Contra Costa County
Fish and Wildlife Committee (FWC)
Date: February 20, 2019
Time: 3:00 p.m.

Location: County Public Works Department Road Maintenance Division lunch room (squad room)
2475 Waterbird Way, Martinez CA 94553
(Map is attached.)

AGENDA

3:00 p.m. Convene meeting.

1) Introductions and Statement of Conflict. A member who has a conflict should, prior to consideration of the decision: (1) publicly identify in detail the financial interest that causes the conflict; (2) recuse himself/herself from discussing and voting on the matter; and (3) leave the room until after the decision has been made.

2) Review/Approve minutes from the January 16, 2019 meeting.

3) Public comment. Includes public comment on topics on the agenda and items not listed on the agenda. The FWC shall also accept public comment on agenda items at the time they are discussed.

4) Updates and announcements from staff and FWC members. Includes discussion of implementation of actions authorized previously, correspondence received, and upcoming meetings of interest to the FWC.

5) Review and accept the final report from Contra Costa Resource Conservation District for their 2018 “Morgan Territory Pond 7 Project Phase 2” project.

6) Continue to discuss outcome of the September 13, 2018 Fall Forum and consider plans and potential speakers for 2019.

7) Continue to consider the 13 Fish and Wildlife Propagation Fund applications submitted by January 7, 2019. Consider making a recommendation to the Internal Operations Committee of the Board of Supervisors on this matter.

8) Determine the 2019 FWC meeting schedule.
9) **Determine the agenda for the next meeting.** The next meeting is to be determined. Possible agenda items for upcoming meetings include:

- Election of Officers
- Web Page Review
- IPM Update
- Draft Annual Report/Work Plan
- 2020 Grant RFP
- Discuss Fall Forum

**Adjourn**

The Committee Chair may alter the order of agenda items at the meeting.

Please contact Maureen Parkes at 925-674-7831 / maureen.parkes@dcd.cccounty.us (or Abigail Fateman at 925-674-7820 / abigail.fateman@dcd.cccounty.us) at the CCC Department of Conservation and Development if you have questions about the Fish & Wildlife Committee or desire materials related to this agenda. Any disclosable public records related to an open session item on a regular meeting agenda and distributed to a majority of the FWC members less than 72 hours before the meeting are available for public inspection at 30 Muir Road in Martinez during business hours. The FWC will provide reasonable accommodation for persons with disabilities planning to participate in this meeting who contact staff at least 72 hours before the meeting.
From Hwy 680:
1. Merge onto CA-4W
2. Continue with the directions from Hwy 4.

From Hwy 4:
1. Take the Pacheco Blvd exit.
2. Merge onto Pacheco Blvd.
3. Turn onto Blum Road (North past Police Department).
4. Turn right onto Imhoff Drive (a cemetery is at the corner of Blum and Imhoff).
5. Turn left onto Waterbird. (There is a Top Soil / Clean Dirt sign at the corner).
6. Turn left onto the Public Works Maintenance building after you pass County’s gas pumping station. Once you are in the parking lot, pass the building on your right. Park your car near the side entrance (not the front entrance). Enter through the side entrance.

Our meeting room is on your left once you enter the building. Please ask the receptionist to direct you if you have trouble finding the meeting room.
1) **Introductions and Statement of Conflict.** A member who has a conflict should, prior to consideration of the decision: (1) publicly identify in detail the financial interest that causes the conflict; (2) recuse himself/herself from discussing and voting on the matter; and (3) leave the room until after the decision has been made.

Clark Dawson, Roni Gehlke, Susan Heckly, Kathleen Jennings, Nicole Kozicki, Daniel Pellegrini, Heather Rosmarin and Jeff Skinner attended the meeting. Judy Bendix and Brett Morris provided advance notice that they would not be able to attend the meeting. Kelly Davidson (Mt. View Sanitary District), Helen Fitanides (The Watershed Project), Phil Kohlmetz (International Bird Rescue), and James Roberts (Marine Science Institute) attended the meeting. Maureen Parkes (CCC Department of Conservation and Development) attended as staff.

2) **Review/Approve minutes from the July 18, 2018 meeting.** The minutes were approved as written.

   **Vote:** 7 - 0  
   **AYES:** Dawson, Gehlke, Heckly, Jennings, Pellegrini, Rosmarin and Skinner  
   **ABSENT:** Bendix and Morris  
   **ABSTAIN:** None

3) **Public comment.** Includes public comment on topics on the agenda and items not listed on the agenda. The FWC shall also accept public comment on agenda items at the time they are discussed. There were no public comments.

4) **Updates and announcements from staff and FWC members.** Includes discussion of implementation of actions authorized previously, correspondence received, and upcoming meetings of interest to the FWC.

Maureen Parkes updated the FWC on the following:

- Brett Morris and Judy Bendix provided advance notice that they would not be able to attend the meeting today.
- **Membership Update:**
  - The Board of Supervisors reappointed Roni Gehlke and Kathleen Jennings on October 16, 2018 to the At-large 1 and 2 positions (respectively) for four-year terms expiring on December 31, 2022.
  - The Board of Supervisors appointed Nicole Kozicki on October 16, 2018 to complete the vacant At-large Alternate I position with a term expiring December 31, 2020.
  - The District IV and District V positions will expire on February 28th.
  - Staff sent an updated roster to the Committee members via email on January 16th.
- In September 2018, due to the amount of time before the next regular meeting in November, Kathleen Jennings and Danny Pellegrini reviewed and approved The Watershed Project’s 2017 final report so that they could be reimbursed in a timely manner.
- Rodney Smith contacted the Danville Manager of Transportation and was successful in having two deer crossing advisory signs placed on Camino Tassajara Road.
A gentleman from West Danville called in stating that he saw a Nutria near his home. Staff advised him to contact the CA Department of Fish and Wildlife and also provided a website to report the siting on: https://www.wildlife.ca.gov/Conservation/Invasives/Report

Correspondence items forwarded to the Committee:

- Emails from Committee Members
  - Ceremony Announcement from Kathleen Jennings: Cal State East Bay Concord Campus Wins O.W.L. Award – Campus Switches from Poison to Owl Boxes and Raptor Perches – January 16, 2019 – 11 a.m.
  - Forwarded email from Jeff Skinner – KTVU News Article: Death on the Delta puzzles fishing community and state officials
  - Forward emails from Heather Rosmarin regarding Grayson Creek Cleanup – 2018 Pleasant Hill Community Service Day - September 22, 2018

- Board of Supervisors eUpdates
  - eUpdates from Supervisor Mitchoff (2)
  - eUpdate from Supervisor Gioia

- California Fish and Game Commission Notices (34)

- Invitations
  - Invitations from Marine Science Institute to explore the San Francisco Bay on November 17, 2018 and the Delta on February 9, 2019
  - Invitation from Urban Tilth to their Speak & Eat event on November 17, 2018 at Point Molate Beach Park
  - Invitation to Pleasant Hill Instructional Garden’s Open House on October 28, 2018
  - Invitation from International Bird Rescue to their annual open house on October 20, 2018

- IPM Committee and Subcommittee emails (11)

- Newsletters and Announcements
  - John Muir Land Trust Horizons Newsletter
  - League of Women Voters – Bay Area Monitor and Monitor Notes (14)
  - Lindsay Wildlife Experience (3)
  - Pleasant Hill Instructional Garden
  - River Otter Ecology Newsletter
  - Save Mount Diablo – Recent News, Announcements, and Field Notes (2)
  - The Gull – Newsletter of the Golden Gate Audubon Society
  - Urban Bee Lab – The Buzz (2)

Nicole Kozicki advised the FWC that the civil portion of the Tong case was resolved and that $150,000 will be directed to the Contra Costa County Fish and Wildlife Propagation Fund.

Heather Rosmarin informed the Committee that she would be presenting the results of the Grayson Creek Bird Survey, a community science project to document avian diversity in Grayson Creek, on April 4, 2019 at the Contra Costa County Watershed Forum and at the Mt. Diablo Audubon Society monthly meeting. She will circulate more details when available.
5) Consider the following CONSENT items:

a) Review and accept the letter of appreciation from Lindsay Wildlife Experience for their 2018 “Physiologic Monitoring Equipment Needs in a Triage Wildlife Hospital” project.

b) Review and accept the letter of appreciation from Golden Gate Audubon Society for their 2017 “Eco-Richmond/Bird Friendly Schools Program” project.

c) Review and accept the progress report from The Watershed Project for their 2018 “Monitoring Water Quality in Contra Costa County Watersheds” project.

d) Review and accept the progress report from Regional Parks Foundation for their 2018 “Kids Healthy Outdoors Challenge” project.

e) Review and accept the final report from Marine Science Institute for their “2018 Delta Education Supplies” project.

f) Review and accept the final report from Worth a Dam for their “Build a Beaver Pond project”.

The FWC reviewed and accepted Consent Items 5a, 5b, 5c, 5d, 5e and 5f.

   Vote:  7 - 0
   AYES:  Dawson, Gehlke, Heckly, Jennings, Pellegrini, Rosmarin and Skinner
   ABSENT:  Bendix and Morris
   ABSTAIN:  None

6) Review and accept the progress report from Mills College on their 2017 “Ecology of Fear: What Stresses Out Wild Mammals?” project. Consider their request for an extension of time to complete the project. The FWC reviewed and accepted Mills College’s progress report and approved their request for an extension of time to complete their project.

   Vote:  7 - 0
   AYES:  Dawson, Gehlke, Heckly, Jennings, Pellegrini, Rosmarin and Skinner
   ABSENT:  Bendix and Morris
   ABSTAIN:  None

7) Review and accept the final report from Earth Team for their 2017 “Research, education and habitat improvement on Marsh Creek” project. Consider their request to utilize $770 in remaining funds for travel and per diem expenses. The FWC reviewed and accepted Earth Team’s final report and their request to utilize $770 in remaining funds for travel and per diem expenses.

   Vote:  7 - 0
   AYES:  Dawson, Gehlke, Heckly, Jennings, Pellegrini, Rosmarin and Skinner
   ABSENT:  Bendix and Morris
   ABSTAIN:  None

8) Review and accept the final report from UC Berkeley for their 2017 “Farming for Native Bees” project. Consider their request to utilize $500 in remaining travel funds for a bee taxonomist. The FWC reviewed and accepted UC Berkeley’s final report and approved their request to utilize $500 in remaining travel funds for a bee taxonomist.

   Vote:  7 - 0
   AYES:  Dawson, Gehlke, Heckly, Jennings, Pellegrini, Rosmarin and Skinner
   ABSENT:  Bendix and Morris
   ABSTAIN:  None
9) **Review and consider a request from UC Berkeley for an extension of time to complete their 2018 “Native Bees in Urban Brentwood and Agricultural Brentwood” project.** Consider their request to utilize approximately $1,761 in remaining travel funds for a bee taxonomist. The FWC reviewed and approved UC Berkeley’s request for an extension of time to complete their project and approved their request to utilize approximately $1,761 in remaining travel funds for a bee taxonomist.

**Vote:** 7 - 0  
**AYES:** Dawson, Gehlke, Heckly, Jennings, Pellegrini, Rosmarin and Skinner  
**ABSENT:** Bendix and Morris  
**ABSTAIN:** None

10) **Discuss outcome of the September 13, 2018 Fall Forum and consider plans and potential speakers for next year.** The Committee discussed the successful outcome of the Fall Forum: the interesting presentation on bees by Professor Gordon Frankie, good attendance, and great food prepared by Danny Pellegrini and his crew. Of special note, at the Fall Forum this year, was the honoring of Nicole Kozicki upon her retirement from the California Department of Fish and Wildlife by joint resolution of United States Congressmen Thompson, DeSaulnier, Swalwell and McNerney; joint resolution of California State Assemblymembers Frazier and Grayson; joint resolution of California Assemblymember Baker and California Senator Glazer; and the Contra Costa County Board of Supervisors. Nicole’s contributions through directing Fish and Game fines for nearly 30 years to the Contra Costa County Fish and Wildlife Propagation Fund funded many community projects that benefit the protection, conservation, propagation, and preservation of fish and wildlife in the County.

The Committee continued the discussion of the 2019 Fall Forum to the February 20, 2019 meeting.

11) **Review and consider approving the draft 2018 work plan and annual report to the Board of Supervisors.** The Committee reviewed and approved the 2018 work plan and annual report with two additional items.

**Vote:** 7 - 0  
**AYES:** Dawson, Gehlke, Heckly, Jennings, Pellegrini, Rosmarin and Skinner  
**ABSENT:** Bendix and Morris  
**ABSTAIN:** None

12) **Consider the 13 Fish and Wildlife Propagation Fund applications submitted by January 7, 2019.** Consider inviting one or more organizations to the following meeting if the Committee has further questions on their grant proposals.

As per a memo dated January 18, 2011, one member provided disclosure regarding potential or perceived conflicts of interest. Kathleen Jennings disclosed that she is a Board member on the Peyton Slough Wetlands Advisory Committee, an organization that has a relationship to Mt. View Sanitary District which had applied for a grant. The grants were reviewed and discussed in detail. Kelly Davidson (Mt. View Sanitary District), Helen Fitanides (The Watershed Project), Phil Kohlmetz (International Bird Rescue), and James Roberts (Marine Science Institute) provided additional verbal information in response to the Committee’s questions regarding their grant applications and will provide supplemental information for the Committee’s review at the February 20, 2019 meeting. The Committee directed staff to contact Contra Costa Resource Conservation District and Greens at Work for additional information. The consideration of the grant applications was continued to the February 20, 2019 meeting.
13) **Determine the agenda for the next meeting.** The next meeting is February 20, 2019. Possible agenda items for upcoming meetings include:

- Continue review Fish and Wildlife Propagation Fund grant applications
- Election of Officers
- Continue to discuss outcome of the September 13, 2018 Fall Forum and consider plans and potential speakers for 2019.
Final Report for Morgan Territory Pond 7 Project Phase 2

Dear Fish and Wildlife Committee:

Fall of 2018, the second phase of the Morgan Territory Pond Project was completed. Road and gully work were performed to reduce water concentration from developing upon the road and discouraging sediment transport from entering a stock pond with known California red-legged frogs. About 425 feet of access road was decommissioned and shaped into a road-side swale where it ties into the stock pond (Pond 7). The entire length of the swale was staked with biodegradable erosion control fabric and seeded with a native seed mix. Roughly 575 cubic yards of accumulated sediment was excavated from Pond 7. Spoil placement was limited to a low gradient location adjacent to swale. The spoil placement pile was seeded with a native grass and forb mix. With Fish and Wildlife Committee funds, two 30-pound bags of native seed mix were ordered from Pacific Coast Seed, Inc. All 60 lbs of seed were broadcast by hand along the swale, spoils pile, staging areas, and culvert replacement area after construction was completed. Materials for the fencing were picked up at Tractor Supply and delivered by the CCRCD to the pond site. Temporary exclusionary fence was installed to prevent animal impacts and promote seedling establishment along the swale area.

This project directly improves breeding habitat for the California red-legged frog (CRLF). By addressing storm runoff in the uplands and road network, soil erosion and water quality issues have been reduced long term. The ecological health and wildlife habitat associated with this aquatic microcosm of biodiversity has been restored and maintained for longevity and function.

Funding amount awarded: $2,300

Funds applied for material and seed: $1,878.47

The Contra Costa RCD is grateful for the Committee’s financial assistance with purchasing materials and seed to ensure best management practices were applied.

Sincerely,

Allison Rofe

Allison Rofe
Photos of swale post construction

September 2018

November 2018

February 2019
## PICKUP ACKNOWLEDGEMENT

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Discount: $0.00  
Order Subtotal: $415.29  
Shipping: $0.00  
Tax: $34.26  

Order Total: $449.55

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In-Store Pickup Signature

Signature:  
Date:  

---

8800 BRENTWOOD BLVD
BRENTWOOD, CA, 90263  
707-599-0306  
allison.rofe@ca.nacdnets.net

Agenda Item 5

Customer Name: Allison Rofe  
Alternate Person:  
Order Number: 1021050167  
Picked Up: 09/21/2018 10:05:01  
Picked Up By: Allison Rofe  
Delivery Method: PICK  
Order Number: 1021050167

9/21/2018 10:05 AM
## Agenda Item 5

**Pacific Coast Seed, Inc.**

1925 N MacArthur Dr. Ste 100  
Tracy, CA 95376  
Phone: (925) 373-4417  
FAX: (925) 373-6855

| Sold To: | Z Misc Cust  
San Joaquin  
Tracy, CA 95376 |

| Ship To: | Contra Costa RCD  
**Will Call** |

| Phone: |  |

| Sale # | 18-18236-BL |
| Cust PO # |  |
| Sold By: |  |

| Ordered: | 12-Sep-18 |
| Shipped: |  |
| Via: | Will Call |

| Terms: | Collect on Delivery |
| FOB: | Tracy |

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</table>

| 30.50 | 61.00 | **TOTALS** | $1,320.00 |
| $660.00 |  |

| Sales Taxes: | $108.92 |

| **TOTAL DUE:** | $1,428.92 |

2 Acres

Notification of All Discrepancies Must Be Made Within 5 Working Days of Receipt of Order. NOTICE TO BUYER: We warrant that seeds have been labeled as required under state and federal laws and that they conform to label.
Maureen Parkes

Subject: FW: Grant Application Follow-up Question
Attachments: All stockings will be done under my Aquaculture permit ID.pdf

From: Chris Lim [mailto:clim@ccrcd.org]
Sent: Wednesday, February 13, 2019 9:54 AM
To: Maureen Parkes
Subject: Re: Grant Application Follow-up Question

Hi Maureen,

I’ve attached some language from Chris Miller, Biologist from the Contra Costa County Vector Control who is in charge of the breeding and spawning of the Sacramento perch.

If you need additional clarification, please let me know.

Thanks so much,
Chris

______

November issue of Ridges to Reefs, our brand new E-newsletter, is [here](#).

Christopher Lim
Executive Director
Contra Costa Resource Conservation District
5552 Clayton Road
Concord, CA 94521
c: (925) 269-9190
w: (925) 672-4577 x4147
[www.ccrcd.org](http://www.ccrcd.org)

Like us on [Facebook](Facebook), Follow us on [Twitter](Twitter)
All stockings will be done under my Aquaculture permit ID: 0886 GO ID:1018752295

We should be good as I have talked with the Cal Dept. Fish & Wildlife Regional Biologist Sean Cochran Sean.Cochran@wildlife.ca.gov and the Aquaculture Coordinator Randy Lovell Randy.Lovell@wildlife.ca.gov. Both have acknowledged the exemption for an aquaculture facility registrants. They know of the project.

I can scan the permit and e-mail if needed.

See below for excerpts and links.

The pertinent laws and regulations for private stocking are attached at the end of this leaflet. You should pay particular attention to Section 238.5. You do not need a Private Stocking Permit for a registered aquaculturist to stock one of these eight common species in a private pond: white catfish channel catfish blue catfish largemouth bass bluegill Sacramento perch rainbow trout redear sunfish and if your water is located in certain portions of the California Great Central Valley or in southern California (with minor exceptions, the permissible areas are approximately the same as the Valley and the Southern California Sport Fishing Regulations Districts). The exact boundaries of these areas are listed on the page 2.

Inland Leaflet No. 6 https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentVersionID=5185

Here is the Aquaculture of Inland Water
https://caseagrant.ucsd.edu/sites/default/files/CDFG_AQUACULTURE.pdf

238.5 Stocking of Aquaculture Products. Upon stocking, aquaculture products are wild and therefore “fish” as defined by Section 45 of the Fish and Game Code, except when stocked into a registered aquaculture facility. No person shall stock aquaculture products in this state except in accordance with the following general terms and conditions: (a) All aquaculture products stocked under these provisions must be legally reared or possessed by an aquaculturist registered in this state. No person shall stock aquaculture products which are parasitized, diseased or of an unauthorized species. (b) Live aquaculture products shipped to Inyo or Mono counties must be certified by the department as disease and parasite-free before being stocked in waters in those counties. (c) A registered aquaculturist producing or possessing rainbow trout (Oncorhynchus mykiss), largemouth bass (Micropterus salmoides), bluegill (Lepomis macrochirus), redear sunfish (Lepomis microlophus), Sacramento perch (Archoplites interruptus), channel catfish (Ictalurus punctatus), blue catfish (Ictalurus furcatus) and white catfish (Ictalurus catus), may stock these species under the following terms and conditions. Only publicly owned lakes covered by a cooperative agreement between the department and the lake operator and privately owned reservoirs, lakes and ponds in the following counties or portions thereof may be stocked without a stocking permit: Alameda, Butte, Colusa, Contra Costa, Glenn, Imperial, Kern, except in the Kern River drainage above Democrat Dam; Kings,
Lake except in the Eel River drainage; Los Angeles, Merced, Napa, Orange, Riverside, Sacramento, San Benito, San Bernardino, San Diego, San Joaquin, Santa Barbara, Solano, Stanislaus, Sutter, Tehama, Ventura, Yolo, Yuba; those portions of Amador, Calaveras, El Dorado, Mariposa, Nevada, Placer and Tuolumne west of Highway 49; Fresno west of the Sierra and Sequoia National Forest boundaries; Madera west of the Sierra National Forest boundary; and Tulare west of the Sequoia National Forest and Sequoia National Park boundaries. (d) Except for those species listed in Section 238.5(c) when planted into those specific areas and waters covered in Section 238.5(c), no person shall stock aquatic plants and animals except as follows: (1) Each stocking of fish shall require a separate Private Stocking Permit (FG 749) issued by the department. A copy of this permit shall accompany all shipments. However, a copy of the same permit (FG 749) may be used for additional consignments of the same species when stocked in the same water, until cancelled by the department. See subsection 699(b) of these regulations for the fee for this permit. (2) Application for the private stocking permit shall be made to the regional manager of the Fish and Game region in which the fish are to be stocked. An application will be supplied to each applicant upon request.
### International Bird Rescue

**Bird Care Costs Analysis: Nutrition (food), medicine, vitamins, supplements, and veterinary supplies**

<table>
<thead>
<tr>
<th>Bird Type</th>
<th>Typical Weight (kg)</th>
<th>Itra</th>
<th>Ivermectin</th>
<th>Praziquantel</th>
<th>Baytril</th>
<th>Lactulose</th>
<th>Carafate</th>
<th>Panacur</th>
<th>Meta</th>
<th>Auklet Tabs</th>
<th>Vitamin E</th>
<th>Vitamin D</th>
<th>Calcium</th>
<th>Emeraid</th>
<th>Night Smelt (fish)</th>
<th>Needles</th>
<th>Hematoctrit Tubes</th>
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<td><strong>$10.31</strong></td>
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Cost analysis shows "minimum daily values" for birds accepted for care.

Not shown, but often used are additional veterinary supplies, including: autoclave pouches, x-ray film, sterile fluids, sterile syringes, sterile needles, Tegaderm, vet wrap, and paper tape.

Loons and grebes also are found in numbers, and have similar requirements to the most prevalent species we treat.

Birds needing surgery also require sutures (minimum cost = $7/bird).

**Most prevalent species rescued, rehabilitated, and released in Contra Costa County are:**
1. ducks (Mallard, Wood), geese (Canada),
2. herons (Green, Black crowned), egrets (Snowy), and
3. gulls (Western, California).

Although species are shown in order of prevalence, for simplicity, calculations presume equal numbers of birds in each category.

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**Grant Request = $12,500.00**
Project title: 2019 Delta Education Equipment

Organization/Individual applying: Marine Science Institute

(Organization type: please check one – government, non-profit, for-profit, other (explain) Non-Profit Org

Address: 500 Discovery Parkway, Redwood City, CA 94063

Telephone: (650) 364-2760
Fax: (650) 364-0416

E-mail: marilou@sfbaymsi.org

Name and title of contact person: Marilou Seiff, Executive Director

One sentence summary of proposal: Funding for equipment specific to Delta Discovery Voyages for Contra Costa County 5th grade science education

Requested grant: $4,804.82

Proposal prepared by (name & title): Melanie Kimbel, Advancement Director

Signature (Typing your name does not count as a signature. If this section is empty, your proposal will not be considered):

Signed on 2/18/2019
Marine Science Institute Proposal for Funding
Contra Costa County Fish and Wildlife Propagation Fund Grant

Date: January 4, 2019; amended February 8, 2019
To: Maureen Parkes; Contra Costa County Fish and Wildlife Committee (FWC)
From Primary Contact: Marilou Seiff, Executive Director, marilou@sfbaymsi.org, 650-364-2760
MSI Annual Budget: $2,009,000
Title of Program: 2019 Delta Education Equipment

Project Description: (section updated 02/08/19)
Marine Science Institute (MSI) has provided Delta Discovery Voyages (DDV) for Contra Costa County schools every winter since 2003. The DDV program delivers STEM and environmental education to Contra Costa County 5th grade students with hands-on science curriculum that is aligned with Next Generation Science Standards (NGSS), aboard our 90-foot research vessel, the Robert G. Brownlee, on the Sacramento-San Joaquin River Delta.

We appreciate the opportunity to submit an amended funding proposal to the FWC. We are asking the Contra Costa County FWC to fund the replacement of our Samson Ropes with a grant of $4,804.82 so the DDV program will carry on safely and without interruption. In response to concerns expressed by members of the FWC, we offer the following information.

We had submitted our previous request for funding based on a quote we received from West Marine. See the first image at the end of this proposal. We received a second quote, this one from Svendsen’s Marine, after submitting our original proposal to the FWC on 1/4/19. See the second image at the end of this proposal. These are two trusted local vendors who have the rope our program requires.

- The rope we use for mooring at the Antioch Marina is different from those we use to moor at our home dock in Redwood City.
- This rope is attached in a different configuration than at our home dock, and needs to be of a different length to accommodate the floating dock of Antioch versus the fixed dock that we have in Redwood City.
- For safety reasons, we use a stronger rope that doesn’t part easily, which reduces the chance of MSI staff injuries.
- We chose this rope width because it is the best fit for securing to our bollards.
- This rope floats which keeps it up and away from our propellers as much as possible. Antioch Marina is a public marina (vs our private dock in Redwood City.) Because this rope floats, it is easy to recover from the water in the case that a member of the public accidentally knocks the line off into the water.

New ropes will help ensure the safety of the ship and passengers during docking and undocking. The lines we currently use for mooring at the Antioch Marina are wearing out after the strain of many years. We need replacement lines to secure the boat to the Antioch dock that can withstand the strong winds and currents of the Delta in the winter.

Our 2019 DDV season goes from January 7 through February 27. We believe that the ropes we currently have will last through the next few months, but they will definitely require replacement by the end of this season.

DDV Program Description:
MSI’s Delta Discovery Voyage Program addresses both education and environmental needs of Contra Costa County (CCC). The scheduling of schools for the 2019 DDV program is done, and ship manifests have been received. We expect to educate 3,894 CCC 5th graders this year. Among the students we will educate this year, 1,985 (51%) will come from schools in Central CCC, and 1,909 (49%) will come from schools in East CCC. (While the DDV program does not serve...
In West CCC, our San Francisco Bay Discovery Voyage education program is available to them when our ship comes to the Richmond Marina for 3 weeks in October and November each year.) The breakdown of specific schools that will be served this year is available upon request.

An average of 46% of 5th grade students from the Contra Costa County schools served by the DDV program have historically scored below-proficient in science. Their teachers have reported that they are under-supported in acquiring the resources to provide the high-quality science education these students need. MSI fills this need. Delta Discovery Voyages teach science to Contra Costa County students that is SUPER exciting, unique and relevant to the special region in which they live. DDV’s support Contra Costa County teachers by providing curriculum and activities that help them meet the new NGSS that began full implementation in the Fall of 2018 in California.

The students this program serves, along with their families, get their water from the Delta, yet they know so little about their direct effect on the Delta ecosystem. Most do not know what a watershed is and why it is important to protect it. By educating students at this impressionable age on these issues and what they can do, water quality and supply will improve.

Anticipated outcomes of this program include:
The goal for the 2019 Delta Education Equipment project is to replace the Samson Ropes that are essential to the safe implementation of the Delta Discovery Voyage Program during the months of January and February each year.

The 2019 Delta Education Equipment Project satisfies the eligibility requirements of Section 13103 (a) of the Fish & Game Code for requesting funding from the Fish and Wildlife Propagation Fund. It provides equipment for public education that is aligned with CA Common Core and NGSS for public schools, and to the scientific principles of fish and wildlife conservation by using supervised formal instruction carried out with a planned curriculum and aids to education.

MSI agrees to obtain advance written approval from the FWC of any communication/written material that may reasonably be understood to represent the views of the FWC and to provide the FWC with reasonable opportunity to review, comment and approve the communication/written material in advance. MSI also agrees to use the following statement, if funding is granted: “Delta Discovery Voyage equipment is funded in part by the Contra Costa County Fish and Wildlife Committee.”

### Project Schedule:

<table>
<thead>
<tr>
<th>Completion Date</th>
<th>Task Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/8 through 2/27/2019</td>
<td>Show Delta Discovery Voyage to CCCFWC</td>
<td>Identify opportunities to discuss the Delta Discovery Voyage program with CCCFWC. Opportunities include MSI attending CCCFWC meetings and CCCFWC representatives attending Delta Discovery Voyage programs.</td>
</tr>
<tr>
<td>1/8 through 2/27/2019</td>
<td>(Teach programs)</td>
<td>(Students participate in Delta Discovery Voyages. Program Delivery costs are not included in this proposal. This is stated so CCCFWC sees MSI’s sequence of events.)</td>
</tr>
<tr>
<td>12/31/2019</td>
<td>Report on results</td>
<td>Evaluate the outcomes. Create and submit report for CCCFWC.</td>
</tr>
</tbody>
</table>
**Organization Description:**
The Marine Science Institute (MSI) is a 501c3 organization founded in 1970. Our mission is to cultivate a responsibility for the natural environment and our human communities through interdisciplinary science education. We provide NGSS-aligned science curriculum and field trips for schools on the San Francisco Bay and CA Delta aboard our 90’ research vessel, the Robert G. Brownlee; at our Discovery Aquarium and shoreline in Redwood City; at locations on the Pacific coast; and within school classrooms using our Mobile Aquarium. All MSI school programs provide students with the opportunity to observe, touch, and discuss live marine animals from the SF Bay, Delta and/or coastal ecosystems while building fundamental knowledge in several scientific disciplines including biology, physics, microbiology, and chemistry.

**MSI Board of Directors and Officers:** (section updated 02/08/19)
- **Andrea Aust,** Board Chair; Senior Manager, Science Education, KQED
- **Victoria Whitehill,** Board Vice Chair; Project Manager, Genentech
- **Julian Osinski,** Board Secretary; Principal, Opticalogic Advisors
- **James Roberts,** Board Treasurer; Financial Consultant, Perceptive Insights
- **Lisa Becker,** Member at Large; Animal Care Manager, National Marine Life Center
- **Norman Chen,** Member at Large; Co-Founder/Director DeltaHealth China, Ltd.
- **Teesta Kaur,** Member at Large; Sales Director, Tipalti
- **Clark Morey,** Member at Large; Application Sales, Oracle
- **Randy Reyes,** Member at Large; Clinical Contracts, Gilead Sciences
- **Reema Shah,** Member at Large; Financial Professional

**Other Funders:** (section updated 01/31/19)
Funders who provide funding for the Delta Discovery Voyage program include Contra Costa Water District, Delta Diablo, Central Contra Costa Sanitary District, Mt. View Sanitary District, Golden State Water Co, Dean and Margaret Lesher Foundation, Dow Corp and Andeavor (Marathon Petroleum) Foundation.

**Qualifications of Marine Science Institute:**
Since 1970, **MSI has reached over 1.3 million students** through programs that build science knowledge, spark curiosity, and inspire stewardship for the local environment. The Delta Discovery Voyage program began in 2003. MSI completed the upgrade of our school curricula to achieve alignment and implementation with NGSS in 2015, three years before the State of CA is requiring full deployment in the 2018-19 school year. In addition, we have held workshops to support training for teachers in their transition to NGSS. All curriculum is presented with strong conservation messages and new habits students can apply to their everyday lives to encourage their personal environmental stewardship behaviors.

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**Project Budget: (section updated 02/08/19)**

<table>
<thead>
<tr>
<th>Delta Discovery Voyage</th>
<th>EQUIPMENT TO BE REPLACED</th>
<th>Quantity</th>
<th>Unit Cost</th>
<th>Total</th>
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<tbody>
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<td>Commercial Amsteel Blue, 12 strand, 1-1/2 in diameter</td>
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<td><strong>Subtotal</strong></td>
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<td><strong>$4,398.00</strong></td>
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<tr>
<td>Estimated Sales Tax and Shipping</td>
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<td>9.25%</td>
<td>$406.82</td>
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<tr>
<td><strong>TOTAL EXPENDITURE</strong></td>
<td></td>
<td></td>
<td><strong>$4,804.82</strong></td>
<td></td>
</tr>
</tbody>
</table>
Key personnel responsible for the Delta Discovery Voyage program and qualifications:

Marilou Seiff, Executive Director: Marilou has been with the Marine Science Institute since November 1996, and became Executive Director in 2003. Before MSI, Marilou worked as an Aquatic Biologist at the Pacific Environmental Laboratory, a diver at the Marineland of the Pacific, and a biologist at the California Department of Fish & Game. Marilou holds a B.S. in Biology from Stanford University, and a M.S. in Biology from the University of the Pacific.

Karen Peluso-Galaviz, Ship Program Manager: Karen directs all aspects of the ship- and canoe-based programs including hiring, training and scheduling of all Science Instructors and Marine Educators. She started at MSI as Instructor with the Delta Discovery Voyage program in 2003 and became MSI Ship Program Manager in 2006. Prior to MSI, Karen held educator roles with Save the Bay, Don Edwards SF Bay NWR, and the Common Murre Restoration Project. Karen has a B.S. in Biology from Murray State University in KY.

Jackson Gentry, Senior Captain: Jackson captains the Robert G. Brownlee, performs vessel maintenance, trains and oversees the crew on program procedures and safety protocols. Jackson has obtained and maintains licenses or permits in US Coast Guard (USCG) Masters 100GT NC, CA Dept of Fish and Game (DFG) Scientific Collection, CA DFG Commercial Fishing, CA DFG Commercial Fishing Vessel Operator, USCG Marine Safety and Survival Drill Instructor, NorEastern Trawl Advanced Deck and Equipment Skills, and Southern CA Merchant Marine Training Master and Towing Instruction.

Image 1: West Marine

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Inspirating respect and stewardship for the marine environment through experiential learning.

500 DISCOVERY PARKWAY ● REDWOOD CITY, CA 94063-4746 ● (650) 364-2760 ● FAX: (650) 364-0416 ● WWW.SFBAYMSI.ORG
### Agenda Item 7

**Grant Application H - Amended**

#### Svendsen’s Marine

**Image 2:**

![Svendsen's Marine Bill](1901-232338.pdf)

**Quote**

**1901-232338**

**PAGE 1 OF 1**

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
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<td>SAM-8720968</td>
<td>SAM-8720968-AMSTEEL BLUE 1-1/2'</td>
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**Return within 30 days of invoice date.**

(Product and packaging in new resalable condition, no restocking fee)

Special Orders (If allowed by vendor, 15% restocking fee + vendor restocking fee + freight)

Buyer: CAPT.Jackson@yahoo.com

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**Signature**

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**Inspiring respect and stewardship for the marine environment through experiential learning.**

500 DISCOVERY PARKWAY • REDWOOD CITY, CA 94063-4746 • (650) 364-2760 • FAX: (650) 364-0416 • WWW.SFBAYMSI.ORG
January 22, 2019

Contra Costa County Fish and Wildlife Committee
Contra Costa County Department of Conservation and Development
30 Muir Rd.
Martinez, CA 94553

Dear members of the Contra Costa County Fish and Wildlife Committee,

Thank you for the opportunity to provide more information on our 2019 application to the Contra Costa County Fish and Wildlife Propagation Fund. I am enclosing:

- a document detailing the lab procedures that are used to test some of our stormwater samples;
- a quote for the necessary cables to improve the reach of our field meters;
- and a letter from a YSI representative explaining why we cannot use another manufacturer's cables. He explains that the YSI cable includes the probe bulkhead and electronics (and, for one of our meters, the temperature/conductivity probe), which are specific to the YSI meters. We would have to invest in a whole new meter system if we wanted to use another manufacturer’s cables, which would likely cost more than $20,000.

I hope that this information answers your questions regarding the application, but please do not hesitate to contact me if you have additional concerns. I will try to attend the next Committee meeting as well.

Sincerely,

Helen Fitanides
Program Manager, The Watershed Project
helen@thewatershedproject.org
510-665-3538
## TWP stormwater samples

<table>
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<tr>
<td>Lead</td>
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<tr>
<td>Mercury</td>
<td>EPA 7470A</td>
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<td>Nickel</td>
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<td>Zinc</td>
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<td>Diesel</td>
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<tr>
<td>Motor Oil</td>
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<tr>
<td>Organochlorine Pesticides</td>
<td>EPA 8081B</td>
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<tr>
<td>Total Extractable Hydrocarbons</td>
<td>EPA 8015B</td>
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Quote Number: B162520
Quote Date: 1/19/2019
Quote Expiration Date: 2/18/2019

Quotation Prepared For:
Helen Fitanides
Watershed Project, The
1605 Carleton St.
Apt. C
Berkley, CA 94703
(805) 709-6294
helen@thewatershedproject.org

Submitted By:
Darrin Honious
(937) 767-7241 x246
dhonious@ysi.com
## Proposal Summary

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<td></td>
<td></td>
<td>- No sensors included, must order Conductivity/Temp separately</td>
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<td>- Sensor ports are universal</td>
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<td></td>
<td></td>
<td>- Maintenance kit included (3 port plugs, tube of Krytox, brush for conductivity probe, syringe for depth sensor, and sensor installation/removal tool)</td>
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<td>2</td>
<td>605790-4</td>
<td>Quatro cable - Dual ISE/DO/Cond/Temp 4-m for Pro Plus instruments, Includes Cond/Temp sensors, DO and ISE sensors sold seperately</td>
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<td>$1,300.50</td>
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### Additional Items

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Terms: Net 30
FOB: Origin

This pricing is Proprietary and Confidential information. Neither this document nor its contents may be revealed or disclosed to...
unauthorized persons or sent outside the institution without prior permission from Xylem Inc. This order is subject to the Standard Terms and Conditions of Sale - Xylem Americas effective on the date the order is accepted which terms are available at https://www.xylem.com/en-US/support/xylem-americas-standard-terms-and-conditions/ and incorporated herein by reference and made a part of the agreement between parties.
Ordering Instructions:

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<th>Credit Card</th>
<th>Call: (937) 767-7241 (Option 3)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reference This Quote Number</td>
<td>Email: <a href="mailto:orders@ysi.com">orders@ysi.com</a></td>
</tr>
<tr>
<td>Purchase Order</td>
<td>Fax: (937) 767-1058</td>
</tr>
<tr>
<td>Include a Copy of Quote with PO</td>
<td>Mail: YSI Incorporated</td>
</tr>
<tr>
<td></td>
<td>Attn: Order Entry</td>
</tr>
<tr>
<td></td>
<td>1725 Brannum Lane</td>
</tr>
<tr>
<td></td>
<td>Yellow Springs, OH 45387</td>
</tr>
</tbody>
</table>

- All purchase orders should be accompanied with a copy of this quote or clearly reference the quotation number.
- All purchase orders should have a complete billing and complete shipping address on the purchase order.
- For order acknowledgement please provide email address to send updates on order. Email Address: [___]___
- Taxes and Tariffs are additional and are not included in the above pricing unless explicitly stated as a line item.
- Shipping charges are additional and are not included in the above pricing unless explicitly stated as a line item.
- Tax Exempt customers must include their Tax ID on their Purchase Order. Proof of Tax Exempt status may be required.

Business Information:

| Remit to Address for Orders: |
| Checks (Drawn on US Banks Only) |
| YSI Incorporated |
| Tax Identification #: 31-0526418 |
| DUNS #: 004246716 |

ACH (With ADDENDA Record)
- US Bank NA
- Cincinnati, OH 45202
- Acct# 8506321; ABA# 042000013

YSI Incorporated
PO Box 640373
Cincinnati OH 45264-0373
Helen,

I’m sorry but YSI is the only manufacturer. Keep in mind that this is not just a cable. It includes the bulkhead, electronics and on the Pro Plus cable it includes the Cond/TMP sensor. Please let me know if you need anything else.

Best Regards,

Darrin Honious
Sales Representative and Aquaculture M&C Specialist
1725 Brannum Lane
Yellow Springs, OH 45387
O: 937-767-7241 x246 | Darrin.honious@xyleinc.com
www.YSI.com
Dear Fish and Wildlife Committee,

As requested, I am providing a breakdown for the costs associated with the follow-up study for the MVSD Pollinator Garden Project. The study will be provided by Dr. Gordon Frankie’s Bee Lab at UC Berkeley. The breakdown is as follows:

- **Bee identification: (Jaime Pawelek) 75 hours at $50/hour** $3,750
- **Transport to Martinez at $40/trip for 9 trips** $369
- **Supplies: pins, Schmidt box, nets, kill jars, ethyl acetate** $400

**Total:** $4,519

I am also reporting that Dr. Frank Kluber from the DVC Landscaping Design program recently informed me that due to low enrollment, the spring 2019 landscape design class has been postponed 4 weeks. The postponement is being done to give more time to increase enrollment. If interest in the class doesn’t improve, the class will be cancelled and MVSD will lose this valuable partnership opportunity and may need to pay a landscaper for a project design.

I am hoping the class will receive greater enrollment and the partnership created between MVSD and DVC will move forward. However, if this does not happen and I am unable to work with another college for the required design, would it be possible to use the $4,519 reserved for the follow up study towards project design instead?

Thank you for your consideration of the MVSD Pollinator Garden Project.

Sincerely,

Kelly Davidson, M.S.
District Biologist
Mt. View Sanitary District
PO Box 2757
Martinez, CA 94553
Desk: 925-228-5635 x19
Cell: 925-788-0655