

# *El Dorado County River Management Plan Annual Report 2024*



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### 2024 El Dorado County River Management Plan Annual Report

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# El Dorado County River Management Plan

## 2024 Annual Report

### ***INTRODUCTION***

The El Dorado County River Management Plan (RMP) 2024 Annual Report provides information on the 2024 river season and ongoing RMP implementation. The RMP has been written as an adaptive management plan and the Annual River Report is written with adaptive management goals in mind. This report will identify what has been successful and where we can improve. It will also identify suggested goals for 2025.

In December of 2023 the long time Parks Manager, Vickie Sanders retired. The new Parks Manager, Zachary Perras was hired and came on board in March of 2024. Zachary worked for the City of Folsom, where he spent the last five years as the Municipal Landscape Services (MLS) Manager in the Parks and Recreation Department. Zachary holds a bachelor's degree in Environmental Science with an option in Environmental Systems and Resource Management from California State University East Bay.

The Parks Division wishes Vickie a great retirement and welcomes Zachary.

### ***ADAPTIVE MANAGEMENT***

#### ***Goals from the 2023 report, implemented in 2024***

- 1) Once again get a tuber count as this is a great way to measure the use and success of having staff in this section for compliance. River staff continued counting Inner Tubers at the highway 49 bridge in Coloma, as well as spending more time monitoring the Coloma river corridor between Troublemaker rapid and Henningsen Lotus Park. There were many opportunities to address Tubers not wearing Personal Floatation Devices (PFD's) launching from Marshall Gold State Park. Staff often counseled people that had PFD's in their possession, but not wearing them. Inner Tuber Counts are included in this report, beginning on page 9.
- 2) Increase county presence at the Marshall Gold put-in, addressing the users prior to putting on the water. County staff stages at the North Beach and provides information to boaters launching, focusing on Inner Tubers.
- 3) Maintain a presence on the water. County staff utilized the various launch areas to engage with the public before going down river to monitor river traffic and private property.
- 4) Continued Life Jacket education campaign as well and increase awareness about trash and glass on the river. Education remains our primary objective as required by the RMP Element I . Park Staff continued to inform public about the no-glass containers, life jacket ordinance and monitoring private property for trespassers. We continued to maintain a

strong presence in the Coloma to Greenwood (CtoG) segment of the river where a lot of private property owners are located. El Dorado Sheriff deputy, Julian Sandoval, returned this year for river patrols. Deputy Sandoval was able to partner with several deputies on the river, providing assistance and law enforcement when necessary.

- 5) Rebuilt the boat ramp area at Henningsen Lotus Park, damaged by the flooding in December/January. Install new signs and bollards. The Boat Ramp rock debris that was left over from flooding was removed and the Boat Ramp area was graded to the same level as the parking lot.
- 6) Conduct more boater counts at Barking Dog to get better Middle section (Coloma to Greenwood) use data. County staff was able to count boats a few days at Camp Lotus. Combined with boat counts at Hwy 49, we were able to observe more middle river traffic.
- 7) Explore options to assist with getting people of all abilities access to the river. The University of California, Davis Landscape Architecture class created five renditions of possible improvements to the undeveloped acreage downstream from the main parking area. County staff will continue to explore possibilities and funding to develop this area into a more useable area.
- 8) Continue River clean up days. In cooperation with several outfitters, ARC, and BLM there were two river clean up days.
- 9) The River Management Plan, Chapter IV -RMP Review and Revision Process identifies the process for a Five-Year Periodic Review. Staff compiled statistics and information from 2018 to 2024. Discussed with outfitters possible changes and improvements and will present the Five Year review to the Parks commissions and Board of Supervisors.

### ***Goals set in 2024 for implementation in 2025***

In 2025 we hope to:

- 1) Continue Inner Tuber counts at Hwy 49 as this is a great way to measure the use of the river by Tubers and success of having staff in this section for compliance.
- 2) Increase county staff presence at the Marshall Gold put-in, addressing the users about the quiet zone, glass containers. PFD's and other river information prior to putting on the water.
- 3) Increase presence to enforce and advise compliance on the river in all sections. Staff openings for additional county staff were created.
- 4) Continue Life Jacket education campaign with staff engagement and signage, as well as increase public awareness about trash and glass on the river.
- 5) Keep the boat ramp area at Henningsen Lotus Park clear of beach users and debris. Advise boaters to utilize the boat ramp instead of the beach for launching.
- 6) Conduct more boater counts at Barking Dog to monitor Middle section (C to G) boat traffic and outfitter compliance of the RMP guidelines.
- 7) Explore options to assist with getting people of all abilities access to the river. Research portable wheel chair ramps or walkways for beach access.
- 8) Continue River clean up days. Contact outfitters and local agencies to coordinate.
- 9) Identify possible funding sources for land improvements for river access. Research possible grants or other sources for increasing river access.

## RIVER VALLEY

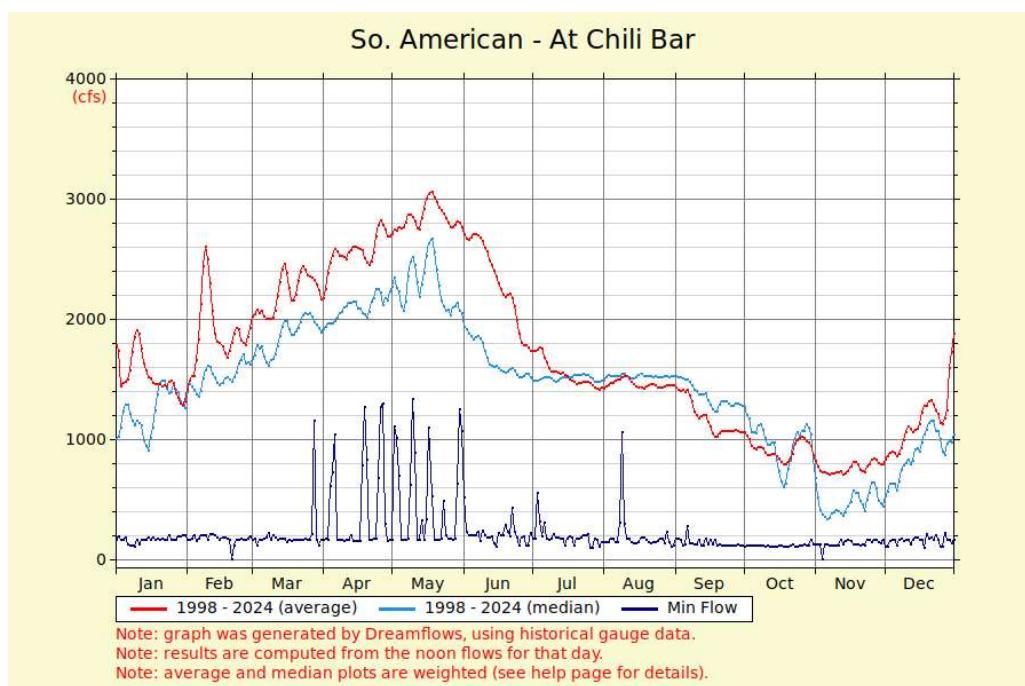
The 21-mile section of the South Fork of the American River from Chili Bar Dam to Folsom Reservoir continues to be one of the most rafted and kayaked rivers in the State of California.

Seven miles of this river flows through the Coloma Lotus Valley, a well-known historic and national recreational destination. There are four large public campgrounds: Camp Lotus, Coloma Resort, American River Resort and Ponderosa Campground in addition to numerous outfitter campgrounds on the river. Marshall Gold Discovery State Historic Park, Henningsen Lotus County Park, and several Bureau of Land Management (BLM) parcels situated along the river are used by thousands of visitors annually, including Dave Moore Park. Public trails provide access to the river and, in some areas, run adjacent to the river at either end of the valley. Public access to the river is also available at the State Highway 49 Bridge. The number and diversity of recreational facilities and privately owned properties along the river, combined with the annually scheduled recreational water release flows, make the South Fork of the American River a globally recognized destination for Class II-III boating and other forms of river recreation.

## WATER FLOWS

The precipitation for 2023/2024 was a below average year.

The complete California Department of Water Resources Bulletin 120 (May 1, 2024) report is available at <http://cdec.water.ca.gov/snow/bulletin120/>.



*Daily average and median South Fork of the American River flow as recorded at Chili Bar 1998-2024*

The water year type in 2024 was designated as a “Below Normal” year. The water year type designation prescribes the minimum release schedule out of Chili Bar Reservoir for river recreation. The Federal Energy Regulatory Commission (FERC) licenses for Sacramento Municipal Utility District’s and Pacific Gas and Electric’s dams on the South Fork of the American River require regular recreational releases. In late summer of 2021, Sacramento Municipal Utility District acquired Chili Bar Dam from Pacific Gas and Electric.

The change in water year type from 2023 to 2024 resulted in fewer releases than the previous year.

The chart below explains the Water Year Type designations with corresponding minimum flow schedules out of Chili Bar Dam, per the FERC licenses.

**Table 1:** Chili Bar Dam Release Schedule by Water year Type (Note: 2024 was a “Below Normal” water year)

| Minimum Recreational Flow for SF American River below Chili Bar Dam by Water Year Type, Duration and Flow in cfs |  |              |              |              |              |              |              |              |
|--|--|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Water Year Type  | Period                                 | Monday       | Tuesday      | Wednesday    | Thursday     | Friday       | Saturday     | Sunday       |
| Super Dry  | April 1 - Friday before Memorial Day   | 3 Hrs @ 1300 | ---          | ---          | ---          | ---          | 3 Hrs @ 1300 | 3 Hrs @ 1300 |
|  | Memorial Day - Labor Day <sup>1</sup>  | 3 Hrs @ 1300 | ---          | ---          | 3 Hrs @ 1300 | 3 Hrs @ 1300 | 5 Hrs @ 1300 | 5 Hrs @ 1300 |
|  | Tuesday after Labor Day - September 30 | ---          | ---          | ---          | ---          | ---          | 3 Hrs @ 1300 | 3 Hrs @ 1300 |
|  | October 1 - March 31                   | ---          | ---          | ---          | ---          | ---          | 3 Hrs @ 1300 | ---          |
| Critically Dry   | March 1 - Friday before Memorial Day   | 3 Hrs @ 1300 | ---          | ---          | ---          | ---          | 3 Hrs @ 1300 | 3 Hrs @ 1300 |
|  | Memorial Day - Labor Day <sup>1</sup>  | 3 Hrs @ 1300 | ---          | ---          | 3 Hrs @ 1300 | 3 Hrs @ 1300 | 5 Hrs @ 1500 | 5 Hrs @ 1500 |
|  | Tuesday after Labor Day - September 30 | ---          | ---          | ---          | ---          | 3 Hrs @ 1300 | 3 Hrs @ 1300 | 3 Hrs @ 1300 |
|  | October 1 - February 28/29             | ---          | ---          | ---          | ---          | ---          | 3 Hrs @ 1300 | ---          |
| Dry  | March 1 - Friday before Memorial Day   | 3 Hrs @ 1300 | 3 Hrs @ 1300 | ---          | ---          | 3 Hrs @ 1300 | 3 Hrs @ 1500 | 3 Hrs @ 1500 |
|  | Memorial Day - Labor Day <sup>1</sup>  | 3 Hrs @ 1300 | 3 Hrs @ 1300 | ---          | 3 Hrs @ 1300 | 3 Hrs @ 1300 | 5 Hrs @ 1500 | 5 Hrs @ 1500 |
|  | Tuesday after Labor Day - September 30 | ---          | ---          | ---          | ---          | 3 Hrs @ 1300 | 3 Hrs @ 1300 | 3 Hrs @ 1300 |
|  | October 1 - February 28/29             | ---          | ---          | ---          | ---          | ---          | 3 Hrs @ 1300 | 3 Hrs @ 1300 |
| Below Normal   | March 1 - Friday before Memorial Day   | 3 Hrs @ 1300 | 3 Hrs @ 1300 | ---          | 3 Hrs @ 1300 | 3 Hrs @ 1300 | 3 Hrs @ 1500 | 3 Hrs @ 1500 |
|  | Memorial Day - Labor Day <sup>1</sup>  | 3 Hrs @ 1300 | 3 Hrs @ 1300 | ---          | 3 Hrs @ 1300 | 3 Hrs @ 1300 | 6 Hrs @ 1500 | 6 Hrs @ 1500 |
|  | Tuesday after Labor Day - September 30 | ---          | ---          | ---          | 3 Hrs @ 1300 | 3 Hrs @ 1300 | 3 Hrs @ 1500 | 3 Hrs @ 1500 |
|  | October 1 - 31                         | 3 Hrs @ 1300 | ---          | ---          | ---          | 3 Hrs @ 1300 | 3 Hrs @ 1500 | 3 Hrs @ 1500 |
|  | November 1 - February 28/29            | ---          | ---          | ---          | ---          | ---          | 3 Hrs @ 1300 | 3 Hrs @ 1300 |
| Above Normal   | March 1 - Friday before Memorial Day   | 3 Hrs @ 1300 | 4 Hrs @ 1750 | 4 Hrs @ 1750 |
|  | Memorial Day - Labor Day <sup>1</sup>  | 3 Hrs @ 1500 | 6 Hrs @ 1750 | 6 Hrs @ 1750 |
|  | Tuesday after Labor Day - September 30 | ---          | ---          | ---          | 3 Hrs @ 1500 |
|  | October 1 - 31                         | 3 Hrs @ 1300 | ---          | ---          | ---          | 3 Hrs @ 1300 | 3 Hrs @ 1500 | 3 Hrs @ 1500 |
|  | November 1 - February 28/29            | ---          | ---          | ---          | ---          | ---          | 3 Hrs @ 1500 | 3 Hrs @ 1500 |
| Wet  | March 1 - Friday before Memorial Day   | 3 Hrs @ 1500 | 6 Hrs @ 1750 | 6 Hrs @ 1750 |
|  | Memorial Day - Labor Day <sup>1</sup>  | 4 Hrs @ 1500 | 6 Hrs @ 1750 | 6 Hrs @ 1750 |
|  | Tuesday after Labor Day - September 30 | ---          | ---          | ---          | 3 Hrs @ 1500 |
|  | October 1 - 31                         | 3 Hrs @ 1300 | ---          | ---          | ---          | 3 Hrs @ 1300 | 3 Hrs @ 1500 | 3 Hrs @ 1500 |
|  | November 1 - February 28/29            | ---          | ---          | ---          | ---          | ---          | 3 Hrs @ 1500 | 3 Hrs @ 1500 |

<sup>1</sup>The “Memorial Day – Labor Day” period refers to Saturday of Memorial Day weekend through Monday of Labor Day weekend.

## ***RIVER USE***

Spring runoff (snowmelt) behind dams that control the river level on the South Fork usually begins in May. Whitewater flows on the river have only been available consistently from year to year because of the Federal Energy Regulatory Commission (FERC) licenses' minimum recreational water flow requirements.

There are approximately 30 weekend days annually between Memorial Day weekend and Labor Day weekend. Based on prior year counts, a conservative estimate of use for the Coloma to Greenwood Creek (C to G) run could easily be 9,000 people, based on an estimated average of 300 people per weekend day.

Coloma to Greenwood Creek (C to G) is about 5 miles of class II. This section, in the Coloma Lotus Valley continues to be a popular section of the river. Many types of boaters utilize this section of river, including rafters, kayakers, Stand up Paddle boarders (SUPs) and inner tubers. Along with downriver floats, many skills classes and trainings are given by permitted outfitters. Usage includes multiple runs, use during minimal flow and non-scheduled release days. Many people also access alternative put-ins and take-outs.

There was a significant drop in commercial river use this year. Over 7000 fewer user days have been reported for 2024. Although the water year designation was below normal, recreational releases from SMUD continued for 6 days a week past Labor Day.

Commercial use in 2023 was 72,001 user days. Reported use for 2024 ended up with about 64,761 users.

## ***RIVER USE PREFERENCES***

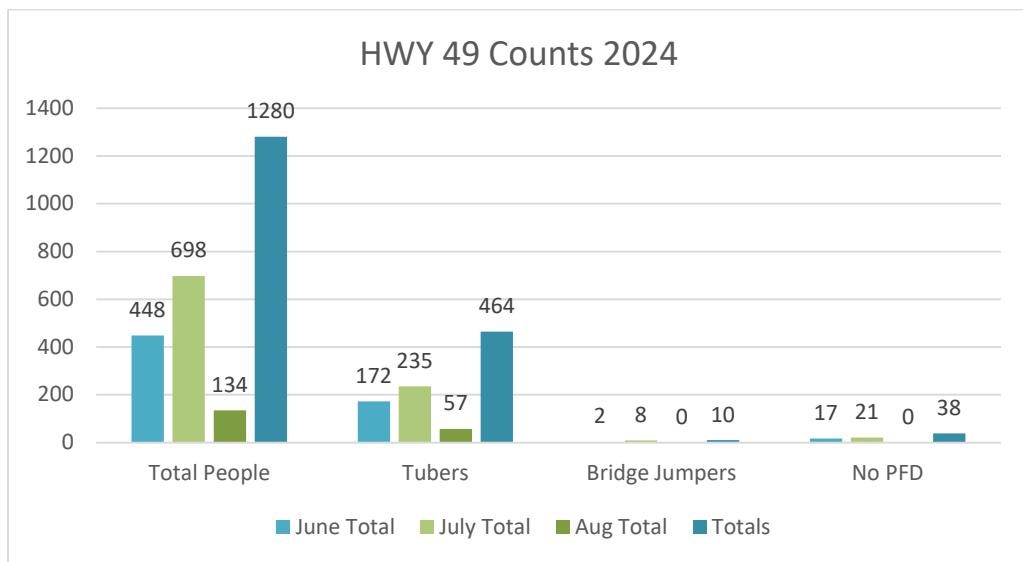
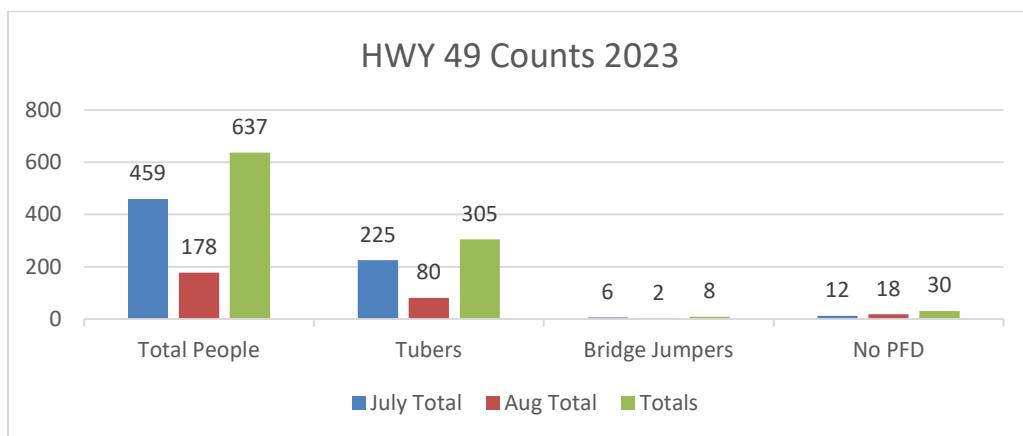
The lower section, or “Gorge Run” continues to be the preferred section to run. However, when Folsom Lake is at or near capacity, many private boaters avoid the long, flat water paddle out to the Skunk Hollow take out. Commercial outfitters utilize motorized craft (personal water craft or motor boats) to tow out their clients and rafts. Total river use in 2024 was 64,761 commercial users.

There isn't a clear indicator for the decrease in commercial use this year. Whole river trips most likely reflect release levels, as higher flow rates increase speed, thus allowing for more trips to cover the entire length of the South Fork in a day. Lower, slower flows likely deter whole-river trips. The middle, C2G section of the river is the most accessible section for floating of inner tubes, paddleboards, and other small inflatable crafts.

There were 464 tubers counted at the Hwy 49 Bridge. Out of those counted, 30 were observed with no PFD and 10 individuals jumping off the Hwy 49 bridge.

## 2024 INNER TUBER COUNTS

River staff was able to conduct several counts focusing on Inner Tubers and river traffic between Marshall Gold State Park and Henningsen Lotus Park. Counts were taken under the Highway 49 bridge in Coloma on random weekends during high usage hours. Staff counted all types of craft but the graph focuses on Tubers. In 2023 staff counted at the bridge a total of 14 days and in 2024 staff counted on 15 days. The increase in overall count numbers can be attributed to additional staff time spent counting river traffic. Counts are over several weekend days each month. The number of Tubers with no PFD in 2024 averages less than those in 2023. In 2023 of the 305 Tubers, 30 were observed with no PFD (9.8%). In 2024 of the 464 Tubers 38 were observed with no PFD (8.2%).

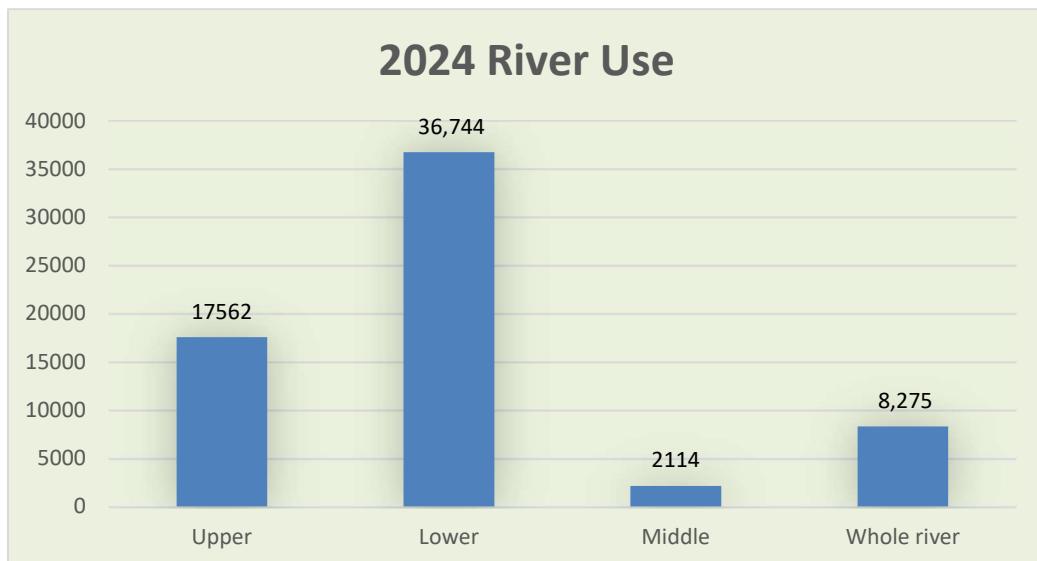


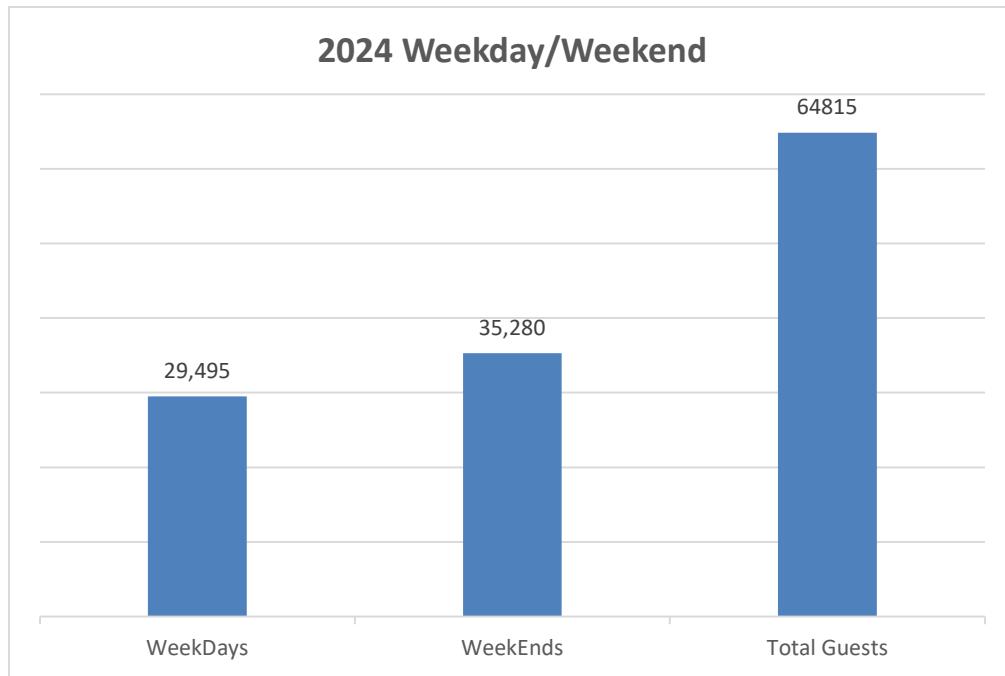
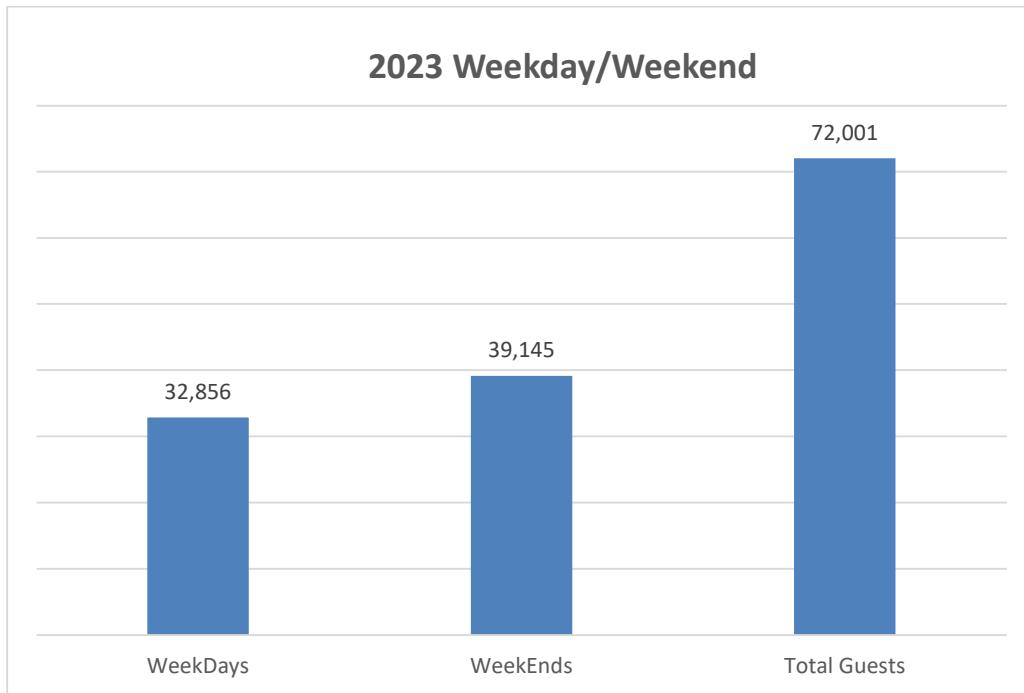
## OUTFITTER USE

Commercial outfitters are the primary source for public rafting excursions on the South Fork. There were 26 permitted outfitters in 2024. Electronic Monthly Operating Reports (eMOR's) are regularly submitted by the commercial outfitters to the County Parks staff.

The total count for commercial use was 64,761. Whole-river trips accounted for an average of 13% of the total use in 2024. Trips solely on the upper section were 27% and trips on the lower section were 57% of total 2024 use. The middle section (C2G) had 3% of reported use.

The lower section is better equipped with put-in and take-out facilities. The higher counts on the lower section likely reflects a preference for a more extended day trip for commercial passengers. While weedend days are more popular, there is also significant weekday use with special group trips such as schools or team building groups.





## ***INSTITUTIONAL GROUP USE***

Only organizations teaching accredited educational courses are able to continue to register as Institutional Groups per the updated RMP. Staff worked with the nonprofit groups (previously identified as institutional groups) to meet the requirement for commercial use. Four of the six non-profit groups obtained their commercial permit in 2024.

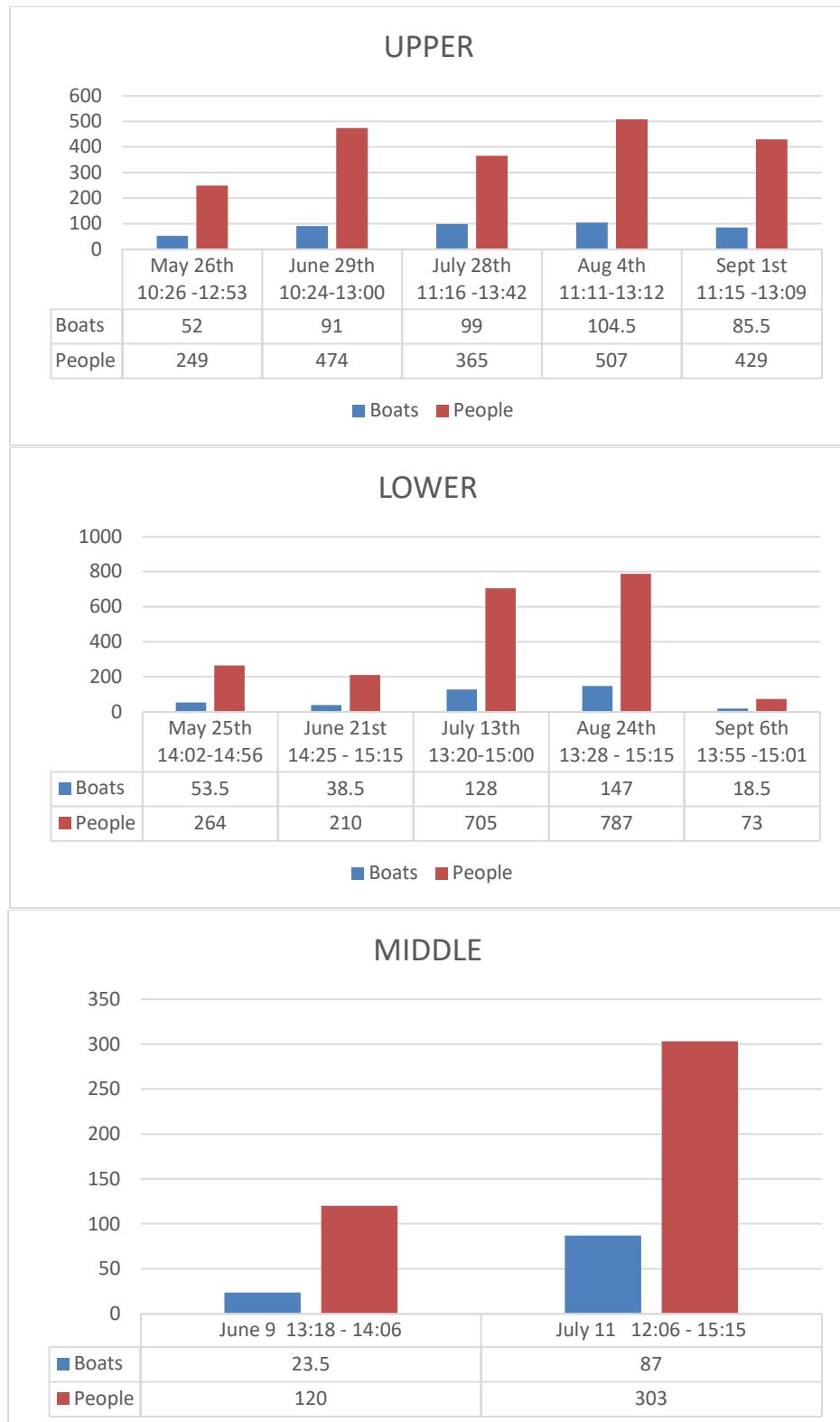
## ***BOAT DENSITY***

The boat density safety measures aim to prevent boating safety hazards from occurring due to boat congestion on weekends. In the event boat counts exceed a “density threshold”, the County will implement management actions to address density and associated safety issues on the South Fork as specified in Element 7 of the RMP.

Boat density measurements come from taking an aggregate total of all rafts, kayaks, inflatable kayaks, and inner tubes, paddleboards, or similar flotation devices. The sources of data utilized for estimating river use were boat counts completed as identified in Appendix C of the RMP, page 94. Density Threshold: 300 boats in 2 hours (based on  $\frac{1}{4}$  hour increments and a rolling 2-hour period) at Meatgrinder, Troublemaker, Barking Dog, Fowlers Rock or Satan’s Cesspool rapids on two days during any one season. Two kayaks are equal to one boat for the purposes of determining boat density.

The following graphs reflect the highest number of counts each month. The Lower section counts are taken at “Fowlers” or “Satan’s Cesspool” rapids. The Upper section counts are taken at “Meatgrinder” or “Troublemaker” rapids. Middle section counts are taken at “Barking Dog” rapid below Camp Lotus.

Carrying capacity was not exceeded; therefore, no mitigation measures to restrict boating use are necessary for 2025. In the following graphs each month’s counts are the highest counted day for that month.



## **2024 COUNTY STAFF ACTIVITIES**

In the 2024 season County river staff consisted of four River Instructors (extra help) and the Parks Program Coordinator. Unfortunately, two of the four extra help staff were not available for the entire season or available for all of the water release days. River staff worked closely with the Sheriffs deputy to monitor river activity and focused more on the Coloma to Greenwood section. Day to day activities for staff included:

- Provided boating safety, boater responsibilities, private property education, river etiquette, leave no trace education, and river flow information at river accesses and on the river.
- Stocked kiosks with waterproof river maps that provide boaters with the locations of restrooms, put-ins and take-outs, quiet zone locations, names of rapids with public and private land designations, agency and campground phone numbers, and a boating safety checklist.
- Assisted law enforcement, upon request.
- Educated tubers on river safety and life jackets in the C2G section.
- Emphasized controlling quiet zone noise, use of public lands, litter education, and use of life jackets by all boaters and inner-tubers; dealt with ongoing concerns of the public.
- Regulate commercial use in the quiet zone for compliance.
- Provided safety information to people floating/boating on the class II section.
- Boat counts as identified in the RMP for carrying capacity.
- Water samples as identified in the RMP.

### **Education and Outreach**

River aides as well as seasonal park staff were regularly on the beach and trails of Henningsen Lotus Park. Staff conducted numerous educational discussions with individuals about the glass container ordinance along the river. The Wilkensen Trail, which runs along river left shore from Henningsen Lotus Park upstream to the Highway 49 bridge, continues to be a popular section for beach goers. Tubers also put in or take out along this section. Staff engaged with the public frequently to provide safety information.

Along with existing signage and personal contact, the public is generally understanding of the safety concerns and ordinances for glass containers and proper PFD use. Continued education and outreach is the main focus for River staff.



Educational Signage

## ***EL DORADO COUNTY LAW ENFORCEMENT***

During the 2024 rafting season, EL Dorado County Sheriff Deputy Julian Sandoval, patrolled the South Fork of the American River from Chili Bar to Folsom Lake on a river raft. He along with a patrol partner spent more than 510 hours on the river. This total does not include the time spent on equipment maintenance, reporting, training, etc.

The below is a summary of quantifiable activity on River Patrol:

Contact with approximately 3,651 boats (kayaks, rafts, SUPS, etc.) and an estimated 12,482 people.

Approximately 405 contacts with the public, some of which were educational or enforcement in nature. These included advisements on PFDs, navigation, safety, ordinance (glass bottles, bridge jumping, trespassing), reckless behavior, intoxication, and inappropriate behavior.

125 citizen assists.

193 Public Relations Events

2 Citations.

2 Arrests.

10 Search and Rescues

Much of the time on the river was spent educating non-locals on the dangers of high-water levels. Many arrived on the river with poor quality gear that could have caused them serious bodily injury or death. In these cases, those people were educated, and some were escorted down river on the EDSO Cataract down the rapids they were not prepared to go down. EDSO gave away about 20 PFD's that were donated by the Department of Boating Water Ways throughout this season.

## ***OUTFITTER VIOLATIONS***

There were no violations issued in 2024. There were a few warnings issued for pod sizes and the outfitters responded favorably.

County staff held a meeting before the regular season to discuss the River Management Plan Five-Year review and issues and concerns. Several outfitters expressed willingness to have the violation fees increased. This and other items will be presented to the Board of Supervisors.

## ***WATER QUALITY***

The water quality monitoring bacterial test results in 2024 showed acceptable readings throughout the season. Water testing is done the first week of the month May – September. The test locations are The Nugget, North Shore (Marshall Gold), HLP, Greenwood Creek and Salmon Falls. Two samples are taken, at the shore and a transect (combination of right and left shores and river center), except at Salmon Falls which is just a shore sample.

Water test results are reported to the County Environmental Management Department in accordance with RMP section 4.4. Environmental Management monitors the water sample results and informs the Parks Division if action is needed.

Test results are attached in Appendix A.

The County also has a comprehensive Stormwater Program that implements stormwater mitigation measures and best management practices (BMPs) as prescribed by the County Storm Water Management Plan and the Phase II Municipal National Pollutant Discharge Elimination System (NPDES) Permit.

## ***BUDGET***

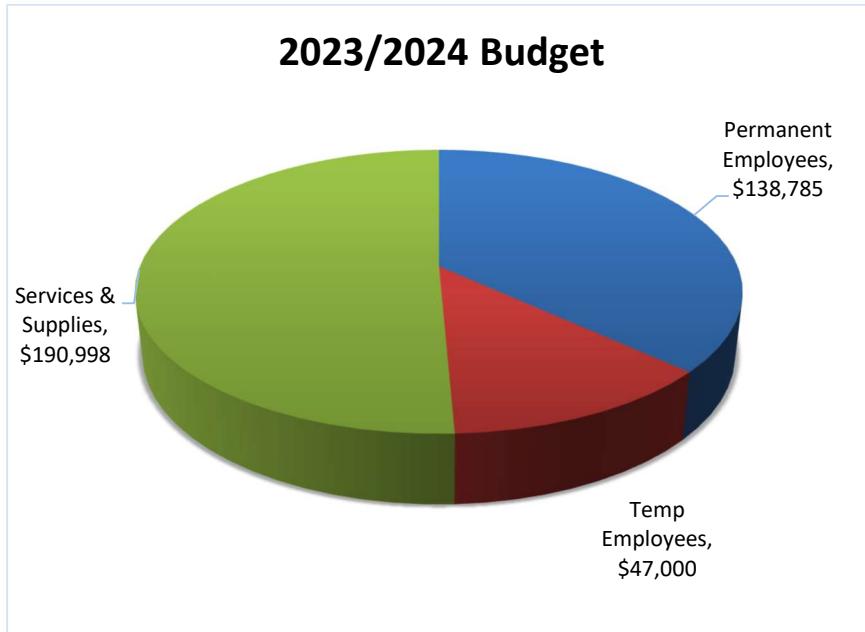
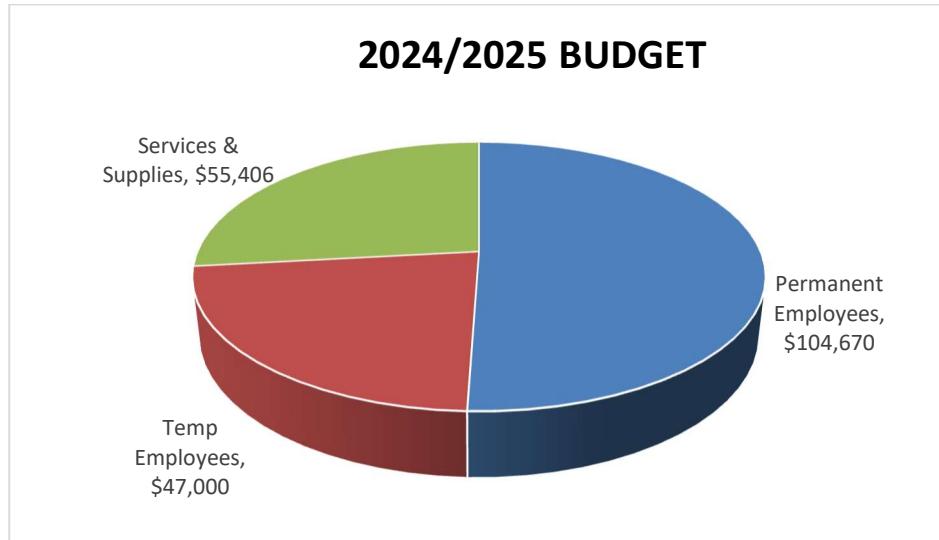
The budget for the Parks River Program is a non-general fund program. The primary source of funding since 1997 is a \$2.00 per guest user fee paid by permitted outfitters. Any fee change is subject to additional action by the Board of Supervisors. Any funding needs will take into consideration any changes which could increase or decrease the level of funding needed to implement the updated RMP. The table and charts below provide a snapshot of the River Trust Fund balances, the 2023/2024 approved budget, and the 2022/2023 Parks River Program budgeted and actual expenditures.

### River Trust Fund Balance and Budget Summary

|  |           |
|--|-----------|
|  |           |
| Fund Balance as of July 1, 2023                            | \$347,083 |
| Revenue ( <i>July 1, 2023 through June 30, 2024</i> )      | \$208,753 |
| Expenditures ( <i>July 1, 2023 through June 30, 2024</i> ) | \$251,042 |
| River Trust Fund balance as of June 30, 2024               | \$304,794 |
| FY 2024-25 Budgeted Expenditures                           | \$182,076 |

### River Trust Fund Balance and Budget Summary

| <b>Fiscal Year 2022/2023</b>                          |            |
|---|------------|
| Fund Balance as of July 1, 2022                       | 329,596.86 |
| 21/22 Balance Adjustment - Fair Market Value          | -10,951.65 |
| Revenue ( <i>July 1, 2022 through June 30, 2023</i> ) | 170,466.61 |
| Expenditures  | 142,029.13 |
| River Trust Fund balance as of June 30, 2023          | 347,082.69 |
| 2023/2024 Adopted Budget                              | 351,783.00 |



***PUBLIC COMMENTS:***

**No public comments received.**

***CLOSING***

In coordination with the El Dorado County Sheriff's Boating Units, Bureau of Land Management and State Parks the County River Program has been successful in managing the South Fork American River's whitewater recreation from Chili Bar Dam to Folsom Reservoir. County staff will continue to monitor river traffic and engage with the public to support river safety and education.

# Appendix

## Appendix A

Water Sample reports from Water Environmental Testing Laboratory, Inc. and the California Laboratory Services

Samples are taken May – September in the first week of the month.



**Water  
Environmental  
Testing Laboratory, Inc.**  
California State Certified #2082

(530) 677-5776

5649 Milton Ranch Road, Shingle Springs, CA 95682

May 6, 2024

El Dorado County Parks & Recreation  
CAO Parks  
Placerville, CA 95667  
Attn: Vickie Sanders / Tim Canavarro

**Laboratory Reference #24-EDC-01.R**  
Sampled by: Tim

| <u>Sample Location</u>                             | <u>Date</u> | <u>Time</u> | <u>Test Parameter</u>                         | <u>Test Result (MPN)</u> |
|--|-------------|-------------|---|--------------------------|
| Salmon Falls<br>Crab Sample                        | 5/1/24      | 1240        | Total Coliform (ONPG)<br><i>E. coli</i> (MUG) | 1732.9<br>4.1            |
| Greenwood Creek - Shore<br>Crab Sample             | 5/1/24      | 1215        | Total Coliform (ONPG)<br><i>E. coli</i> (MUG) | 435.2<br>5.2             |
| Greenwood Creek - Transect<br>Composite Sample (5) | 5/1/24      | 1215        | Total Coliform (ONPG)<br><i>E. coli</i> (MUG) | 410.6<br>4.1             |
| North Beach - Shore<br>Crab Sample                 | 5/1/24      | 1128        | Total Coliform (ONPG)<br><i>E. coli</i> (MUG) | 290.9<br>5.2             |
| North Beach - Transect<br>Composite Sample (5)     | 5/1/24      | 1125        | Total Coliform (ONPG)<br><i>E. coli</i> (MUG) | 344.8<br>0.0             |
| Nugget - Shore<br>Crab Sample                      | 5/1/24      | 1030        | Total Coliform (ONPG)<br><i>E. coli</i> (MUG) | 488.4<br>7.3             |
| Nugget - Transect<br>Composite Sample (5)          | 5/1/24      | 1030        | Total Coliform (ONPG)<br><i>E. coli</i> (MUG) | 547.1<br>3.0             |
| HLP - Shore<br>Crab Sample                         | 5/1/24      | 1140        | Total Coliform (ONPG)<br><i>E. coli</i> (MUG) | 365.4<br>3.1             |
| HLP - Transect<br>Composite Sample (5)             | 5/1/24      | 1140        | Total Coliform (ONPG)<br><i>E. coli</i> (MUG) | 461.1<br>1.0             |

All samples were analyzed using the chromogenic substrate coliform test (ONPG-MUG) in accordance with Standard Methods SM 9223 B. Bacterial densities (MPN) were calculated using Colilert Quanti-tray 2000.

*Richard R. Blodgett, PhD*

Public Health Epidemiologist  
Water Quality Microbiologist

RRB/cb

Cc: El Dorado County Environmental Management Department

This report is applicable only to the sample received by the laboratory. The liability of the laboratory is limited to the amount paid for this report. This report is for the exclusive use of the client to whom it is addressed and upon the condition that the client assume all liability for the further distribution of the report or its contents.



Water  
Environmental  
Testing **Laboratory, Inc.**  
California State Certified #2082

(530) 677-5776

5649 Milton Ranch Road, Shingle Springs, CA 95682

June 11, 2024

El Dorado County Parks & Recreation  
CAO Parks  
Placerville, CA 95667  
Attn: Vickie Sanders / Tim Canavarro

**Laboratory Reference #24-EDC-02.R**  
Sampled by: Tim

| <u>Sample Location</u>                             | <u>Date</u> | <u>Time</u> | <u>Test Parameter</u>                         | <u>Test Result (MPN)</u> |
|--|-------------|-------------|---|--------------------------|
| Salmon Falls<br>Crab Sample                        | 6/4/24      | 1130        | Total Coliform (ONPG)<br><i>E. coli</i> (MUG) | >2419<br>12.0            |
| Greenwood Creek - Shore<br>Crab Sample             | 6/4/24      | 1055        | Total Coliform (ONPG)<br><i>E. coli</i> (MUG) | 920.8<br>14.5            |
| Greenwood Creek - Transect<br>Composite Sample (5) | 6/4/24      | 1055        | Total Coliform (ONPG)<br><i>E. coli</i> (MUG) | 648.8<br>9.7             |
| North Beach - Shore<br>Crab Sample                 | 6/4/24      | 1010        | Total Coliform (ONPG)<br><i>E. coli</i> (MUG) | 488.4<br>3.0             |
| North Beach - Transect<br>Composite Sample (5)     | 6/4/24      | 1010        | Total Coliform (ONPG)<br><i>E. coli</i> (MUG) | 307.6<br>4.1             |
| Nugget - Shore<br>Crab Sample                      | 6/4/24      | 0925        | Total Coliform (ONPG)<br><i>E. coli</i> (MUG) | 325.5<br>5.2             |
| Nugget - Transect<br>Composite Sample (5)          | 6/4/24      | 0925        | Total Coliform (ONPG)<br><i>E. coli</i> (MUG) | 325.5<br>1.0             |
| HLP - Shore<br>Crab Sample                         | 6/4/24      | 1025        | Total Coliform (ONPG)<br><i>E. coli</i> (MUG) | 866.4<br>10.8            |
| HLP - Transect<br>Composite Sample (5)             | 6/4/24      | 1025        | Total Coliform (ONPG)<br><i>E. coli</i> (MUG) | 547.5<br>13.2            |

All samples were analyzed using the chromogenic substrate coliform test (ONPG-MUG) in accordance with Standard Methods SM 9223 B. Bacterial densities (MPN) were calculated using Colilert Quanti-tray 2000.

*Richard R. Blodgett, PhD*

Public Health Epidemiologist  
Water Quality Microbiologist

RRB/cb

Cc: El Dorado County Environmental Management Department

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Water  
Environmental  
Testing **Laboratory, Inc.**  
California State Certified #2082

(530) 677-5776

5649 Milton Ranch Road, Shingle Springs, CA 95682

July 3, 2024

El Dorado County Parks & Recreation  
CAO Parks  
Placerville, CA 95667  
Attn: Vickie Sanders / Tim Canavarro

**Laboratory Reference #24-EDC-03.R**  
Sampled by: Tim

| <u>Sample Location</u>                                    | <u>Date</u> | <u>Time</u> | <u>Test Parameter</u>                         | <u>Test Result (MPN)</u> |
|---|-------------|-------------|---|--------------------------|
| <b>Salmon Falls</b><br>Crab Sample                        | 7/1/24      | 1328        | Total Coliform (ONPG)<br><i>E. coli</i> (MUG) | >2419.2<br>47.2          |
| <b>Greenwood Creek - Shore</b><br>Crab Sample             | 7/1/24      | 1256        | Total Coliform (ONPG)<br><i>E. coli</i> (MUG) | >2419.2<br>46.4          |
| <b>Greenwood Creek - Transect</b><br>Composite Sample (5) | 7/1/24      | 1256        | Total Coliform (ONPG)<br><i>E. coli</i> (MUG) | >2419.2<br>17.1          |
| <b>North Beach - Shore</b><br>Crab Sample                 | 7/1/24      | 1135        | Total Coliform (ONPG)<br><i>E. coli</i> (MUG) | 1732.9<br>66.3           |
| <b>North Beach - Transect</b><br>Composite Sample (5)     | 7/1/24      | 1135        | Total Coliform (ONPG)<br><i>E. coli</i> (MUG) | 1732.9<br>52.0           |
| <b>Nugget - Shore</b><br>Crab Sample                      | 7/1/24      | 1050        | Total Coliform (ONPG)<br><i>E. coli</i> (MUG) | 613.1<br>2.0             |
| <b>Nugget - Transect</b><br>Composite Sample (5)          | 7/1/24      | 1050        | Total Coliform (ONPG)<br><i>E. coli</i> (MUG) | 1046.2<br>4.1            |
| <b>HLP - Shore</b><br>Crab Sample                         | 7/1/24      | 1206        | Total Coliform (ONPG)<br><i>E. coli</i> (MUG) | 1986.3<br>118.7          |
| <b>HLP - Transect</b><br>Composite Sample (5)             | 7/1/24      | 1025        | Total Coliform (ONPG)<br><i>E. coli</i> (MUG) | 1986.3<br>123.6          |

All samples were analyzed using the chromogenic substrate coliform test (ONPG-MUG) in accordance with Standard Methods SM 9223 B. Bacterial densities (MPN) were calculated using Colilert Quanti-tray 2000.

*Richard R. Blodgett, PhD*

Public Health Epidemiologist  
Water Quality Microbiologist

RRB/sb

Cc: El Dorado County Environmental Management Department

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**Water  
Environmental  
Testing Laboratory, Inc.**

California State Certified #2082

(530) 677-5776

5649 Milton Ranch Road, Shingle Springs, CA 95682

August 7, 2024

El Dorado County Parks & Recreation  
CAO Parks  
Placerville, CA 95667  
Attn: Vickie Sanders / Tim Canavarro

**Laboratory Reference #24-EDC-04.R**  
Sampled by: Tim

| <b>Sample Location</b>                                    | <b>Date</b> | <b>Time</b> | <b>Test Parameter</b>                         | <b>Test Result (MPN)</b> |
|---|-------------|-------------|---|--------------------------|
| <b>Salmon Falls</b><br>Crab Sample                        | 8/5/24      | 1240        | Total Coliform (ONPG)<br><i>E. coli</i> (MUG) | >2419.2<br>3.0           |
| <b>Greenwood Creek - Shore</b><br>Crab Sample             | 8/5/24      | 1145        | Total Coliform (ONPG)<br><i>E. coli</i> (MUG) | 1203.3<br>24.6           |
| <b>Greenwood Creek - Transect</b><br>Composite Sample (5) | 8/5/24      | 1115        | Total Coliform (ONPG)<br><i>E. coli</i> (MUG) | 1119.9<br>12.2           |
| <b>North Beach - Shore</b><br>Crab Sample                 | 8/5/24      | 1050        | Total Coliform (ONPG)<br><i>E. coli</i> (MUG) | 1413.6<br>42.2           |
| <b>North Beach - Transect</b><br>Composite Sample (5)     | 8/5/24      | 1050        | Total Coliform (ONPG)<br><i>E. coli</i> (MUG) | 1553.1<br>38.8           |
| <b>Nugget - Shore</b><br>Crab Sample                      | 8/5/24      | 0912        | Total Coliform (ONPG)<br><i>E. coli</i> (MUG) | 1413.6<br>27.5           |
| <b>Nugget - Transect</b><br>Composite Sample (5)          | 8/5/24      | 0912        | Total Coliform (ONPG)<br><i>E. coli</i> (MUG) | 1732.9<br>22.6           |
| <b>HLP - Shore</b><br>Crab Sample                         | 8/5/24      | 1115        | Total Coliform (ONPG)<br><i>E. coli</i> (MUG) | 1299.7<br>24.0           |
| <b>HLP - Transect</b><br>Composite Sample (5)             | 8/5/24      | 1115        | Total Coliform (ONPG)<br><i>E. coli</i> (MUG) | 1203.3<br>12.0           |

All samples were analyzed using the chromogenic substrate coliform test (ONPG-MUG) in accordance with Standard Methods SM 9223 B. Bacterial densities (MPN) were calculated using Colilert Quanti-tray 2000.

*Richard R. Blodgett, PhD*

Public Health Epidemiologist  
Water Quality Microbiologist

RRB/cb

Cc: El Dorado County Environmental Management Department

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|  |   |                                     |
|--|---|-------------------------------------|
| Wet Laboratory<br>5649 Milton Ranch Rd.<br>Shingle Springs, CA 95682 | Project: EDC Parks & Recreation River<br>Project Number: 24-EDC-05-R<br>Project Manager: Rick R. Blodgett | CLS Work Order #: 24B0293<br>COC #: |
|--|---|-------------------------------------|

## Microbiological Parameters by APHA Standard Methods:

| Analyte   | Result | Reporting Limit | Units      | Dilution | Batch   | Prepared       | Analyzed | Method | Notes |
|---|--------|-----------------|------------|----------|---------|----------------|----------|--------|-------|
| <b>EP-1 Salmon Falls (24B0293-01) SW</b> Sampled: 09/05/24 12:33 Received: 09/05/24 15:40               |        |                 |            |          |         |                |          |        |       |
| Total Coliform  | 1986.3 | 1.0             | MPN/100 mL | 1        | 2407158 | 09/05/24 16:20 | 09/06/24 | SM9023 |       |
| E. Coli   | 68.2   | 1.0             | *          | *        | *       | *              | *        | *      | *     |
| <b>EP-2 Greenwood Creek - Shore (24B0293-02) SW</b> Sampled: 09/05/24 12:13 Received: 09/05/24 15:40    |        |                 |            |          |         |                |          |        |       |
| Total Coliform  | 1046.2 | 1.0             | MPN/100 mL | 1        | 2407158 | 09/05/24 16:20 | 09/06/24 | SM9023 |       |
| E. Coli   | 29.5   | 1.0             | *          | *        | *       | *              | *        | *      | *     |
| <b>EP-3 Greenwood Creek - Transect (24B0293-03) SW</b> Sampled: 09/05/24 12:15 Received: 09/05/24 15:40 |        |                 |            |          |         |                |          |        |       |
| Total Coliform  | 1299.7 | 1.0             | MPN/100 mL | 1        | 2407158 | 09/05/24 16:20 | 09/06/24 | SM9023 |       |
| E. Coli   | 34.5   | 1.0             | *          | *        | *       | *              | *        | *      | *     |
| <b>EP-4 North Beach - Shore (24B0293-04) SW</b> Sampled: 09/05/24 10:53 Received: 09/05/24 15:40        |        |                 |            |          |         |                |          |        |       |
| Total Coliform  | 1119.9 | 1.0             | MPN/100 mL | 1        | 2407158 | 09/05/24 16:20 | 09/06/24 | SM9023 |       |
| E. Coli   | 10.9   | 1.0             | *          | *        | *       | *              | *        | *      | *     |
| <b>EP-5 North Beach - Transect (24B0293-05) SW</b> Sampled: 09/05/24 10:53 Received: 09/05/24 15:40     |        |                 |            |          |         |                |          |        |       |
| Total Coliform  | 2419.6 | 1.0             | MPN/100 mL | 1        | 2407158 | 09/05/24 16:20 | 09/06/24 | SM9023 |       |
| E. Coli   | 4.1    | 1.0             | *          | *        | *       | *              | *        | *      | *     |
| <b>EP-6 Nugget - Shore (24B0293-06) SW</b> Sampled: 09/05/24 10:20 Received: 09/05/24 15:40             |        |                 |            |          |         |                |          |        |       |
| Total Coliform  | 829.7  | 1.0             | MPN/100 mL | 1        | 2407158 | 09/05/24 16:20 | 09/06/24 | SM9023 |       |
| E. Coli   | 13.5   | 1.0             | *          | *        | *       | *              | *        | *      | *     |
| <b>EP-7 Nugget - Transect (24B0293-07) SW</b> Sampled: 09/05/24 10:20 Received: 09/05/24 15:40          |        |                 |            |          |         |                |          |        |       |
| Total Coliform  | 998.4  | 1.0             | MPN/100 mL | 1        | 2407158 | 09/05/24 16:20 | 09/06/24 | SM9023 |       |
| E. Coli   | 21.1   | 1.0             | *          | *        | *       | *              | *        | *      | *     |

3249 Ridgefield Road, Rancho Cordova, CA 95742 | 800.638.7301 | Tel: 916.638.7301 x100 | Fax: 916.638.4510 | [www.californialab.com](http://www.californialab.com)  
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|  |  |                                     |
|--|--|-------------------------------------|
| Wet Laboratory<br>5649 Milton Ranch Rd.<br>Shingle Springs, CA 95682 | Project: EDC Parks & Recreation River<br>Project Number: 24-EDC-05-R<br>Project Manager: Rick R. Hodgett | CLS Work Order #: 2410293<br>COC #: |
|--|--|-------------------------------------|

**Microbiological Parameters by APHA Standard Methods:**

| Analyte   | Result | Reporting Limit | Units      | Dilution | Batch   | Prepared       | Analyzed | Method | Notes |
|---|--------|-----------------|------------|----------|---------|----------------|----------|--------|-------|
| <b>EP-8 HLP - Shore (2410293-08) SW</b> Sampled: 09/05/24 11:38 Received: 09/05/24 15:49    |        |                 |            |          |         |                |          |        |       |
| Total Coliforms   | 721.5  | 1.0             | MPN/100 mL | 1        | 2407158 | 09/05/24 16:28 | 09/06/24 | SM9223 |       |
| E. Coli   | 27.9   | 1.0             | *          | *        | *       | *              | *        | *      | *     |
| <b>EP-9 HLP - Transect (2410293-09) SW</b> Sampled: 09/05/24 11:38 Received: 09/05/24 15:49 |        |                 |            |          |         |                |          |        |       |
| Total Coliforms   | 1046.2 | 1.0             | MPN/100 mL | 1        | 2407158 | 09/05/24 16:28 | 09/06/24 | SM9223 |       |
| E. Coli   | 23.3   | 1.0             | *          | *        | *       | *              | *        | *      | *     |



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Wet Laboratory  
5649 Milton Ranch Rd.  
Shingle Springs, CA 95682

Project: EDC Parks & Recreation River  
Project Number: 24-EDC-05-R  
Project Manager: Rick R. Blodgett  
CLS Work Order #: 24I0293  
COC #:

**Notes and Definitions**

|     |   |
|-----|---|
| DET | Analyte DETECTED  |
| ND  | Analyte NOT DETECTED at or above the reporting limit (or method detection limit when specified) |
| NR  | Not Reported  |
| dry | Sample results reported on a dry weight basis   |
| RPD | Relative Percent Difference   |