

Action Item 14

Consider Approval of Expenditures for Repair of Flood Damage at the Sleepy Hollow Steelhead Rearing Facility and Carmel River Resistance Board Weir, Authorize Withdrawals from the Flood/Drought Reserve, and Direct General Manager to Explore Reimbursement from FEMA, CAL Office of Emergency Services, or other sources, *if available*

[Exempt under §15269 Emergency Projects.]

By: Thomas Christensen, Environmental Resources Manager and Larry Hampson, Project Manager

Carmel River Flows

USGS
science for a changing world

Water Resources | Water Dashboard | Questions or Com

About Water Data for the Nation | Data Information | Data Inventory | Why Next Gen? | How-to

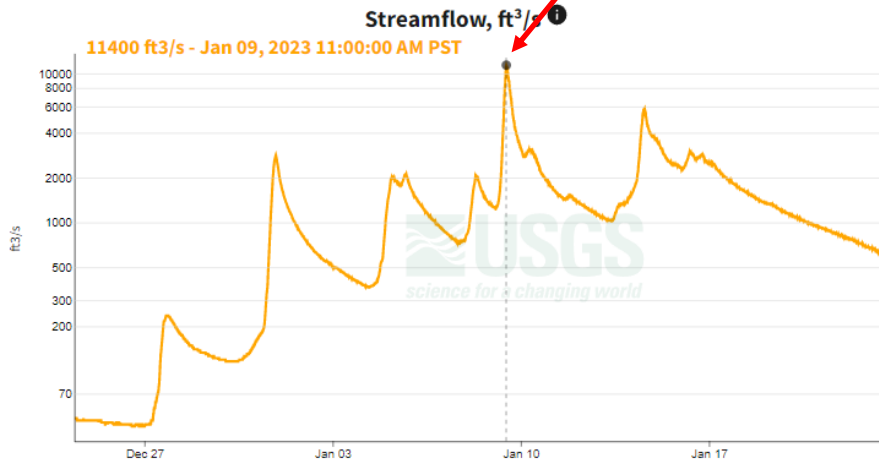
CARMEL R A ROBLES DEL RIO CA

IMPORTANT [Legacy real-time page](#)

Monitoring location 11143200 is associated with a STREAM in MONTEREY COUNTY, CALIFORNIA. Current conditions of DISCHARGE and GAGE HEIGHT are available. Water data back to 1955 are available online.

7 days 30 days 1 year

Change time span | Retrieve data



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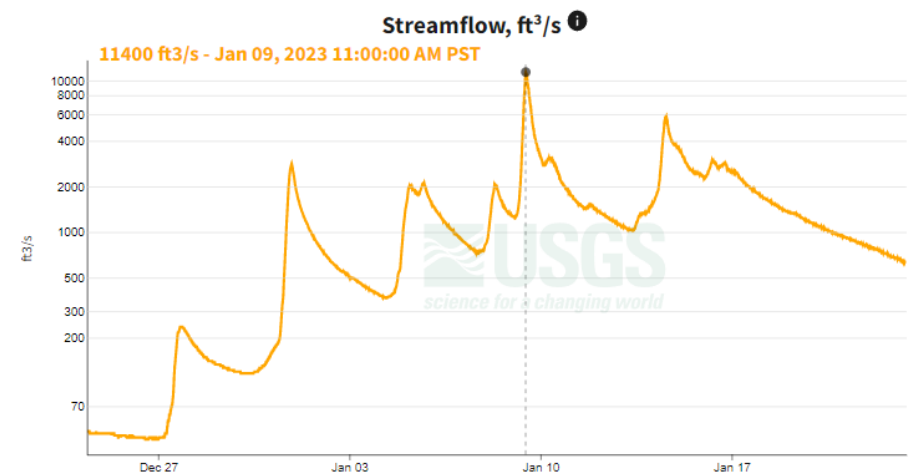


Table 2: Discharges used for Sleepy Hollow design

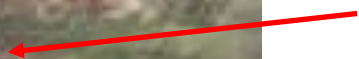
Frequency (Years)	50	100	500
Discharge (Cubic feet per second)	10,200	12,100	
	16,600		

Flood Elevation at SHSRF (January 9, 2023)

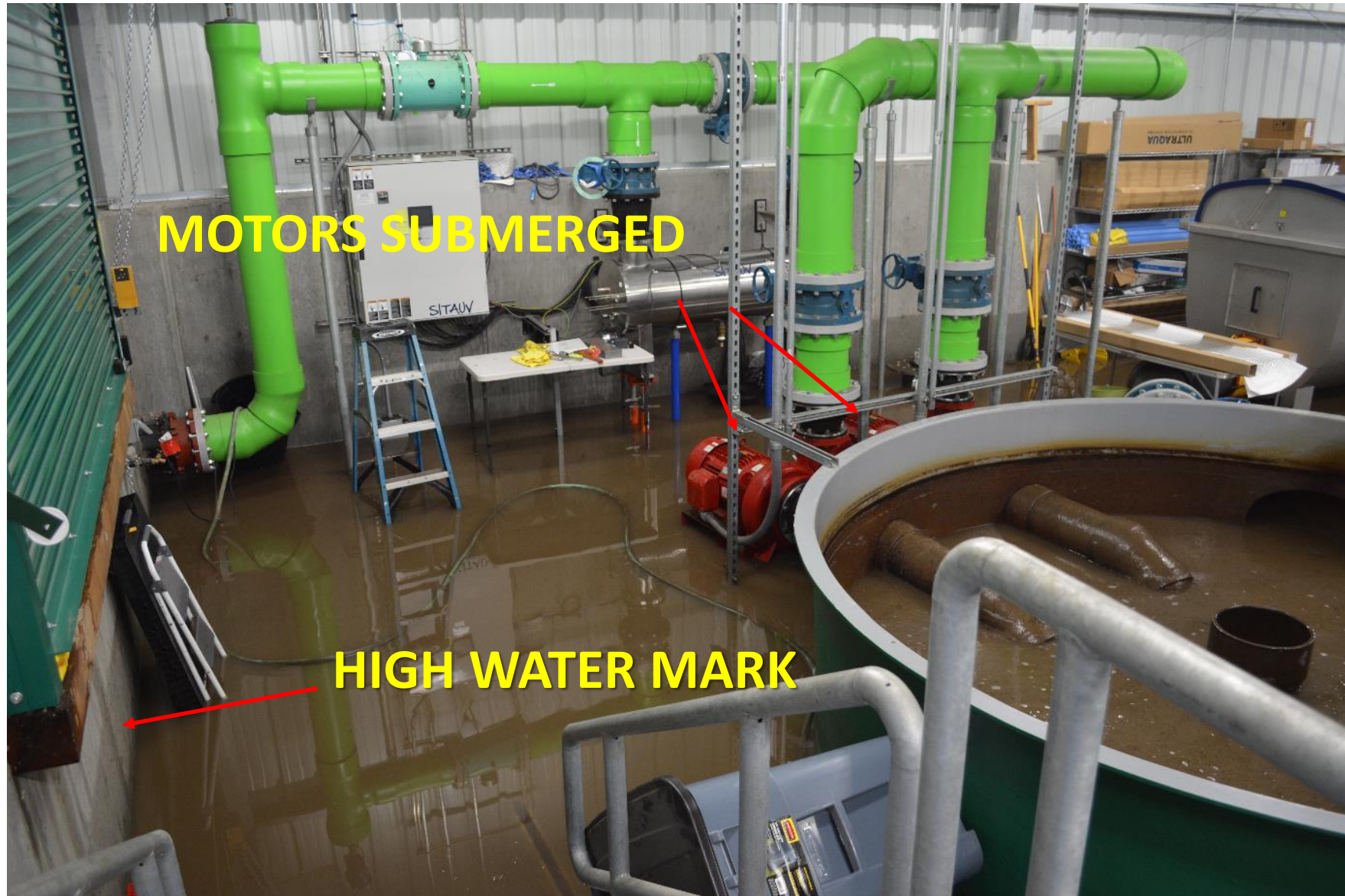


Top of building wall at 100-year flood level

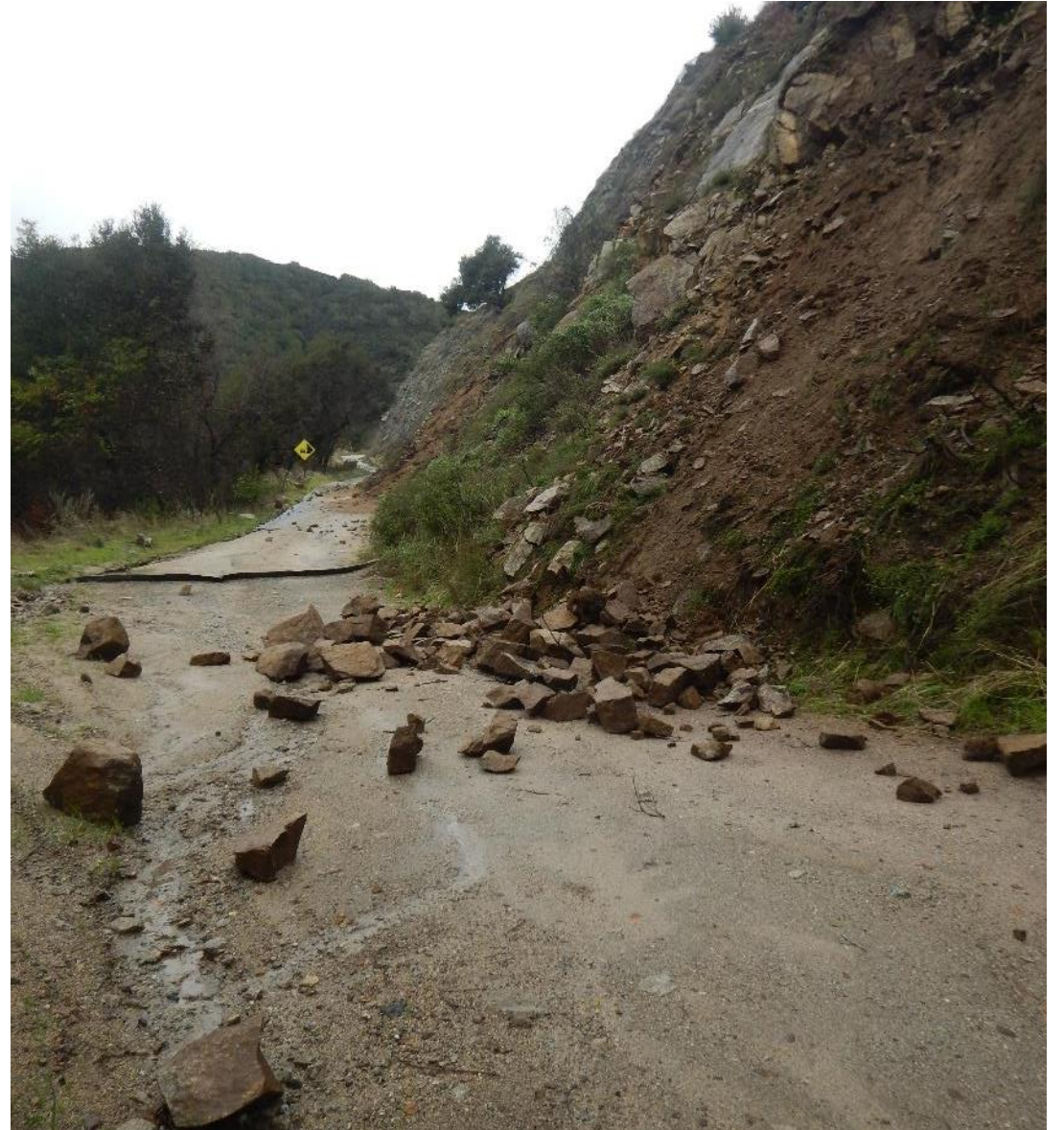
Crest limit on January 9, 2023



Inside RAS Building (January 9, 2023)



Sleepy Hollow Inroad (January 9, 2023)



January 9, 2023



INTAKE SCREEN - STATUS UNKNOWN

Estimated Damage Repair Costs

\$45,000 – Road Repair and debris Removal

\$75,000 – Repair or Replace Two 1,350 (gpm) motors

**\$10,000 – Repair or replace two high pressure motors
for drum screens**

\$130,000 – Total

Damage Status

- Road debris and repairs completed; road needs to dry out before large vehicles can enter worksite
- Estimates for motor repair/replacement are underway
- Building has been pressure washed, motors are slowly being dried out
- Extra costs for protecting building during similar or larger floods have not been completed; costs for simple fixes may be paid for from Rearing Channel rehabilitation project

Update on Damage to the Carmel River Resistance Board Weir (steelhead counting station)

- Used to count and tag adult steelhead as they enter the Carmel River
- Part of the Rescue and Rearing Management Plan
- Considered an integral part in understanding steelhead recovery in the Carmel River
- Takes a minimum of 4 people two days to install and two days to remove
- Usually in the Carmel River from January 1 through mid-April.

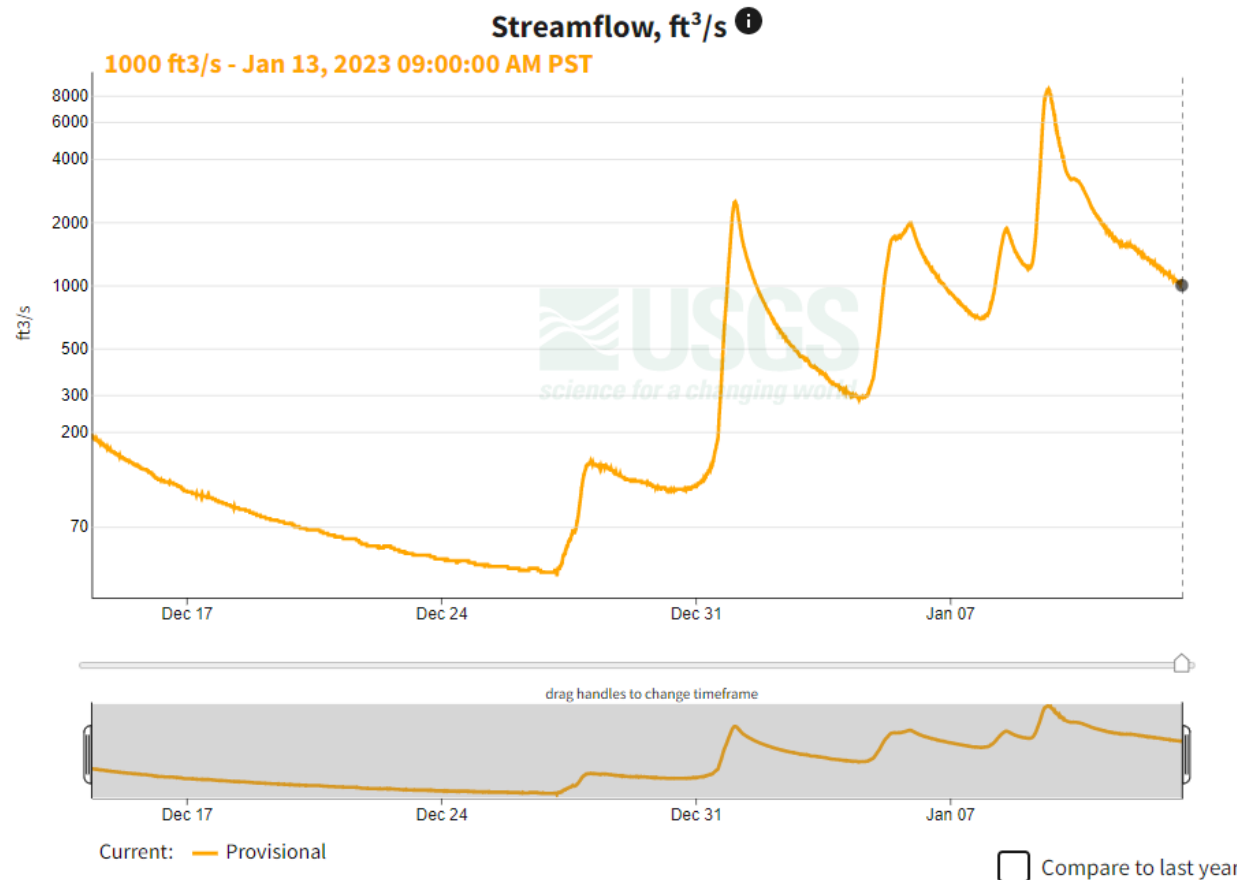
Ideal conditions for the steelhead counting station



A series of storms caused the river to stair step up, which made it impossible to remove the weir prior to the high flows

7 days 30 days 1 year

Change time span | Retrieve data



The weir under about eight feet of swift water (January 9, 2023)



High flows and debris damaged the panels and broke apart the box trap



Estimated Damage Repair Costs for Weir

- The river is still too high to make a complete assessment, but we think this is
- \$15,000 box trap
- \$2,000 bulkhead panel
- \$5,000 additional mid-panels (4 panels at \$1,250 per panel)
- \$800 for delivery
- \$5,000 Possible assistance from FishBio to help rebuild or the secure rail cable
- \$27,800 Estimated Total

Recommendation

- Authorize the General Manager to approve up to \$250,000 for contracts to carry out emergency repair projects necessary since January 9, 2023 flood.

For More Information

District website:

www.mpwmd.net

PowerPoint presentations will be posted on the website the day after the meeting

Staff contacts for this item:

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MS PowerPoint Presentation distributed to the Board, District Counsel and General Manager at the MPWMD Board of Director's Meeting on Monday, January 23, 2023.

- /s/ Joel G. Pablo, *Board Clerk with the MPWMD*