Such remediations were also removed from tables with a note in the text preceding the table. Barriers that were remediated in 2010 were moved from the active remediations table (Table 2) to the completed remediations table (Table 1). Changed remediations are identified by their county, route and post mile so that they may be easily found in the tables.

Assessment and Remediation of Fish Passage Barriers

Project-level remediations since January 2006 (16 barriers):

A map of locations listed in Table 1, Completed Salmonid Fish Passage Barrier Remediations Since January 1, 2006, is shown in Figure 1, Completed Salmonid Fish Passage Barrier Remediations Since January 1, 2006. Entries are ordered by District number, county, route and post mile. Three completed remediations were added this year: Mendocino 101, post mile 99.0; Tehama 99, post mile 15.6; and Napa 121, post mile 1.0, and are indicated in bold type in the table below. The Sierra/Yuba 49 post miles 4.0-9.4 location was removed because the crossing had no barrier prior to or after construction, only temporary fish passage issues during construction.

Active Remediations Summary (25 barriers):

A map of locations listed in Table 2, Fish Passage Barriers Under Remediation, is shown in Figure 2, Fish Passage Barriers Under Remediation. Table 2 shows one barrier per row rather than one project per row.

Three barriers were remediated (Napa 121, post mile 1.0; Tehama 99 post mile 14.0; and Napa 121 post mile 1.0) and moved to Table 1, and are indicated in bold. Nine new entries were added to this table: Mendocino 1 post mile 92.83 barrier, the "264 Culverts" project contained five separate fish passage barrier remediations, the Trinity 299 project contained two fish passage barrier remediation entries, and three barriers were added for Santa Barbara 101 post miles 5.6, 9.4, and 9.6.

One remediation was part of a project that had funding cancelled (Mendocino 101 post mile 14.4) and one project became inactive due to funding and permitting issues (Santa Barbara 101 post mile 55.0). Both were removed from the table.

As Table 2 was converted from a project focused table to a barrier focused table with PAD_ID numbers, it was discovered that a number of projects were included due to temporary fish passage issues related to construction activities, but had no pre-existing fish passage barriers. Because no barrier remediation was possible, they were removed. The 10 removed barriers include

| Table 1. Completed Salmonid Fish Passage Barrier Remediations Since January 1, 2006 | | | | | | | |
|---|----------|---------------|-------|-----------|---------------------|--------------------|---|
| Map # | District | County | Route | Post Mile | PAD_ID # | Stream Name | Project Name ¹ |
| 1 | 1 | Del Norte | 101 | 4.04 | 737008 | Unnamed Tributary | Tributary to Elk Creek |
| 2 | 1 | Del Norte | 101 | 43.7 | 715563 | Lopez Creek | Smith River Widening |
| 3 | 1 | Humboldt | 101 | 40.7 | 722447 | Chadd Creek | Chadd Creek |
| 4 | 1 | Humboldt | 101 | 115.3 | 737005 | Unnamed Tributary | Stone Lagoon |
| 5 | 1 | Mendocino | 101 | 81.4 | 706986 | Rattlesnake Creek | Rattlesnake Creek |
| 6 | 1 | Mendocino | 101 | 99 | 707115 ² | Red Mountain Creek | Confusion Hill Mitigation |
| 7 | 2 | Shasta | 299 | 20.7 | 737289 | Salt Creek | Salt Creek Fish Passage Improvement Project |
| 8 | 2 | Tehama | 5 | 16.9 | 737006 | Elder Creek | Elder and Dibble Creek Scour Mitigation Improvement |
| 9 | 2 | Tehama | 5 | 28.1 | 737007 | Dibble Creek | Elder and Dibble Creek Scour Mitigation |
| 10 | 2 | Tehama | 99 | 15.6 | 737013 | Sunset Canal | Sunset Canal Bridge |
| 11 | 4 | Napa | 121 | 1 | 714975 | Hnichica Creek | Duhig Road Realign Curves and Widen Shoulder |
| 12 | 5 | Santa Barbara | 101 | 33.9 | 706642 | El Capitan Creek | El Capitan Creek |
| 13 | 5 | Santa Barbara | 101 | 41 | 707405 | Arroyo Hondo Creek | Arroyo Hondo |
| 14 | 5 | Santa Barbara | 101 | 47.2 | 706669 | Gaviota Creek | Gaviota Creek |
| 15 | 5 | Santa Cruz | 1 | 10 | 706703 | Valencia Creek | Valencia Creek; Tributary to Aptos Creek |
| 16 | 5 | Santa Cruz | 1 | 17.4 | 735367 | Branciforte Creek | Branciforte Creek and Carbonera Creek |

¹ "Project Name" is provided for convenience here. PAD ID numbers provide a universal reference number that allows specific barrier identification across agencies and partners. Where PAD ID shows "N/A", a PAD ID was not available. PAD ID is a number used to identify assessments entered into the DFG CALFISH Passage Assessment Database (PAD). ² Remediations completed in 2010 are shown in bold text.

Alameda 84 post miles 12.1-13.3, Marin 1 post mile 22.7, Mendocino 1 post mile 62.5, Mendocino 101 post miles 8.0-17.8, Mendocino 101 post miles 14.0-14.8, Tehama 36 post mile 91.46, Tehama 99 post miles 13.9-14.3, Santa Barbara 101 post mile 2.2, Santa Barbara 101 post mile 55, Santa Clara/San Benito 101 post mile 5.0-0.0-4.9, Santa Cruz 1 post mile 31.55, and Santa Cruz 1 post mile 36.3.

Table 2. Fish Passage Barriers Under Remediation.

| Map # | District | County | Route | Post Mile | Date ¹ | PAD_ID | Stream Name | Project Name ¹ |
|-------|----------|---------------|-------|-----------|-------------------|--------|---------------------------|------------------------------------|
| 1 | 1 | Mendocino | 1 | 92.83 | CCA 1/1/2014 | 706958 | Dunn Creek | Dunn Creek Fish Passage |
| 2 | 1 | Mendocino | 101 | 52.3 | CCA 10/1/2014 | 707085 | Ryan Creek | Encroachment Permit and FRGP Grant |
| 3 | 1 | Mendocino | 101 | 66.5 | CCA 11/1/2012 | 707096 | Ten Mile Creek | 36 Culverts |
| 4 | 1 | Mendocino | 128 | 21.8 | CCA 11/1/2012 | 707199 | Clow Creek | 264 Culverts |
| 5 | 1 | Mendocino | 128 | 27.54 | CCA 7/3/2014 | 707205 | Graveyard Creek | 264 Culverts |
| 6 | 1 | Mendocino | 128 | 36.63 | CCA 7/3/2011 | 707208 | Lost Creek | 264 Culverts |
| 7 | 1 | Mendocino | 128 | 39.88 | DNS | 707210 | Beebe Creek | Beebe Storm Damage |
| 8 | 1 | Mendocino | 128 | 39.88 | CCA 7/3/2014 | 707210 | Beebe Creek | 264 Culverts |
| 9 | 1 | Mendocino | 128 | 49.66 | CCA 3/17/2012 | 707220 | Edwards Creek | 264 Culverts |
| 10 | 2 | Shasta | 299 | 32.25 | CCA 7/14/2014 | 737295 | Lemm Creek (Yank Creek) | Bella Diddy Roadway Rehab. |
| 11 | 2 | Siskiyou | 96 | 65.4 | DNS | 707147 | O'Neil Creek | O'Neil Creek Culvert Removal |
| 12 | 2 | Trinity | 299 | 68 | CCA 10/12/2012 | 720511 | Little Grass Valley Creek | Trinity Dam Boulevard, Fish Ladder |
| 13 | 2 | Trinity | 299 | 68.2 | CCA 10/14/2012 | 735688 | Little Grass Valley Creek | Trinity Dam Boulevard, Fish Ladder |
| 14 | 4 | Sonoma | 1 | 15.1 | CCA 12/1/2013 | 733223 | Scotty Creek | Gleason Beach |
| 15 | 4 | Sonoma | 1 | 32.4 | CCA 12/1/2014 | 723192 | Fort Ross Creek | Fort Ross Creek |
| 16 | 5 | Santa Barbara | 1 | 15.6 | CCA 4/1/2014 | 700085 | Salspuedes Creek | Salspuedes Creek |
| 17 | 5 | Santa Barbara | 101 | 0 | CCA 9/1/2014 | 707368 | Rincon Creek | Rincon Creek |
| 18 | 5 | Santa Barbara | 101 | 5.6 | DNS | 734310 | Arroyo Parida Creek | South Coast HOV |
| 19 | 5 | Santa Barbara | 101 | 9.4 | DNS | 705161 | Romero Creek | South Coast HOV |

| Map # | District | County | Route | Post Mile | Date ¹ | PAD_ID | Stream Name | Project Name ² |
|-------|----------|---------------|-------|-----------|-------------------|--------|---------------------|---------------------------|
| 20 | 5 | Santa Barbara | 101 | 9.6 | DNS | 734342 | San Ysidro Creek | South Coast HOV |
| 21 | 5 | Santa Barbara | 192 | 15.5 | CCA 6/1/2013 | 706239 | Arroyo Parida Creek | Arroyo Parida Creek |
| 22 | 7 | Los Angeles | 1 | 50.3 | DNS | 705781 | Solstice Creek | Solstice Creek |
| 23 | 7 | Ventura | 150 | 28.7 | CCA 8/1/2012 | 723744 | Santa Paula Creek | Santa Paula Creek |
| 24 | 12 | Orange | 5 | 0.0 | CCA 5/1/2018 | 713839 | San Mateo Creek | San Mateo Creek |
| 25 | 12 | Orange | 5 | 11.3 | CalTrout Lead | 706807 | Trabuco Creek | Trabuco Creek |

Changes from 2010 data are indicated in bold text. ¹Entries provide estimated construction completion dates. Dates are estimated when available pending funding, permitting, and regulatory negotiations. CCA means "Construction Contract Completion." DNS means "Date Not Scheduled." ²"Project Name" is provided for convenience here. PAD_ID numbers provide a universal reference number that allows barrier identification across agencies and partners. Where PAD_ID shows "N/A", a PAD_ID number was not available. PAD_ID is a number used to identify assessments entered into the DFG CALFISH Passage Assessment Database (PAD).

Project-Level Fish Passage Assessments (4 assessments)

A map of locations for items, in Figure 3, 2010 Fish Passage Assessments, are shown in Table 3, 2010 Fish Passage Assessments. Note that this table shows one barrier per row rather than one project per row.

Caltrans' District 4 (San Francisco Bay) completed four fish passage assessments in 2009 that indicated potential barrier issues.

| Map # | Report Date | County | Route | Post Mile | PAD ID ¹ | Stream | Tributary to: | Project Name ² |
|-------|-------------|--------|-------|-----------|---------------------|--------------------|-----------------|----------------------------|
| 1 | 9/1/2010 | Solano | 80 | 12.9 | N/A | Green Valley Creek | Cordelia Slough | I-80/680/SR 12 Interchange |
| 2 | 9/1/2010 | Solano | 12 | 3.4 | N/A | Ledgewood Creek | Peytonia Slough | I-80/680/SR 12 Interchange |
| 3 | 9/1/2010 | Solano | 80 | 14.5 | N/A | Saison Creek | Grizzly Bay | I-80/680/SR 12 Interchange |
| 4 | 11/24/2010 | Sonoma | 1 | 15.3 | 733223 | Scotty Creek | Pacific Ocean | Gleason Beach |

¹PAD_ID numbers provided a universal reference number that allows specific barrier identification across agencies and partners. Where PAD_ID shows "N/A", a PAD_ID number was not available. PAD_ID is a number used to identify assessments entered into the DFG CALFISH Passage Assessment Database (PAD). ²"Project Name" is provided for convenience.

Planning-level assessments

Grant-funded work

No planning grant funds were available for 2010.

Annual Barrier Priorities

Priority List (24 crossings)

A map of locations for items, in Table 4, Transportation-Related Fish Passage Barrier Remediation, are shown in Figure 4, Transportation-Related Fish Passage Barrier Remediation. Note that this table shows one barrier per row rather than one project per row.

Table 4 contains road-stream crossing barriers that currently have high priority for remediation. All listed crossings have equal priority at this time; however, Caltrans and DFG continue working towards a combined transportation-related fish passage remediation priority list. Caltrans and DFG are working with the Fish Passage Forum to develop a statewide, technical, biological, fish passage barrier priority ranking system.

| Map link | District | PAD ID | County | Route | Post Mile | Site Name ¹ | Stream Name | Tributary to |
|----------|----------|--------|-----------|-------|-----------|---|---------------------------|----------------------------------|
| A | 1 | 707143 | Del Norte | 197 | 5.0 | Sultan Creek | Sultan Creek | Smith River |
| B | 1 | 707157 | Humboldt | 254 | 4.18 | Fish Creek Avenue of the Giants | Fish Creek | S. Fork Eel River |
| C | 1 | 705136 | Mendocino | 101 | 48.14 | Upp Creek | Upp Creek | Mill Creek |
| D | 1 | 707085 | Mendocino | 101 | 52.25 | S. Fork Ryan Creek | Ryan Creek | Outlet Creek |
| E | 3 | 36070 | Shasta | 299 | 32.2 | Yank Creek (Lemon Creek Bridge) | Yank Creek | Cow Creek/Sacramento River |
| F | 2 | 707147 | Siskiyou | 96 | 65.0 | O'Neil Creek | O'Neil Creek | Klamath River |
| G | 2 | 737007 | Tahama | 5 | 28.1 | Dibble Creek | Dibble Creek | Sacramento River |
| H | 2 | 720511 | Trinity | 299 | 68 | Little Grass Valley Creek | Little Grass Valley Creek | Grass Valley Creek/Trinity River |
| I | 2 | 733688 | Trinity | 299 | 68.2 | Little Grass Valley Creek | Little Grass Valley Creek | Grass Valley Creek/Trinity River |
| J | 3 | 58718 | El Dorado | 89 | 13.3 | Water Quality Improvement Project Camp Richardson | Tallac Creek | Lake Tahoe |
| K | 3 | 58968 | Butte | 99 | 45.5 | Pine Creek | Pine Creek | Sacramento River |
| L | 3 | 58967 | Butte | 99 | 40.5 | Rock Creek | Rock Creek | Sacramento River |
| M | 4 | 737369 | Napa | 121 | 6.4 | Tulocay Creek Bridge Replacement | Tulocay Creek | Napa River |

Table 4. 2011 Priority Transportation-Related Fish Passage Barrier Remediation(continued).

| Map link | District | PAD ID | County | Route | Post Mile | Site Name ¹ | Stream Name | Tributary to: |
|----------|----------|--------|---------------|-------|-----------|--------------------------------|-------------------|--------------------|
| N | 4 | N/A | Napa | 121 | 9.3 | Sarco Creek Bridge Replacement | Sarco Creek | Miliken Creek |
| O | 4 | 733223 | Sonoma | 1 | 15.3 | Gleason Beach | Scotty Creek | Pacific Ocean |
| P | 4 | 723192 | Sonoma | 1 | 32.5 | Culvert Replacement Project | Fort Ross Creek | Pacific Ocean |
| Q | 5 | 700085 | Santa Barbara | 1 | 15.61 | Salsipuedes Creek | Salsipuedes Creek | Santa Ynez River |
| R | 5 | 707182 | Santa Barbara | 101 | 2.2 | Carpinteria Creek | Carpinteria Creek | Pacific Ocean |
| S | 5 | 706239 | Santa Barbara | 192 | 15.5 | Arroyo Parida | Arroyo Parida | Pacific Ocean |
| T | 7 | 705781 | Los Angeles | 1 | 50.3 | Solstice Creek | Solstice Creek | Pacific Ocean |
| U | 7 | 707368 | Ventura | 101 | R43.6 | Rincon Creek Bridge | Rincon Creek | Pacific Ocean |
| V | 7 | 723744 | Ventura | 150 | 28.7 | Santa Paula Creek | Santa Paula Creek | Santa Clara River |
| W | 11 | 735076 | San Diego | 76 | 45.5 | Wigham Creek | Wigham Creek | San Luis Rey River |
| X | 11 | 712680 | San Diego | 76 | 29.46 | SR-76 Pauma Creek | Pauma Creek | San Luis Rey River |

¹ "Project Name" is provided for convenience here. PAD ID numbers provide a universal reference number that allows specific barrier identification across agencies and partners. Where PAD ID shows "N/A", a PAD ID was not available. PAD ID is a number used to identify assessments entered into the DFG CALFISH Passage Assessment Database (PAD).

Programmatic Environmental Review Process

Caltrans continues working with DFG, the National Oceanic and Atmospheric Administration (NOAA) National Marine Fisheries Service (NMFS), and the U.S. Fish and Wildlife Service (USFWS) to negotiate streamlined environmental review and permitting procedures to improve fish passage remediation for coastal drainages from the Oregon border to Santa Cruz County. The agencies met to develop programmatic environmental authorizations for routine maintenance or for small projects that improve or provide fish passage. Routine maintenance includes culvert repair, culvert cleaning, and vegetation management. Small projects that typically include fish passage remediation efforts include culvert installation, weir and baffle installation, and small bridge construction.

The agreement requires consultation on approximately 58 plant species and 33 fish and wildlife species that may be affected by Caltrans' activities. Federal agencies prepared biological assessments to provide supporting documentation for their proposed actions. Programmatic biological assessments have been prepared and submitted to NOAA Fisheries and the USFWS. Caltrans and DFG are considering developing a programmatic Incidental Take Permit for multiple state-listed species for unspecified locations within the scope of this agreement. Caltrans has completed administrative drafts of a Draft Programmatic EIR and a draft Programmatic Incidental Take Permit Application and is in process of submitting them to DFG for review.

Figures:

Figure 1. Completed Fish Passage Barrier Remediations Since January 1, 2006.

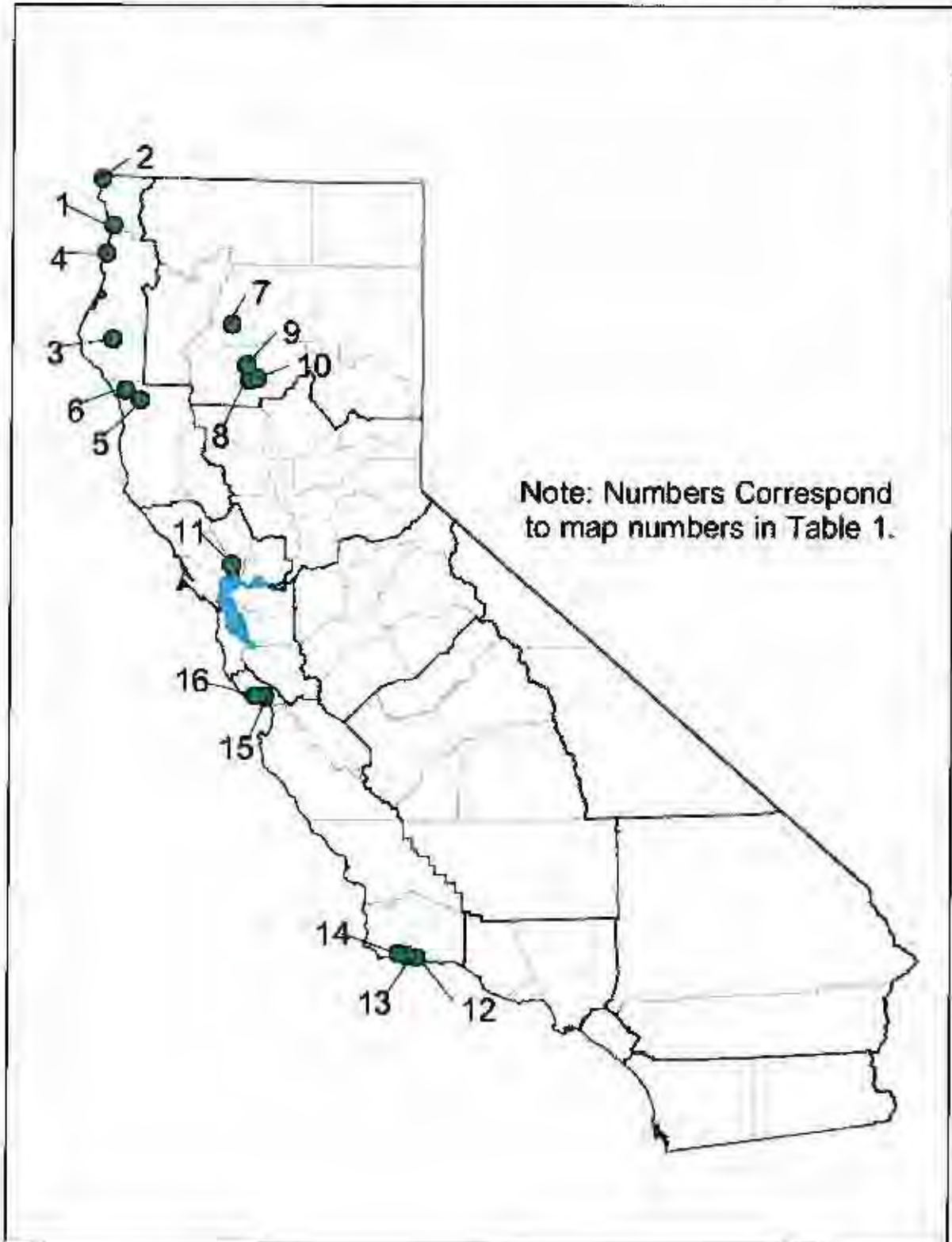


Figure 2. Fish Passage Barriers Under Remediation in 2010.

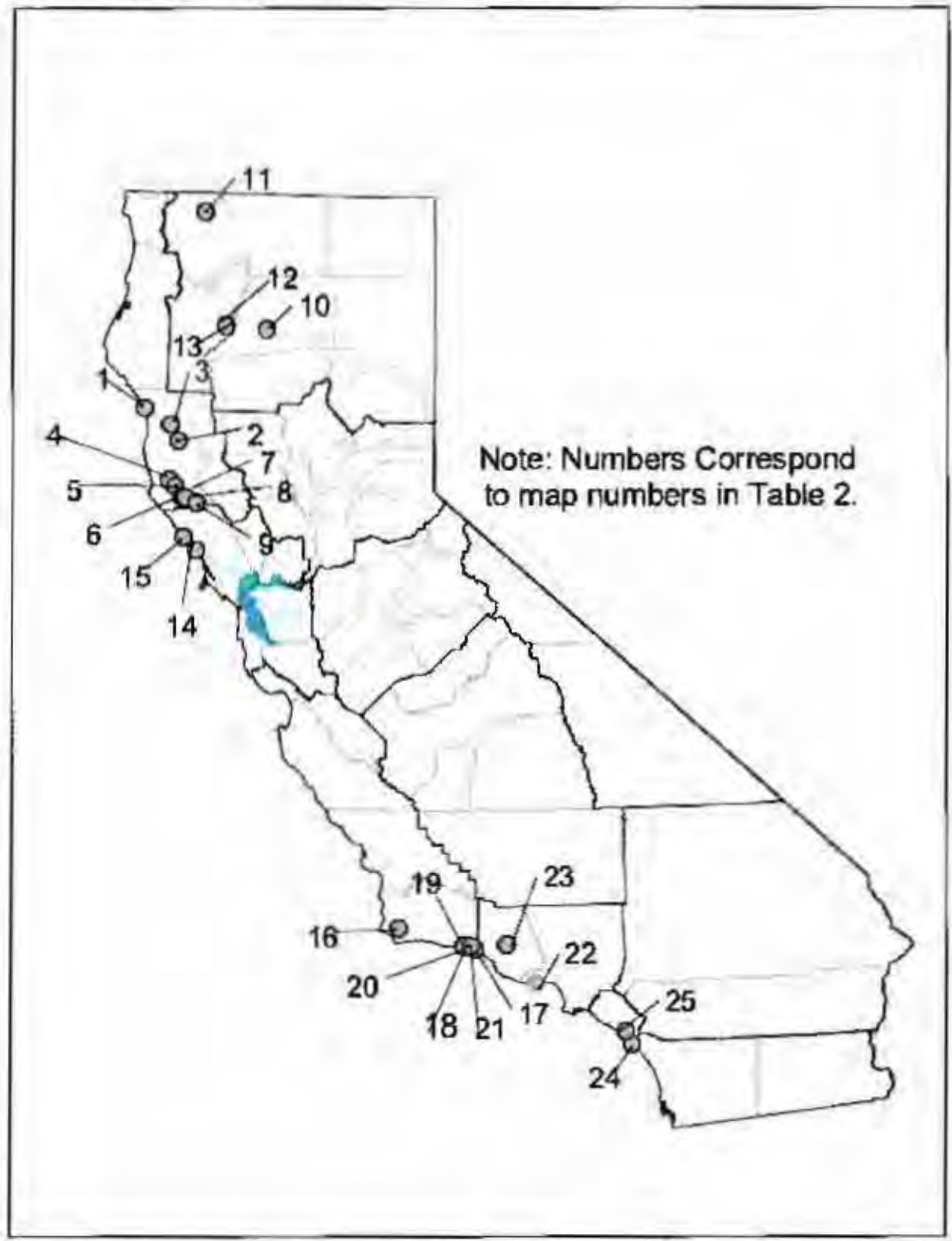


Figure 3. 2010 Caltrans Fish Passage Assessments.



Figure 4. 2011 Transportation-Related Fish Passage Barrier Remediation Priorities.

