

This meeting is not subject to  
Brown Act noticing requirements.  
The agenda is subject to change.



**Water Supply  
Planning Committee  
Members:**  
*George Riley, Chair  
Mary Adams  
Molly Evans*

**Alternate:**  
*Alvin Edwards*

**Staff Contact**  
*David J. Stoldt,  
General Manager*

*After staff reports have  
been distributed, if  
additional documents are  
produced by the District  
and provided to the  
Committee regarding any  
item on the agenda, they  
will be made available at  
5 Harris Court, Building  
G, Monterey, CA during  
normal business hours.  
In addition, such  
documents may be posted  
on the District website at  
mpwmd.net. Documents  
distributed at the meeting  
will be made available in  
the same manner.*

**AGENDA**  
**Water Supply Planning Committee**  
**Of the Monterey Peninsula Water Management District**

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Wednesday, February 5, 2020, 3:30 pm  
MPWMD Conference Room, 5 Harris Court, Bldg. G, Monterey, CA

**Call to Order**

**Comments from Public** - *The public may comment on any item within the District's jurisdiction. Please limit your comments to three minutes in length.*

**Action Items** - *Public comment will be received. Please limit your comments to three (3) minutes per item.*

P.3 1. Consider Adoption of January 14, 2020 Committee Meeting Minutes

P.7 2. Consider Adoption of 2020 Committee Meeting Schedule

P.9 3. Consider Approval for Grant Funding for Hastings Reservation Ford Replacement on Finch Creek

P.25 4. Recommend Funding Plan for Pure Water Monterey Advanced Water Purification Electrical Facilities

**Discussion Items** – *Public comment will be received. Please limit your comments to three (3) minutes per item.*

5. Update on ASR Construction

6. Update on Pure Water Monterey Project

7. Suggest Items to be Placed on Future Agendas

**Adjournment**

Upon request, MPWMD will make a reasonable effort to provide written agenda materials in appropriate alternative formats, or disability-related modification or accommodation, including auxiliary aids or services, to enable individuals with disabilities to participate in public meetings. MPWMD will also make a reasonable effort to provide translation services upon request. Please send a description of the requested materials and preferred alternative format or auxiliary aid or service by noon on February 4, 2020. Requests should be sent to the Board Secretary, MPWMD, P.O. Box 85, Monterey, CA, 93942. You may also fax your request to the Administrative Services Division at 831-644-9560, or call 831-658-5600.

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**WATER SUPPLY PLANNING COMMITTEE****ITEM: ACTION ITEM****1. CONSIDER ADOPTION OF JANUARY 14, 2020 COMMITTEE MEETING MINUTES****Meeting Date:** February 5, 2020**From:** David J. Stoldt,  
General Manager**Prepared By:** Arlene Tavani**CEQA Compliance:** This action does not constitute a project as defined by the California Environmental Quality Act Guidelines Section 15378.

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**SUMMARY:** Attached as **Exhibit 1-A** are draft minutes of the January 14, 2020 committee meeting.**RECOMMENDATION:** The Committee should adopt the minutes by motion.**EXHIBIT****1-A** Draft Minutes of the January 14, 2020 Committee Meeting





## EXHIBIT 1-A

### DRAFT MINUTES Water Supply Planning Committee of the Monterey Peninsula Water Management District *January 14, 2020*

**Call to Order:** The meeting was called to order at 10:00 am.

**Committee members present:** Gary Hoffmann, P.E.  
Jeanne Byrne  
George Riley

**Committee members absent:** None

**Staff members present:** David J. Stoldt, General Manager  
Jonathan Lear, Water Resources Division Manager  
Maureen Hamilton, Water Resources Engineer  
Arlene Tavani, Executive Assistant

**District Counsel present** David Laredo, DeLay and Laredo

**Comments from the Public:** No comments.

#### Action Items

- 1. Consider Adoption of October 8, 2019 and December 3, 2019 Committee Meeting Minutes**  
On a motion by Riley and second of Byrne, the minutes were approved on a unanimous vote of 3 – 0 by Riley, Byrne and Hoffmann.

#### Discussion Items

- 2. Status of ASR Well #1 Repair**  
Jon Lear reported that the District requested quotes from three firms. The responses would be forwarded to Pueblo, the project manager, to recommend the preferred consultant. This process should be complete by February or March 2020. Staff has contacted the California State Department of Drinking Water (DDW) to obtain the agency's comments regarding the project.
- 3. Update on ASR Construction**  
A summary of Maureen Hamilton's presentation is on file at the District office and can be viewed on the agency's website. She reported on progress made on construction of the Santa Margarita water treatment facility, and stated the project was two-weeks ahead of schedule.

**4. Discuss September Ranch**

General Manager Stoldt explained that the proposed residential community would be located between Rancho San Carlos Road and Valley Greens. The County of Monterey conditioned approval of the project on a requirement that the water supply be limited to one well sourced separately the Carmel River Alluvial aquifer. The plan was to form a mutual water company. The DDW now requires redundancy in the water supply. California American Water has refused to de-annex the property from its boundary, neither will it provide redundancy due to the CDO and the County's conditions. A mutual water company must be formed prior to submittal of the final subdivision map this summer, and no additional extensions will be allowed. The District was scheduled to meet on January 23, 2020 with the DDW and representatives of September Ranch in order to develop a solution.

**5. Update on Pure Water Monterey Project**

General Manager Stoldt reported that over 100 gallons of water from the Pure Water Monterey project were submitted for water quality testing. A report on the results would be submitted to the DDW, which was scheduled to conduct a final inspection of the facility on February 4, 2020. Staff could receive verbal approval from the DDW by February 7, 2020 and then injection would begin.

**6. Suggest Items to be Placed on Future Agendas**

There was consensus that at a future meeting, the committee should discuss whether the Board of Directors should make a recommendation to the California Coastal Commission on the Monterey Peninsula Water Supply Project. One Director also suggested that project updates provided at the committee level should be presented to the entire Board, as all Directors would benefit from the information.

**Adjournment:** The meeting was adjourned at 10:50 am.

**WATER SUPPLY PLANNING COMMITTEE****ITEM: ACTION ITEM****2. ADOPT 2020 COMMITTEE MEETING SCHEDULE****Meeting Date: February 5, 2020****From: David J. Stoldt,  
General Manager****Prepared By: Arlene Tavani****CEQA Compliance: This action does not constitute a project as defined by the California Environmental Quality Act Guidelines Section 15378.**

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**SUMMARY:** Shown below is a proposed committee meeting schedule for the remainder of 2020. The committee could suggest alternate meeting dates. If there are no items for discussion on one of the scheduled dates, the meeting can be cancelled. Note that due to a conflict with the Labor Day holiday, the September meeting is set for the first Wednesday of that month.**RECOMMENDATION:** The Committee should review the schedule and request changes, or adopt as presented.

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<b>Day of Week</b>	<b>Date</b>	<b>Time</b>
Monday	March 2	4:00 pm
Monday	April 6	4:00 pm
Monday	May 4	4:00 pm
Monday	June 1	4:00 pm
Monday	July 6	4:00 pm
Monday	August 1	4:00 pm
<b>Wednesday</b>	<b>September 2</b>	<b>3:30 pm</b>
Monday	October 5	4:00 pm
Monday	November 2	4:00 pm
Monday	December 7	4:00 pm
Monday	January 4	4:00 pm





## WATER SUPPLY PLANNING COMMITTEE

### ACTION ITEM

#### 3. CONSIDER APPROVAL FOR GRANT FUNDING FOR HASTINGS RESERVATION FORD REPLACEMENT ON FINCH CREEK

<b>Meeting Date:</b>	<b>February 5, 2020</b>	<b>Budgeted:</b>	<b>Yes</b>
<b>From:</b>	<b>David J. Stoldt General Manager</b>	<b>Program/ Line Item No.:</b>	<b>ERD/Fisheries 2-3-9</b>
<b>Prepared By:</b>	<b>Beverly Chaney</b>	<b>Cost Estimate:</b>	<b>\$100,000</b>

**General Counsel Approval:** N/A

**Committee Recommendation:** The Water Supply Planning Committee reviewed this item on March 28, 2019 and no action was taken.

**CEQA Compliance:** This grant is exempt as defined by the California Environmental Quality Act Guidelines section 15301(i). Project permitting will be handled by UC Berkeley.

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**SUMMARY:** Finch Creek, in upper Carmel Valley, is the primary tributary to Cachagua Creek, and is potentially one of the most productive, highest habitat value creeks downstream of Los Padres Dam. In normal and above water years, much of Finch Creek remains wetted, allowing steelhead to survive the summer and contribute to the overall success of the Carmel River watershed's steelhead population.

The wet stream crossing (ford) at UC Berkeley's (UCB) Hastings Natural History Reservation on Finch Creek was identified as a likely steelhead barrier with "inadequate passage" and was ranked 6<sup>th</sup> worst in the District's 2014 Steelhead Barrier Assessment Report. Removal of this barrier would allow unrestricted passage to an additional 3.5 miles of quality stream habitat in wet years. Work to remove other barriers further downstream is currently being undertaken by Trout Unlimited and their partners.

The concept of a partnership between MPWMD, UCB/ Hastings Reserve, and the State Coastal Conservancy (SCC) to fund the planning, permitting and construction of a replacement crossing on Finch Creek to improve steelhead passage was brought before the MPWMD's Water Supply Planning Committee for discussion in March 2019. Dr. Jennifer Hunter, Hastings' Director, gave a presentation and after a discussion and questions, the Committee gave its support to a District grant to help fund the project.

By the end of 2019, both UCB and the SCC were ready to move forward with the project. They need the grant money from the District to stay on-track this spring with the planning and permitting stage. Construction is planned for fall of 2020 with possible project completion by the end of this year.

**RECOMMENDATION:** Authorize the General Manager to approve the grant to the Regents of the University of California, Berkeley campus, for the work related to the replacement of the Finch Creek Ford at the Hastings Natural History Reservation for a not-to-exceed amount of \$100,000.

**IMPACT TO STAFF/RESOURCES:** Funds for this project are included in the FY 2019-2020 budget under “Aquatic Resources Fisheries” line item 2-3-9 Ford Removal @ Hastings Reservation”, Account Number 24-04-785870, \$100,000.

**EXHIBIT**

**3-A** Proposal from Regents University of California, Hastings Reservation, Finch Creek Ford Replacement Grant Request dated December 19, 2019.



## PROJECT NARRATIVE

The Hasting Natural History Reservation is located in the upper Carmel River Valley. Hastings has been a biological field station of UC Berkeley since 1937, and is one of the oldest field stations in the world. Hastings has been the site of hundreds of research studies documenting biological processes, geology and the cultural history of our region. The reserve is 2,500 acres in size and includes oak woodlands, chaparral and hardwood forest habitats.

Hastings also has three creeks that flow through the reserve, fed from a 22 mi<sup>2</sup> watershed. (Figure 1). While all three are considered to be seasonal creeks, the largest, Finch Creek, a tributary of Cachagua Creek, periodically flows year-round. In 1988 the University purchased a 2 acre parcel adjacent to the reserve at 38501 E. Carmel Valley Rd. to house the incoming Hastings Reserve director. This parcel included a low concrete ford crossing Finch Creek. In 1995 the ford was inundated and undercut during a flood. It was reinforced in 1996 with additional concrete and stone to protect existing utility lines and to maintain the structural integrity of the crossing. Since this time there has been significant sediment deposition upstream of the ford, and channel incision downstream of the ford has created a 6' plunge pool.

During high flows Finch Creek flows over the ford, and during low flows the creek runs through four small (10"-12") culverts imbedded in the concrete under the surface of the ford. Threatened Central California coast steelhead migrate from the ocean to spawning grounds in Finch Creek annually and during the late winter months large fish are regularly seen moving through the creek. During periods of high flow the ford is considered a "partial barrier" because adult steelhead are able to pass over the ford, however during low-flow conditions the ford becomes a complete barrier to fish migration (Figure 2).

An assessment by the Monterey Peninsula Water Management District in 2014 identified the Finch Creek ford as the 6<sup>th</sup> most significant barrier to steelhead passage in four of the major tributaries of the Carmel River watershed. Nearly four miles of excellent spawning and rearing habitat exist upstream of the ford. Since this time other fish passage barriers have been improved or replaced, while the Finch Creek ford remains a major impediment to steelhead migration in the upper watershed. The District and the Carmel River Steelhead Association (CRSA) perform annual rescues of young-of-the-year and juvenile steelhead in the Cachagua Creek watershed in late spring, before seasonal drying. This year the CRSA rescued over 2,600 fish from four sites along Finch Creek, including ~ 1,400 fish upstream of the ford.

The proposed project will begin the process of replacing the Finch Creek crossing to ensure that fish passage to the upper Carmel River watershed can be maintained, in both high- and low-flow years. We are acquiring funds for the planning and engineering phase of the Finch Creek Ford Replacement Project. We propose to engage a contractor to evaluate the geotechnical, hydrological and hydraulic aspects of replacing the current ford with a vehicular bridge that will facilitate passage by steelhead and other aquatic species; as well as, restore normal hydrological processes. The contractor will be responsible for providing 65% plans, submitting these plans to the appropriate agencies for permits, in coordination with UC Berkeley's department of Capital Projects. The contractor will ultimately provide 100% plans, after incorporating input from the

permit agencies and other project stakeholders. The State Coastal Conservancy (SCC) and Trout Unlimited have pledged staff support to assist the University as necessary.

The proposed grant would be instrumental in allowing us to remove of the ford. Hastings does not receive significant financial support from UC Berkeley. Each year we receive a small stipend to help offset operational costs, which translates to less than 10% of our annual budget. The remainder of our costs are paid from user fees and charitable donations. In most years, Hastings operates on a deficit, relying on endowment funds, and periodic large gifts to sustain reserve operations. Hastings has only two employees, and unlike on-campus resources, we are responsible for maintaining all of our facilities, vehicles and communications infrastructure. In the absence of grant funds, we will not have the resources to remove the ford. At present we have the support of the SCC, which administers a settlement fund set up to offset California American Water's excessive diversions from the Carmel River. Subsequent to the planning phase, SCC staff will seek board approval to grant UC Berkeley the balance of funds needed for the construction phase of the project.

## BROADER IMPACTS

The ford replacement will not only rectify a piece of failing infrastructure and improve spawning habitat for a imperiled species, but will also provide a unique study and research opportunity for students ranging from elementary to university graduate student level. The mission of the Hastings Reserve is to provide opportunities for research and education. Each year Hastings hosts hundreds of K-12 students, undergraduate courses, and graduate student retreats. These groups regularly inquire about the potential to be involved in data collection for on-going research projects, in order to learn new survey and monitoring techniques. However, current research at Hastings, provides few opportunities to involve visiting students.

The replacement of the ford on Finch Creek will have consequences for aquatic communities up- and downstream of the ford, and will significantly change the hydrology of the stream. We will work with researchers at UC Berkeley to develop a rapid-assessment monitoring protocol, beginning winter/spring 2020 to establish baseline flow and aquatic food web distribution. This effort will include surveying the following: 1. channel geometry, 2. sediment characteristics, 3. large woody debris, 4. the benthic macroinvertebrate community, 5. juvenile steelhead, 6. invasive species and 7. riparian vegetation. These protocols will be provided to visiting student groups to involve student-scientists in our ongoing monitoring work. Additionally, we will train a cohort of interns to help with supervision and survey planning.

We will also work with NOAA fisheries and UC Berkeley scientists to develop an antenna array to allow us to monitor the passage of tagged steelhead below the proposed vehicle bridge. In summer, 2019 NOAA deployed 73 PIT tags in young steelhead upstream of the ford, allowing mark-recapture opportunities in Finch Creek and beyond. It is our hope that steelhead monitoring in Finch Creek will augment other long-term aquatic monitoring programs throughout the watershed and provide additional information about migration timing, and population dynamics of steelhead in the upper watershed.

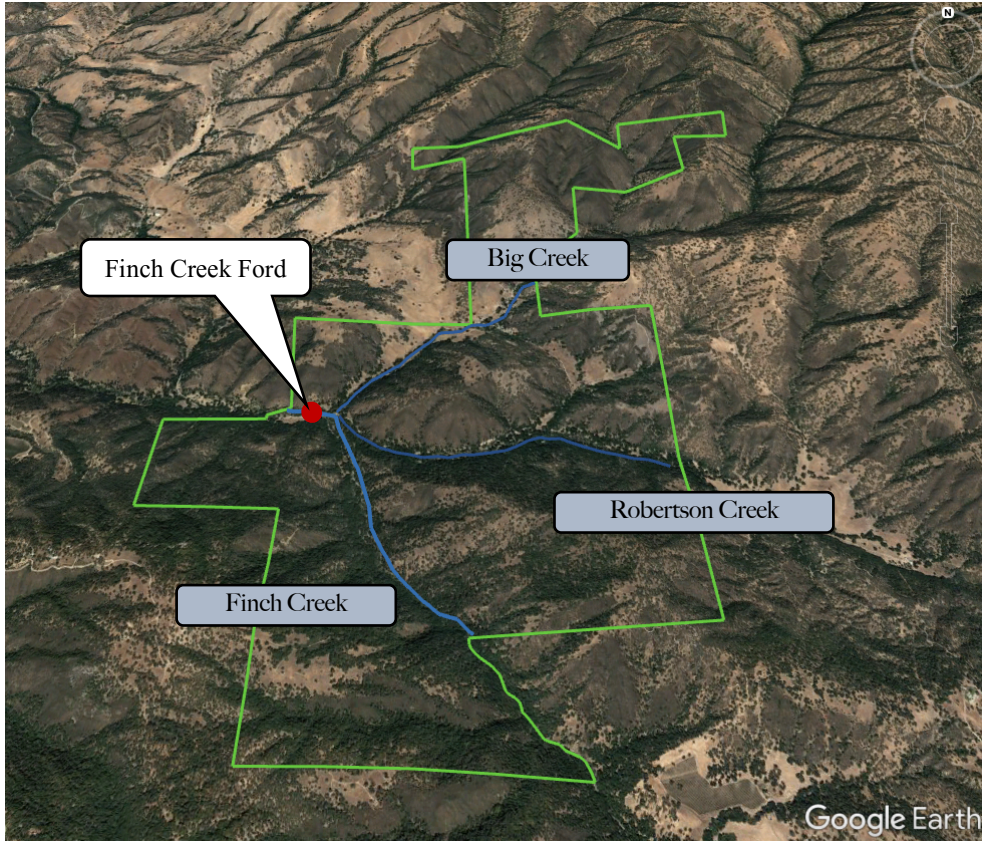


Figure 1. Hastings Reserve boundaries, with creeks. The Finch Creek ford is located near the entrance of the reserve (36.3788024, -121.5664295).

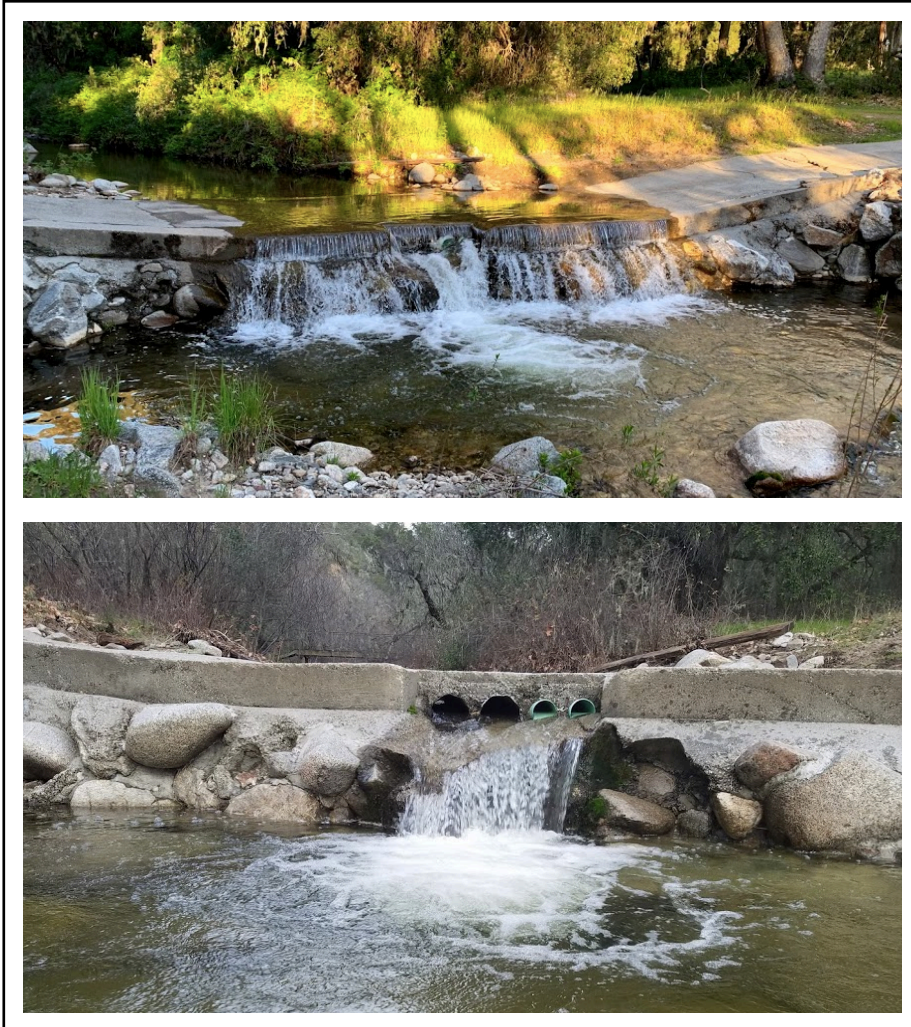


Figure 2: Finch Creek ford during high and low flows.

PHOEBE #:	24175	Federal	N	PERIOD 1	PERIOD 1	TOTAL
Principal Investigator:	Jennifer Hunter	NIH Cap	N	Direct:	100,000	02-01-2020
RFP/Solicitation:	N/A - emailed solicitation	Proj. Periods		Indirect:	-	12-31-2021
TOTAL BUDGET:	\$100,000	2 Years		Total:	100,000	23.0 Months

OTHER THAN PERSONNEL	Description	CS	IDC	INF	Amount	Total	Total
OTHER COSTS: Other:	Contractors/Suppliers	N		0%	100,000	100,000	100,000
<b>SUBTOTAL: OTHER COSTS</b>		UC-Berkeley				100,000	100,000
<b>TOTAL DIRECT COSTS</b>		UC-Berkeley				100,000	100,000
IDC #1 - NONE		UC-Berkeley		0.0%	-	-	-
<b>TOTAL COSTS</b>		UC-Berkeley				100,000	100,000
<b>DIRECT COSTS (NIH)</b>		Direct Costs minus Subcontract F&A):				100,000	100,000

DHHS Cost Allocation Services, Arif M. Karim, 415-437-7820



## BUDGET JUSTIFICATION

### **Other Direct Costs**

Contractors/Suppliers: We are requesting \$100,000 to engaging an environmental consulting firm. This contractor will perform necessary geotechnical, hydraulic and hydrologic analyses, and generate a design for a new vehicular bridge or culvert. This new crossing will meet County of Monterey design standards and provide for improved fish passage conditions in accordance with design guidance provided by NOAA Fisheries and the California Department of Fish and Wildlife. The contractor will be responsible for providing at least 65% plans, submitting these plans to the appropriate agencies for permits, and ultimately providing 100% plans, after incorporating input from the permit agencies and other project stakeholders.

Any grant funds remaining after the planning phase is completed will be used for project construction costs.

### **Indirect Cost Rate**

The Monterey Peninsula Water Management District does not allow for indirect costs.

## Jennifer S. Hunter

Hastings Natural History Reservation  
 University of California, Berkeley  
 38601 E. Carmel Valley Rd  
 Carmel Valley, CA 93924  
 email: jshunter@berkeley.edu  
 tel: (831) 659-2664

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### EDUCATION

- Ph.D. in Ecology (2008)      University of California, Davis  
 Dissertation: Adaptations to intraguild competition in mesocarnivores.  
 Advisor: Tim Caro
- B.S. in Wildlife Science (2002)      University of Washington  
 Thesis: Spatial movement in black and white ruffed lemurs (*Vareica variegata*)  
 Advisor: Steve West

### PROFESSIONAL APPOINTMENTS

Resident Director	Hastings Natural History Reservation University of California, Berkeley	2018-Present
Associate Specialist	University of California, Berkeley	2017-2018
Project Leader	Panthera	2015-2018
Academic Coordinator	University of California, Berkeley	2014-2017
Research Analyst	Monterey Bay Aquarium	2012-2015
Stewardship Volunteer	Audubon California	2009-2010
Graduate Student Researcher	University of California, Davis	2008-2009
Graduate Student Researcher	University of California, Davis	2004
Field Instructor	State University of New York	2002-2004, 2006

### RESEARCH EXPERIENCE

2015-2018	East Bay Mountain Lion Project: Mountain lion ecology and human-wildlife conflict in a highly fragmented landscape
2006-2008	Predator response to aposematic signaling by striped skunks
2004-2007	Antipredator behavior of cheetahs in Serengeti National Park
2002-2005	Affiliative and agonistic interactions between semi-free ranging coastal bottlenose dolphins
2000	Spatial associations and vocalizations in groups of black and white ruffed lemurs
1999	Interspecific avoidance by Namibian carnivores

### PEER-REVIEWED PUBLICATIONS

Smith J, **Hunter J**, Gaynor K, Keller C, Palmer M, Suraci J, Atkins J, Castañeda I, Cherry M, Garvey P, Huebner S, Morin D, Teckentrup L, Weterings M, Beaudrot L. *In review*. Snapshots across scales: camera traps provide new insights into predator-prey ecology. *Frontiers in Ecology and the Environment*.

Bidder O, di Virgilio A, **Hunter J**, McInturff A, Gaynor K, Smith A, Rossell F. *Accepted*. A novel approach for studying canid scent marking: leveraging advances in data science and biologging techniques. *Scientific Reports*.

**Hunter J.S.** 2015. King mackerel & Spanish mackerel: U.S. Atlantic, U.S. Gulf of Mexico. Monterey Bay Aquarium Seafood Watch Program. 63pp.

**Hunter JS.** 2014. Cobia: US Wild-caught. Monterey Bay Aquarium Seafood Watch Program. 62pp.

**Hunter JS.** 2013. Mahi mahi and Wahoo: US troll fishery. Monterey Bay Aquarium Seafood Watch Program. 42pp.

**Hunter JS.** 2013. Mahi mahi: Ecuador, Peru and Costa Rica. Monterey Bay Aquarium Seafood Watch Program. 49pp.

Caro T, Stankowich T, Kiffner C, **Hunter J.** 2013. Are spotted skunks conspicuous or cryptic? *Ethology, Ecology & Evolution* 25:144-160.

**Hunter JS.** 2009. Familiarity breeds contempt: Effects of striped skunk color, shape and abundance on wild carnivore behavior. *Behavioral Ecology* 20: 1315-1322

**Hunter JS**, Caro TM. 2008. Patterns of interspecific competition in American carnivore families. *Ethology, Ecology and Evolution* 20: 295-324. (Invited article)

Sergio F, Caro TM, Brown D, Clucas B, **Hunter JS**, Ketchum J, McHugh K, Hiraldo F. 2008. Top predators as conservation tools: ecological rationale, assumptions and efficacy. *Annual Review of Ecology, Evolution and Systematics* 39: 1-19

**Hunter JS**, Durant SM, Caro TM. 2007. Factors affecting scavenger arrival at carcasses in Serengeti National Park. *African Journal of Ecology* 45: 275-281.

**Hunter JS**, Durant SM, Caro TM. 2007. To flee or not to flee: Scavenger avoidance by cheetahs at kills. *Behavioral Ecology and Sociobiology* 61: 1033-1042.

**Hunter JS.** 2002. Sex differences in vertical ranging in black and white ruffed lemurs (*Varecia variegata*) in Ranomafana National Park, Madagascar. *American Journal of Primatology* 57 (S1): 30.

## SELECT PRESENTATIONS

The Hastings Reserve. 2019. School of Natural Science Seminar Series. Cal State Monterey Bay. Seaside, CA

The Hastings Reserve. 2019. Camel Valley Public Library. Carmel Valley, CA

Skunk's Life. 2019. Monterey County Regional Park District. Camel-by-the-Sea, CA

The Hastings Reserve. 2018. Carmel Foundation, Carmel-by-the-Sea, CA

Skunk's Life. 2018. Oakland 4H Club Seminar, Oakland, CA

Skunks: The Most Interesting Animals in the World. 2018. Wild St. Helena Seminar Series, Napa, CA.

Skunks! 2017. Wild Napa Seminar Series, Napa, CA.

East Bay Mountain Lion Project. 2017. East Bay Regional Park District Stewardship Meeting, San Leandro, CA.

King mackerel, Spanish mackerel. 2015. Monterey Bay Aquarium Seafood Watch Program, Monterey, CA.

Cobia. 2014. Monterey Bay Aquarium Seafood Watch Program, Monterey, CA.

Mahi mahi, wahoo. 2013. Monterey Bay Aquarium Seafood Watch Program, Monterey, CA.

Carnivore avoidance of striped skunks. 2009. Sierra Nevada Aquatic Research Laboratory Seminar Series. Mammoth Lakes, CA.

## TEACHING EXPERIENCE

University of California, Berkeley

Research in Trail Design (independent study). Course Instructor 2019

State University of New York

Tropical Marine Ecology (Field Course). Field Instructor 2002-2004, 2006.

Field Methods (Field Course). Field Instructor. 2002-2004, 2006.

University of California, Davis

Behavioral Ecology (WFC 141). Invited Speaker (Warning signals and aposematism). 2008.

Principles of Environmental Science (ESP 110). Invited Speaker (Conserving carnivore habitat). 2007.

## HONORS AND FELLOWSHIPS

Biodiversity and Ecosystem Services Training Network Fellow, 2008, Arizona State University

Alliance for Graduate Education and the Professoriate Fellow, 2007, University of California, Davis

Valentine Eastern Sierra Reserve Research Grant, 2007, University of California, Santa Barbara

Institutional Support Fellowship, 2006, University of California, Davis

Graduate Research Fellowship, 2003-2005, National Science Foundation

Non-Resident Tuition Fellowship, 2002, University of California, Davis

Dean's List, 1997-2002, University of Washington

Minority Achievement Award Scholarship, 1997, Western Washington University (*Declined*)

## EDITORIAL SERVICE

Animal Behaviour

Behavioral Ecology

Biology Letters

Ecological Research

Journal of Mammalogy

Journal of Wildlife Management

Cornell University

Arctic

Behavioral Ecology and Sociobiology

Ecography

Journal of Animal Ecology

Journal of Natural History

Journal of Zoology

## PROFESSIONAL AFFILIATIONS

California Mountain Lion Working Group

Society for Conservation Biology  
Ecological Society of America  
IUCN Small Carnivore Specialist Group



# CARMEL MIDDLE SCHOOL

## C O U G A R S



Dan Morgan, Principal  
Sarah Greco, Counselor

Carmel Unified School District

Jennifer Kasper, Assistant Principal  
Melissa Magreta, Counselor

12/16/19

To whom it may concern,

The Carmel River Watershed is an important part of the learning experience for students at Carmel Unified Schools. Six of the seven Carmel Unified Schools lie within the Carmel River Watershed and the river is an integral part of the student experience at all Carmel Unified Schools. The proposed project to the Monterey Water Management District at Hastings Natural History Research Reserve has many valuable opportunities for elementary, middle school, and high school students to study Finch Creek as it travels into the Carmel River. This project would open the doors for many valuable hands-on, inquiry lessons about water chemistry, ecology, history, and natural history.

Last September over 200 seventh graders from Carmel Middle School visited Hasting Natural History Research Reserve as part of the Monterey Bay Outdoor Education Week for the first time in many, many years. Students, teachers, and administrators valued the trip because they were able to connect science, history, and natural history with the unique environment of Carmel Valley. This educational partnership between CUSD and Hastings is something that we want to continue, and a lesson focused around our watershed at Hastings would be a great addition. In conclusion, I support the proposed project and am interested in working with Hastings reserve to develop experiences around the Carmel River Watershed that will students will not forget. Please do not hesitate to contact me if there are any questions.

Sincerely,

Darrell Steely  
dsteely@carmelunified.org

Science Teacher  
Habitat Liaison  
Instructional Coach  
Carmel Unified School District

**Carmel River Watershed Conservancy**  
**PO Box 223833, Carmel, CA 93922**



**Board of Directors:**

Michael Waxer, Past President  
 Lorin Letendre, President  
 Paul Bruno, Vice President  
 Abbie Beane, Interim Exec Director  
 Andy Magnasco, Treasurer  
 Jennifer Duggan, Secretary  
 Catherine Stedman  
 Jen Hunter  
 Scott Hennessy

Re: Finch Creek Ford Replacement Project grant proposal  
 December 11, 2019

Dear Monterey Peninsula Water Management District:

The Carmel River Watershed Conservancy (CRWC) is offering its support for the Finch Creek Ford Replacement Project grant proposal (2019). CRWC's primary objective is to restore the health and beauty of the Carmel River, and that includes its threatened species. One of those species is the threatened Central California coast steelhead, which is also a key indicator species for watershed health. This project will address the urgent need to remove the sixth most significant barrier to fish passage among the remaining barriers in the Carmel River and its tributaries. Also, the Carmel River Task Force, which CRWC chairs, lists as one of its highest priorities the removal of fish passage barriers. The Finch Creek ford currently inhibits steelhead from migrating from the ocean back upstream to their spawning grounds.

Hastings Natural History Reservation is well positioned to carry out this work given its history as a UC Berkeley field station for more than 80 years. Hastings brings a unique set of knowledgeable researchers and has supported hundreds of research studies focused on biological processes. The location is perfectly suited to carry out this type of work.

The need for this project is significant. In 1999 the Carmel River, which provides incredible utility and recreation for our region, was listed among the top 10 most endangered rivers in the U.S. While all of our hard work has put the River on a path to restoration, our watershed continues to experience extreme conditions including drought years. In 2019, we saw a record number of steelhead resume their natural migration patterns, however, a record number of juvenile steelhead were also rescued by the Carmel River Steelhead Association, and nearly 15% of those were in Finch Creek alone. It is critical that we continue to support efforts that restore the River to its natural condition.

Sincerely,

Abbie Beane  
 Interim Executive Director



David Stoldt, General Manager  
The Monterey Peninsula Water Management District  
5 Harris Court, Building G  
Monterey, CA 93940

December 19, 2019

RE: Removal of Fish Barrier on Finch Creek, Hastings Reserve

Dear Mr. Stoldt:

I am writing you in support of a proposed project to remove a barrier to salmon migration on Finch Creek, an important tributary to the Carmel River. Your agency has generously agreed to help fund the removal and replacement of a concrete ford on the Hastings Natural Reserve. Your funding will be critical to plan and design a replacement structure. This project will have multiple benefits including providing fish migration on all flows, restoration of natural sediment transport; as well as, providing reliable all-weather access to the field station's housing. As you may know, the Coastal Conservancy administers the Carmel River Settlement Account, on behalf of NOAA and its partners. We feel that this is a high priority project and a good candidate for funding from the Settlement Account. Therefore, once designs reach a 65% level of completion and permits are obtained, we intend to recommend to the Conservancy board of directors that the Settlement fund be used to complete the project. And UC administration at the Berkeley campus has committed to match our funding commitment by covering its project staff costs. We are very excited to see this project move forward in 2020.

Please contact me at 510 286-7028 if you have any questions or concerns.

Sincerely,

A handwritten signature in cursive script that reads "Tom Gandesbery".

Tom Gandesbery  
Project Manager

cc: Jen Hunter, Hastings Reserve



## WATER SUPPLY PLANNING COMMITTEE

### ACTION ITEMS

#### 4. RECOMMEND FUNDING PLAN FOR PURE WATER MONTEREY ADVANCED WATER PURIFICATION ELECTRICAL FACILITIES

<b>Meeting Date:</b>	<b>February 5, 2020</b>	<b>Budgeted:</b>	<b>N/A</b>
<b>From:</b>	<b>David J. Stoldt General Manager</b>	<b>Program/ Line Item No.:</b>	<b>N/A</b>
<b>Prepared By:</b>	<b>David J. Stoldt</b>	<b>Cost Estimate:</b>	<b>Not to exceed \$700,000</b>

**General Counsel Approval:** N/A

**Committee Recommendation:**

**CEQA Compliance:** Covered by Pure Water Monterey certified FEIR.

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**SUMMARY:** In October 2016, the Monterey One Water (M1W) Board approved an Energy Supply Option Analysis for the Advanced Water Purification Facilities (AWPF.) Based on the results of that analysis, the AWPF will be served by both PG&E and the biogas electrical generation plant at the Monterey Regional Waste Management District (MRWMD).

In August 2018, the Monterey Regional Waste Management District (MRWMD) informed M1W that they were not ready to expand the co-generation system and the proposed PG&E Meter and Switchgear would not be able to be constructed as part of MRWMD's current PG&E application. The designers worked with MRWMD and M1W staff to come up with an alternative approach to provide power from MRWMD to the AWPF without the need to change the existing PG&E Meter and Switchgear.

The power supply for the AWPF Project is envisioned to come from two sources:

1. **PG&E Power.** Medium voltage (21kV) power from a new PG&E primary service connection to the AWPF (AWPF MV Switchgear). This is the initial power for the AWPF to meet the program schedule for producing purified water.
2. **MPRWD-to-AWPF Power.** Medium voltage (21kV) power from the adjacent MPRWD co-generation facilities. A new MPRWD MV Switchgear would deliver cogeneration power to both PG&E and to the AWPF. The MPRWD-to-AWPF power would be delivered over MPRWD-owned power lines.

Option 2, which is the preferred long-term permanent solution, will cost approximately \$1.5 million. In July of 2019, it was thought this solution would be only approximately \$400,000 but with final design and specifications the estimate has gone up over 300%. It is expected that bids will be received March 12, 2020 and awarded by M1W on March 30th, which means construction will be after facility operations begin, the Anderson Pacific AWPF construction contract is closed

out, and the State Revolving Fund (SRF) loan is finalized and closed. Hence, the cost of the MV Switchgear is likely to be an unreimbursed construction period cost.

Amendment 3 of the MPWMD-M1W Cost Sharing Agreement says:

**1.(d) Unreimbursed Construction Period Costs Defined**

From March 1, 2017 through December 31, 2020, there may occur project related costs that are not allowed to be capitalized to the project and paid or reimbursed by State Revolving Fund Loans. Examples of those costs include, among others:

1. Public Outreach
2. Geochemical Water Quality Modeling
3. Groundwater Basin Modeling
4. Facility Expansion Design and Engineering
5. Regulatory Proceedings
6. Expansion Environmental Scoping and Review
7. Expansion Permitting

**1.(e) Financing of GWR Unreimbursed Construction Period Costs**

MPWMD shall pay seventy-five percent (75%) of such costs, and M1W shall pay twenty-five percent (25%) of such costs.

Because of the magnitude of the cost, M1W and the District have agreed to seek contributions from two other parties, Marina Coast Water District and MRWMD. Based on the pre-bid estimate, a proposed funding plan is as follows:

\$1,500,000 total cost  
 \$ 208,500 Marina Coast Water District (13.9% allocation)  
 \$ 400,000 MRWMD  
 \$ 668,250 District (75% of remainder)  
 \$ 222,875 M1W (25% of remainder)

**RECOMMENDATION:** The Committee should recommend to the Board this proposed funding plan for the MV Switchgear, to be adjusted for the actual bid received, with District portion not to exceed \$700,000.

If approved, this item will go to the District's Administrative Committee and Board at their March 2020 meetings, utilizing the actual bid numbers.

**BACKGROUND:** The MPRWD cogeneration facility, located adjacent to the AWPf site, produces power that is presently sold to PG&E. Monterey One Water (M1W) negotiated with the MPRWD to provide some of the cogeneration power directly to M1W for the AWPf project.

Because the MPRWD MV Switchgear would be changed to permit providing power to both PG&E and the AWPf, it was the team's (MPRWD, M1W and Kennedy Jenks) understanding that PG&E

consultation and approval would be needed for constructing and implementing the MPRWD-to-AWPF power supply. The MPRWD had already submitted an application in 2015 to the PG&E Generation-Distribution Planning/Interconnection Group for changes to the MPRWD's service connection.

From discussions with PG&E Service Planning Group, it was the team's understanding that a new MPRWD MV Switchgear to provide power to both PG&E and the AWPF would need review by the Distribution Planning/Interconnection Group and could be a part of the MPRWD's 2015 service application change.

M1W submitted a separate application to PG&E Service Planning Group in November 2016, for a new primary service to the AWPF Project. The team's approach was to focus on getting the relatively straight-forward new primary service to the AWPF, in parallel with working with PG&E for the consultation and approvals that would be needed for constructing and implementing the MPRWD-to-AWPF power supply system.

A summary of the timelines for the PG&E Power and the MPRWD-to-AWPF Power for the AWPF Project are provided below:

#### **AWPF Power and MPRWD-to-AWPF Power Timeline**

- MPRWD submitted service change application to PG&E Generation/Interconnection Group – 2015.
- M1W submitted application for AWPF MV service to PG&E Service Planning Group – Nov. 2016 along with 60% design drawings.
- Discussed MPRWD-to-AWPF power concepts with PG&E Service Planning Group – March 2017.
- Completed AWPF MV Switchgear design. Bid with overall AWPF project – May 2017. Submitted final AWPF MV service design drawings to PG&E.
- Completed 90% MPRWD-to-AWPF Design – submitted to MPRWD for Review – Sept. 2017
- Completed 100% MPRWD-to-AWPF Design – submitted to MPRWD for Review – Jan. 2018
- Discussed MPRWD-to-AWPF power concepts with PG&E Service Planning Group – Feb 2018. Was told to contact the Generation/Interconnection Group for this coordination.
- Received preliminary PG&E Service drawings for the AWPF MV Switchgear in March 2018. Met with PG&E at AWPF site.

- MPRWD communicated with PG&E Generation/Interconnection Group about the MPRWD- to-AWPF power concepts – August 2018. Was told to contact the PG&E Service Planning Group for this coordination.
- MPRWD requested a meeting with both PG&E Generation/Interconnection Group and Service Planning Groups to correct mis-understandings and conflicting information from PG&E regarding consultation and approval for the MPRWD-to-AWPF power supply – August 2018.
- AWPF Power: PG&E Conduit installed to AWPF MV Switchgear location. Installed switchgear in Sep 2018.
- Requested PG&E install meter and power conductors in October 2018.
- PG&E Power available late 2018.
- Authorized re-design of new MPRWD MV switchgear based on MPRWD and PG&E comments to the MPRWD-to-AWPF Design in 2019. Unable to include revisions in AWPF contract with Anderson Pacific.

**EXHIBITS: None**