

# 2023 Fish Passage Annual Legislative Report



Report to the Legislature

October 2024

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## Table of Contents

Executive Summary .....	3
2023 Fish Passage Program Accomplishments.....	3
Background .....	4
2023 Fish Passage Barrier Remediation Progress .....	4
Science and Data.....	4
Engineering .....	6
Training .....	7
Permitting .....	7
Partnerships.....	8
Funding.....	8
Multi-Species and Habitat Benefits.....	9
Research .....	10
2023 Completed Fish Passage Remediation Locations .....	11
2023 Completed Fish Passage Assessment Locations.....	14
2023 New Identified Fish Passage Barrier Locations .....	15
2023 Active Fish Passage Remediation Locations .....	18
2023 Planned Funding - Priority Fish Passage Remediation .....	25
2023 Priority Fish Passage Locations Requiring Funding .....	33
Appendix A. Fish Passage Locations Completed.....	43
Appendix B. Statutory Reporting Reference .....	54
Appendix C. 2023 Active Fish Passage Remediation Locations Funding .....	55

## List of Tables

Table 1 (Maps 1-2). 2023 Completed Fish Passage Remediation Locations .....	11
Table 2. 2023 Completed Fish Passage Assessment Locations. ....	14
Table 3. 2023 New Identified Fish Passage Barriers. ....	15
Table 4. 2023 Active Fish Passage Remediation Locations. ....	18
Table 5. 2023 Planned Funding for Priority Fish Passage Remediation .....	25
Table 6. 2023 Priority Fish Passage Locations Requiring Funding.....	33
Table 7. Fish Passage Locations Completed.....	43

## List of Figures

Figure 1. History of Assessments on the State Highway System (2008-2023) .....	5
Figure 2. 2023 Completed Fish Passage Remediation Locations.....	13
Figure 3. 2023 New Identified Fish Passage Barrier Locations.....	17
Figure 4. 2023 Active Fish Passage Remediation Locations. ....	24
Figure 5. 2023 Planned Funding Priority Fish Passage Remediations .....	32
Figure 6. 2023 Priority Fish Passage Locations Requiring Funding.....	42
Figure 7. Fish Passage Locations Completed.....	53

## **Executive Summary**

Streets and Highways Code, Section 156.1 requires the California Department of Transportation (Caltrans) to report annually on the status of the department's progress in locating, assessing, and remediating barriers to fish passage. This report covers progress from January 1, 2023, to December 31, 2023, and includes updated status on fish passage barrier assessments, active project and planned remediation projects, priority fish passage barriers, and completed fish passage remediations on the State Highway System.

### **2023 Fish Passage Program Accomplishments**

In 2023, Caltrans completed fish passage remediation projects at two previously identified barrier locations, improving access to an estimated 5.25 miles of salmon and steelhead habitat.

Caltrans is currently developing projects to remediate 37 active (funded) fish passage barrier locations, estimated to improve habitat access to 144.93 miles of currently blocked, high-quality salmon and steelhead habitat.

Fish Passage Advisory Committees have identified 111 barrier locations for priority remediation which are currently barriers to an estimated 897.49 miles of high-quality salmon and steelhead habitat. Planning analysis have identified aligned transportation funding for 34 of the 111 priority locations, which are currently in the pre-project planning process. Currently there are 77 unfunded priority fish passage barriers for remediation that are currently being evaluated for aligned funding opportunities.

In 2023, 573 first pass (reconnaissance) and second pass (detailed) fish passage assessments were completed at road/stream crossings throughout the state. Of those assessments, the following was identified: 47 new barriers, 327 non-barriers, and 199 locations are potential barriers that need additional surveys to determine habitat suitability and barrier status.

Since the enactment of Senate Bill 857 (Kuehl, Chapter 589, Statutes of 2005), Caltrans has remediated a total of 66 barrier locations. Those 66 locations account for an estimated 924.37 miles of improved access to salmon and steelhead habitat. This includes 21 full span, long term remediation solutions, which allow full access to an estimated 359.01 miles of habitat, and 45 partial/hydraulic fish passage remediation locations, which have improved access to an estimated 565.36 miles of habitat. See Appendix A. Fish Passage Locations Completed, for additional information.

Caltrans continues to provide management oversight, meeting facilitation, mapping, science and data, engineering support, and coordination for the six Fish Passage Advisory Committees, the Interagency Engineering Working Group, the Leadership Action Team, and the Science and Innovation Team. Caltrans and Fish Passage Advisory Committee partners continue to develop and implement tools and efficiencies that are further described in this report.

## Background

Streets and Highways Code, Section 156.1 (see Appendix B. Statutory Reporting Reference) requires Caltrans to prepare an annual report to the Legislature describing the status of progress in assessing fish barriers, funding priority barriers, and remediating priority barriers. The bill also requires Caltrans to do the following:

- Complete assessments for potential barriers to anadromous fish prior to commencing any project using state or federal transportation funds;
- Provide a status on active remediation locations; and
- Construct new projects so that they neither pose nor create a barrier to fish passage.

## 2023 Fish Passage Barrier Remediation Progress

Due to complex considerations associated with planning, project delivery, and implementation of successful fish passage barrier remediation projects on the State Highway System, a comprehensive approach focused on science and data, engineering, training, permitting, research, funding, multi-species and habitat benefits, and partnerships has been needed. Caltrans has improved fish passage coordination and partnering across California through the implementation and development of the Fish Passage Advisory Committees, which include staff from Caltrans, the California Department of Fish and Wildlife, the National Marine Fisheries Service, as well other state, federal, and local partners. The Interagency Fish Passage Engineering Working Group, the Fish Passage Leadership Action Team, and the Science and Innovation Team continue to collaborate toward improved education and application of successful fish passage remediation throughout California.

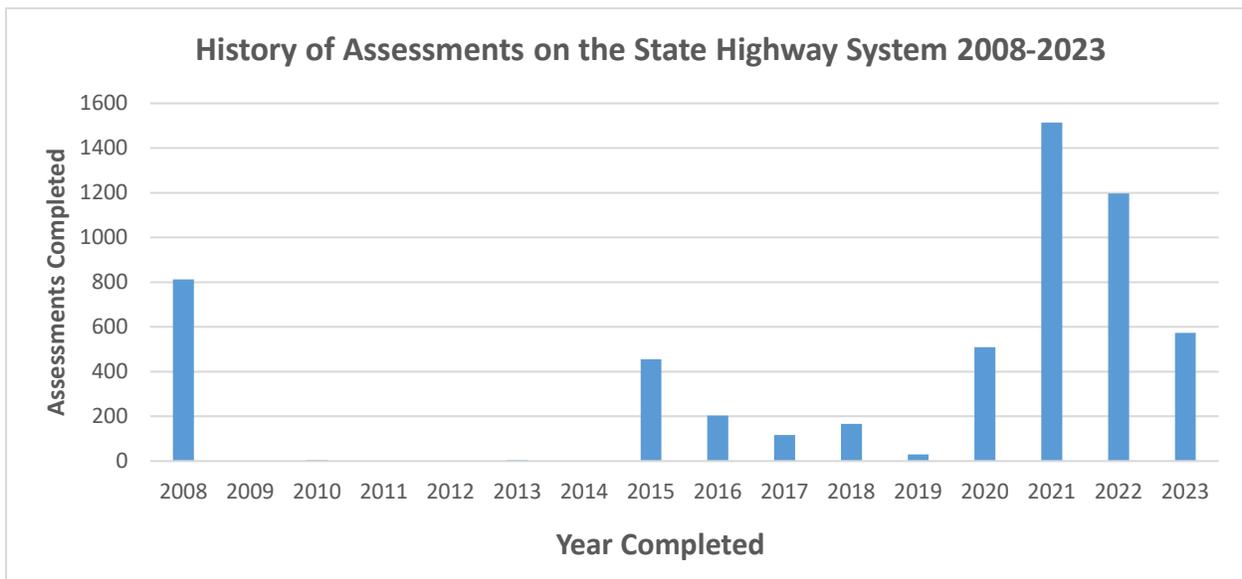
## Science and Data

In 2023, Caltrans, the California Conservation Corps, and the Pacific States Marine Fisheries Commission, made progress in statewide fish passage barrier assessment work by completing 573 fish passage barrier assessments statewide. New science and data have been updated in the California Department of Fish and Wildlife's Passage Assessment Database, made available to the Fish Passage Advisory Committee, as well as all other statewide fish passage partners to advance the understanding of fish passage barriers throughout California.

Due to delays for implementation of a new assessment contract between Caltrans and the California Conservation Corps, there was a gap, during which the California Conservation Corps were unable to perform fish passage assessment work on behalf of Caltrans. Once the new contract was finalized in October of 2023, Caltrans and the California Conservation Corps immediately collaborated to develop and train new Corps-member teams, centered in Camarillo, Redding, San Luis Obispo, Stockton, Sacramento, Chico, and Ukiah,

Fish passage assessment teams continue to utilize innovative software, field tablet devices, and geospatial technology for data collection, quality control, and requisite information sharing. This technology efficiently conveys assigned assessments and empowers teams to collect high-quality data and photographs statewide. By using this technology Caltrans has increased the rate of barrier assessments by over 300% and efficiently submits data directly to Caltrans and the Passage Assessment Database. Furthermore, the technology requires a fraction of the time of conventional data verification and input methods, significantly reducing the time and labor for database managers to integrate data into the Passage Assessment Database and information sharing with the Fish Passage Advisory Committees.

From January 1 to December 31, 2023, 263 first pass (reconnaissance) assessments were completed by the California Conservation Corps-member teams, and 310 habitat and second pass (detailed) assessments were completed by professional biologists at the Pacific States Marine Fisheries Commission, for a total of 573 completed assessments (see Figure 1. History of Assessments on the State Highway System (2008-2023), below).



**Figure 1. History of Assessments on the State Highway System (2008-2023)**

Due to the growing number of Corpsmember identified second pass assessment needs, in 2023, Caltrans and the Pacific States Marine Fisheries Commission collaborated to create a second professional biologist team to conduct next step, habitat and detailed assessment work. The new professional biologist assessment teams are based out of Eureka, and Marysville. As of May 2023, three teams of Pacific States Marine Fisheries Commission professional biologists have been working full-time to perform habitat and detailed (second pass) assessments throughout California.

Over the last five years, the Caltrans Fish Passage Program has leveraged the latest in geospatial software and field data collection hardware to streamline the assessment of road/stream crossings for fish passage barriers on the State Highway System. These

technologies include comprehensive workforce management software (ArcGIS Workforce), digital data recording (ArcGIS Survey123), and sophisticated data management (ArcGIS Online), which are customized to meet Caltrans' program needs. The combination of software and hardware has provided an estimated 80% reduction in person-hours over previous analog workflows. This process allows for real time verification of all data collected and management from several simultaneous data pipelines collected by partners at the California Conservation Corps, Pacific State Marine Fisheries Commission, and the Caltrans District Fish Passage Coordinators.

This technology allows for instantaneous query and visualization of assessment needs and work progress and is essential to the ongoing assessment work for Caltrans' Fish Passage Programs goal of a fully vetted fish passage barrier inventory across the entire State Highway System.

The Fish Passage Advisory Committee Science and Innovation Team has been working collaboratively since May 2020 to advance innovation in the collection and sharing of fish passage barrier and habitat data. This has been accomplished by developing innovative approaches to conduct State Highway System assessments and data collection using innovative software and device technologies, developing products and protocols to support the Fish Passage Advisory Committee story maps, multi-species camera project, and to convey technical information for Caltrans and Fish Passage Advisory Committee barrier assessment and prioritization goals.

The Science and Innovation Team continues to lead California in fish barrier and habitat assessment data collection and improvements to the Passage Assessment Database. These efficiencies in data exchange have rapidly improved the State Highway System inventory of barriers and provides vital data for the prioritization and remediation of fish passage barriers.

## Engineering

The Interagency Engineering Work Group (Working Group) includes members from Caltrans, the California Department of Fish and Wildlife, and the National Marine Fisheries Service. The Working Group convenes monthly to collaborate on training, guidance, research, project-specific design considerations, planning, and information sharing. Member expertise includes fish passage engineering design, hydraulic engineering, structures design and foundations engineering, watershed modeling, maintenance inspection, and multi-agency design guidance for fish passage remediation and channel restoration.

The Working Group research panel have led and contributed to the Fish Passage Engineering Efficacy research completed by Cal Poly Humboldt and continue to work on research recommendation implementation.

Additionally, the Working Group helps to educate all fish passage practitioners on short and long-term engineering solutions, costs and benefits of long-term full span solutions

that do not require continuous, intensive maintenance, which is particularly important for priority barriers and the recovery of threatened and endangered salmon and steelhead habitat.

## Training

Fish Passage Advisory Committees continue to provide high-quality training related to biological science and data collection, fish passage engineering, project case studies, and other content related to successful project delivery, funding, and monitoring for species success. Webinar training events have offered educational opportunities for more than 200 Fish Passage Advisory Committee members and other fish passage partners in California and beyond. The training events are recorded and then immediately posted on the [Fish Passage Advisory Committee Training Webpage](#).

Fish Passage Advisory Committees typically meet virtually and in-person several times annually. In 2023, Cal Poly Humboldt presented the final research and the emerging science of 6PPD-quinone was presented to Caltrans and the Fish Passage Advisory Committees.

## Permitting

Caltrans continues to work with state and federal permitting partners to develop programmatic fish passage environmental reviews to streamline permitting for fish passage barrier remediation. A new programmatic biological assessment and opinion are underway with the National Marine Fisheries Service to provide additional efficiencies to federal endangered species consultations under Section 7 of the Endangered Species Act. Caltrans continues to work with the California Department of Fish and Wildlife to finalize additional restoration permitting efficiencies through their [Cutting the Green Tape Program](#).

Caltrans continues to implement pre-designed Accelerated Bridge Construction precast bridge solutions for fish passage remediation, as well as collaboratively working with the California Department of Fish and Wildlife, the National Marine Fisheries Service, and the Fish Passage Advisory Committees on engineering design solutions and environmental analysis to inform expedited full-span fish passage pre-design and programmatic permitting efficiencies.

Fish and wildlife connectivity projects are restoration and environmental enhancement projects. Full span fish passage remediation projects benefit aquatic and terrestrial migration to high quality habitat areas and improve stream process and function. Caltrans continues to fund, develop, and implement, full-span fish passage remediation projects as maintenance and replacement opportunities are identified, prior to the anticipated service life of the road/stream barrier, proactively with the purpose and need to expedite barrier remediation efforts.

## Partnerships

The Fish Passage Advisory Committees include more than 200 member partners representing all aspects of fish passage remediation, including barrier assessments, prioritization, training, engineering, planning, and proactive funding evaluation.

In 2023, all Fish Passage Advisory Committees engaged in an updated prioritization effort where all known barriers were evaluated by Fish Passage Advisory Committee members to identify and nominate barriers to important watersheds based on species diversity, quality and quantity of habitat, and other professional knowledge. All statewide Fish Passage Advisory Committees were successful in developing new ranked future priority lists that will backfill current priorities as they are funded and allocated for remediation projects.

As part of the nomination, evaluation, and ranking process, additional science and data is collected for barrier locations. New barrier nomination forms and prioritization fact sheets were developed to efficiently nominate barriers for ranking and to guide and facilitate members throughout the ranking process. Coordination between Caltrans' fish passage program and the Fish Passage Advisory Committee partnerships is essential to achieving a fully vetted fish passage priority inventory, improving funding outcomes for State Highway System funding, and in partnership support of competitive grant funding opportunities.

The Fish Passage Advisory Committee Leadership Action Team currently has eight member managers from Caltrans, the California Department of Fish and Wildlife, the National Marine Fisheries Service, and one non-governmental partner, who all provide guidance to the Fish Passage Advisory Committees. Selection to the Leadership Action Team is based on demonstrated commitment to the goals of the six Fish Passage Advisory Committees as well as expertise, accountability, communication, problem-solving skills, and the ability to be a team player and motivate others.

## Funding

The State Highway System Management Plan is a performance driven and integrated plan for California's State Highway System. The plan integrates rehabilitation, maintenance, and operations into a single 10-year management strategy, which is updated biennially.

Fish passage barrier remediation was introduced as a new performance objective in the 2021 State Highway System Management Plan, was updated for inclusion in the 2023 State Highway System Management Plan and is in the process of being updated for inclusion in the 2025 State Highway Management Plan. This goal is managed and tracked to align fish passage priorities with State Highway System needs, investments, and resulting performance objectives. Currently 34 of 111 priority fish passage barriers are in the planning stages of fish passage barrier remediation project work. (See Table 5. 2023 Planned Funding for Priority Fish Passage Remediation). The 31 planned priority

locations will be allocated for funding once the scope, schedule, and costs have been determined for project delivery.

Of the 34 priority fish passage locations with planned funding, preliminary estimates have identified 23 priority remediation locations will deploy the pre-design Accelerated Bridge Construction bridge solutions. Eleven locations are scoped for channel restoration using Stream Simulation Design or long-term hydraulic solutions and one location is a complex interchange and the proposed design solution is currently being evaluated. Every two years, Caltrans updates the State Highway System Management Plan five-year needs and investments for priority fish passage barriers.

Currently, 37 active (funded) fish passage barrier locations are in the project delivery process, being developed for remediation, totaling approximately \$360 to \$370 million in transportation funding. The scope of design solution for most funded projects being developed are small bridges, or other full-span, high-quality, and long-term fish passage solutions. See *Appendix C. 2023 Active Fish Passage Remediation Locations Funding*, for an outline of project and funding information.

### Multi-Species and Habitat Benefits

Fish Passage Advisory Committees continue to identify priority salmon and steelhead barrier locations that also provide high quality connectivity opportunities for other aquatic and terrestrial species. Watersheds and riparian areas are used by both aquatic and terrestrial species to meet some, or all, of their life cycle needs, including migration for food, mating, or to move into a more suitable habitat. Rising temperatures, changing precipitation patterns, wildfires, sea level rise, and shifts in vegetative communities affect suitability of habitat and range for salmon, steelhead, and other threatened and endangered species as well as common species such as deer, black bear, bobcats, and coyotes.

Full-span fish passage solutions span the historically active channel, restore the natural bank lines to match the reference reach, minimizing future interference with the State Highway System stream crossing, improve natural channel processes, and provide both terrestrial and aquatic species passage and full ecosystem function. Full-span solutions represent the most strategic investment in fish passage barrier remediation and require minimal maintenance over time. Caltrans continues to deploy wildlife cameras and underwater GoPro cameras to monitor species use both pre- and post-project.

Pre-designed Accelerated Bridge Construction fish passage bridges can be implemented for in-channel (wet/bridge), or over-land (dry/viaduct), fish and wildlife connectivity projects that require a 20-foot to 120-foot span, or for any bridge replacement that fits the scope of the small bridge pre-designed work. Wet channel solutions require more costly deep-water foundations (drilled or driven piles) to avoid and minimize scour risk and ensure the long-term performance of the in-water fish passage and wildlife connectivity solution.

## Research

In July of 2022, Cal Poly Humboldt and the Interagency Engineering Working Group research panel of expert engineers completed the fish passage engineering efficacy research project. Research panel members consisting of hydraulic engineers, fish passage engineers, geologists, and structures engineers from Caltrans, the California Department of Fish and Wildlife, and the National Marine Fisheries Service who continue to collaborate to implement recommendations and findings. The final research report is available to all interested partners on the Fish Passage Advisory Committee [FishPAC Engineering Resources Webpage](#).

The research recommended improvements to process and guidance, as listed below.

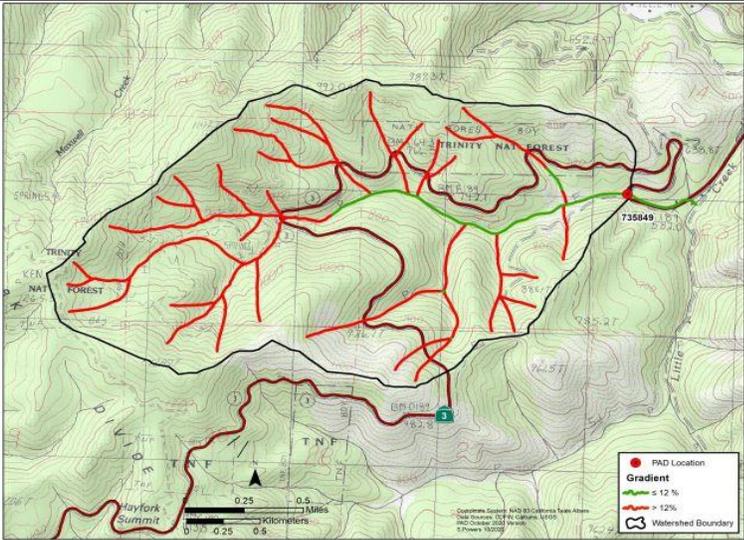
- Institute geomorphic site assessments as a standard study for fish passage project development, to include thalweg profile assessments, evaluating risk of channel adjustment, characterizing a reference reach for design development, and establishing geomorphic design objectives,
- Additional guidance for design and construction of grade control,
- Develop standard special provisions for natural stream channel construction, and
- Develop procedures for adjusting and implementing design modifications when field conditions change including documenting changes for long-term effectiveness and application to similar future project site conditions.

In November of 2023, Caltrans hosted a webinar to present the Humboldt Cal Poly Fish Passage Engineering Project Site Analysis and Final Report, to include scope of work, findings, and recommendations for over 400 Fish Passage Advisory Committee members and other interested partner attendees.

## 2023 Completed Fish Passage Remediation Locations

Two fish passage barriers were remediated in 2023, improving access to an estimated **5.25** miles of habitat for salmon and Steelhead Trout. Table 1 contains information on the completed locations. Figure 2 is a map of the locations listed in Table 1.

**Table 1 (Maps 1-2). 2023 Completed Fish Passage Remediation Locations**

Map #	Caltrans District	County – Route – Post Mile	PAD ID #	Stream Name	Treatment Status
1	2	Trinity – 3 – PM 24.95	735849	Unnamed / Frazier Creek	Stream Simulation Design
	<b>Species</b>	Southern Oregon/Northern California Coho (Threatened), California Coastal Chinook (Threatened), Northern California Steelhead (Threatened).			
	<b>Habitat</b>	There is an estimated <b>1.38</b> miles of salmon and Steelhead Trout habitat above this barrier.			
<b>Pre-Construction Fish Passage (Barrier)</b>			<b>Post-Construction Fish Passage (Remediation)</b>		
					
<b>Notes</b>			<b>Watershed model - run/rise habitat estimate</b>		
<ul style="list-style-type: none"> <li>The under-sized culvert and outlet jump barrier was removed and replaced with a significantly larger culvert that is embedded in the channel.</li> <li>The new culvert has internal weirs and pools that allow salmon and Steelhead Trout improved access to upstream habitat.</li> </ul> <p><b>Note:</b> Green lines on the map were established using gradient over distance to simulate adult Steelhead Trout swimming and jumping capabilities.</p>					

Map #	Caltrans District	County – Route – Post Mile	PAD ID #	Stream Name	Treatment Status
2	4	Sonoma – 1 – PM 15.1	733223	Scotty Creek	Full Span Bridge
	Species	Central California Coast Steelhead Trout (Threatened), Central California Coast Coho (Endangered).			
	Habitat	There is an estimated <b>3.87</b> miles of salmon and Steelhead Trout habitat above this barrier.			

**Pre-Construction Fish Passage (Barrier)**

**Post-Construction Fish Passage (Remediation)**

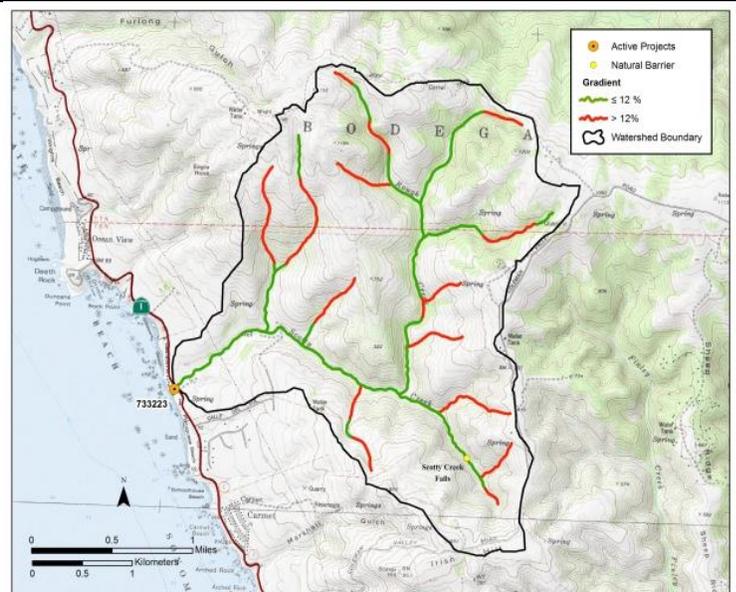


**Notes**

**Watershed model - run/rise habitat estimate**

- The existing multiple bay, reinforced concrete box, was replaced with a full span bridge to allow for natural channel process for species access and flow.
- The project addressed fish passage as well as sea-level rise for climate adaptation.
- Channel restoration and revegetation elements were completed as part of the project actions.

**Note:** Green lines on the map were established using gradient over distance to simulate adult Steelhead Trout swimming and jumping capabilities.





**Figure 2. 2023 Completed Fish Passage Remediation Locations.**

## 2023 Completed Fish Passage Assessment Locations

In 2023, **573** reconnaissance (first pass) and detailed (second pass) fish passage assessments were completed in Districts 1 (Eureka), 2 (Redding), 3 (Marysville), 4 (Oakland), 5 (San Luis Obispo), 6 (Fresno), 7 (Los Angeles), 10 (Stockton), 11 (San Diego), and 12 (Orange). Table 2 below lists **47** new identified barriers and **199** potential barriers that need detailed assessments (listed below). The other **327** assessed locations are not barriers to salmon or Steelhead Trout. Assessment information has been submitted to the California Department of Fish and Wildlife, Passage Assessment Database. Figure 3 demonstrates new barriers, assessed non barriers, and further assessments needed.

**Table 2. 2023 Completed Fish Passage Assessment Locations.**

District/FishPAC	Counties	Total Assessments	Assessed Non-Barriers	Detailed Assessments Needed	New Identified Barriers
District 1 (Eureka) – North Coast FishPAC	Humboldt, Mendocino	100	75	13	12
District 2 (Redding) – Klamath-Cascades FishPAC	Lassen, Modoc, Plumas, Shasta, Siskiyou, Tehama, Trinity	297	186	99	12
District 3 (Marysville) – Central Valley FishPAC	Butte, El Dorado, Glenn, Nevada, Sacramento, Sutter, Yolo, Yuba	19	14	3	2
District 4 (Oakland) – Bay Area FishPAC	Alameda, Contra Costa, Marin, Napa, San Mateo, Santa Clara, Solano, Sonoma	23	0	23	0
District 5 (San Luis Obispo) – Central Coast FishPAC	Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz	93	30	44	19
District 6 (Fresno) – Central Valley FishPAC	Fresno, Kings, Madera, Tulare	39	22	17	0
District 7 (Los Angeles) – Southern Steelhead FishPAC	Los Angeles, Ventura	2	0	0	2
District 10 (Stockton) – Central Valley FishPAC	Amador, Calaveras, Mariposa, Merced, San Joaquin, Stanislaus, Tuolumne	0	0	0	0
District 11 (San Diego) – Southern Steelhead FishPAC	San Diego	0	0	0	0
District 12 (Orange) – Southern Steelhead FishPAC	Orange	0	0	0	0
<b>Totals</b>		<b>573</b>	<b>327</b>	<b>199</b>	<b>47</b>

## 2023 New Identified Fish Passage Barrier Locations

In 2023, detailed (second pass) fish passage assessments and Habitat Evaluations were completed in Districts 1, (Eureka), 2 (Redding), 3 (Marysville), 4 (Oakland), 5 (San Luis Obispo), 6 (Fresno), 7 (Los Angeles), 10 (Stockton), 11 (San Diego), and 12 (Orange). As a result, **47** new barriers were identified. Assessment information has been submitted to the California Department of Fish and Wildlife, Passage Assessment Database. Table 3 below lists the new barriers, and Figure 3 shows new barriers listed in Table 3.

**Table 3. 2023 New Identified Fish Passage Barriers.**

New Barrier #	Caltrans District	County – Route – Post Mile	PAD ID #	Stream Name	Tributary to
1	1	Humboldt-36-PM 19.07	712980	unnamed	Van Duzen River
2	1	Humboldt-101-PM 84.92	730788	Gannon Slough	Jacoby Creek
3	1	Humboldt-101-PM 85.54	731015	none	Gannon Slough
4	1	Humboldt-255-PM 7.68	731050	McDaniel Slough (Janes Creek)	Pacific Ocean
5	1	Humboldt-255-PM 8.5	761865	Jolly Giant Creek	Humboldt Bay
6	1	Mendocino-101-PM 45.9	762031	Baechtel Creek	Outlet Creek
7	1	Mendocino-101-PM 74.2	713120	Sheep Camp Creek	Ten Mile Creek
8	1	Mendocino-101-PM 75.66	706994	Steep Gulch	Tenmile Creek
9	1	Mendocino-101-PM 76.16	706992	Spring Creek	Tenmile Creek
10	1	Mendocino-162-PM 8.3	762073	Eel River	Pacific Ocean
11	1	Mendocino-175-PM 3.2	716417	Pratt Ranch Creek	McDowell Creek
12	1	Mendocino-175-PM 3.32	762145	unnamed	McDowell Creek
13	2	Tehama-36-PM 23.1	760500	Long Gulch	Dry Creek
14	2	Tehama-36-PM 25.6	760501	South Fork Cottonwood Creek	Cottonwood Creek
15	2	Tehama-36-PM 34	760506	Dibble Creek	Sacramento River
16	2	Tehama-36-PM 39.1	760512	South Fork Dibble Creek	Dibble Creek
17	2	Tehama-99-PM 24.85	760612	Salt Creek	Sacramento River
18	2	Trinity-3-PM 34.12	735748	unnamed	Little Browns Creek
19	2	Trinity-299-PM 19.5	720512	Swede Creek	Trinity River
20	2	Trinity-299-PM 31.6	760819	Wheel Gulch	Trinity River
21	2	Trinity-299-PM 45.6	760858	Slattery Gulch	Oregon Gulch
22	2	Trinity-299-PM 49.1	760862	unnamed	West Weaver Creek

<b>New Barrier #</b>	<b>Caltrans District</b>	<b>County – Route – Post Mile</b>	<b>PAD ID #</b>	<b>Stream Name</b>	<b>Tributary to</b>
23	2	Trinity-299-PM 49.5	760863	unnamed	West Weaver Creek
24	2	Trinity-299-PM 54.54	731450	Little Browns Creek	Weaver Creek
25	3	Butte-99-PM 44.92	762809	unnamed	unnamed
26	3	Yolo-80-PM 0.01	764518	Putah Creek	Sacramento River
27	5	Santa Barbara-1-PM 0.16	707409	Gaviota Creek	Pacific Ocean
28	5	Santa Barbara -1-PM 0.19	707408	Gaviota Creek	Pacific Ocean
29	5	Santa Barbara -1-PM 26.85	735395	Santa Lucia Canyon	Santa Ynez River
30	5	Santa Barbara -101-PM 13.96	734374	Mission Creek	Pacific Ocean
31	5	Santa Barbara -101-PM 22.81	700089	San Pedro Creek	Pacific Ocean
32	5	Santa Barbara -101-PM 23.59	700088	Carneros Creek	Tecolotito Creek
33	5	Santa Barbara -101-PM 30.06	706316	Dos Pueblos Creek	Pacific Ocean
34	5	Santa Barbara -101-PM 50.19	706390	Gaviota Creek	Pacific Ocean
35	5	Santa Barbara -101-PM 51.76	705154	Nojoqui Creek	Santa Ynez River
36	5	Santa Barbara -101-PM 57.43	735471	Zaca Creek	Ventura Harbor
37	5	Santa Barbara -101-PM 59.68	735473	Zaca Creek	Santa Ynez River
38	5	Santa Barbara -101-PM 60.91	735474	Zaca Creek	Santa Ynez River
39	5	Santa Barbara -101-PM 62.28	735475	Zaca Creek	Santa Ynez River
40	5	Santa Barbara -154-PM 6.31	735511	Zanja de Cota Creek	Santa Ynez River
41	5	Santa Barbara -101-PM 55.05	734617	Nojoqui Creek	Santa Ynez River
42	5	Santa Barbara -192-PM 10.55	762294	unnamed	Buena Vista Creek
43	5	Santa Barbara -246-PM 16.08	736470	unnamed	unnamed tributary to Santa Rita Creek
44	5	Santa Barbara -246-PM 19.46	736525	unnamed	unnamed tributary to Santa Rosa Creek
45	5	Santa Barbara -246-PM 26.14	735470	Zaca Creek	Santa Ynez River
46	7	Ventura-101-PM 26.5	759875	unnamed	Ventura Harbor
47	7	Ventura-101-PM 26.6	759876	Barlow Barranca	Arundell Barranca



## 2023 Active Fish Passage Remediation Locations

Caltrans is currently developing projects to remediate 37 fish passage barriers. Four new barrier locations have been funded on the State Highway System, which are indicated in **bold and underline (new)**. The **37** active locations account for an estimated **144.93** miles of currently blocked habitat for salmon and steelhead. Table 4 lists the locations that are either funded through construction, or partially funded for planning, design, or permitting. Figure 4 is a map of the locations listed in Table 4.

**Table 4. 2023 Active Fish Passage Remediation Locations.**

Map #	Caltrans District	County – Route – Post Mile	Stream Name	Project Name	Solution Type	PAD ID #	Estimated Habitat	Species
1	1	Del Norte – 101 – PM 37.46	Mello Creek	Mello Creek Fish Passage	Full Span Bridge	712951	0.46	Southern Oregon/Northern California Coast Coho (Threatened).
2	1	Del Norte 101 – PM 40.6	Delilah Creek	DN 101 Drainage	Stream Simulation Design	761539	0.5	Southern Oregon/Northern California Coast Coho (Threatened).
3	1	Humboldt – 36 – PM 4.39	Ward Creek	Carlotta Widening	Full Span Bridge	712971	2.83	Southern Oregon/Northern California Coast Coho (Threatened).
4	1	Humboldt – 101 – PM 0.86	Hartsook Creek	Hartsook Creek Fish Passage	Stream Simulation Design	707160	0.85	Southern Oregon/Northern California Coast Coho (Threatened).
5	1	Humboldt – 254 – PM 4.18	Fish Creek	Fish Passage	Full Span Bridge	707157	4.0	California Central Valley Steelhead Trout (Threatened), Central Valley Spring-run and Fall/Late Fall-run Chinook (Threatened), Sacramento Winter-run Chinook (Endangered).

Map #	Caltrans District	County – Route – Post Mile	Stream Name	Project Name	Solution Type	PAD ID #	Estimated Habitat	Species
6	1	Humboldt – 254 – PM 8.13	Unnamed tributary (South Fork Eel River)	Culvert Rehabilitation	Stream Simulation Design	713038	0.04	California Central Valley Steelhead Trout (Threatened), Central Valley Spring-run and Fall/Late Fall-run Chinook (Threatened), Sacramento Winter-run Chinook (Endangered).
7	1	Humboldt – 254 – PM 15.04	Mowry Creek	Culvert Rehabilitation	Full Span Bridge	713040	0.52	Southern Oregon/Northern California Coast Coho (Threatened).
8	1	Humboldt – 254 – PM 16.44	Unnamed tributary (South Fork Eel River)	Culvert Rehabilitation	Hydraulic/ Partial	713042	0.07	California Central Valley Steelhead Trout (Threatened), Central Valley Spring-run and Fall/Late Fall-run Chinook (Threatened).
9	1	Humboldt – 254 – PM 40.83	Chadd Creek	Storm Water Mitigation	Stream Simulation Design	722439	2.03	California Central Valley Steelhead Trout (Threatened), Central Valley Spring-run and Fall/Late Fall-run Chinook (Threatened).
<b>10 (new)</b>	<b>1</b>	<b><u>Mendocino – 1 – PM 4.64</u></b>	<b><u>Fish Rock Gulch</u></b>	<b><u>Fish Passage Bridge</u></b>	<b><u>Full Span Bridge</u></b>	<b><u>713068</u></b>	<b><u>0.99</u></b>	<b><u>California Coastal Chinook (Threatened), Northern CA Steelhead (Threatened), Central California Coast Coho (Endangered).</u></b>
<b>11 (new)</b>	<b>1</b>	<b><u>Mendocino – 1 – PM 58.78</u></b>	<b><u>Digger Creek</u></b>	<b><u>Fish Passage Bridge</u></b>	<b><u>Full Span Bridge</u></b>	<b><u>707072</u></b>	<b><u>2.39</u></b>	<b><u>Northern California Steelhead (Threatened), Central California Coast Coho (Endangered).</u></b>

Map #	Caltrans District	County – Route – Post Mile	Stream Name	Project Name	Solution Type	PAD ID #	Estimated Habitat	Species
12	1	Mendocino – 128 – PM 7.27	Mustard Gulch	Navarro River	Full Span Bridge	707187	1.55	Northern California Steelhead (Threatened), Central California Coast Coho (Endangered), California Coastal Chinook (Threatened).
13	2	Siskiyou – 96 – PM 43.5	Cade Creek	Cade Creek	Full Span Bridge	720541	2.58	Southern Oregon/Northern California Coho (Threatened), California Coastal Chinook (Threatened), Northern California Steelhead Trout (Threatened).
14	2	Siskiyou – 96 – PM 57.0	Portuguese Creek	Portuguese Creek	Full Span Bridge	707169	2.79	Southern Oregon\Northern California Coasts Coho Salmon (Threatened).
15	4	Marin 1 – PM 21.06	Unnamed Tributary (Olema Creek)	Olema Creek	Full Span Bridge	732665	0.7	Central California Coast Steelhead (Threatened), Central California Coast Coho (Endangered).
16	4	Napa – 29 – PM 33.13	Ritchie (Ritchey) Creek	Fish Passage Remediation	Full Span Bridge	705459	2.36	Central California Coast Steelhead (Threatened).
17	4	Napa – 29 – PM 38.96	Horns Creek	Bridge Preventative Maintenance Scour Mitigation	Hydraulic/ Partial	705526	0.87	Central California Coast Steelhead (Threatened).

Map #	Caltrans District	County – Route – Post Mile	Stream Name	Project Name	Solution Type	PAD ID #	Estimated Habitat	Species
18	4	San Mateo – 280 – PM 0.01	Los Trancos Creek	Seismic Restoration - King DR. UC #35-0202L	Hydraulic/ Partial	705760	11.82	Central California Coast Steelhead (Threatened).
19	5	Santa Barbara – 101 – PM R0.0	Rincon Creek	Rincon Creek Fish Passage	Hydraulic/ Partial	707368	10.56	Southern Central California Coast Steelhead (Threatened).
20	5	Santa Barbara – 101 – PM 5.6	Arroyo (Parida) Paredon Creek	South Coast 101 HOV Lanes - Padaro	Full Span Bridge	734310	2.37	Southern California Coast Steelhead (Endangered).
21	5	Santa Barbara – 101 – PM 5.63	Toro Creek	South Coast 101 HOV Lanes	Hydraulic/ Partial	734309	2.38	Southern California Coast Steelhead Trout (Endangered).
22	5	Santa Barbara – 101 – PM 9.4	Romero Creek	South Coast 101 HOV Lanes - Padaro Montecito	Full Span Bridge	705161	5.84	Southern California Coast Steelhead (Endangered).
23	5	Santa Barbara – 101 – PM 9.6	San Ysidro Creek	South Coast 101 HOV - Padaro Montecito	Full Span Bridge	734342	2.36	Southern California Coast Steelhead (Endangered).
24	5	Santa Barbara- 101-PM 10.51	Oak Creek	South Coast 101 HOV - Montecito	Full Span Bridge	734353	1.99	Southern California Coast Steelhead (Endangered).

Map #	Caltrans District	County – Route – Post Mile	Stream Name	Project Name	Solution Type	PAD ID #	Estimated Habitat	Species
<b><u>25 (new)</u></b>	<b><u>5</u></b>	<b><u>Santa Barbara - 101-PM 21.63</u></b>	<b><u>San Jose Creek</u></b>	<b><u>San Jose Ck Bridge Replacement</u></b>	<b><u>Hydraulic/ Partial</u></b>	<b><u>734429</u></b>	<b><u>6.63</u></b>	<b><u>Southern Central California Coast Steelhead (Threatened).</u></b>
26	5	Santa Barbara- 101-PM 36.7	Refugio Creek	Refugio Creek Bridge Replacement	Full Span Bridge	707402	4.5	Southern California Coast Steelhead (Endangered).
27	5	Santa Barbara – 101 – PM 46.92	Gaviota Creek	Channel Restoration	Hydraulic/ Partial	706655	0.02	Southern Central California Coast Steelhead (Threatened).
28	5	Santa Barbara – 101 – PM 46.95	Gaviota Creek	Channel Restoration	Hydraulic/ Partial	706656	0.17	Southern Central California Coast Steelhead (Threatened).
29	5	Santa Barbara – 101 – PM 47.12	Gaviota Creek	Channel Restoration	Hydraulic/ Partial	706657	0.03	Southern Central California Coast Steelhead (Threatened).
30	5	Santa Barbara – 101 – PM 47.15	Gaviota Creek	Channel Restoration	Hydraulic/ Partial	706658	0.04	Southern Central California Coast Steelhead (Threatened).
31	5	Santa Barbara – 101 – PM 47.19	Gaviota Creek	Channel Restoration	Hydraulic/ Partial	706659	0.18	Southern Central California Coast Steelhead (Threatened).
32	5	Santa Barbara – 101 – PM R49.59	Gaviota Creek	Giorgi Culvert Improvement Project	Full Span Bridge	706388	2.71	Southern Central California Coast Steelhead (Threatened).

Map #	Caltrans District	County – Route – Post Mile	Stream Name	Project Name	Solution Type	PAD ID #	Estimated Habitat	Species
33	5	Santa Cruz – 9 – PM 19.2	San Lorenzo River	Waterman Gap Fish Passage	Full Span Bridge	713774	2.92	Central California Coast Coho (Endangered), Central California Coast Steelhead (Threatened).
34	7	Los Angeles – 1 – 50.36	Solstice Creek	Solstice Creek Bridge Replacement	Stream Simulation Design	705781	2.25	Southern California Coast Steelhead (Endangered).
<b><u>35 (new)</u></b>	<b><u>Z</u></b>	<b><u>Los Angeles – 1 – PM 56.71</u></b>	<b><u>Trancas Creek</u></b>	<b><u>Bridge Replacement</u></b>	<b><u>Full Span Bridge</u></b>	<b><u>736633</u></b>	<b><u>1.69</u></b>	<b><u>Southern California Steelhead (Endangered)</u></b>
36	7	Ventura – 1 – PM 4.54	Big Sycamore Canyon	Bridge Replacement	Full Span Bridge	723631	4.54	Southern California Steelhead (Endangered).
37	7	Ventura – 33 – PM 7.62	San Antonio Creek	Scour Mitigation & Rail Upgrade	Hydraulic/ Partial	713867	56.4	Southern California Coast Steelhead (Endangered).



## 2023 Planned Funding - Priority Fish Passage Remediation

In 2022, priority fish passage barrier locations were evaluated to identify transportation funding nexus opportunities. The **34** priority locations listed in Table 5 below have planned funding and are currently in the planning (pre-project) phase, working to complete Project Initiation Documents to determine the scope, cost, and schedule to program for project delivery. Seven new barrier locations have planned funding and are indicated in **bold and underline (new)**. Once locations are programmed, they will begin the Project Analysis and Environmental Document phase of project delivery and will be reported as Active (funded). The **34** locations planned for funding and listed in Table 5 below account for an estimated **210.08** miles of currently blocked habitat for salmon and steelhead. Figure 5 demonstrates the **34** locations identified for planned funding.

**Table 5. 2023 Planned Funding for Priority Fish Passage Remediation**

Map #	Caltrans District	County – Route – Post Mile	Stream Name	Tributary to	Solution Type	PAD ID #	Estimated Habitat	Species
1	1	Humboldt – 36 – PM 5.18	Wilson Creek	Yager Creek (Van Duzen River)	Full Span Bridge	712972	3.47	Southern Oregon/Northern California Coast Coho (Threatened), California Coastal Chinook (Threatened), Northern California Steelhead (Threatened).
2	1	Humboldt – 36 – PM 9.17	Fox Creek	Van Duzen River	Full Span Bridge	707129	2.31	Southern Oregon/Northern California Coast Coho (Threatened), California Coastal Chinook (Threatened), Northern California Steelhead (Threatened).
3	1	Humboldt – 101 – PM 1.61	Durphy Creek	South Fork Eel River	Full Span Bridge	707159	2.44	Southern Oregon/Northern California Coast Coho (Threatened), Northern California Steelhead (Threatened).

Map #	Caltrans District	County – Route – Post Mile	Stream Name	Tributary to	Solution Type	PAD ID #	Estimated Habitat	Species
<b><u>4</u></b> <b>(new)</b>	<b><u>1</u></b>	<b><u>Humboldt – 299 – PM R2.97</u></b>	<b><u>Essex Gulch</u></b>	<b><u>Mad River</u></b>	<b><u>Full Span Bridge</u></b>	<b><u>713051</u></b>	<b><u>3.51</u></b>	<b><u>Southern Oregon/Northern California Coast Coho (Threatened), California Coastal Chinook (Threatened), Northern California Steelhead (Threatened).</u></b>
5	1	Mendocino – 1 – PM R25.48	Mallo Pass Creek	Pacific Ocean	Hydraulic/ Partial	706971	4.65	Northern California steelhead (Threatened), Central California Coast Coho (Endangered).
6	1	Mendocino – 1 – PM 88.71	Powderhouse Gulch	Cottaneva Creek	Full Span Bridge	713078	0.87	Northern California Steelhead (Threatened), Central California Coast Coho (Endangered), California Coastal Chinook (Threatened).
<b><u>7</u></b> <b>(new)</b>	<b><u>1</u></b>	<b><u>Mendocino – 101 – PM 80.75</u></b>	<b><u>Twin Rocks Creek</u></b>	<b><u>Rattlesnake Creek</u></b>	<b><u>Full Span Bridge</u></b>	<b><u>707105</u></b>	<b><u>2.2</u></b>	<b><u>Northern California Steelhead, Southern OR\Northern CA Coasts Coho Salmon, California Coastal Chinook Salmon</u></b>
<b><u>8</u></b> <b>(new)</b>	<b><u>1</u></b>	<b><u>Mendocino – 101 – PM 81.17</u></b>	<b><u>Cummings Creek</u></b>	<b><u>Rattlesnake Creek</u></b>	<b><u>Full Span Bridge</u></b>	<b><u>707106</u></b>	<b><u>0.77</u></b>	<b><u>Northern California Steelhead, Southern OR\Northern CA Coasts Coho Salmon, California Coastal Chinook Salmon</u></b>

Map #	Caltrans District	County – Route – Post Mile	Stream Name	Tributary to	Solution Type	PAD ID #	Estimated Habitat	Species
9	2	Trinity – 3 – PM 32.62	East Weaver Creek	Weaver Creek (Trinity River)	Full Span Bridge	707178	7.42	Southern Oregon/Northern California Coho (Threatened), California Coastal Chinook (Threatened), Northern California Steelhead (Threatened).
10	2	Trinity – 299 – PM 49.63	West Weaver Creek	Weaver Creek (Trinity River)	Full Span Bridge	720522	4.64	Southern Oregon/Northern California Coho (Threatened), California Coastal Chinook (Threatened), Northern California Steelhead (Threatened).
11	2	Trinity – 299 – PM 51.2	Sydney Gulch	West Weaver Creek (Trinity River)	Full Span Bridge	737674	5.54	Southern Oregon/Northern California Coho (Threatened), California Coastal Chinook (Threatened), Northern California Steelhead (Threatened).
12	2	Trinity – 299 – PM 51.41	Garden Gulch	Sydney Gulch (Trinity River)	Hydraulic/ Partial	735941	4.52	Southern Oregon/Northern California Coho (Threatened), California Coastal Chinook (Threatened), Northern California Steelhead (Threatened).
13	4	Marin – 1 – PM 18.69	McCurdy Creek	Pine Gulch Creek (Bollinas Lagoon)	Full Span Bridge	706078	0.38	Central California Coast Steelhead (Threatened), Central California Coast Coho (Endangered).

Map #	Caltrans District	County – Route – Post Mile	Stream Name	Tributary to	Solution Type	PAD ID #	Estimated Habitat	Species
14	4	Marin – 1 – PM 18.69	North Fork McCurdy Creek	McCurdy Creek (Pine Gulch Creek)	Full Span Bridge	706079	0.37	Central California Coast Steelhead (Threatened), Central California Coast Coho (Endangered).
15	4	Marin – 1 – PM 22.67	John West Fork	Olema Creek	Full Span Bridge	706059	2.85	Central California Coast Steelhead (Threatened), Central California Coast Coho (Endangered).
16	4	San Mateo – 1 – PM 4.32	Whitehouse Creek	Pacific Ocean	Full Span Bridge	705302	4.04	Central California Coast Steelhead (Threatened).
17	4	San Mateo – 84 – PM 19.89	West Union Creek	Bear Creek	Full Span Bridge	705768	4.83	Central California Coast Steelhead (Threatened).
<u>18</u> <u>(new)</u>	<u>4</u>	<u>Sonoma – 1 – PM 32.45</u>	<u>Fort Ross Creek</u>	<u>Pacific Ocean</u>	<u>Full Span Bridge</u>	<u>723192</u>	<u>1.35</u>	<u>Northern California Steelhead (Threatened), Central California Coast Coho (Endangered), California Coastal Chinook (Threatened)</u>
<u>19</u> <u>(new)</u>	<u>4</u>	<u>Sonoma – 1 – PM 41.0</u>	<u>Miller Creek</u>	<u>Pacific Ocean</u>	<u>Full Span Bridge</u>	<u>723190</u>	<u>1.46</u>	<u>Northern California Steelhead (Threatened), Central California Coast Coho (Endangered), California Coastal Chinook (Threatened)</u>

Map #	Caltrans District	County – Route – Post Mile	Stream Name	Tributary to	Solution Type	PAD ID #	Estimated Habitat	Species
20	5	Santa Barbara – 101 – PM 47.37	Gaviota Creek	Pacific Ocean	Stream Simulation Design	706660	0.04	Southern Central California Coast Steelhead (Threatened).
21	5	Santa Barbara – 101 – PM 47.41	Gaviota Creek	Pacific Ocean	Stream Simulation Design	706661	0.28	Southern Central California Coast Steelhead (Threatened).
22	5	Santa Barbara – 101 – PM 47.69	Gaviota Creek	Pacific Ocean	Stream Simulation Design	706663	1.06	Southern Central California Coast Steelhead (Threatened).
23	5	Santa Barbara – 101 – PM 47.75	Gaviota Creek	Pacific Ocean	Stream Simulation Design	706664	0.02	Southern Central California Coast Steelhead (Threatened).
24	5	Santa Barbara – 101 – PM 47.77	Gaviota Creek	Pacific Ocean	Stream Simulation Design	706665	0.04	Southern Central California Coast Steelhead (Threatened).
25	5	Santa Barbara – 101 – PM 47.81	Gaviota Creek	Pacific Ocean	Stream Simulation Design	706666	25.04	Southern Central California Coast Steelhead (Threatened).

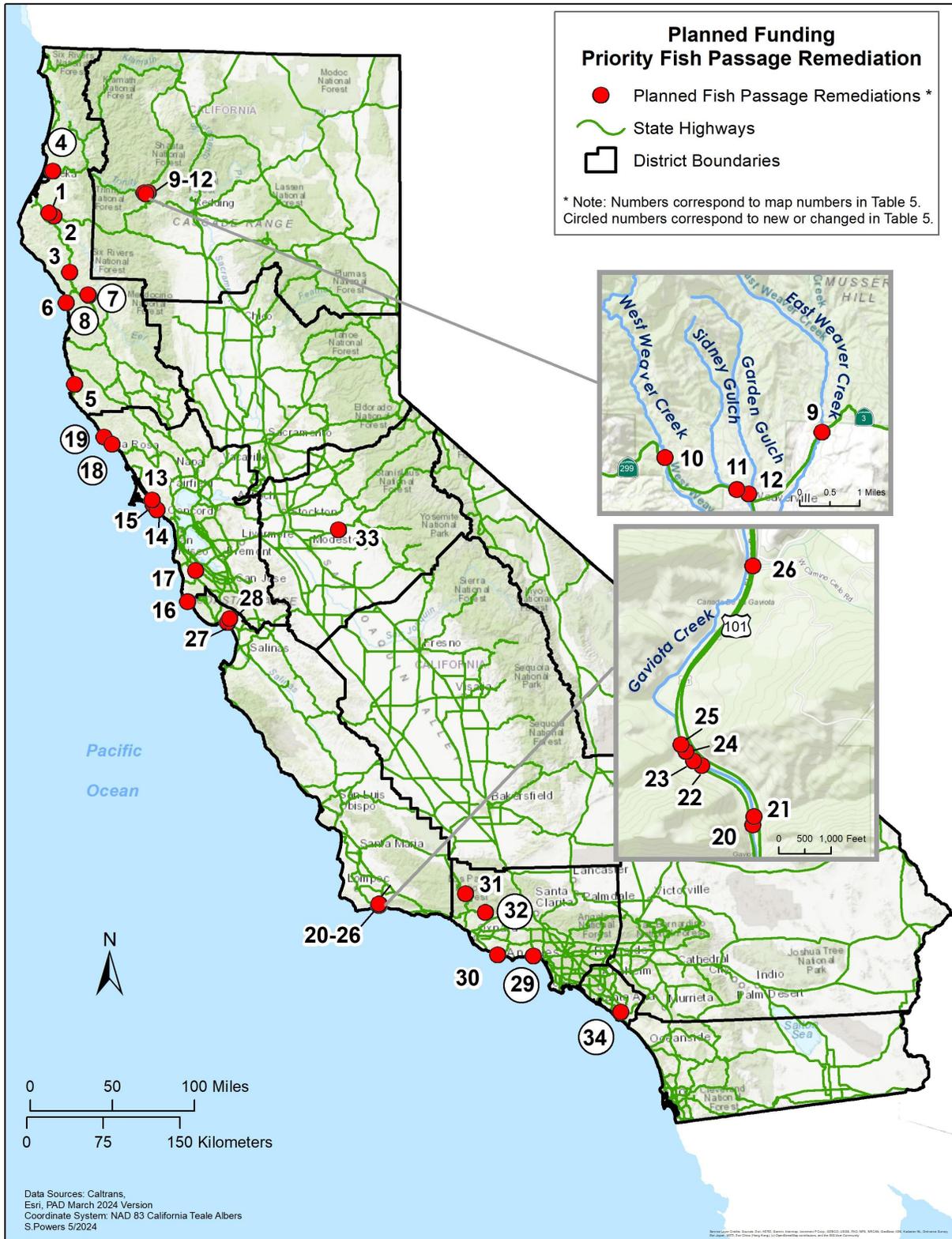
Map #	Caltrans District	County – Route – Post Mile	Stream Name	Tributary to	Solution Type	PAD ID #	Estimated Habitat	Species
26	5	Santa Barbara – 101 – PM 48.35	Las Canovas Creek	Gaviota Creek	Full Span Bridge	707414	0.96	Southern California Coast Steelhead (Endangered).
27	5	Santa Cruz – 1 – PM 9.88	Valencia Creek	Aptos Creek	Hydraulic/ Partial	706704	0.03	Central California Coast Coho (Endangered), Central California Coast Steelhead (Threatened).
28	5	Santa Cruz – 1 – PM 9.97	Valencia Creek	Aptos Creek	Hydraulic/ Partial	706703	16.33	Central California Coast Coho (Endangered), Central California Coast Steelhead (Threatened).
<b><u>29</u></b> <b>(new)</b>	<b><u>7</u></b>	<b><u>Las Angeles – 1 – 40.99</u></b>	<b><u>Topanga Canyon<sup>1</sup></u></b>	<b><u>Pacific Ocean</u></b>	<b><u>Full Span Bridge</u></b>	<b><u>716891</u></b>	<b><u>3.76</u></b>	<b><u>Southern California Coast Steelhead (Endangered).</u></b>
30	7	Ventura – 1 – PM 1.23	Little Sycamore Canyon	Pacific Ocean	Full Span Bridge	723563	2.19	Southern California Coast Steelhead (Endangered).
31	7	Ventura – 33 – PM 34.5	Burro Creek	Sespe Creek	Full Span Bridge	723802	0.54	Southern California Coast Steelhead (Endangered).

<sup>1</sup> State, federal, and local partners have been planning and delivering a restoration project at Topanga Canyon for many years. Approximately \$21 million has been allocated for planning, technical, and environmental studies, and partial design, with Ready-to-List scheduled by December 2026.

Map #	Caltrans District	County – Route – Post Mile	Stream Name	Tributary to	Solution Type	PAD ID #	Estimated Habitat	Species
<b><u>32</u></b> <b><u>(new)</u></b>	<b><u>7</u></b>	<b><u>Ventura - 150 – PM 28.61</u></b>	<b><u>Santa Paula Creek<sup>2</sup></u></b>	<b><u>Santa Clara River</u></b>	<b><u>Full Span Bridge</u></b>	<b><u>723744</u></b>	<b><u>17.4</u></b>	<b><u>Southern California Coast Steelhead (Endangered).</u></b>
33	10	Stanislaus – 120 – PM R15.04	Wildcat Creek	Middle San Joaquin River (Lower Stanislaus River)	Full Span Bridge	761519	48.61	California Central Valley Steelhead (Threatened), Central Valley Spring-run Chinook Salmon (Threatened).
34	12	Orange – 5 – PM 11.30	Trabuco Creek <sup>3</sup>	San Juan Creek	Hydraulic/ Partial	706807	36.16	Southern California Coast Steelhead (Endangered).

<sup>2</sup> Santa Paula Creek – In 2012 this location was partially/hydraulically remediated and has been reported since as ‘Completed’. In 2023 this location was damaged by storm events and became a complete barrier to Steelhead Trout. A permanent restoration project is in the Planning stage to replace the bridge and remediate the fish barrier with a long-term solution.

<sup>3</sup> In previous reports Trabuco Creek was reported as funded for a CalTrout project. However, the funding was for early Planning and some limited project development. The location has not received funding for further development and has not been designated a Caltrans project.



**Figure 5. 2023 Planned Funding Priority Fish Passage Remediations**

## 2023 Priority Fish Passage Locations Requiring Funding

Table 6 below lists **77** Priority locations as determined by the six statewide Fish Passage Advisory Committees, which do not currently have identified funding. Twenty-four new priorities have been added, which are indicated in **bold and underline (new)**. The **77** Priority locations account for an estimated **687.41 miles** of blocked habitat for salmon and steelhead. Figure 6 is a map of the locations listed in Table 6.

**Table 6. 2023 Priority Fish Passage Locations Requiring Funding**

Map #	Caltrans District	County – Route – Post Mile	Stream Name	Tributary to	PAD ID #	Estimated Habitat	Species
1	1	Del Norte – 199 – PM 34.04	Broken Kettle Creek	Elk Creek	712954	2.86	Southern Oregon/Northern California Coast Coho (Threatened).
2	1	Humboldt – 36 – PM 9.92	Flannigan Creek	Van Duzen River (Lower Eel)	712977	1.34	Southern Oregon/Northern California Coast Coho (Threatened), California Coastal Chinook (Threatened), Northern California Steelhead (Threatened).
3	1	Humboldt – 101 – PM 11.71	Bear Canyon	South Fork Eel	712991	3.46	Southern Oregon/Northern California Coast Coho (Threatened), California Coastal Chinook (Threatened), Northern California Steelhead (Threatened).
4	1	Humboldt – 101 – PM 59.94	Strongs Creek	Eel River	715460	20.26	Southern Oregon/Northern California Coast Coho (Threatened), Northern California Steelhead (Threatened).
5	1	Humboldt – 101 – PM 93.27	North Fork Widow White Creek	Mad River	716739	6.42	Southern Oregon/Northern California Coast Coho (Threatened), California Coastal Chinook (Threatened), Northern California Steelhead (Threatened).
<b><u>6 (new)</u></b>	<b><u>1</u></b>	<b><u>Humboldt – 101 – PM 122.69</u></b>	<b><u>Skunk Cabbage Creek</u></b>	<b><u>Prairie Creek</u></b>	<b><u>715562</u></b>	<b><u>3.05</u></b>	<b><u>Northern California Steelhead (threatened), Southern OR \ Northern CA Coast Coho Salmon (threatened), California Coastal Chinook Salmon (threatened)</u></b>

Map #	Caltrans District	County – Route – Post Mile	Stream Name	Tributary to	PAD ID #	Estimated Habitat	Species
7	1	Humboldt – 101 – PM R126.2	May Creek (South Prairie Creek)	Prairie Creek	718442	3.16	Southern Oregon/Northern California Coast Coho (Threatened), California Coastal Chinook (Threatened), Northern California Steelhead (Threatened).
<b><u>8</u></b> <b><u>(new)</u></b>	<b><u>1</u></b>	<b><u>Mendocino – 1 – PM 44.98</u></b>	<b><u>Dark Gulch (Ark Gulch)</u></b>	<b><u>Pacific Ocean</u></b>	<b><u>706956</u></b>	<b><u>1.31</u></b>	<b><u>Northern California Steelhead (threatened), Central California Coast Coho Salmon (endangered), California Coastal Chinook Salmon (threatened)</u></b>
9	1	Mendocino – 1 – PM R54.62	Doyle Creek	Pacific Ocean	707070	2.36	Northern California Steelhead (Threatened), Central California Coast Coho (Endangered).
10	1	Mendocino – 1 – PM 57.81	Mitchell Creek	Pacific Ocean	707071	5.22	Northern California Steelhead (Threatened), Central California Coast Coho (Endangered).
11	1	Mendocino – 20 – PM 30.87	Unnamed Tributary to Broaddus Creek	Broaddus Creek	713093	1.81	Northern California Steelhead (Threatened), Central California Coast Coho (Endangered), California Coastal Chinook (Threatened).
<b><u>12</u></b> <b><u>(new)</u></b>	<b><u>1</u></b>	<b><u>Mendocino – 20 – PM 35.05</u></b>	<b><u>Unnamed tributary (Haehl Creek)</u></b>	<b><u>Haehl Creek</u></b>	<b><u>712894</u></b>	<b><u>5.87</u></b>	<b><u>Northern California Steelhead (threatened), Southern OR \ Northern CA Coast Coho (threatened), California Coastal Chinook (threatened)</u></b>
13	1	Mendocino – 101 – PM 54.89	Reeves Canyon	Outlet Creek (Upper Eel)	713110	2.57	Northern California Steelhead (Threatened), Central California Coast Coho (Endangered), California Coastal Chinook (Threatened).
14	1	Mendocino – 101 – PM 61.09	Long Valley Creek	Outlet Creek (Upper Eel)	707091	2.38	Northern California Steelhead (Threatened), Central California Coast Coho (Endangered), California Coastal Chinook (Threatened).

Map #	Caltrans District	County – Route – Post Mile	Stream Name	Tributary to	PAD ID #	Estimated Habitat	Species
15	1	Mendocino – 101 – PM 63.47	Long Valley Creek	Outlet Creek (Upper Eel)	707094	14.79	Northern California Steelhead (Threatened), Central California Coast Coho (Endangered), California Coastal Chinook (Threatened).
16	1	Mendocino – 101 – PM 73.56	Lewis Creek	Tenmile Creek	706969	1.79	Southern Oregon/Northern California Coast Coho (Threatened), California Coastal Chinook (Threatened), Northern California Steelhead (Threatened).
17	1	Mendocino – 101 – PM 75.66	Steep Creek (Steep Gulch)	Tenmile Creek	706994	4.48	Northern California Steelhead (Threatened), Central California Coast Coho (Endangered), California Coastal Chinook (Threatened).
18	1	Mendocino – 101 – PM 82.41	Elk Creek	Rattlesnake Creek (South Fork Eel)	707107	2.07	Northern California Steelhead (Threatened), Central California Coast Coho (Endangered), California Coastal Chinook (Threatened).
19	1	Mendocino – 128 – PM 4.30	Barton Gulch	Navarro River	707185	2.39	Northern California Steelhead (Threatened), Central California Coast Coho (Endangered), California Coastal Chinook (Threatened).
20	1	Mendocino – 128 – PM 18.69	Lazy Creek	Navarro River	706968	3.89	Northern California Steelhead (Threatened), Central California Coast Coho (Endangered), California Coastal Chinook (Threatened).
21	2	Shasta – 5 – PM R17.14	Boulder Creek	Churn Creek	737799	0.26	California Central Valley Steelhead (Threatened), Central Valley Spring-run and Fall/Late Fall-run Chinook (Threatened), Sacramento Winter-run Chinook (Endangered).

Map #	Caltrans District	County – Route – Post Mile	Stream Name	Tributary to	PAD ID #	Estimated Habitat	Species
22	2	Shasta – 44 – PM 33.78	Millseat Creek	North Fork Battle Creek	737802	2.84	California Central Valley Steelhead (Threatened), Central Valley Spring-run and Fall/Late Fall-run Chinook (Threatened), Sacramento Winter-run Chinook (Endangered).
23	2	Shasta – 273 – PM 18.0	Sulphur Creek	Sacramento River	707132	9.33	Sacramento River Winter-run Chinook (Endangered), California Central Valley Steelhead (Threatened), Central Valley Spring-run Chinook (Threatened).
24	2	Shasta – 273 – PM 19.1	Boulder Creek	Churn Creek (Sacramento River)	737800	5.41	Sacramento River Winter-run Chinook (Endangered), California Central Valley Steelhead (Threatened), Central Valley Spring-run Chinook (Threatened).
25	2	Shasta – 299 – PM 19.14	Middle Creek	Sacramento River	707130	3.28	California Central Valley Steelhead (threatened), Central Valley Spring-run Chinook Salmon (threatened), Sacramento River Winter-run Chinook Salmon (endangered), Central Valley Fall & Late Fall-run Chinook Salmon (species of concern).
26	2	Shasta – 299 – PM 24.7	Boulder Creek	Churn Creek (Sacramento River)	737798	1	Southern Oregon/Northern California Coho (Threatened), California Coastal Chinook (Threatened), Northern California Steelhead (Threatened).
27	2	Siskiyou – 96 – PM 38.56	Benjamin Creek	Klamath River	707164	0.62	Southern Oregon/Northern California Coho (Threatened).
28	2	Tehama – 36 – PM 9.98	Dry Creek (Budden Canyon Creek)	Dry Creek	737285	13.42	California Central Valley Steelhead (Threatened), Central Valley Spring-run Chinook (Threatened).

Map #	Caltrans District	County – Route – Post Mile	Stream Name	Tributary to	PAD ID #	Estimated Habitat	Species
29	2	Tehama – 36 – PM 22.13	Little/Big Crane Creek	Dry Creek	737286	19.45	Southern Oregon/Northern California Coho (Threatened), California Coastal Chinook (Threatened), Northern California Steelhead (Threatened).
<u>30 (new)</u>	<u>2</u>	<u>Tehama – 36 – PM 48.60</u>	<u>Sevenmile Creek</u>	<u>Sacramento River</u>	<u>737292</u>	<u>6.45</u>	<u>California Central Valley Steelhead (Threatened), Central Valley Spring-run Chinook (Threatened), Sacramento Winter-run Chinook (Endangered)</u>
31	2	Trinity – 3 – PM 10.9	Barker Creek	Hayfork Creek	707231	14.48	Southern Oregon/Northern California Coho (Threatened), California Coastal Chinook (Threatened), Northern California Steelhead (Threatened).
<u>32 (new)</u>	<u>2</u>	<u>Trinity – 299 – PM 1.24</u>	<u>Italian Creek</u>	<u>Trinity River</u>	<u>720509</u>	<u>1.24</u>	<u>Southern Oregon/Northern California Coho (Threatened)</u>
<u>33 (new)</u>	<u>2</u>	<u>Trinity – 299 – PM 17.53</u>	<u>Little Browns Creek</u>	<u>Weaver Creek</u>	<u>731450</u>	<u>17.53</u>	<u>Southern Oregon/Northern California Coho (Threatened)</u>
<u>34 (new)</u>	<u>3</u>	<u>Nevada – 20 – PM 0.80</u>	<u>Slacks Ravine</u>	<u>Deer Creek</u>	<u>764632</u>	<u>6.62</u>	<u>California Central Valley Steelhead (threatened), Central Valley Spring-run Chinook Salmon (threatened), Central Valley Fall &amp; Late Fall-run Chinook Salmon (species of concern)</u>
<u>35 (new)</u>	<u>3</u>	<u>Sutter – 70 – PM 2.50</u>	<u>Raccoon Creek</u>	<u>Main Canal</u>	<u>764460</u>	<u>158.83</u>	<u>California Central Valley Steelhead (threatened), Central Valley Spring-run Chinook Salmon (threatened), Central Valley Fall &amp; Late Fall-run Chinook Salmon (species of concern)</u>
<u>36 (new)</u>	<u>3</u>	<u>Sutter – 70 – PM 6.50</u>	<u>Ping Slough</u>	<u>Raccoon Creek</u>	<u>764746</u>	<u>5.79</u>	<u>California Central Valley Steelhead (threatened), Central Valley Spring-run Chinook Salmon (threatened), Central Valley Fall &amp; Late Fall-run Chinook Salmon (species of concern)</u>

Map #	Caltrans District	County – Route – Post Mile	Stream Name	Tributary to	PAD ID #	Estimated Habitat	Species
<u>37</u> <u>(new)</u>	<u>3</u>	<u>Sutter – 99 – PM</u> <u>10.50</u>	<u>Raccoon Creek</u>	<u>Main Canal</u>	<u>764851</u>	<u>1.49</u>	<u>California Central Valley Steelhead (threatened), Central Valley Spring-run Chinook Salmon (threatened), Central Valley Fall &amp; Late Fall-run Chinook Salmon (species of concern)</u>
<u>38</u> <u>(new)</u>	<u>3</u>	<u>Sutter – 99 – PM</u> <u>10.60</u>	<u>Ping Slough</u>	<u>Raccoon Creek</u>	<u>764855</u>	<u>11.51</u>	<u>California Central Valley Steelhead (threatened), Central Valley Spring-run Chinook Salmon (threatened), Central Valley Fall &amp; Late Fall-run Chinook Salmon (species of concern)</u>
<u>39</u> <u>(new)</u>	<u>4</u>	<u>Marin – 1 – PM</u> <u>16.95</u>	<u>Wilkins Gulch</u>	<u>Bolinas Lagoon (Pacific Ocean)</u>	<u>732659</u>	<u>0.78</u>	<u>Central California Coast Steelhead (Threatened), Central California Coast Coho (Endangered)</u>
<u>40</u> <u>(new)</u>	<u>4</u>	<u>Marin – 1 – PM</u> <u>17.01</u>	<u>Wilkins Gulch</u>	<u>Bolinas Lagoon (Pacific Ocean)</u>	<u>765071</u>	<u>0.75</u>	<u>Central California Coast Steelhead (Threatened), Central California Coast Coho (Endangered)</u>
<u>41</u> <u>(new)</u>	<u>4</u>	<u>Marin – 1 – PM</u> <u>17.30</u>	<u>Lewis Gulch</u>	<u>Bolinas Lagoon (Pacific Ocean)</u>	<u>761088</u>	<u>0.99</u>	<u>Central California Coast Steelhead (Threatened), Central California Coast Coho (Endangered)</u>
42	4	Marin – 1 – PM 25.63	Quarry Gulch	Olema Creek	706054	0.87	Central California Coast Steelhead (Threatened), Central California Coast Coho (Endangered).
43	4	Marin – 1 – PM 25.67	Quarry Gulch	Olema Creek	759028	0.87	Central California Coast Steelhead (Threatened), Central California Coast Coho (Endangered).
44	4	Napa – 29 – PM 6.04	Suscol Creek	Napa River	705518	4.83	Central California Coast Steelhead (Threatened).
45	4	Napa – 29 – PM 32.07	Mill Creek	Napa River	705448	2.87	Central California Coast Steelhead (Threatened), Central California Coast Coho (Endangered).

Map #	Caltrans District	County – Route – Post Mile	Stream Name	Tributary to	PAD ID #	Estimated Habitat	Species
46	4	San Mateo – 1 – PM 22.75	Lobitos Creek	Pacific Ocean	716835	5.55	Central California Coast Steelhead (Threatened).
47	4	San Mateo – 1 – PM 30.29	Frenchmans Creek	Pacific Ocean	707274	4.61	Central California Coast Steelhead (Threatened), Central California Coast Coho (Endangered).
48	4	San Mateo – 84 – PM 4.6	Bogess Creek	San Gregorio Creek	706675	6.1	Central California Coast Steelhead (Threatened).
49	4	San Mateo – 84 – PM 19.25	Bear Creek	San Francisquito Creek	705766	0.75	Central California Coast Steelhead (Threatened).
50	4	San Mateo – 92 – PM 3.3	Pilarcitos Creek	Pacific Ocean	758036	3.48	Central California Coast Steelhead (Threatened).
<b><u>51 (new)</u></b>	<b><u>4</u></b>	<b><u>Santa Clara – 101 – PM 36.3.7</u></b>	<b><u>Silver Creek</u></b>	<b><u>Coyote Creek</u></b>	<b><u>761230</u></b>	<b><u>34.62</u></b>	<b><u>Central California Coast Steelhead (Threatened), California Coastal Chinook Salmon (Threatened)</u></b>
<b><u>52 (new)</u></b>	<b><u>4</u></b>	<b><u>Santa Clara – 237 – PM R8.78</u></b>	<b><u>Coyote Creek</u></b>	<b><u>San Francisco Bay</u></b>	<b><u>713518</u></b>	<b><u>80.90</u></b>	<b><u>Central California Coast Steelhead (Threatened), California Coastal Chinook Salmon (Threatened)</u></b>
53	4	Sonoma – 1 – PM 34.36	Kolmer Gulch (Fort Ross Creek)	Pacific Ocean	723191	3.09	Northern California Steelhead (Threatened), Central California Coast Coho (Endangered), California Coastal Chinook (Threatened).
<b><u>54 (new)</u></b>	<b><u>4</u></b>	<b><u>Sonoma – 1 – PM 37.02</u></b>	<b><u>Stockhoff Creek</u></b>	<b><u>Pacific Ocean</u></b>	<b><u>733266</u></b>	<b><u>0.59</u></b>	<b><u>Northern California Steelhead (Threatened), California Coastal Chinook Salmon (Threatened), Central California Coast Coho Salmon (Endangered)</u></b>
<b><u>55 (new)</u></b>	<b><u>4</u></b>	<b><u>Sonoma -128 – PM 8.26</u></b>	<b><u>Indian Creek</u></b>	<b><u>Russian River</u></b>	<b><u>712193</u></b>	<b><u>0.79</u></b>	<b><u>Central California Coast Steelhead (Threatened), Central California Coast Coho (Endangered), California Coastal Chinook (Threatened)</u></b>

Map #	Caltrans District	County – Route – Post Mile	Stream Name	Tributary to	PAD ID #	Estimated Habitat	Species
<b><u>56</u></b> <b>(new)</b>	<b><u>5</u></b>	<b><u>San Luis Obispo – 1 – PM 21.90</u></b>	<b><u>Dairy Creek</u></b>	<b><u>Chorro Creek</u></b>	<b><u>700037</u></b>	<b><u>3.68</u></b>	<b><u>South-central California Coast Steelhead (Threatened)</u></b>
<b><u>57</u></b> <b>(new)</b>	<b><u>5</u></b>	<b><u>San Luis Obispo – 1 – PM 22.80</u></b>	<b><u>Pennington Creek</u></b>	<b><u>Chorro Creek</u></b>	<b><u>700040</u></b>	<b><u>5.62</u></b>	<b><u>South-central California Coast Steelhead (Threatened)</u></b>
58	5	San Luis Obispo – 1 – PM 25.71	San Luisito Creek	Chorro Creek	700066	14.49	Southern Central California Coast Steelhead (Threatened).
59	5	San Luis Obispo – 101 – PM 30.5	San Luis Obispo Creek	Pacific Ocean	700058	2.33	Southern Central California Coast Steelhead (Threatened).
60	5	San Luis Obispo – 101 – PM 32.83	San Luis Obispo Creek	Pacific Ocean	700061	14.45	Southern Central California Coast Steelhead (Threatened).
61	5	San Luis Obispo – 101 – PM 36.58	Santa Margarita Creek	Salinas River	707246	2.64	Southern Central California Coast Steelhead (Threatened).
<b><u>62</u></b> <b>(new)</b>	<b><u>5</u></b>	<b><u>Santa Barbara – 101 – PM 30.06</u></b>	<b><u>Dos Pueblos Creek</u></b>	<b><u>Pacific Ocean</u></b>	<b><u>706316</u></b>	<b><u>6.84</u></b>	<b><u>Southern California Coast Steelhead (Endangered)</u></b>
63	5	Santa Barbara – 192 – PM 3.39	Mission Creek	Pacific Ocean	706538	4.26	Central California Coast Coho (Endangered), Central California Coast Steelhead (Threatened).
<b><u>64</u></b> <b>(new)</b>	<b><u>5</u></b>	<b><u>Santa Cruz – 1 – PM 21.51</u></b>	<b><u>Wilder Creek</u></b>	<b><u>Pacific Ocean</u></b>	<b><u>732061</u></b>	<b><u>4.53</u></b>	<b><u>Central California Coast Steelhead (Threatened), Central California Coast Coho Salmon (Endangered)</u></b>
65	5	Santa Cruz – 1 – PM 28.59	San Vicenta Creek	Pacific Ocean	706003	4.4	Central California Coast Coho (Endangered), Central California Coast Steelhead (Threatened).
66	5	Santa Cruz – 1 – PM 31.25	Molino Creek	Pacific Ocean	705994	2.31	Central California Coast Coho (Endangered), Central California Coast Steelhead (Threatened).
67	5	Santa Cruz – 9 – PM 5.5	Gold Gulch	San Lorenzo River	712260	1.62	Central California Coast Coho (Endangered), Central California Coast Steelhead (Threatened).

Map #	Caltrans District	County – Route – Post Mile	Stream Name	Tributary to	PAD ID #	Estimated Habitat	Species
<b>68 (new)</b>	<b>5</b>	<b><u>Santa Cruz – 9 – PM 5.94</u></b>	<b><u>Shingle Mill Creek</u></b>	<b><u>San Lorenzo River</u></b>	<b><u>712264</u></b>	<b><u>1.12</u></b>	<b><u>Central California Coast Steelhead (Threatened), Central California Coast Coho Salmon (Endangered)</u></b>
<b>69 (new)</b>	<b>5</b>	<b><u>Santa Cruz – 9 – PM 14.39</u></b>	<b><u>Two Bar Creek</u></b>	<b><u>San Lorenzo River</u></b>	<b><u>712764</u></b>	<b><u>3.35</u></b>	<b><u>Central California Coast Steelhead (Threatened), Central California Coast Coho Salmon (Endangered)</u></b>
70	7	Los Angeles – 1 – PM 54.97	Zuma Creek	Pacific Ocean	716906	3.99	Southern California Coast Steelhead (Endangered).
71	7	Ventura – 33 – PM 4.2	Canada Larga	Ventura River	759835	35.58	Southern California Coast Steelhead (Endangered).
72	7	Ventura – 33 – PM 15.85	North Fork Matilija Creek	Ventura River	731927	11.41	Southern California Coast Steelhead (Endangered).
73	7	Ventura – 126 – PM 18.6	Boulder Creek	Sespe Creek	723760	4.59	Southern California Coast Steelhead (Endangered).
74	7	Ventura – 126 – PM R26.48	Hopper Canyon Creek	Santa Clara River	713878	10.38	Southern California Coast Steelhead (Endangered).
75	7	Ventura – 150 – PM 18.75	San Antonio Creek	Ventura River	713873	10.35	Southern California Coast Steelhead (Endangered).
76	7	Ventura – 150 – PM 28.48	Sissar Creek	Santa Paula Creek	761522	10.26	Southern California Coast Steelhead (Endangered).
77	11	San Diego – 76 – PM 29.45	Pauma Creek <sup>4</sup>	San Luis Rey River	712680	5.74	Southern California Coast Steelhead (Endangered).

<sup>4</sup> In previous reports Trabuco Creek was reported as funded. Storm water Total Maximum Daily Load (TMDL) Credits had been negotiated with the State Water Board. In 2023 it was determined that the TMDL credits could not be honored so Caltrans Stormwater Program could no longer fund the project.

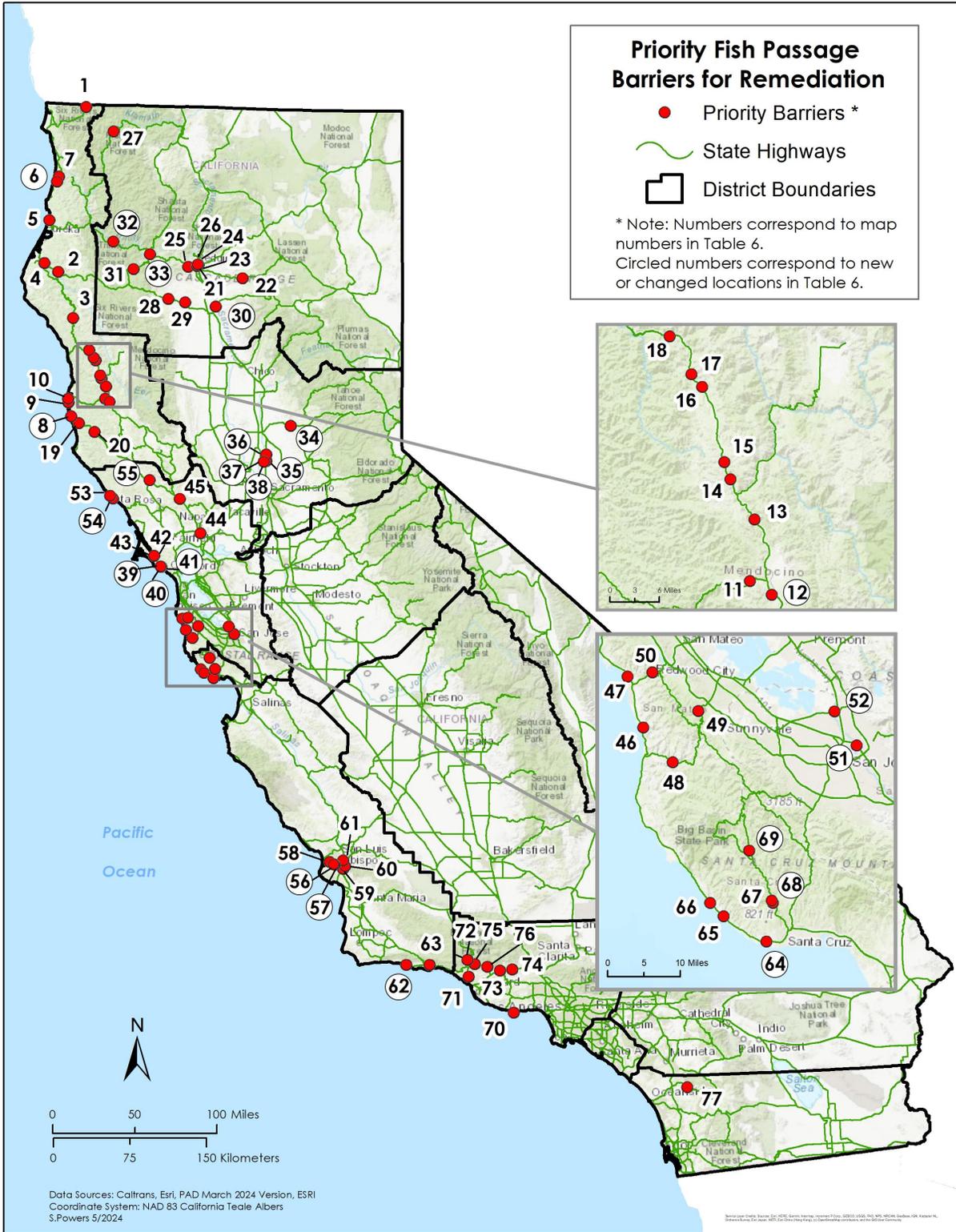


Figure 6. 2023 Priority Fish Passage Locations Requiring Funding.

## Appendix A. Fish Passage Locations Completed

Appendix A lists fish passage locations that have been either fully or partially remediated on the State Highway System since 2006, when Senate Bill 857 (Kuehl, Chapter 589, Statutes of 2005) was passed. Table 7 lists remediated barriers from January 1, 2006, to December 31, 2023. **Bold and underlined (new)** locations are new to this report and were constructed in 2020. The **66** locations listed in Appendix A account for an estimated **924.37 miles** of improved access to salmon and steelhead habitat. Figure 7 is a map of the locations listed in Table 7.

**Table 7. Fish Passage Locations Completed**

Map #	Caltrans District	County-Route- Post mile	Stream Name	Project Name	Year Completed	Treatment	PAD ID #	Estimated Habitat	Species
<b>1</b>	1	Del Norte – 101– 39.78	Dominie Creek	Dominie Creek Fish Passage	2022	Full Span	707134	2.49	Southern Oregon/Northern California Coast Coho (Threatened), Northern California Steelhead (Threatened).
<b>2</b>	1	Del Norte - 101 - PM 41.41	Ritmer Creek	Ritmer Creek Emergency	2019	Partial	707135	1.11	Southern Oregon/Northern California Coast Coho (Threatened).
<b>3</b>	1	Del Norte - 101 - PM 43.7	Lopez Creek	Smith River Widening	2009	Partial	715563	0.5	Southern Oregon/Northern California Coast Coho (Threatened).
<b>4</b>	1	Del Norte - 197 - PM 2.12	Peacock Creek	Peacock Creek Emergency	2013	Partial	720982	1.68	Southern Oregon/Northern California Coast Coho (Threatened).
<b>5</b>	1	Del Norte - 197 - PM 2.9	Unnamed Tributary to Smith River	Emergency Culvert	2019	Partial	712952	0.31	Southern Oregon/Northern California Coast Coho (Threatened).
<b>6</b>	1	Del Norte – 197 – PM 5.0	Sultan Creek	Emergency Bridge Project	2015	Full Span	707143	1.33	Southern Oregon/Northern California Coast Coho (Threatened).

Map #	Caltrans District	County-Route- Post mile	Stream Name	Project Name	Year Completed	Treatment	PAD ID #	Estimated Habitat	Species
7	1	Del Norte – 197 – PM 6.15	Little Mill Creek	Emergency Bridge Project	2016	Partial	707142	1	Southern Oregon/Northern California Coast Coho (Threatened).
8	1	Del Norte – 199 – PM 2.56	Clarks Creek	199 Culverts	2022	Partial	707139	3.69	Southern Oregon/Northern California Coast Coho (Threatened).
9	2	Del Norte – 199 – PM 31.31	Griffin Creek	199 Culverts	2022	Partial	707136	3.66	Southern Oregon/Northern California Coast Coho (Threatened).
10	1	Humboldt – 96 – 8.87	Campbell Creek	Hydraulic Channel Restoration	2022	Partial	707141	1.62	Southern Oregon/Northern California Coast Coho (Threatened), Northern California Steelhead (Threatened).
11	1	Humboldt - 101-PM 40.12	Chadd Creek	Chadd Creek Fish Passage	2006	Partial	722460	1.81	Southern Oregon/Northern California Coast Coho (Threatened), Northern California Steelhead (Threatened), California Coastal Chinook (Threatened).
12	1	Humboldt – 101 - PM 124.5	Little Lost Man	Prairie Creek	2020	Full Span	713025	1.21	Southern Oregon/Northern California Coast Coho (Threatened), Northern California Steelhead (Threatened).
13	1	Humboldt – 169 - PM 22.37	Cappell Creek	Four Bridges Project	2011	Partial	706198	0.5	Southern Oregon/Northern California Coast Coho (Threatened).

Map #	Caltrans District	County-Route- Post mile	Stream Name	Project Name	Year Completed	Treatment	PAD ID #	Estimated Habitat	Species
14	1	Humboldt – 299 - PM 4.2	Hall Creek	Mitigation Mad River Bridge	2013	Partial	716742	3.5	Southern Oregon/Northern California Coast Coho (Threatened), Northern California Steelhead (Threatened), California Coastal Chinook (Threatened).
15	1	Mendocino – 1 – PM 14.85	Point Arena Creek	Emergency Culvert	2019	Partial	712450	2.86	Southern Oregon/Northern California Coast Coho (Threatened), Northern California Steelhead (Threatened), California Coastal Chinook (Threatened).
16	1	Mendocino – 1 - PM 92.8	Dunn Creek Bridge	10 Mile Bridge Mitigation	2013	Full Span	706958	2.13	Southern Oregon/Northern California Coast Coho (Threatened), Northern California Steelhead (Threatened), California Coastal Chinook (Threatened).
17	1	Mendocino – 101 – PM 48.14	Upp Creek	Willits Mitigation	2017	Partial	705136	2.98	Southern Oregon/Northern California Coast Coho (Threatened), Northern California Steelhead (Threatened), California Coastal Chinook (Threatened).
18	1	Mendocino – 101 – PM 52.25	South Fork Ryan Creek	Willits Mitigation	2017	Partial	707085	2.52	Southern Oregon/Northern California Coast Coho (Threatened), Northern California Steelhead (Threatened), California Coastal Chinook (Threatened).

Map #	Caltrans District	County-Route- Post mile	Stream Name	Project Name	Year Completed	Treatment	PAD ID #	Estimated Habitat	Species
19	1	Mendocino – 101 – PM 52.36	North Fork Ryan Creek	Willits Mitigation	2017	Partial	707086	1.46	Southern Oregon/Northern California Coast Coho (Threatened), Northern California Steelhead (Threatened), California Coastal Chinook (Threatened).
20	1	Mendocino – 101 – PM 66.5	Ten Mile Creek	Culvert Scour Project	2017	Partial	707096	4.7	Southern Oregon/Northern California Coast Coho (Threatened), Northern California Steelhead (Threatened), California Coastal Chinook (Threatened).
21	1	Mendocino -- 101 – PM 81.4	Rattlesnake Creek	Rattlesnake Creek	2009	Partial	706986	2.59	Southern Oregon/Northern California Coast Coho (Threatened), Northern California Steelhead (Threatened), California Coastal Chinook (Threatened).
22	1	Mendocino -- 101 – PM 83.99	Rattlesnake Creek	Fish Passage	2013	Partial	706987	22.31	Southern Oregon/Northern California Coast Coho (Threatened), Northern California Steelhead (Threatened), California Coastal Chinook (Threatened).
23	1	Mendocino – 101 – PM 89.24	Cedar Creek	Cedar Creek Fish Passage Retrofit	2018	Partial	706954	11.91	Southern Oregon/Northern California Coast Coho (Threatened), Northern California Steelhead (Threatened), California Coastal Chinook (Threatened).

Map #	Caltrans District	County-Route- Post mile	Stream Name	Project Name	Year Completed	Treatment	PAD ID #	Estimated Habitat	Species
24	1	Mendocino - 101 – PM 99.0	Red Mountain Creek	Confusion Hill Mitigation	2010	Partial	707115	10.58	Southern Oregon/Northern California Coast Coho (Threatened), Northern California Steelhead (Threatened), California Coastal Chinook (Threatened).
25	1	Mendocino – 128 – PM 27.54	Graveyard Creek	Culvert Upgrade	2015	Partial	707205	1.22	Southern Oregon/Northern California Coast Coho (Threatened), Northern California Steelhead (Threatened), California Coastal Chinook (Threatened).
26	1	Mendocino – 128 – PM 36.63	Lost Creek	Culvert Upgrade	2015	Partial	707208	0.26	Northern California Steelhead (Threatened), California Coastal Chinook (Threatened), Central California Coast Coho (Endangered).
27	1	Mendocino – 128 – PM 39.88	Beebe Creek	Culvert Upgrade	2015	Partial	707212	0.07	Northern California Steelhead (Threatened), California Coastal Chinook (Threatened), Central California Coast Coho (Endangered).
28	1	Mendocino - 128 – PM 39.95	John Hatt Creek	Beebe Storm Damage	2011	Partial	713145	1.48	Northern California Steelhead (Threatened), California Coastal Chinook (Threatened), Central California Coast Coho (Endangered).

Map #	Caltrans District	County-Route- Post mile	Stream Name	Project Name	Year Completed	Treatment	PAD ID #	Estimated Habitat	Species
29	1	Mendocino - 128 - PM 49.66	Edwards Creek	Edwards Creek Fish Passage	2011	Partial	707219	0.62	Northern California Steelhead (Threatened), California Coastal Chinook (Threatened), Central California Coast Coho (Endangered).
30	2	Shasta - 5 - R24.54	Spring Branch Creek	Fish Passage Restoration	2022	Partial	759970	2.29	Southern Oregon\Northern California Coasts Coho Salmon (Threatened).
31	2	Shasta - 36 - PM 3.6	Harrison Gulch	Harrison Gulch	2018	Partial	737281	3.57	Southern Oregon\Northern California Coasts Coho Salmon (Threatened).
32	2	Shasta - 299 - PM 20.7	Salt Creek	Salt Creek Fish Passage Project	2006	Partial	737289	7.1	Central Valley Steelhead (Threatened), Central Valley Spring-run Chinook (Threatened), Sacramento River Winter-run Chinook (Endangered).
33	2	Shasta - 299 - PM 32.2	Yank (Lemm) Creek Bridge	Yank (Lemm) Creek Bridge	2014	Full Span	737295	14.66	Central Valley Steelhead (Threatened), Central Valley Spring-run Chinook (Threatened).
34	2	Siskiyou - 5 - PM 27.18	Parks Creek	Shasta River	2020	Full Span	720504	19.1	Southern Oregon\Northern California Coasts Coho Salmon (Threatened).
35	2	Siskiyou - 96 - PM 56.0	Fort Goff Creek	Fort Goff Creek Fish Passage	2014	Full Span	707168	3.98	Southern Oregon/Northern California Coast Coho (Threatened).
36	2	Siskiyou - 96 - PM 65.4	O'Neil Creek	O'Neil Creek Fish Passage	2008	Full Span	707147	0.89	Southern Oregon/Northern California Coast Coho (Threatened).

Map #	Caltrans District	County-Route- Post mile	Stream Name	Project Name	Year Completed	Treatment	PAD ID #	Estimated Habitat	Species
37	2	Tehama - 5 - PM 16.9	Elder Creek	Elder Creek Scour Mitigation	2008	Partial	737006	245.54	Central Valley Steelhead (Threatened), Central Valley Spring-run Chinook (Threatened), Sacramento River Winter-run Chinook (Endangered).
38	2	Tehama - 5 - PM 28.1	Dibble Creek	Dibble Creek Scour Mitigation	2008	Partial	737007	94.3	Central Valley Steelhead (Threatened), Central Valley Spring-run Chinook (Threatened), Sacramento River Winter-run Chinook (Endangered).
39	2	Tehama - 99 - PM 15.6	Sunset Canal	Sunset Canal Bridge	2010	Partial	737013	6.12	Central Valley Steelhead (Threatened), Central Valley Spring-run Chinook (Threatened), Sacramento River Winter-run Chinook (Endangered).
40	2	Tehama - 99 - PM 21.1	Craig Creek	Craig Creek	2011	Full Span	737012	165.44	Central Valley Steelhead (Threatened), Central Valley Spring-run Chinook (Threatened), Sacramento River Winter-run Chinook (Endangered).
<u>41</u> <u>(new)</u>	<u>2</u>	<u>Trinity - 3 - PM 24.95</u>	<u>Unnamed / Frazier Creek</u>	<u>Hayfork Mountain Culverts</u>	<u>2023</u>	<u>Partial</u>	<u>735849</u>	<u>1.38</u>	<u>Southern Oregon/Northern California Coho (Threatened), California Coastal Chinook (Threatened), Northern California Steelhead (Threatened).</u>

Map #	Caltrans District	County-Route- Post mile	Stream Name	Project Name	Year Completed	Treatment	PAD ID #	Estimated Habitat	Species
42	2	Trinity – 3 – PM 25.25	Unnamed/ Frazier Creek	Hayfork Mountain Culverts	2022	Partial	760686	1.7	Southern Oregon/Northern California Coho (Threatened), California Coastal Chinook (Threatened), Northern California Steelhead (Threatened).
43	2	Trinity – 299 – PM 68.06	Little Grass Valley Creek	Little Grass Valley Creek Fish Passage	2015	Partial	720511	0.14	Southern Oregon/Northern California Coast Coho (Threatened).
44	2	Trinity – 299 – PM 68.2	Little Grass Valley Creek	Little Grass Valley Creek Fish Passage	2015	Partial	735688	12.32	Southern Oregon/Northern California Coast Coho (Threatened).
45	4	Alameda – 84 – 121.1	Stonybrook Creek	Niles Canyon	2022	Full Span	713729	7.01	Northern California Steelhead (Threatened), Central California Coast Coho (Endangered), California Coastal Chinook (Threatened).
46	4	Contra Costa – 80 – PM 8.4	Pinole Creek	Pinole Creek Bridge Retrofit	2016	Partial	723716	28.23	Central California Coast Coho (Endangered), Central California Coast Steelhead (Threatened).
47	4	Marin – 1 – PM 22.78	Giacomini Gulch	Giacomini Gulch Bridge	2018	Full Span	706058	1.56	Central California Coast Coho (Endangered), Central California Coast Steelhead (Threatened).
48	4	Marin – 1 – PM 24.77	Tributary to Olema Creek	Tributary to Olema Creek Bridge	2018	Full Span	732502	0.79	Central California Coast Coho (Endangered), Central California Coast Steelhead (Threatened).
49	4	Marin – 1 – PM 33.4	Millerton Gulch	Millerton Gulch Emergency	2017	Partial	732518	0.76	Central California Coast Coho (Endangered), Central California Coast Steelhead (Threatened).

Map #	Caltrans District	County-Route- Post mile	Stream Name	Project Name	Year Completed	Treatment	PAD ID #	Estimated Habitat	Species
50	4	Napa – 121 – PM 0.75	Huichica Creek	Hiuchica Creek Bridge Replacement	2022	Full Span	714975	7.82	Central California Coast Steelhead Trout (Threatened), Central California Coast Coho (Endangered).
51	4	Napa - 121 – PM 1.0	Huichica Creek	Duhig Road Project	2010	Full Span	733333	1.33	Central California Coast Coho (Endangered), Central California Coast Steelhead (Threatened).
52	4	Napa – 121 – PM 9.3	Sarco Creek	Sarco Creek Bridge	2017	Partial	758605	8.7	Central California Coast Coho (Endangered), Central California Coast Steelhead (Threatened).
53	4	Santa Clara – 85 – PM 12.6	San Tomas Aquinas Creek	Sub-Structure Rehab/Scour Mitigation	2022	Partial	733945	4.9	Central California Coast Steelhead (Threatened).
<b><u>54</u></b> <b><u>(new)</u></b>	<b><u>4</u></b>	<b><u>Sonoma – 1 – PM 15.1</u></b>	<b><u>Scotty Creek</u></b>	<b><u>Gleason Beach Highway Realignment</u></b>	<b><u>2023</u></b>	<b><u>Full Span</u></b>	<b><u>733223</u></b>	<b><u>3.87</u></b>	<b><u>Central California Coast Steelhead Trout (Threatened), Central California Coast Coho (Endangered).</u></b>
55	4	Sonoma – 116 – PM 31.14	Laguna de Santa Rosa	Laguna de Santa Rosa	2020	Full Span	732859	2.24	Central California Coast Coho (Endangered), Central California Coast Steelhead (Threatened).
56	5	Santa Barbara—1— PM 15.61	Salsipuedes Creek	Santa Ynez River	2020	Full Span	700085	101.81	Southern California Steelhead (Endangered).
57	5	Santa Barbara – 101 – PM 2.2	Carpinteria Creek	Carpinteria Creek Retrofit	2018	Full Span	707182	12.22	Southern California Steelhead (Endangered).
58	5	Santa Barbara - 101 – PM 33.9	El Capitan Creek	El Capitan Creek	2007	Partial	707398	6.34	Southern California Steelhead (Endangered).

Map #	Caltrans District	County-Route- Post mile	Stream Name	Project Name	Year Completed	Treatment	PAD ID #	Estimated Habitat	Species
59	5	Santa Barbara – 101 – PM 38.3	Tajiguas Creek	Tajiguas Creek	2014	Partial	707403	8.2	Southern California Steelhead (Endangered).
60	5	Santa Barbara - 101 – PM 41.0	Arroyo Hondo Creek	Arroyo Hondo	2008	Partial	707405	2	Southern California Steelhead (Endangered).
61	5	Santa Barbara - 101 – PM 47.2	Gaviota Creek	Gaviota Creek	2008	Partial	706669	25.6	Southern California Steelhead (Endangered).
62	5	Santa Barbara – 192 – 8.12	Montecito Creek	Montecito Creek Bridge	2022	Full Span	706527	3.02	Southern California Coast Steelhead (Endangered).
63	5	Santa Barbara – 192 – PM 15.5	Arroyo Paredon Creek	Bridge Replacement	2019	Full Span	706239	1.2	Southern California Steelhead (Endangered).
64	5	Santa Cruz - 1 – PM 17.4	Branciforte Creek	Hwy 1 Remediation	2007	Partial	735367	18	Central California Coast Steelhead (Threatened), Central California Coast Coho (Endangered).
65	5	Santa Cruz - 1 – PM 17.42	Carbonera Creek	Hwy 1 Remediation	2008	Partial	735366	3.23	Central California Coast Steelhead (Threatened), Central California Coast Coho (Endangered).
66	12	Orange – 74 – PM 13.30	San Juan Creek	San Juan Creek Fish Passage	2018	Full Span	759565	4.91	Southern California Steelhead (Endangered).

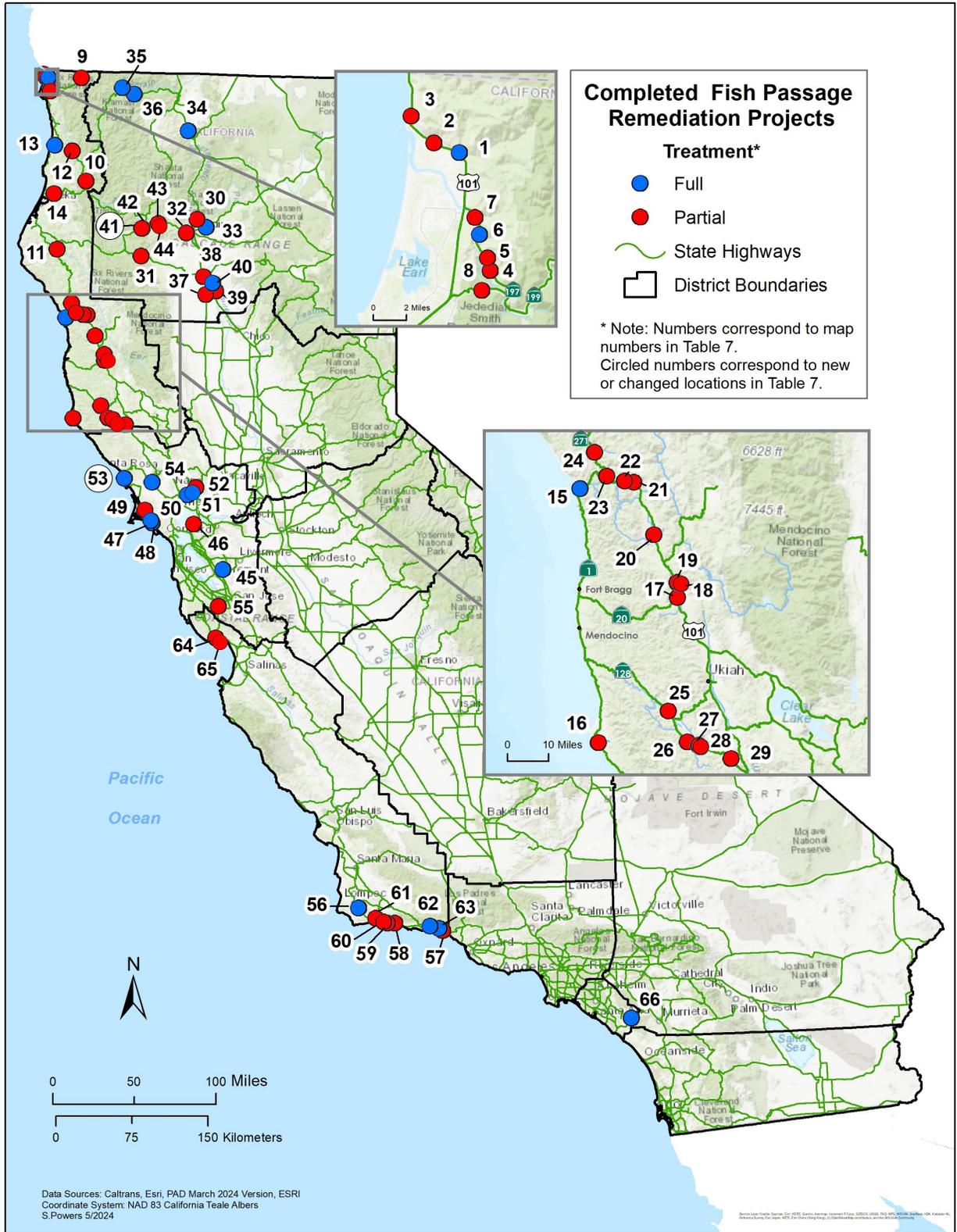


Figure 7. Fish Passage Locations Completed.

## Appendix B. Statutory Reporting Reference

Streets and Highways Code Section 156 became effective January 1, 2006, per Senate Bill 857 (Kuehl, Chapter 589, Statutes of 2005) and was amended by AB 95 (Committee on Budget, Chapter 12, Statutes of 2015).

**156.1.** (a) The Director of Transportation shall prepare an annual report describing the status of the department's progress in locating, assessing, and remediating barriers to fish passage. This report shall be given to the Legislature by October 31 of each year through the year 2025.

(b) Each report issued after October 31, 2016, shall include a status report on the remediation of barriers to fish passage on projects that have been identified pursuant to Section 156.5. The status report shall include, but is not limited to, all of the following information regarding a project identified pursuant to Section 156.5:

(1) Any updated information received by the department from the Department of Fish and Wildlife regarding the barriers to fish passage on the project.

(2) Whether funding has been committed to the project.

(3) The source of any funding for the project.

(4) The budget summary of the project.

(5) The status of inspections of culverts to ensure they are functioning properly and any other actions by the department to assess or remediate barriers to fish passage.

(6) The applicable program initiation document work plan review.

(7) The estimated completion date for the project.

**156.2.** The department shall pursue development of a programmatic environmental review process with appropriate state and federal regulatory agencies for remediating barriers to fish passage that will streamline the permitting process for projects. The department shall include a description of its progress on this review process in the report specified in Section 156.1.

**156.3.** For any project using state or federal transportation funds programmed after January 1, 2006, the department shall ensure that, if the project affects a stream crossing on a stream where anadromous fish are, or historically were, found, an assessment of potential barriers to fish passage is completed prior to commencing project design. The department shall submit the assessment to the Department of Fish and Wildlife and add it to the Passage Assessment Database. If any structural barrier to passage exists, remediation of the barrier shall be designed into the project by the implementing agency. New projects shall be constructed so that they do not present a barrier to fish passage. When barriers to fish passage are being addressed, plans and projects shall be developed in consultation with the Department of Fish and Wildlife.

## Appendix C. 2023 Active Fish Passage Remediation Locations Funding

This table represents current available funding information for the 37 active locations that are being developed, consistent with Table 4. As these fish passage remediation locations are further developed through the design, permitting, and construction process, costs and schedule information will be updated.

No.	District	County – Route – Post Mile	EA	Project ID	Project Name	Programming Document <sup>5</sup>	PAD ID #	Stream Name	Estimated Year of Construction	Estimated Year Construction Completed	Total Programmed Fish Passage Project Funding <sup>6</sup>
1	1	Del Norte – 101 – PM 37.46	OK690	120000135	Tributary to Morrison Creek Fish Passage	SHOPP	712951	Mello Creek	2027/28	2028/29	\$9,314,000
2	1	Del Norte – 101 – PM 40.6	OK690	0120000135	DN 101 Drainage	SHOPP	761539	Delilah Creek	2027/28	2028/29	<b><u>\$1,000,000</u></b>
3	1	Humboldt – 36 – PM 4.39	OJ890	119000119	Carlotta Shoulder Widening	SHOPP	712971	Ward Creek	2023/24	2024/25	<b><u>\$5,000,000</u></b>
4	1	Humboldt – 101 – PM 0.88	OH641	123000062	Hartsook Creek Fish Passage	SHOPP	707160	Hartsook Creek	2025/26	2026/27	<b><u>\$5,800,000</u></b>
5	1	Humboldt – 254 – PM 4.18	OE790	115000021	Construct Bridge - Fish Passage Remediation	SHOPP	707157	Fish Creek	2023/23	2024/25	\$17,312,000
6	1	Humboldt – 254 – PM 8.13	OH240	117000140	HUM 254 Culvert Rehabilitation	SHOPP	713038	Unnamed Tributary to South Fork Eel	2025/26	2027/28	<b><u>\$600,000</u></b>
7	1	Humboldt – 254 – PM 15.04	OH240	117000140	HUM 254 Culvert Rehabilitation	SHOPP	713040	Mowry Creek	2025/26	2027/28	<b><u>\$7,000,000</u></b>
8	1	Humboldt – 254 – PM 16.44	OH240	117000140	HUM 254 Culvert Rehabilitation	SHOPP	713042	Unnamed Tributary to South Fork Eel	2025/26	2027/28	<b><u>\$450,000</u></b>
9	1	Humboldt – 254 – PM 40.83	OH240	117000140	HUM 254 Culvert Rehabilitation	SHOPP	722439	Chadd Creek	2025/26	2027/28	<b><u>\$7,000,000</u></b>
<b><u>10</u></b> <b><u>(new)</u></b>	<b><u>1</u></b>	<b><u>Mendocino – 1 – PM 4.64</u></b>	<b><u>OF650</u></b>	<b><u>116000041</u></b>	<b><u>Fish Passage Remediation</u></b>	<b><u>SHOPP/IIJA Culvert AOP grant</u></b>	<b><u>713068</u></b>	<b><u>Fish Rock Gulch</u></b>	<b><u>2025/26</u></b>	<b><u>2026/27</u></b>	<b><u>\$11,068.500</u></b>
<b><u>11</u></b> <b><u>(new)</u></b>	<b><u>1</u></b>	<b><u>Mendocino – 1 – PM 58.78</u></b>	<b><u>OF650</u></b>	<b><u>116000041</u></b>	<b><u>Fish Passage Remediation</u></b>	<b><u>SHOPP/IIJA Culvert AOP grant</u></b>	<b><u>707072</u></b>	<b><u>Digger Creek</u></b>	<b><u>2025/26</u></b>	<b><u>2025/27</u></b>	<b><u>\$11,068.500</u></b>
12	1	Mendocino – 128 – PM 7.27	OK680	120000134	Navarro River	SHOPP	707187	Mustard Gulch	2027/28	2028/29	<b><u>\$5,800,000</u></b>
13	2	Siskiyou – 96 – PM 43.5	1H590	216000025	Cade Creek	SHOPP	720541	Cade Creek	2022/23	2023/24	<b><u>\$9,877,000</u></b>
14	2	Siskiyou – 96 – PM 57	1H590	216000025	Portuguese Creek	SHOPP	707169	Portuguese Creek	2022/23	2023/24	<b><u>\$9,958,000</u></b>
15	4	Marin – 1 – PM 21.06	2Q53U	422000077	Marin 1 Culvert Project	SHOPP	732665	Unnamed Tributary to Olema Creek	2025/26	2026/27	\$11,858,000
16	4	Napa – 29 – PM 33.13	4J990	416000037	Ritchie Creek Fish Passage Remediation	SHOPP	705459	Ritchie (Ritchey) Creek	2021/22	2023/23	\$12,813,000
17	4	Napa – 29 – PM 38.96	2J88U	418000401	Bridge Preventative Maintenance and Scour Mitigation Project	SHOPP	705526	Horns Creek	2025/26	2026/27	<b><u>\$7,609,000</u></b>
18	4	San Mateo – 280 – PM 0.01	4J850	416000028	Seismic Restoration - King Dr. UC #35-0202L/R, Serramo	SHOPP	705760	Los Trancos Creek	2023/23	2023/23	<b><u>\$2,100,000</u></b>
19	5	Santa Barbara – 101 – PM R0.0	1J911	521000086	Rincon Creek Fish Passage Remediation	SHOPP	707368	Rincon Creek	2028/29	2029/30	\$19,257,000

<sup>5</sup> Abbreviations for Program Document: SHOPP = State Highway Operation and Protection Program, and STIP = State Transportation Improvement Program.

<sup>6</sup> This column lists the programmed transportation funding for fish passage remediation locations based on the best available project information. The **bold and underlined** costs are ranges of costs for the identified fish passage solution type, since the true programmed amount includes funding for greater project efforts which are not related to fish passage.

No.	District	County – Route – Post Mile	EA	Project ID	Project Name	Programming Document <sup>5</sup>	PAD ID #	Stream Name	Estimated Year of Construction	Estimated Year Construction Completed	Total Programmed Fish Passage Project Funding <sup>6</sup>
20	5	Santa Barbara – 101 – PM R5.6	0N702	518000113	South Coast 101 HOV Lanes - Padaro	STIP	734310	Arroyo (Parida) Paredon Creek	2023/24	2024/25	<b><u>\$6,500,000</u></b>
21	5	Santa Barbara – 101 – PM 5.63	1C8B3	0521000072	South Coast 101 HOV Lanes	SHOPP/STIP	734309	Toro Creek	2025/26	2027/28	<b><u>\$800,000</u></b>
22	5	Santa Barbara – 101 – PM 9.4	0N70B	518000131	South Coast 101 HOV Lanes - Montecito	STIP	705161	Romero Creek	2024/25	2025/26	<b><u>\$4,500,000</u></b>
23	5	Santa Barbara – 101 – PM 9.6	0N70B	518000131	South Coast 101 HOV Lanes - Montecito	STIP	734342	San Ysidro Creek	2024/25	2025/26	<b><u>\$4,500,000</u></b>
24	5	Santa Barbara – 101 – PM 10.51	0N70B	518000131	South Coast 101 HOV Lanes - Montecito	STIP	734353	Oak Creek	2024/25	2025/26	<b><u>\$4,500,000</u></b>
<b><u>25 (new)</u></b>	<b><u>5</u></b>	<b><u>Santa Barbara – 101 – PM 21.63</u></b>	<b><u>1H430</u></b>	<b><u>516000073</u></b>	<b><u>San Jose Ck Bridge Replacement</u></b>	<b><u>SHOPP</u></b>	<b><u>734429</u></b>	<b><u>San Jose Creek</u></b>	<b><u>2022/23</u></b>	<b><u>2023/24</u></b>	<b><u>\$29,651,000</u></b>
26	5	Santa Barbara – 101 – PM 36.7	1C950	513000018	Refugio Creek Bridge Replacement	SHOPP	707402	Refugio Creek	2022/23	2024/25	\$5,900,000
27	5	Santa Barbara – 101 – PM 46.92	1N830	521000132	Channel Restoration	SHOPP	706655	Gaviota Creek	2029/30	2030/31	<b><u>\$4,080,000</u></b>
28	5	Santa Barbara – 101 – PM 46.95	1N830	521000132	Channel Restoration	SHOPP	706656	Gaviota Creek	2029/30	2030/31	<b><u>\$4,080,000</u></b>
29	5	Santa Barbara – 101 – PM 47.12	1N830	521000132	Channel Restoration	SHOPP	706657	Gaviota Creek	2029/30	2030/31	<b><u>\$4,080,000</u></b>
30	5	Santa Barbara – 101 – PM 47.15	1N830	521000132	Channel Restoration	SHOPP	706658	Gaviota Creek	2029/30	2030/31	<b><u>\$4,080,000</u></b>
31	5	Santa Barbara – 101 – PM 47.19	1N830	521000132	Channel Restoration	SHOPP	706659	Gaviota Creek	2029/30	2030/31	<b><u>\$4,080,000</u></b>
32	5	Santa Barbara – 101 – PM R49.38	1N830	521000132	Gaviota Creek Barrier Remediation	SHOPP	706388	Gaviota Creek	2029/30	2030/31	<b><u>\$6,000,000</u></b>
33	5	Santa Cruz – 9 – PM 19.2	1K901	0523000059	Waterman Gap	SHOPP	713774	San Lorenzo River	2025/26	2026/27	\$13,145,000
34	7	Los Angeles – 1 – PM 50.3	31350	715000090	LA-001- Drainage Improvement	SHOPP	705781	Solstice Creek	2023/24	2025/26	\$36,248,131
<b><u>35 (new)</u></b>	<b><u>7</u></b>	<b><u>Los Angeles – 1 – PM 56.71</u></b>	<b><u>29140</u></b>	<b><u>712000094</u></b>	<b><u>Bridge Replacement</u></b>	<b><u>SHOPP</u></b>	<b><u>736633</u></b>	<b><u>Trancas Creek</u></b>	<b><u>2020/21</u></b>	<b><u>2022/23</u></b>	\$69,058,000
36	7	Ventura – 1 – PM 4.54	36010	719000268	Big Sycamore Canyon Bridge Replacement	SHOPP	723631	Big Sycamore Canyon	2027/28	2028/29	\$56,344,000
37	7	Ventura – 33 – PM 7.62	29130	712000083	Scour Mitigation & Rail Upgrade	SHOPP	713867	San Antonio Creek	2018/19	2022/23	\$15,849,000
<b>Total Estimated Fish Passage Funding Investment</b>											<b><u>\$360,000,000 - \$370,000,000</u></b>