

**STATE AND FEDERAL CONTRACTORS WATER AGENCY  
BOARD OF DIRECTORS**

***Tsakopoulous Library Galleria  
828 I Street  
Sacramento, CA 95814  
(916) 264-2800***

Dial in number: **888-861-1254**  
Participant PIN is: **370487 #**

**REGULAR MEETING AGENDA**

***June 16, 2016  
11:30 a.m.***

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**1.0 CALL TO ORDER**

- 1-1 The Board will Consider Corrections or Additions to the Agenda of Items Requiring Immediate Action that have come to the Attention of the Board after Posting the Agenda
- 1-2 Public Comment – Opportunity for members of the public to address the Agency on matters within the Agency’s jurisdiction (as required by Gov. Code Section 54954.3(a))

**2.0 ACTION ITEMS (40 MIN)**

- 2-1 Consider Approval of Board Meeting Minutes of May 19, 2016 and Special Board Meeting Minutes of May 5– Attachments (Peltier)  
**Recommendation: Approve the above mentioned minutes by minute order**
- 2-2 Consider Accepting the Lowest Qualified Construction Bid for the Tule Red Restoration Project and Authorization for the Executive Director to Negotiate a Construction Contract - Attachments (Buck)  
**Recommendation: Accept the lowest qualified construction bid and approve the attached resolution providing for staff to issue a Notice of Intent to Award and authorize the Executive Director to negotiate a construction contract**

**3.0 INFORMATION REPORTS (45 MIN)**

**► ADMINISTRATION (10 MIN)**

- 3-1 Board Chair’s report (Peltier)
- 3-2 Executive Director Report – Attachment (Buck)
- 3-3 General Counsel’s Report – (Miller)
- 3-4 SFCWA Income/Expense Report for May 2016 – Attachment
- 3-5 Significant Correspondence – Attachment (Buck)

► **COORDINATED SCIENCE (5 MIN)**

3-6 Science Program Report – Attachment (Fong)

► **HABITAT PROGRAM (30 MIN)**

3-7 Manager's Habitat Committee Report - (Buck)

- a. DWR Habitat RFP progress
- b. Tule Red Project Report

**4.0 Identification of Upcoming Major Agenda Topics; next meeting date**

**5.0 ADJOURNMENT**

NOTE:

Requests for a disability related modification or accommodation, including auxiliary aids or services, in order to attend or participate in a meeting should be made to the Agency Administrator in advance of the meeting to ensure availability of the requested service or accommodation. At the discretion of the Board, all items appearing on this agenda and all committee agendas, whether or not expressly listed for action, may be deliberated and may be subject to action by the Board.

## SFCWA Mission and Strategic Objectives

**Mission:** Develop and support programs to produce robust science and habitat restoration projects that improve the Bay-Delta ecosystem, and assist SFCWA member agencies in assuring an adequate, reliable and high quality water supply.

*The mission shall be pursued consistent with the following implementation strategies.*

### Delta Governance & Water Management

- 1. Assist in development and implementation of the California Water Fix and Eco-Restore Program, consistent with the California Water Action Plan.*
- 2. Communicate SFCWA member agency interests before the Delta Conservancy and Central Valley Flood Protection Board.*
- 3. Assist member agencies in supporting solutions related to carrying out water project obligations in Suisun Marsh.*
- 4. In coordination with member agencies, monitor and engage effectively with activities of the Delta Conservancy, Central Valley Flood Protection Board, Delta Science Program, Delta Regional Monitoring Program, Delta Independent Science Board, Interagency Ecological Program and San Francisco Bay Nutrient Management Strategy.*

### Habitat

- 1. Implement and facilitate habitat restoration projects required under the OCAP Biological Opinions for Delta Smelt, Longfin Smelt and Chinook Salmon, and where otherwise in SFCWA members financial and Project support interests, including related monitoring and adaptive management.*

### Science

- 1. Coordinate research resulting in published findings on the Delta ecosystem and its stressors toward developing management actions that further California's co-equal goals of a restored Delta ecosystem and water supply reliability.*
- 2. Facilitate the dissemination and understanding of Science findings.*
- 3. Participate in collaborative research that supports the SFCWA research plan and promote multi-disciplinary and co-incident studies to leverage resources.*
- 4. Partner with local, state, and federal agencies, as well as academia, including but not limited to helping implement the Delta Stewardship Council's Delta Science Plan and Action Agenda.*
- 5. Participate in and support science forums and work efforts to increase mutual collaboration and understanding of landscape restoration and multiple stressor effects on the Delta ecosystem.*

### Strategic Objectives:

As directed by the SFCWA Board of Directors, SFCWA will pursue the following 2015-2016 objectives in support of its mission and consistent with adopted implementing strategies:

### Delta Governance and Water Management

- 1. Seek partnerships with the Conservancy and others to advance habitat improvement in the Delta. Support the growth of the Delta Conservancy's capacity to develop and manage habitat projects.*

## Habitat

1. *Pursue additional site maintenance, modifications and final design and permitting of Tule Red Restoration Project in early 2016 to prepare for commencement of restoration construction in Summer of 2016. Complete construction in 2017-2018.*
2. *Prepare alternative financing strategies for construction of the Tule Red Restoration Project in order to assure commencement of construction in 2016, in the following priority: a) through a proposal under the expected DWR Habitat RFP, b) through SFCWA's existing MOA with DWR..*
3. *Assist the Department of Fish and Wildlife in developing a comprehensive habitat restoration monitoring plan.*
4. *Promote alternative restored habitat delivery models with the Department of Water Resources and United States Bureau of Reclamation.*
5. *Seek an agreement on comprehensive cost sharing between DWR and USBR for Biological Opinion requirements of the State Water Project and Central Valley Project.*

## Science

1. *Provide comments on and support significant and relevant Delta Science documents being produced in 2016 such as the Delta Science Action Agenda, Update to the State of Bay-Delta Science, the State of the Estuary Report, Water Board nutrient policy documents, the Delta Independent Science Board's Water Quality Programs Review and science-related portions of the Bay Delta Conservation Plan (e.g., monitoring and adaptive management sections).*
2. *Update the SFCWA Research Plan by June 1, 2016*
3. *Continue collaborative efforts with Delta science entities to improve monitoring, assessment and reporting of Bay Delta monitoring and research results through the participation in the California Estuary Monitoring Workgroup and California Estuaries Portal. The next phase of the Portal funded by SFCWA will focus on three areas: working with USFWS to visualize their data on the portal, coordinating the inclusion of data from SFCWA-funded projects in the Cache Slough Complex, and implementation of a training program to allow users to use the portal more effectively. Staff will also work with Department of Water Resources staff as they manage their contract to further populate and refine the Portal, and San Francisco Estuary Partnership consultants to electronically visualize data from the 2015 State of the Estuary Report. Limit future funding (by FY-18) to uploading and visualizing SFCWA Science projects to the Portal.*
4. *Maximize our understanding of food web dynamics in the Cache Slough Complex by collaborative implementation of SFCWA funded research. Propose a special session at the 2016 Bay-Delta Science Conference focused on key findings.*
5. *Collaborate on a regional monitoring framework for tidal wetland restoration through participation in IEP's Tidal Wetland Monitoring Project work team, leading to the development of a coordinated monitoring program for assessing restoration projects and their contribution to the Delta Ecosystem in 2016.*



**BOARD OF DIRECTORS  
STATE AND FEDERAL CONTRACTORS WATER AGENCY  
DRAFT MEETING MINUTES  
May 19, 2016**

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<b>Directors Present:</b>	Frances Brewster, Santa Clara Valley Water District Robert Cheng, Coachella Valley Water District Jill Duerig, Zone 7/DSPC Rick Gilmore, San Luis & Delta Mendota Water Authority Randall Neudeck, Metropolitan Water District Shelley Ostrowski, Westlands Water District Craig Wallace, Kern County Water Agency
<b>Staff Present:</b>	Byron Buck, SFCWA Executive Director Tara Beltran, SFCWA Staff Stephanie Fong, SFCWA Staff Reachel Ramsay, SFCWA Staff Nancy Miller, Renne Sloan Holtzman Sakai LLP
<b>Others Present:</b>	Mary Lou Cotton, SWPCA Rob Capriola, Westervelt Dan Flory, Antelope Valley East Kern Steven Inn, Alameda County Water District Mark Krause, Desert Water Agency Thomas Pate, Solano County Water Agency Jason Peltier, San Luis & Delta Mendota Water Authority (by phone) Jack Safely, Metropolitan Water District Brent Walthall, Kern County Water Agency Donnell Wilcox, Coachella Valley Water District Mark Young, Westervelt

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**CALL TO ORDER**

Call to order: Acting President Wallace called the meeting to order at 11:34 a.m.

1-1 *The Board will Consider Corrections or Additions to the Agenda of Items Requiring Immediate Action that have come to the Attention of the Board after Posting the Agenda*

Byron Buck noted that agenda item 2-4 will be presented as the first item.

1-2 *Public Comment – Opportunity for members of the public to address the Agency on matters within the Agency’s jurisdiction (as required by Gov. Code Section 54954.3(a))*

There were none.

This item taken out of agenda order

**2.0 ACTION ITEMS**

2-4 Consider setting a special Board meeting to discuss strategic planning and employee succession issues Byron Buck summarized the written board memo.

Jason Peltier presented this agenda item leading a discussion on strategic planning for SFCWA. A board discussion ensued. The board requested that the personnel committee meet to continue the discussion with the entire Board to meet for a board retreat for further discussion and planning in the following months.

*2-1 Consider Approval of Board Meeting Minutes of April 21.*

**Upon a motion made by Director Neudeck, seconded by Director Cheng and unanimously passed, the Board approved the April board minutes with the following vote:**

**Aye: Cheng, Duerig, Gilmore, Neudeck, Ostrowski, Wallace**

**Nay: None**

**Abstain: Brewster**

This item taken out of agenda order.

*2-2 Consider Approving Form of Agreement and Authorizing the Executive Director to execute a contract with the Department of Water Resources for the Purchase of Habitat Credits for the Tule Red Restoration Project*

Nancy Miller presented the agreement for discussion and approval. The draft agreement was on the April board agenda. The legal committee has reviewed and provided comments to the agreement. A few non-substantive items are still being discussed with DWR. The execution of the contract is pending approval of permits. Ms. Miller presented and read the text of the resolution to the board for approval.

**Upon a motion made by Director Gilmore, seconded by Director Duerig and unanimously passed, the Board approved execution of a resolution authorizing the Executive Director to execute the Tule Red agreement with DWR with the following vote:**

**Aye: Cheng, Duerig, Gilmore, Neudeck, Ostrowski, Wallace**

**Nay: None**

**Abstain: Ostrowski**

*2-3 Consider accepting a lowest-qualified construction bid for the Tule Red Restoration project.*  
Attachment

Byron Buck presented a substitute memo regarding this item. Mr. Buck explained that the habitat team is currently evaluating bids. A recommendation will return to board agenda in June.

**No board action was taken on this item.**

*2-5 Consider Appointment of SFCWA Secretary and Treasurer*

Byron Buck noted that Robert Cheng was nominated for Secretary and Treasurer. Mr. Cheng accepted.

**Upon a motion made by Director Neudeck, seconded by Director Brewster and unanimously passed, the Board approved the nomination for Director Cheng to serve as SFCWA Secretary and Treasurer with the following vote:**

**Aye: Cheng, Duerig, Gilmore, Neudeck, Ostrowski, Wallace**

**Nay: None**

**3.0 INFORMATION REPORTS**

► **ADMINISTRATION**

*3-1 Chair's Board Report*

There was no new information to present for the Chair's board report.

*3-2 Executive Director's Report*

Byron Buck presented his report. He discussed revenue issues and the impact to the Science program and SFCWA overall.

*3-3 General Counsel's Oral Report*

Nancy Miller presented the general counsel's report.

*3-4 SFCWA Income/Expense Report for April 2016.*

Byron Buck presented the income expense report as written. There were no items of significance to report.

**3-5     *Significant Correspondence***

Byron Buck presented the significant correspondence.

► **COORDINATED SCIENCE**

**3-6     *Science Program Manager's Report***

In her report to the board, Stephanie Fong discussed the contaminant chapter. She summarized science activities from the past month which included the California Dept. of Fish and Wildlife solicitation, the Smelt actions workgroup, the IEP draft science agenda. She highlighted items of interest on the draft science agenda. The report also included a discussion on the ISB water quality panel and the phytoplankton bloom. A board discussion ensued on the bloom.

► **HABITAT PROGRAM**

**3-7     *Manager's Habitat Committee Report***

Byron Buck summarized habitat activities from the past month. DWR expects that the RFP will be ready by the end of May. The report continued with discussion of the Tule Red project. An updated permit chart was presented to the Board. Mr. Buck discussed the Suisun Marsh Plan net fill issue and the BCDC permit status. He discussed how programmatic approaches are being started to address public access issues as they pertain to all future restoration projects. The report concluded with discussion of future projects planning with DWR.

**4.0     IDENTIFICATION OF UPCOMING MAJOR AGENDA TOPICS**

Byron Buck identified habitat items as major topics of the next board meeting.

**5.0     ADJOURNMENT**

Acting President Wallace adjourned the meeting at 1:31 p.m.

**BOARD OF DIRECTORS**  
**STATE AND FEDERAL CONTRACTORS WATER AGENCY**  
*By Teleconference*

**SPECIAL MEETING AGENDA**

***May 5, 2016***  
***10:30 a.m.***

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The teleconference meeting scheduled for May 5, 2016 was not convened due to lack of a board quorum.

**1.0 ADJOURNMENT**

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June 8, 2016

TO: Board of Directors

FROM: Byron M. Buck

RE: Tule Red Tidal Restoration Project, Phase 1 Bidding Results and Recommendation

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Summary

At its February Regular Board meeting, the SFCWA Board accepted a list of prequalified contractors to bid on the construction of the Tule Red Tidal Restoration Project, as noted below. On April 20<sup>th</sup> and 27<sup>th</sup>, 2016 a public notice was posted on the availability of contract documents inviting bids from pre-qualified contractors.

Following project advertisement consistent with applicable requirements of the California Public Contract Code, SFCWA received four (4) bids from the pool of eight (8) pre-qualified contractors at or prior to the time called for in the Notice Inviting Bids (NIB), as amended. The four (4) bids were received and publicly opened on May 17, 2016.

In addition to the Cost Proposal, the prospective bidders were required to submit supplemental documentation. The supplemental documentation was mandatory information needed for the project in order to meet SFCWA contract terms and conditions, anticipated local, state and federal permit requirements, and expected CA Department of Water Resources reimbursement agreement conditions.

The review of all bids was conducted by the SFCWA team to verify each contractor's submittal of the requested information to determine responsiveness in meeting the requirements of the Bid Documents.

The Cost Proposals of the four bids are as follows:

1	The Dutra Group	\$3,445,780.00
2	Great Lakes Environmental (Magnus)	\$3,784,502.30
3	Hanford ARC	\$3,977,248.25
4	Anderson Dragline	\$5,324,723.10

The next step was to review the supplemental documentation to verify completeness and responsiveness of the bidders to the bidding documents. The results of the review revealed that the apparent low bidder (The Dutra Group) had material omissions or irregularities in the supplemental documentation. For the Dutra Bid, specifically, two areas did not confirm with the requirements in the plans and specifications and were also not consistent with the CEQA documentation for the Project. These irregularities are: 1. the schedule proposed in the Plan for Construction was beyond the specified allowable earthwork construction window and, 2. the dewatering proposed in the Plan for Control of Water was based on dewatering discharge into the existing protected marsh plain and not into the specified drainage ditch shown on the plan.

The proposed action is to approve an intent to award a contract to the lowest responsible bidder who submitted a responsive bid. In making this determination, SFCWA waives minor irregularities that do not affect the price of the bid or cause any unfair advantage of one bidder over another. Further SFCWA

waives all such minor irregularities that do not involve a mathematical or typographical error. Minor irregularities include information submitted by 3 of the 4 bidders as to a description of the type, model and purpose of equipment but not the specific EIN number for each piece of equipment. EIN numbers of equipment are routinely provided prior to commencement of work and are not substantive elements of the contract.

Based upon review by staff and engineering consultants I have determined that the lowest price bidder (Dutra) submitted a non-responsive bid. The bid did not comply with the plans and specifications and proposed permit and environmental considerations as to discharge and disposal of water on the project site. The proposed disposal method is not consistent with the plans and specifications. The inconsistency is deemed material since the discharge and disposal methodology is a substantial element of the contract work. The review then focused on the next lowest bidder. The results determined that the next low bidder met the required responsiveness with no material irregularities in their bid submittal. In making this determination, SFCWA waives minor irregularities that do not affect the price of the bid or cause any unfair advantage of one bidder over another. Further, SFCWA waives all such minor irregularities that do not involve a mathematical or typographical error. Minor irregularities include information submitted by 3 of the 4 bidders as to a description of the type, model and purpose of equipment but not the specific EIN number for each piece of equipment. EIN numbers of equipment are routinely provided prior to commencement of work and are not substantive elements of the contract. Therefore, Great Lakes Environmental (Magnus) is deemed to be the lowest responsive bidder.

#### Recommendation

Approve the attached resolution and staff summary providing for staff to issue a Notice of Intent to Award to Great Lakes Environmental (Magnus), contingent upon 1) the execution of a credit purchase agreement between SFCWA and CA DWR; 2) the approval of all necessary permits; 3) the receipt of funding; and 4) any other material conditions required in order to commence construction. The approval of the Notice of Intent to award the contract will commence the seven (7) day protest period and SFCWA shall give notice of same to all bidders. See attached Resolution.

#### Strategic Plan Reference

Completion of the Tule Red Restoration Project is a strategic objective.

#### Detailed Report

See attached spreadsheet analysis of bids.

#### Attachments (2)

State and Federal Contractors Water Agency Tule Red Tidal Restoration Project, Habitat Restoration and Earthwork Phase I Bid Date: 5/17/2016 at 3:00 pm				INTERNAL REVIEW SUMMARY NOT FOR PUBLIC DISTRIBUTION		
Bid Review						
		Bidder				Review Responsibility & Assignment
Review Item	Review Element	The Dutra Group	Great Lakes Environmental & Infrastructure, formerly Magnus Pacific	Hanford ARC	Anderson Dragline, Inc.	
1	Conditions Precedent					
	Bidder Pre-qualified (yes/no)	Yes	Yes	Yes	Yes	KSN, Neal C.
	Bidder Attend Mandatory Pre-bid meeting (yes/no)	Yes	Yes	Yes	Yes	KSN, Neal C.
2	Bids Received on time (yes/no)	Yes	Yes	Yes	Yes	KSN, Neal C.
3	Document 00305 Bid Proposal and Acknowledgement of Bid Proposal	Completed and notarized.	Completed and notarized	Completed and notarized	Completed and notarized	KSN, Neal C.
4	Document 00310 Bidding Sheets	Total Base Bid Plus A4 through A6 = <b>\$3,445,780.00</b> . No math errors or other identified irregularities	Total Base Bid Plus A4 through A6 = <b>\$3,784,502.30</b> . No math errors or other identified irregularities	Total Base Bid Plus A4 through A6 = <b>\$3,977,248.25</b> . No math errors or other identified irregularities	Total Base Bid Plus A4 through A6 = <b>\$5,324,723.10</b> . No math errors or other identified irregularities	KSN, Neal C.
5	Document 00410 Bidders Bond or Equivalent	Bidder's Bond in 10% of bid by Liberty Mutual Insurance Company, with notarized Acknowledgement. Is a California DOI authorized surety provider.	Bidder's Bond in 10% of bid by Westchester Fire Insurance Company, with notarized Acknowledgement. Is a California DOI authorized surety provider.	Bidder's Bond in 10% of bid by The Ohio Casualty Insurance Company, with notarized Acknowledgement. Is a California DOI authorized surety provider.	Bidder's Bond 10% of bid by The Guarantee Company of North America USA, with notarized acknowledgement. Is a California DOI authorized surety provider.	KSN, Aaron L.
6	Document 00420 Bidders General Information	Form completed. Class A General Engineering License 295128, current and active per CSLB as of 5/20/16. Acknowleged Addendum 1 through 3 Represent performance of 94% of work Site Representative: Tony Mana and/or Todd Bruce, - Consistent with SOPQ, Alternate: Scott Brooks, Not listed on SOPQ. DIR Registration: The Dutra Group: 1000001577, 6/19/2015 through 5/30/2016	Form completed. Class A General Engineering License 929638, current and active per CSLB as of 5/20/16. Acknowledge Addendum 1 through 3 Represent performance of 95% of work Site Representative: Neal Siller, - Consistent with SOPQ. DIR Registration: Magnus Pacific LLC: 1000003734, 9/11/2015 through 6/30/2016	Form completed. Class A General Engineering License 461167, current and active per CSLB as of 5/20/2016. Acknowledged Addendum 1 through 3. Represent 100% of work. Site Representative: Steve Ary and Mark Cederborg, consistent with SOPQ. DIR Registration: Hanford Applied Restoration & Conservation: 1000000222, 7/2/2015 through 6/30/2016.	Form completed. Class A General Engineering License 748514, current and active per CSLB as of 5/20/2016. Acknowledged Addendum 1 through 3. Represent approximately 95% of work (see #11 below). Site Representative: Spencer Mendez-consistent with SOPQ. DIR Registration: 1000005219, 7/2/2015 through 6/30/2016.	KSN, Aaron L.
7	Document 00420 Bidders Plan for Construction					
7a	1. General Plan for Project Staffing a. Project Manager b. Site Representative/Superintendent c. QSP responsible for SWPPP implementaiton, maintenance, and reporting.	All information provided on a, b, and c.	All information provided on a, b, and c.	All information provided on a, b, and c.	All information provided on a, b, and c.	WES, Chris H.
7b	2. Preliminary Construction Schedule a. Schedule shall be developed following the requirements of Specificaiton Section 01312 b. Identification of controlling operation tasks c. Identificaiton of critical excavation or earthwork activity and predicted production rate to meet project schedule d. Closeout seeding - post construcuiton BMP activitites	a. Schedule is included, <b>although 2017 schedule shows Earthwork not being completed by September 30, 2017 milestone outlined in Section 01312.</b> (Items A1265, A1285). 2016 schedule does show work being done within milestones. B. Critical Path is defined in schedule. C. Production Rate not directly defined, but can be inferred from quantities and duration of activities defined on schedule. d. Close-out seeding and post-construction BMP activities are identified on the schedule.	a. Schedule is Included and shows completion of work before milestones outlined in Section 01312. Summer 2017 work schedule shows work starting May 18 (about 2 weeks prior to latest expected June 1 date), but adequate float exists to complete the project on time in schedule if Earthwork is delayed to June 1. B. Narrative and construction schedule show relation of critical tasks. C. Production rates for earthwork are shown on the schedule for various earthwork tasks. D. Close out seeding and BMP activities are called out on schedule	a. Schedule is included and shows completion of work before milestones outlined in Section 01312. Although Schedule A work has a start date of 7/5/16, the schedule of work had adequate float for completion if the start date is delayed. B. Construction schedule shows relation of critical tasks, although critical path is not clearly defined. C. Production rates are not provided, production rates could be inferred from task durations and caculated volumes on plans. D. Seeding and BMP activities are defined.	a. Schedule is included and shows completion of work before milestones outlined in Section 01312. b. Critical path is defined in schedule. C. Production rate is provided in narrative. D. Seeding and BMP activities are defined.	NHC, Brian W.
7c	3. Project Equipment Plan a. Listing of all anticipated equipment to be used on the project, including motor horsepower and tier. b. ARB vehicular and mobile source emissions certifications and EINs for all proposed equipment, see Document 01065 Section 1.04	a. Equipment type, HP and Tier are listed, however several of the equipment listed are not available in Tier 4 b. Required Equipment Identification Numbers (EINs) are not provided	a. Equipment type, HP and Tier are listed b. Required Equipment Identification Numbers (EINs) are not provided	a. Equipment type, HP and Tier are listed b. Required Equipment Identification Numbers (EINs) are provided	a. Equipment type, HP and Tier are listed b. Most of the required Equipment Identification Numbers (EINs) are provided	WES, Chris H.
7d	4. Haul Route/Vehicle Corridor Plan	Plan is included and generally shows equipment routes located on already impacted areas. Plan proposes to use Noyce Slough road as a haul route. Noyce Slough is narrow and must remain open to traffic, traffic control will need to be addressed. Plan is consistent with plans and specifications.	Plan is included and generally shows equipment routes located on already impacted areas. Plan is consistent with plans and specifications.	Plan is included and complete. Plan is consistent with plans and specifications.	Plan is included and complete. Plan is consistent with plans and specifications.	NHC, Brian W.

		Bidder				Review Responsibility & Assignment
Review Item	Review Element	The Dutra Group	Great Lakes Environmental & Infrastructure, formerly Magnus Pacific	Hanford ARC	Anderson Dragline, Inc.	
7e	5. Plan for Control of Water	Plan is included. Plan proposes pumping groundwater from 15 deep (about 8 feet below proposed bottom of excavation) and <b>discharging flow onto marsh plain</b> . Plan does not show how flow will be discharged off the project site. Plan also doesn't show how excavation in the marsh plain (low order channels) will be kept from being flooded by pump outflow.	Plan is included. Plan is consistent with plans and specifications.	Plan is included and complete. Plan is consistent with plans and specifications	Plan is included and complete. Plan is consistent with plans and specifications.	NHC, Brian W.
7f	6. Emergency Spill Response (ESR)	Detailed ESR is provided	ESR is provided.	Detailed ESR is provided	<b>ESR is not provided - References SWPPP and does not provide details.</b>	WES, Chris H.
8	Document 00430 Subcontractor List	Yes	Yes	No subcontractord are listed as Contractor is proposing to do all the work	Yes.	KSN, Aaron L.
9	Document 00433 Small/Disabled Veterans Business Enterprise List	Yes. SBE / DVBE	Yes. SBE / DVBE	Yes. SBE / no DVBE	Yes. SBE / no DVBE	KSN, Aaron L.
10	SBE/DVBE Certification Document	Yes	DVBE in bid doc 00433, SBE on file with SFCWA.	Yes	No Doc 00433 in bid. SBE on file with SFCWA	KSN, Aaron L.
11	Document 00430 Subcontractor DIR/CSLB certification	Selby's Soil Erosion Control Co., Inc. LIC # 797658, DIR #1000001336; Viking Drillers, Inc., LIC #476668 DIR #1000038005-both registered as SBE.	Selby's Soil Erosion Control Co., Inc LIC #797658, DIR #1000001336; Murphy's and Company, Inc. LIC #685472, DIR #1000010321; All subs registered for both	No subs listed.	Green Growth Industries, Inc. LIC #662718, DIR #1000004803; All subs registered for both	
12	SBE/DVBE Project Requirements Review.	Doc 00433 in bid lists Viking Drillers, Inc. and Selby's Soil Erosion Control Co., Inc. as SBEs (these entities are defined as contractors by the state and are therefore subject to CSLB and DIR registration). Cutler Trucking and First Vanguard Rentals & Sales are also listed in Doc 00433 as SBE & DVBE, respectively, but are not 'contractors' as defined by the State of CA and therefore, not subject to CSLB and DIR registration. All are verified by the State of CA as SBE/DVBE. First Vanguard to perform 0.12% of work, Selby's Soil to perform 0.81% of work, Viking Drillers to perform 4.35% of work, Cutler Trucking to perform 0.42% of work.	A Doc 00433 is on file w/SFCWA. DVBE (Murphy & Co.) comprise 3.4% of bid, SBE (Selby's Soil) comprises 5.7% of bid (subs comprise 9.2% of total bid)-all certified.	Prime Contractor is listed and certified SBE and will perform 100% of bidded work.	Sub is certified as SB (micro) (Green Growth Industries, Inc.) and receives 2.7% of bid. Prime contractor is certified SBE and will perform majority of the work. Sub is listed on Doc 00430.	KSN, Aaron L.
13	Document 00480 Declaration of Noncollusion	Yes	Yes	Yes	Yes	KSN, Aaron L.
BID RESPONSIVENESS DETERMINATION		No, see Sections 7b & 7e	Yes	Yes	No, see Section 7f	



**RESOLUTION NO. 2016-4**

**RESOLUTION OF THE  
STATE AND FEDERAL CONTRACTORS WATER AGENCY APPROVING AN INTENT  
TO AWARD A CONTRACT TO GREAT LAKES ENVIRONMENTAL & INFRASTRUCTURE AND  
APPROVING THE STAFF RECOMMENDATION DATED JUNE 9, 2016**

The Board of Directors hereby approves the Staff Report and recommendation dated June 9, 2016, and authorizes staff to issue a Notice of Intent to Award a Contract to Great Lakes Environmental & Infrastructure (formerly Magnus Pacific), contingent upon 1) the execution of a credit purchase agreement between SFCWA and CA DWR; 2) the approval of all necessary permits; 3) the receipt of funding; and 4) any other material conditions required in order to commence construction. The Executive Director is authorized and directed to take all steps necessary to fulfill this Resolution.

This Resolution shall take effect from and after the date of its passage and adoption.

\* \* \* \* \*

PASSED AND ADOPTED this 16th day of June, 2016, by the following vote:

AYES:

NOES:

ABSENT:

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Chairperson

ATTEST:

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Secretary

June 9, 2016

TO: Board of Directors

FROM: Byron M. Buck, Executive Director

RE: Executive Director's Report

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Administration

The ad hoc manager's Personnel/Strategy Committee meets June 14 to discuss an agenda, need for facilitator and potential Board survey as preparation for the July 15 Board retreat, following the regular July meeting of the Board July 14.

The Board will be asked to consider a recess for the regular August Board meeting.

Staff has developed budget reduction strategies to employ pending reduction in revenues anticipated from SWPCA. This will primarily involve elimination of administrative contingency funds and a +-\$300,000 cut in the Science budget.

Science Program

Applications closed for the Science Program Manager position closed May 29 and the ad-hoc review panel has screened the resumes down to a small group for interviews. Interviews are on hold pending the discussion of the SFCWA Budget and Strategic Retreat by the Personnel/Strategy Committee on June 14.

Habitat Program

The DWR RFP is scheduled now for release the end of June.

Westlands has decided to pursue development of the Lower Yolo Ranch on its own and is pursuing a contract with DWR to implement this. I will be working with the ad-hoc committee on this subject and Westlands to pursue reimbursement of SFCWA and MWD costs to date on this project.

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**FY- 2016 EXPENDITURES APPROVED UNDER DELEGATED AUTHORITY - RUNNING TOTAL AS OF 5/1/2016**

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*Authorization of Expenditures less than \$100k by Program Area from FY-2016 Budget:*

- Coordinated Science:

34 North	Service as a Software	\$6,000
Environmental Science Associates (ESA)	SFCWA Science Program Support	\$50,000
Lloyd Fryer	SFCWA Science Program Support	\$40,000

- Habitat:

Curt Schmutte (Hydro Focus Inc.)	Habitat Program Support	\$40,000
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- Administration:

Julie Ramsay	Accounting Support	\$35,000
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- Delta Governance:

University of Washington	CAMT - SST	\$24,919
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DATE: June 16, 2016

TO: Board of Directors

FROM: Nancy C. Miller, General Counsel

RE: General Counsel's Report

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The following list summarizes the issues we have considered for SFCWA since the last meeting of the Board of Directors:

- Participated in Habitat Committee meetings;
- Project work regarding Tule Red Restoration;
- Discussions and project work regarding Lower Yolo Ranch Project; and
- Science contract review.

June 8, 2016

TO: SFCWA Board of Directors

FROM: Byron M. Buck, Executive Director; Julie Ramsay, Accountant

RE: SFCWA Income/Expense Report for May 2016

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Significant changes in revenue: No notable exceptions

Significant unanticipated expenses: None

Are program totals running within overall budget? Yes

Are any line items significantly deviating from budget? No

Other issues of note: None

# State & Federal Contractors Water Agency

## Summary of All Funds

**FY 2016/17 as of May 31, 2016**

Dollars (\$)

	FY 2016/17 Budgeted	FY 2016/17 Committed	FY 2016/17 Actual
<b>REVENUES</b>			
Administrative	\$ 804,761	\$ 804,761	\$ 216,890
Coordinated Science	3,543,731	3,543,731	2,171,087
Delta Governance	130,578	130,578	93,754
Habitat Implementation	7,603,836	7,603,836	374,709
<b>TOTAL REVENUES</b>	12,082,906	12,082,906	2,856,439
<b>EXPENSES</b>			
Administrative	804,761	396,436	117,248
Coordinated Science	3,543,731	2,467,032	462,438
Delta Governance	130,578	55,497	6,072
Habitat Implementation	7,603,836	588,836	342,659
<b>TOTAL EXPENSES</b>	12,082,906	3,507,801	928,417
<b>CASH AVAILABLE BY FUND</b>			
Administrative	-	408,325	99,642
Coordinated Science	-	1,076,699	1,708,649
Delta Governance	-	75,081	87,682
Habitat Implementation	-	7,015,000	32,050
<b>UNENCUMBERED FUNDS</b>		\$ 8,575,105	
<b>TOTAL CASH AVAILABLE</b>			\$ 1,928,022

# State & Federal Contractors Water Agency

## Administration Fund

**FY 2016/17 as of May 31, 2016**

Dollars (\$)

	FY 2016/17 Budgeted	FY 2016/17 Committed	FY 2016/17 Actual	% to Date 25%
<b>REVENUES</b>				
Member Dues	\$ 787,850	\$ 787,850	\$ 196,963	25%
Interest	-	-	3,016	n/a
Prior Year Carryover	16,911	16,911	16,911	100%
<b>TOTAL REVENUES</b>	<b>804,761</b>	<b>804,761</b>	<b>216,890</b>	
<b>CONSULTANT AND STAFF SERVICES</b>				
Salaries	641,562	641,562	151,333	24%
Benefits	192,468	192,468	36,394	19%
Staffing Cost Recovery	(650,094)	(650,094)	(111,574)	17%
Legal Counsel	12,000	12,000	2,509	21%
<b>OFFICE EXPENSES</b>				
Rent	70,000	70,000	17,858	26%
Office Equipment	5,000	5,000	1,030	21%
Auditor	15,000	15,000	2,500	17%
Accounting Support	47,000	35,000	5,504	12%
Website Development	18,000	18,000	-	0%
Phone	12,500	12,500	3,056	24%
Network & Computer Support	8,000	8,000	686	9%
Office Supplies	8,000	8,000	1,146	14%
Insurance	9,000	9,000	1,594	18%
Other Office Expenses	10,000	10,000	2,324	23%
<b>OTHER EXPENSES</b>				
Travel & Meetings	10,000	10,000	2,888	29%
<b>SPECIAL PROJECTS RESERVE</b>	<b>396,325</b>	<b>-</b>	<b>-</b>	<b>0%</b>
<b>TOTAL EXPENSES</b>	<b>804,761</b>	<b>396,436</b>	<b>117,248</b>	<b>15%</b>
<b>UNENCUMBERED FUNDS</b>	<b>\$ -</b>	<b>\$ 408,325</b>		
<b>CASH AVAILABLE</b>			<b>\$ 99,642</b>	

# State & Federal Contractors Water Agency

## Coordinated Science Fund

**FY 2016/17 as of May 31, 2016**

Dollars (\$)

	FY 2016/17 Budgeted	FY 2016/17 Committed	FY 2016/17 Actual	% to Date 25%
<b>REVENUES</b>				
Member Dues	\$ 1,830,192	\$ 1,830,192	\$ 457,548	25%
Prior Year Carryover	1,713,539	1,713,539	1,713,539	100%
<b>TOTAL REVENUES</b>	<b>3,543,731</b>	<b>3,543,731</b>	<b>2,171,087</b>	
<b>CONSULTANT AND STAFF SERVICES</b>				
Allocated Staffing Costs	291,844	291,844	66,023	23%
Program Consultant	185,000	40,000	37,695	20%
Legal Counsel	2,500	-	345	14%
<b>PROGRAM OVERSIGHT AND EXPERTS</b>				
Science Document Review	35,000	-	-	0%
Subject Matter Experts	150,000	150,000	18,166	12%
<b>ONGOING PROCESSES</b>				
Estuarine Health Portal	95,000	-	-	0%
<b>SCIENCE INVESTIGATION PROJECTS</b>				
Pesticide	50,000	-	18,752	38%
Delta RMP	100,000	100,000	100,000	100%
Other Prior Year Projects	1,713,539	1,713,539	186,675	11%
<b>OTHER EXPENSES</b>				
Travel & Meetings	10,000	10,000	1,395	14%
Subtotal	2,632,883	2,305,383	429,051	
<b>COLLABORATIVE STUDIES</b>				
Collaborative Funding	298,844	-	-	n/a
MWD Sponsored Projects	161,649	161,649	33,387	n/a
Sea Grant Fellow	166,000	150,207	-	n/a
Allocation Under Discussion	284,355	-	-	n/a
Subtotal	910,848	161,649	33,387	n/a
<b>TOTAL EXPENSES</b>	<b>3,543,731</b>	<b>2,467,032</b>	<b>462,438</b>	<b>13%</b>
<b>UNENCUMBERED FUNDS</b>	<b>\$ -</b>	<b>\$ 1,076,699</b>		
<b>CASH AVAILABLE</b>			<b>\$ 1,708,649</b>	



# State & Federal Contractors Water Agency

## Delta Governance & Water Management Fund

**FY 2016/17 as of May 31, 2016**

Dollars (\$)

	FY 2016/17 Budgeted	FY 2016/17 Committed	FY 2016/17 Actual	% to Date 25%
<b>REVENUES</b>				
Member Dues	\$ 49,099	\$ 49,099	\$ 12,275	n/a
Prior Year Carryover	81,479	81,479	81,479	100%
<b>TOTAL REVENUES</b>	130,578	130,578	93,754	
<b>CONSULTANT AND STAFF SERVICES</b>				
Allocated Staffing Costs	28,578	28,578	5,994	21%
Legal Counsel	1,000	1,000	-	0%
<b>OTHER COSTS</b>				
Starthistle Water Savings Pilot	50,000	-	-	0%
<b>OTHER EXPENSES</b>				
Travel & Meetings	1,000	1,000	78	8%
<b>CAMT Consulting</b>				
CAMT Technical Services	50,000	24,919	-	n/a
<b>TOTAL EXPENSES</b>	130,578	55,497	6,072	5%
<b>UNENCUMBERED FUNDS</b>	\$ -	\$ 75,081		
<b>CASH AVAILABLE</b>			\$ 87,682	

# State & Federal Contractors Water Agency

## Habitat Implementation Fund

**FY 2016/17 as of May 31, 2016**

Dollars (\$)

	FY 2016/17 Budgeted	FY 2016/17 Committed	FY 2016/17 Actual	% to Date 25%
<b>REVENUES</b>				
Member Dues	\$ 338,836	\$ 338,836	\$ 84,709	25%
Construction Financing Tule Red	6,975,000	6,975,000	-	n/a
Prior Year Carryover	290,000	290,000	290,000	100%
<b>TOTAL REVENUES</b>	<b>7,603,836</b>	<b>7,603,836</b>	<b>374,709</b>	
<b>CONSULTANT AND STAFF SERVICES</b>				
Allocated Staffing Costs	89,836	89,836	39,558	44%
Legal Counsel	50,000	50,000	46,421	93%
Consulting Support	40,000	-	3,928	10%
<b>TULE RED PLANNING &amp; PERMITTING</b>				
Final Design, Permitting and Construction Bidding	445,000	445,000	252,689	57%
Construction	6,975,000	-	-	0%
<b>OTHER EXPENSES</b>				
Travel & Meetings	4,000	4,000	63	2%
<b>TOTAL EXPENSES</b>	<b>7,603,836</b>	<b>588,836</b>	<b>342,659</b>	<b>5%</b>
<b>UNENCUMBERED FUNDS</b>	<b>\$ -</b>	<b>\$ 7,015,000</b>		
<b>CASH AVAILABLE</b>			<b>\$ 32,050</b>	



**DEPARTMENT OF THE ARMY**  
 SAN FRANCISCO DISTRICT, U.S. ARMY CORPS OF ENGINEERS  
 1455 MARKET STREET  
 SAN FRANCISCO, CALIFORNIA 94103-1398

~~APR 20 2016~~

MAY 20 2016

**RECEIVED**  
 MAY 23 2016  
 BY: \_\_\_\_\_

Regulatory Division

SUBJECT: File Number 2014-00131S

Ms. Julianne Polanco  
 State Historic Preservation Officer  
 California State Department of Parks and Recreation  
 1725 23<sup>rd</sup> Street, Suite 100  
 Sacramento, California 95816

Dear Ms. Polanco:

The U.S. Army Corps of Engineers (Corps) has received an application for a Department of the Army Permit from State and Federal Contractors Water Agency for the Tule Red Tidal Restoration project. This project would restore and enhance approximately 420 acres of currently-managed duck club lands located on Grizzly Island in Suisun Marsh, Solano County, California (Lat.: 38.124853° N, Long.: -121.987739° W).

*Project Site Background*

The approximate 102,000 acre Suisun Marsh is characterized by tidal marsh, dike managed wetlands, and associated uplands intersected by channels and sloughs that connect with the adjacent Suisun Bay, Grizzly Bay, and Honker Bay. Suisun Marsh historically was a tidal marsh system comprised of brackish marshes with higher salinities towards the west and in the fall, and lower salinities in the east and in winter and spring. Much of Suisun Marsh is now disconnected from the direct tidal influence by constructed berms and levees. Within the action area, the managed marsh is completely drained in early summer to allow vegetation management, then flooded and maintained at a constant water level during the fall and winter for waterfowl habitat and hunting, a primary use in Suisun Marsh. The Corps conducted a site visit on October 21, 2015. A jurisdictional determination has not been issued to date.

*Project Description*

Work within Corps jurisdiction includes the excavation, grading, and recontouring of approximately 300,000 cubic yards of native soil. Construction-related impacts to jurisdictional waters would total 150 acres of temporary impacts. Project implementation would result in a net loss of approximately 7.5 acres of jurisdictional waters to accomplish a site total of approximately 420 acres of restored tidal wetland habitats. The proposed action would commence in summer

- 2 -

2016, and is expected to take 2-3 construction seasons (summers) to complete construction, including 1-2 year period of site stabilization (including re-vegetation) between grading and recontouring activities (Phase 1) and full tidal exposure (Phase 2). No further work is proposed at this project location.

### *Area of Potential Effects*

The Corps has determined that the undertaking's Area of Potential Effects (APE) is defined as the 420 acres of currently-managed duck club, located in Township 3N, Range 1W and Section 4, 5, and 9 of the USGS 7.5 minute quadrangle Denverton and Honker, California. Please refer to the Enclosure 1 showing the APE for the project.

### *Cultural Resources Inventory*

In accordance with Appendix C of 33 CFR Part 325, implementing procedures for complying with Section 106 of the National Historic Preservation Act, as amended (16 U.S.C. § 470f et seq.), a cultural resource study of the project sites was conducted by Peak & Associates, Inc., dated August 2015. This study included a records search conducted by the California Historical Resources Information System, Northwest Information Center (CHRIS/NWIC), Sonoma State University; and the results of a request to the Native American Heritage Commission (NAHC) for a review of the Sacred Lands Inventory (Enclosures 2).

There were no prehistoric or historic cultural resources identified within the areas of the APE surveyed. The potential for buried archaeological sites is considered low due to heavy sedimentation that has buried older surfaces to a considerable depth. The only area of the site that may have excavation up to 15 feet in depth is a relatively small area in the northwest where a channel will be cut the break the existing natural berm. This is an area that was part of Grizzly Bay prior to the 1850's gold rush. It is unlikely that prehistoric resources are present.

### *Cultural Resource Mitigation Measures*

The elements of the proposed project that ensure that impacts to archaeological resources would be avoided are presented below. In addition, management measures regarding the treatment of unanticipated archaeological discoveries are included. The discussion was extracted from the text in the enclosed cultural resources survey reports.

- Should any buried archaeological materials be uncovered during project activities, such activities shall cease within 100 feet of the find. Prehistoric archaeological indicators include: obsidian and chert flakes, and chipped stone tools; bedrock outcrops and boulders with mortar cups; ground stone implements (grinding slabs, mortars, and

- 3 -

pestles) and locally darkened midden soils containing some of the previously listed items plus fragments of bone and fire affected stones. Historic period site indicators generally include: fragments of glass, ceramic, and metal objects; milled and split lumber; and structure and feature remains such as building foundations, privy pits, wells and dumps, and old trails. The Corps shall be notified of the discovery and a professional archaeologist shall be retained by the permittee to evaluate the find and recommend appropriate mitigation measures. Proposed mitigation measures shall be submitted to the Corps for approval. Project related activities shall not resume within 100 feet of the find until all approved mitigation measures have been completed to the satisfaction of the Corps.

- If human remains are encountered, the permittee shall comply with all state laws. All project-related ground disturbance within 100 feet of the find shall be halted until the county coroner has been notified. If the coroner determines that the remains are Native American, the coroner would notify the Native American Heritage Commission within 24 hours. The Native American Heritage Commission will identify the person or persons believed to be the most likely descendants from the deceased Native American. The most likely descendent may make recommendations regarding the means of treating or disposing of the remains with appropriate dignity. Project-related ground disturbance, in the vicinity of the find, shall not resume until all statutory requirements have been met and evidence of completion has been submitted to the Corps.

#### *Coordination with Native Americans*

The Corps has coordinated with the Native American Heritage Commission. On March 23, 2016, the Corps sent letters requesting comments on the potential presence of cultural resources and the proposed protective measure to the two Native Americans tribal contacts identified by the Commission. Followed-up was conducted with both an email and telephone call to the tribes on May 19, 2016 and May 20, 2016. No comments were received.

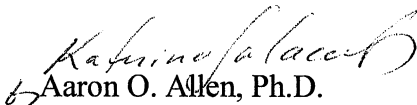
#### *Conclusion*

The Corps has determined that the proposed project will have no effect on historic properties/cultural resources. We believe that this letter and attached enclosures provide sufficient information for you to concur with the Corps' finding of no effect to historic properties.

- 4 -

Should you have any questions regarding this matter, please contact Janelle Leeson of our Regulatory Division at 415-503-6773 or by email: [janelle.d.leeson@usace.army.mil](mailto:janelle.d.leeson@usace.army.mil). Please address all correspondence to the Regulatory Division and refer to the File Number at the head of this letter.

Sincerely,

  
b7 Aaron O. Allen, Ph.D.  
Acting Chief, Regulatory Division

Enclosure

Copy Furnished without enclosure:

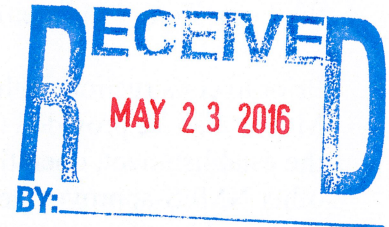
State and Federal Contractors Water Agency, Sacramento, CA (Attn.: Mr. Byron Buck) ✓  
Westervelt Ecological services, LLC, Sacramento, CA (Attn.: Mr. Robert Capriola)  
ESA, Inc., Sacramento, CA (Attn.: Ms. Priya Finnemore)





**UNITED STATES DEPARTMENT OF COMMERCE**  
**National Oceanic and Atmospheric Administration**  
**NATIONAL MARINE FISHERIES SERVICE**  
West Coast Region  
650 Capitol Mall, Suite 5-100  
Sacramento, California 95814-4700

**MAY 18 2016**



Mr. Byron M. Buck  
Executive Director  
State and Federal Contractors Water Agency  
1121 L Street, Suite 802  
Sacramento, California 95814

Re: Request for Conditional Credit Letter for the Tule Red Restoration Project

Dear Mr. Buck:

NOAA's National Marine Fisheries Service (NMFS) has received and reviewed the State and Federal Contractors Water Agency's (SFCWA) May 5, 2016, prospectus for the Tule Red Tidal Restoration Project (Project) and May 9, 2016 request for a conditional credit letter. As identified in the "Memorandum of Agreement Regarding the Early Implementation of Habitat Projects for the Central Valley Project and State Water Project Coordinated Operations and Bay Delta Conservation Plan" (MOA), dated September 2011, a prospectus is to be provided to the Fishery Agency Strategy Team (FAST) for the purpose of defining the type and amount of credit the habitat project would yield if implemented as planned. The FAST is comprised of technical representatives from NMFS, U.S. Fish and Wildlife Service (USFWS), California Department of Fish and Wildlife (CDFW), and U.S. Bureau of Reclamation (Reclamation).

Under the terms of the MOA, proposed habitat credits may be considered to fulfill the obligations established for habitat development under the USFWS's 2008 Biological Opinion for long term operations of the Central Valley Project (CVP) and State Water Project (SWP) (2008 USFWS BiOp; USFWS file No. 81420-2008-F-1481-5); NMFS's 2009 Biological Opinion and Conference Opinion on the Long-term Operations of the CVP and SWP (2009 NMFS BiOp; Ref. No. 2008/09022), and the CDFW's 2009 Incidental Take Permit (ITP) for Longfin Smelt (ITP No. 2008-2009-001-03). The FAST has reviewed your prospectus and made its recommendation to their respective fishery agencies on the amount of credits the Project would likely yield, if implemented as planned.

Based on your submitted prospectus and the FAST recommendations, NMFS has determined that the Project may be eligible towards partial fulfillment of the 17,000 - 20,000 acres of floodplain rearing habitat restoration requirement identified in reasonable and prudent alternative (RPA) Action I.6.1 of the 2009 NMFS BiOp and has identified the type and amount of credit the Project would yield in Table 1<sup>1</sup>.

<sup>1</sup> The 2008 USFWS BiOp includes RPA Component 4: Habitat Restoration to restore 8,000 acres of tidal habitat for the benefit of Delta smelt. If these 8,000 acres also provide suitable rearing habitat for salmonids, they may be used in partial satisfaction of the objective of this action.





To receive the credits as identified in Table 1, the Project must be constructed and implemented as planned in the Prospectus. Credits will be adjusted accordingly by NMFS, in communication with SFWCA, to reflect any changes in acreage that may occur to the Project from the design footprint approval to construction verification as built. Credits will be released upon Project construction and subject to monitoring, adaptive management, and annual reports as outlined in the Long-Term Management Plan for the Project.

Prior to construction of the Project, the following items, as identified in the prospectus and MOA, shall be provided to and approved by the FAST: (1) a Site Specific Agreement to govern the establishment, operation, and management of the Project; (2) a Conservation Easement or other NMFS-approved perpetual conservation mechanism to ensure the Project site will be protected in perpetuity; (3) a final Long-Term Management Plan to ensure the Project habitats are protected, managed, maintained, and monitored for the intended species and conservation objectives; (4) a Funding and Analysis and Schedule to estimate Project costs; (5) a Funding Mechanism to ensure sufficient funding will be provided to implement the Project and its Long-Term Management Plan; and (6) the geographic information system (GIS) based spatial file of the Project site, parcel(s), and delineations of habitat types. The FAST will develop a mechanism to track accumulated credits.

Please contact Brycen Swart at (916) 930-3712, or via email at [Brycen.Swart@noaa.gov](mailto:Brycen.Swart@noaa.gov), if you have any questions regarding this letter.

Sincerely,



Maria Rea  
Assistant Regional Administrator  
Central Valley Office

Cc: Division Chron File: 151422-WCR2016-SA00236

: Robert Capriola, Westervelt Ecological Services, 600 North Market Blvd, Suite 3,  
Sacramento, California 95834  
Kim S. Turner, U.S. Fish and Wildlife Service, 650 Capitol Mall, Suite 8-300,  
Sacramento, California 95814  
Jim Starr, California Department of Fish and Wildlife, 2109 Arch-Airport Road, Suite  
100, Stockton, California 95206  
Michelle Banonis, U.S. Bureau of Reclamation, Bay-Delta Office, 801 I St., Suite 140,  
Sacramento, California 95814



Table 1. Salmonids Credits

Habitat Types	Owned by	Project Acreage	Credits				
			Restoration		Enhancement		Total BiOp Credited Acres
			Ratio*	BiOp Credited Acres	Ratio*	BiOp Credited Acres	
Restoration (Conversion of Managed Wetlands to Tidal Marsh)							
Intertidal Habitat MLLW to MHHW (+1.1' NAVD to +7.0')	WES / SFCWA	320	1:1	320			320
	CDFW	57	0.8:1	46			46
Subtidal Habitat Tidal channels and ponds lower than MLLW ( $< +1.1'$ NAVD)	WES / SFCWA	20	1:1	20			20
	CDFW	10	0.8:1	8			8
Enhancement (Grizzly Bay)							
Subtidal Habitat Lower than MLLW ( $< +1.1'$ NAVD)  Tidal perennial aquatic (Grizzly Bay open water)	WES / SFCWA	255			0.85:1	217	217
Total acres:							610

Note: the acreages shown above do not include any acres associated with upland habitat, trails, structures, etc.

\* Ratios are consistent with those used from the Delta Smelt Crediting Model (10/28/2013 version) for delta smelt.

June 9, 2016

TO: SFCWA Board of Directors

FROM: Stephanie Fong, Acting Science Manager

RE: Science Program Manager's Report

	Activities since the last Manager's report included the following:	In addition to attending meetings, significant time was focused on:
Senior Scientist	<ul style="list-style-type: none"> <li>• SFCWA Technical Team (6/6)</li> <li>• Delta RMP TAC meeting (3/30)</li> <li>• Bay-Delta Science Conference Planning Meeting (6/9)</li> <li>• IAMIT (6/10)</li> <li>• Yolo Bypass Sampling Coordination (5/26)</li> <li>• Pyrethoid TMDL stakeholder meeting (6/1)</li> <li>• Cache Collaborative Coordination Call (6/1)</li> <li>• Science Manager Position Panel (6/7)</li> <li>• Delta RMP TAC Meeting (6/14)</li> </ul>	<ul style="list-style-type: none"> <li>• Chapter 7 of the State of the Bay Delta Science Report</li> <li>• Contracts, invoicing, and coordination on studies</li> <li>• Coordinating proposal reviews</li> <li>• Communication and coordination of workshop planning</li> <li>• Reviewing final reports</li> <li>• Reviewing meeting materials</li> <li>• Outreach and program development</li> </ul>
Scientist I	<ul style="list-style-type: none"> <li>• SFCWA Technical Team (6/6)</li> <li>• Tidal Wetlands Project Work Team (6/8)</li> <li>• Bay-Delta Science Conference Planning Meeting (6/9)</li> <li>• IAMIT (5/27,6/10)</li> <li>• Cache Collaborative Coordination Call (6/1)</li> </ul>	<ul style="list-style-type: none"> <li>• Meeting material preparation for SFCWA Technical Team, Policy Liaison Committee, PWA/DSP Meeting, and CEMW</li> <li>• Reviewing IAMIT Meeting Material</li> <li>• Reviewing contract deliverables</li> <li>• Scheduling Smelt Seminar continuation discussions</li> </ul>

<p>Science Specialist</p>	<ul style="list-style-type: none"> <li>• SBDS Contaminant chapter – author meeting (5/10, 5/17, 5/20)</li> <li>• IEP Workshop (4/20-4/22)</li> <li>• ISB Water Quality Meeting: Contaminant Presentation (5/12)</li> <li>• Smelt Recovery Action Plan</li> <li>• SFCWA Technical Team meeting (5/2, 6/6)</li> <li>• Association for the Sciences of Limnology and Oceanography Annual meeting, Santa Fe, NM (6/6-6/10)</li> </ul>	<ul style="list-style-type: none"> <li>• Two manuscripts Published <ul style="list-style-type: none"> <li>○ <i>Effects of high temperatures on threatened estuarine fishes during periods of extreme drought</i></li> <li>○ <i>Changes in Menidia beryllina gene expression and in vitro hormone receptor activation following exposure to estuarine waters near treated wastewater outfalls.</i></li> </ul> </li> <li>• One manuscript in press: <ul style="list-style-type: none"> <li>○ <i>Sublethal costs of salinity stress contribute to habitat limitation in an endangered estuarine fish</i></li> </ul> </li> <li>• SBDS: writing and coordination on contaminants issues, water quality and supply.</li> <li>• IEP Workshop planning committee: assisting with organization and session chairing.</li> <li>• Contaminant symposium organizing committee (chair) - UCD-CMSI &amp; DSC-DSP (planned for Fall 2016)</li> <li>• USEPA: International review of the use of novel (genomics) tools in contaminants' evaluation and regulation</li> <li>• Continuing Research: evaluation of the effects of multiple-stressors (temperature, salinity, turbidity, contaminants, disease) on Delta fishes; Delta smelt, Longfin smelt, Inland silversides, Chinook salmon, green and white sturgeon. Herbicide and insecticide related impacts on food web (aquatic invertebrates, and phytoplankton).</li> </ul>
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## Ongoing Activities in Delta Science

Science Program and Mission	Current Activities
<p><b><u>Delta Science Program (DSP):</u></b> The DSP was established to develop scientific information and synthesis for the state of scientific knowledge for managing the Bay-Delta system. That knowledge must be unbiased, relevant, authoritative, integrated across state and federal agencies, and communicated to Bay-Delta decision-makers, agency managers, stakeholders, the scientific community, and the public. Dr. Cliff Dahm is the Lead Scientist.</p> <p>The DSP is responsible for facilitating the external scientific review panels and workshops that review Delta science activities and programs.</p> <p>The Delta Science Program finalized the Delta Science Plan in 2013. In 2014 they used a stakeholder process to develop the Interim Science Action Agenda, while beginning implementation of high priority actions in the Science Plan. This includes putting in place new committees and a production schedule for a revised “State of Bay Delta Science” report.</p> <p><b><i>Participation with the DSP meets SFCWA Strategic Objective:</i></b> <i>Provide comments on and support significant and relevant Delta Science documents being produced in 2016 such as the Delta Science Action Agenda, Update to the State of Bay-Delta Science, the State of the Estuary Report, Water Board nutrient policy documents, the Delta Independent Science Board’s Water Quality Programs Review and science-related portions of the Bay Delta Conservation Plan (e.g., monitoring and adaptive management sections).</i></p> <p><b><i>Implementing Strategies:</i></b> <i>Facilitate the dissemination and understanding of Science findings.</i></p> <p><i>Partner with local, state, and federal agencies, as well as academia, including but not limited to helping implement the Delta Stewardship Council’s Delta Science Plan and Action Agenda.</i></p> <p><i>Participate in and support science conference forums and work efforts to increase mutual collaboration and understanding of multiple stressor effects on the Delta ecosystem.</i></p>	<p>The 2016 <i>State of the Delta Science</i> Report is being released in two issues. The first is estimated for release in July and the second in September. The contaminants chapter that Stephanie Fong Richard Connon, Val Connor, Lynda Smith, Stephen Louie, Inge Werner and Jay Davis have been co-authoring is scheduled for the September release.</p> <p>The DSP is developing the Science Action Agenda, in coordination with the Delta Plan Interagency Implementation Committee (DPIIC). The Public Water Agencies are not part of DPIIC, but will be able to provide public comment on the draft document.</p> <p><b>Workshops:</b> Planning of the Bay-Delta Science Conference continues. The conference will be held in the Sacramento Convention Center Nov 15-17<sup>th</sup>. The DSP is planning some workshops including a nutrient and ecological stoichiometry workshop in the late fall, a Sacramento real-time models workshop mid-year, and success stories from USGS’s long-term restoration efforts that have implemented an adaptive management approach.</p> <p><b>SFCWA role:</b> We continue to work with the DSP on the implementation of the Science Plan, and review and comment on DSP products. We are lead authors of the contaminants chapter of the State of the Bay-Delta Science Report. We coordinate a quarterly meeting of PWA staff with the Science Program staff and Lead Scientist. The next meeting is scheduled for May 4<sup>th</sup> from 2 until 4. Kelsey Cowin and Stephanie Fong are on the planning team for the Science Conference.</p>

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<p><b><u>Delta Independent Science Board (ISB):</u></b> The Delta ISB is a standing board of nationally renowned scientists with appropriate expertise to evaluate the broad range of scientific programs that support adaptive management of the Delta. The overall objective of the Delta ISB oversight is to help make the science underlying Bay-Delta programs, the application of that science, and the technical aspects of those programs the best that they can be.</p> <p><b><i>Participation with ISB meets SFCWA Strategic Objective: Provide comments on and support significant and relevant Delta Science documents being produced in 2016 such as the Delta Science Action Agenda, Update to the State of Bay-Delta Science, the State of the Estuary Report, Water Board nutrient policy documents, the Delta Independent Science Board's Water Quality Programs Review and science-related portions of the Bay Delta Conservation Plan (e.g., monitoring and adaptive management sections).</i></b></p>	<p>The ISB met on May 12<sup>th</sup> and will meet again on June 9<sup>th</sup>. The May meeting was part of an evaluation of ongoing Delta water quality monitoring that included a panel with updates on the monitoring conducted by IEP, the Delta RMP, MWQI, Water Boards, EPA, and USGS; and the future monitoring needs of these groups.</p> <p><b>Program Reviews:</b> The ISB is conducting five program reviews: Fish and Flows, Adaptive Management, Water Quality, Delta as Place and Delta Levees, and Water Supply Reliability. The Adaptive Management review was finalized. This report is relevant for SFCWA because it addresses the adaptive management of restoration sites and the upcoming flow objectives. The Delta as a Place review, the Water Quality, and Delta Levees reviews are making progress through the conducting of interviews with applicable entities.</p> <p><b>SFCWA role:</b> We regularly attend the ISB meetings and provide public comment when appropriate.</p>
<p><b><u>Interagency Ecological Program (IEP):</u></b> The mission of the IEP is, in collaboration with others, to provide ecological information and scientific leadership for use in management of the San Francisco Estuary. The goals of IEP are to: (1) Describe the status and trends of aquatic ecological factors; (2) Develop an understanding of environmental factors that influence observed status and trends; (3) Use knowledge to support natural resource planning, management, and regulatory activities in the estuary; (4) Continually reassess and enhance long-term monitoring and research activities that demonstrate scientific excellence; and (5) Provide scientific information about the estuary that is accurate, accessible, reliable, and timely.</p> <p><b><i>Participation with IEP meets all SFCWA Implementation Strategies and Strategic Objectives.</i></b></p>	<p>The last IEP Stakeholder Meeting was Feb 10<sup>th</sup> and IEP has provided their 2016 workplan, programmatic priorities for 2016 and draft Science Agenda. SFCWA provided them with comments in the attached letter, and it has been very well received.</p> <p>The SAIL and Drought MAST Reports are still being developed and drafts have not yet been released.</p> <p>The IEP calendar is posted on the IEP website <a href="http://www.water.ca.gov/iep/activities/calendar.cfm">http://www.water.ca.gov/iep/activities/calendar.cfm</a>.</p> <p><b>SFCWA role:</b> SFCWA actively participates in IEP Stakeholder meetings. Richard Connon is participating in the workshop planning and will keep SFCWA informed as planning ensues.</p>
<p><b><u>IEP Contaminants Work Team (CWT):</u></b> As a result of the Pelagic Organism Decline (POD) efforts, the IEP POD Management Team realized a need to incorporate contaminants into their evaluation of Delta condition and need for input on contaminant issues and priorities that would</p>	<p>IEP is attempting to reevaluate connectivity of their Project Work Teams (PWT). IEP will reintroduce the various PWTs and what they work on at the IEP Workshop, and Stephanie will represent the CWT.</p>

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<p>inform resource management and research dollars. The CWT has three subcommittees focused on their respective areas issues: pesticides, ammonium (and nutrients), and biomarkers.</p> <p><b>Participation in the CWT meets SFCWA Implementing Strategies:</b> <i>Facilitate the dissemination and understanding of Science findings.</i></p> <p><i>Partner with local, state, and federal agencies, as well as academia, including but not limited to helping implement the Delta Stewardship Council's Delta Science Plan and Action Agenda.</i></p>	<p><b>SFCWA role:</b> Stephanie Fong facilitates the CWT and its subcommittee meetings.</p>
<p><b>IEP Estuary Ecology Team (EET):</b> The EET is the oldest of the IEP project workteams, focused on the importance of the Low Salinity Zone and estuarine diversity. In the past, it was a small group of scientists working together to improve individual studies, but has grown to a mini-conference-style meeting open to the public.</p> <p><b>IEP FLaSH PWT:</b> The FLaSH IEP project workteam is a newly-formed PWT, focused on the importance of the Fall Low Salinity Habitat for delta smelt abundance over time. This is an open forum.</p> <p><b>IEP Resident Fish PWT:</b> The Resident fish project workteam is the newest PWT, focused on delta smelt and longfin smelt.</p> <p><b>IEP Tidal Wetland Monitoring PWT:</b> The Tidal Wetland project workteam is the newest PWT, focused on developing regional monitoring for tidal wetlands restoration.</p>	<p>The EET, FLaSH, and Resident Fish project work teams have not met.</p> <p>Tidal Wetland Monitoring PWT Updates can be found under the Strategic Objectives for Science section of this report.</p> <p><b>SFCWA role:</b> SFCWA staff participate in the meetings, and track their progress.</p>
<p><b>Delta Regional Monitoring Plan (RMP):</b> The Central Valley Regional Water Quality Control Board is implementing the core water quality components of a Delta RMP. The RMP responds to the need to improve coordination across multiple monitoring programs and to create a more comprehensive picture of conditions across the Delta as a whole. The Delta RMP is a complement to the existing San Francisco Bay RMP.</p> <p><b>Participation in the Delta RMP meets SFCWA Strategic Objective:</b> <i>Continue collaborative efforts with Delta science entities to improve monitoring, assessment and reporting of Bay Delta monitoring and research results through the participation in the California Estuary Monitoring Workgroup and California Estuaries Portal. The next phase of the Portal</i></p>	<p>Monitoring for pathogens and pesticides continue. The Delta RMP Steering Committee will meet on July 20<sup>th</sup>. The monitoring program will undergo an external review conducted by the Delta Science Program. Val Connor will represent SFCWA on the subcommittee working on the review with the Science Program. Val is also on subcommittees working to evaluate spending efficiencies of the RMP and ways to increase resources.</p> <p>The TAC last met on March 30<sup>th</sup> to discuss the proposed changes to the monitoring plan and will meet again on June 14<sup>th</sup>. The monitoring program still needs to develop data quality objectives and generate a set of power curves to better inform the implementation of the monitoring design. SFCWA has agreed to fund this analysis, concurrent with the external review of the monitoring program. The revised QAPP, scope of work</p>

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<p><i>funded by SFCWA will focus on three areas: working with USFWS to visualize their data on the portal, coordinating the inclusion of data from SFCWA-funded projects in the Cache Slough Complex, and implementation of a training program to allow users to use the portal more effectively. Staff will also work with Department of Water Resources staff as they manage their contract to further populate and refine the Portal, and San Francisco Estuary Partnership consultants to electronically visualize data from the 2015 State of the Estuary Report. Limit future funding (by FY-18) to uploading and visualizing SFCWA Science projects to the Portal.</i></p> <p><b>Implementation Strategies:</b> <i>Facilitate the dissemination and understanding of Science findings.</i></p> <p><i>Partner with local, state, and federal agencies, as well as academia, including but not limited to helping implement the Delta Stewardship Council's Delta Science Plan and Action Agenda.</i></p>	<p>for nutrients, report on pathogens, and DSP external review will be discussed at this meeting.</p> <p><b>SFCWA role:</b> Lynda Smith is on the Steering Committee, and Stephanie Fong will continue to represent SFCWA on the TAC. Val Connor will participate in special committees or in place of Lynda as directed by staffing needs.</p>
<p><b><u>San Francisco Bay Nutrient Management Strategy (NMS):</u></b></p> <p>The Nutrient Management Strategy for the Bay is a collaborative effort of the Bay RMP, USGS, the State and Regional Boards, BACWA, and others. Funding and oversight are provided by these multiple organizations. The goal of the nutrient strategy is to articulate a plan, agreed upon by the San Francisco Regional Water Quality Control Board (SFRWQCB) and SF Bay stakeholders, for the technical studies and policy decisions required to implement nutrient management in SF Bay.</p> <p><b><i>Engaging in the SF Bay nutrient strategy meets SFCWA Strategic Objectives:</i></b> <i>Coordinate research resulting in published findings on Delta ecosystem stressors toward developing management actions that further California's co-equal goals of a restored Delta ecosystem and water supply reliability.</i></p> <p><i>Participate in collaborative research that supports the SFCWA research plan and promote multi-disciplinary and co-incident studies to leverage resources.</i></p>	<p>In June, the San Francisco Bay Nutrient Management Strategy (NMS) process focused on the development of the FY17 Program Plan. The NMS Science Program is continuing to focus on monitoring, model development, and evaluation of potential nutrient related impairments in the Lower South Bay with focused monitoring and studies. On June 3, Lynda Smith attended the NMS Nutrient Technical Workgroup meeting. The meeting included updates on current NMS projects, discussion of proposed projects for FY17 and discussion of priorities. In addition to the core NMS monitoring program, the draft FY 17 Program Plan includes focused efforts on modeling, evaluation of dissolved oxygen conditions in sloughs and channel margin habitat, and analysis of HABs and toxins. SFEI staff will summarize the Nutrient Technical Workgroup comments on the FY 17 proposed projects and bring that information to the next NMS Steering Committee meeting. The NMS Steering Committee will meet June 10 to consider approval of the FY 17 Program Plan. The NMS science program has more priority projects than available funding, so they are evaluating partnerships and additional sources of funding to support the program.</p> <p><b>SFCWA Role:</b> Lynda Smith and Frances Brewster will represent the Public Water Agencies on the Steering</p>

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<p><b>Implementation Strategy:</b> <i>Provide comments on and support significant and relevant Delta Science documents being produced in 2014 such as the Delta Science Plan, Delta Action Agenda, Update to the State of Bay-Delta Science, the State of the Estuary Report, the Delta Regional Monitoring Program's monitoring plan, and science-related portions of the Bay Delta Conservation Plan (e.g., monitoring and adaptive management sections)</i></p>	<p>Committee. Lynda Smith, Frances Brewster, and Stephanie Fong will participate on the TAC.</p>
<p><b>Delta Nutrient Workplan Development:</b> In the Delta Stewardship Council's <a href="#">Delta Plan</a>, the Water Board was directed to prepare and begin implementing a study plan to develop nutrient objectives for the Delta and Suisun Marsh. This is Water Quality Recommendation #8 in <a href="#">Chapter 6</a> of the Delta Plan. Central Valley Regional Water Board staff wrote a <a href="#">Strategic Work Plan</a> that includes tasks, deliverables and a timeline to develop the study plan and determine if nutrient objectives are necessary. The initial foci of this group are nutrient ratios, blue-green algae, and macrophytes (as directed in the Delta Plan); as well as drinking water and low dissolved oxygen (as directed by stakeholders).</p> <p><b>Engaging in the Delta nutrient workplan development meets SFCWA Strategic Objectives:</b> <i>Coordinate research resulting in published findings on Delta ecosystem stressors toward developing management actions that further California's co-equal goals of a restored Delta ecosystem and water supply reliability.</i></p> <p><i>Participate in collaborative research that supports the SFCWA research plan and promote multi-disciplinary and co-incident studies to leverage resources.</i></p> <p><b>Implementation Strategy:</b> <i>Provide comments on and support significant and relevant Delta Science documents being produced in 2016 such as the Delta Science Action Agenda, Update to the State of Bay-Delta Science, the State of the Estuary Report, Water Board nutrient policy documents, the Delta Independent Science Board's Water Quality Programs Review and science-related portions of the Bay Delta Conservation Plan (e.g.,</i></p>	<p>The Stakeholder Technical Advisory Group met on April 11<sup>th</sup> to refine the process of developing a Delta Nutrient research plan. The current focus is planning of the nutrient forms and ratios workshop. Regional Board staff has contacted potential panel members and white paper authors, but schedules are proving to be difficult to coordinate and mid-November seems like a possibility. SWRCB will be providing \$20,000 for this effort and the DSP will provide funding for a review and oversight.</p> <p>A prioritization subcommittee led by Tom Grovhoug, LWA Assoc., on behalf of Regional San has been formed and met on May 20<sup>th</sup> to discuss how to prioritize between funding different nutrient topics. They are currently trying to use the DRERIP model to evaluate various scenarios. The next meeting will be June 20<sup>th</sup>.</p> <p><b>SFCWA Role:</b> SFCWA is participating in meetings and Stephanie Fong has been identified as a member of the technical workgroup for blue-green algae and nutrient ratios. She is also on the planning group for the nutrient ratios workshop and prioritization committee. Richard Cannon and Frances Brewster have also been named to the nutrient ratios technical team, and SFCWA will provide support to ensure the participation of SFCWA-funded researchers in the effort.</p>



Science Program and Mission	Current Activities
<p><i>monitoring and adaptive management sections).</i></p>	
<p><b><u>State Water Resources Control Board Nutrient Numeric Endpoints (NNE):</u></b> The SWRCB, along with EPA Region IX, is developing narrative objectives accompanied by numeric guidance for nutrient regulation. There are four phases to developing NNEs for CA. The first is to develop them for wadeable streams, then lakes, then estuaries and non-wadeable streams excluding the San Francisco Estuary, and lastly the San Francisco Bay-Delta. The timeframe for these efforts overlaps from 2014-2020.</p> <p><b><i>Engaging in the NNE process meets SFCWA Strategic Objectives:</i></b> <i>Coordinate research resulting in published findings on Delta ecosystem stressors toward developing management actions that further California's co-equal goals of a restored Delta ecosystem and water supply reliability.</i></p> <p><i>Participate in collaborative research that supports the SFCWA research plan and promote multi-disciplinary and co-incident studies to leverage resources.</i></p> <p><b><i>Implementation Strategy:</i></b> <i>Provide comments on and support significant and relevant Delta Science documents being produced in 2014 such as the Delta Science Plan, Delta Action Agenda, Update to the State of Bay-Delta Science, the State of the Estuary Report, the Delta Regional Monitoring Program's monitoring plan, and science-related portions of the Bay Delta Conservation Plan (e.g., monitoring and adaptive management sections)</i></p>	<p>No new reports for this period,</p> <p><b>SFCWA Role:</b> SFCWA is tracking the process and participating in meetings related to wadeable streams upstream of the Delta, and will later be involved in the last phase for the San Francisco Bay-Delta.</p>

## SFCWA Strategic Plan – Strategic Objectives for Science

Strategic Objective	Current Activities
<p><b>1. Provide comments on and support significant and relevant Delta Science documents being produced in 2016 such as the Delta Science Action Agenda, Update to the State of Bay-Delta Science, the State of the Estuary Report, Water Board nutrient policy documents, the Delta Independent Science Board's Water Quality Programs Review and science-related portions of the Bay Delta Conservation Plan (e.g., monitoring and adaptive management sections).</b></p> <p>Implementing Strategy 5: <i>Participate in and support science forums and work efforts to increase mutual collaboration and understanding of landscape restoration and multiple stressor effects on the Delta ecosystem.</i></p>	<p>Richard Connon, Val Connor, and Stephanie Fong are lead authors on the contaminants chapter of the State of the Bay-Delta Science Report. Inge Werner, Lynda Smith, and Jay Davis are co-authors on the chapter. A second draft was submitted to the Editorial Board on May 25<sup>th</sup> and authors are awaiting comments. Submission to the journal is expected by June 15<sup>th</sup>.</p> <p>Other activities are covered under the summaries of other science efforts.</p> <p>Through CEMW efforts, staff is working to promote access and use of data.</p>
<p><b>2. Update the SFCWA Research Plan by June 1, 2016.</b></p>	<p>Several subgroups have met to discuss updates, formatting changes, and messaging of the Research Plan and were provided a timeline. The SFCWA Technical Team's input will be used to update the "What we Know" and "What we Need to Know" sections. SFCWA staff have been in the process of updating the "SFCWA Contribution" sections. The next update will include an Invasive Aquatic Weed section, greater organization, and clarified relevance sections.</p>
<p><b>3. Continue collaborative efforts with Delta science entities to improve monitoring, assessment and reporting of Bay Delta monitoring and research results through the participation in the California Estuary Monitoring Workgroup and California Estuaries Portal. The next phase of the Portal funded by SFCWA will focus on three areas: working with USFWS to visualize their data on the portal, coordinating the inclusion of data from SFCWA-funded projects in the Cache Slough Complex, and implementation of a training program to allow users to use the portal more effectively. Staff will also work with Department of Water Resources staff as they manage their contract to further populate and refine the Portal, and San Francisco Estuary Partnership consultants to electronically visualize data from the 2015 State of the Estuary Report. Limit future funding (by FY-18) to uploading and visualizing SFCWA Science projects to the Portal.</b></p>	<p><b>CA Estuaries Monitoring Work Group (CEMW):</b> Agency staff are taking the lead on developing content for revisions to the Portal, and all members continue to look for funding and additional resources to advance this effort. There has been further coordination with the Bay Delta Live Workgroup. Val Connor is facilitating both groups to leverage the capabilities of both. In addition, the CEMW is working with the other portals addressing other habitat types, such as wetlands, to look for opportunities to leverage data and visualization tools. Live demonstrations of the Portal and Bay Delta Live will be presented at the IEP Annual Workshop.</p> <p><b>Estuaries Portal Development:</b> Attribute Leads have been responsible for the development of their pages. New work plans have been developed for 2016, and new lines of collaboration are being explored. Updates to the fish section are in the works. DWR has executed a contract to add IT support to this effort. These funds will be used for many of the updates to existing portal pages. The workgroup is investigating the potential for receiving Prop. 1 funds to expand the Portal.</p>

Strategic Objective	Current Activities
	<p><b>SFCWA role:</b> SFCWA funds and facilitates this effort and provides staff time including meeting logistics preparation, agenda development, outreach, and note taking. We continue to explore outside funding opportunities, increase collaboration, and recruit others for content development.</p> <p><b>Smelt Action Workgroup:</b> Following a CABA seminar focused on the status of delta smelt and longfin smelt in March, an impromptu groups was formed that includes PWA staff and various researchers and agency staff that were involved in the seminar. The group has tried to capitalize on the momentum generated at the seminar to develop actions that would help recover smelt.</p> <p><b>SFCWA Role:</b> SFCWA has been facilitating the meetings and promote discussions and meaningful efforts outside of the meeting to champion collaborative efforts.</p>
<p><b>4. Maximize our understanding of food web dynamics in the Cache Slough Complex by collaborative implementation of SFCWA funded research. Propose a special session at the 2016 Bay-Delta Science Conference focused on key findings.</b></p>	<p>The Cache Collaborative held their 4<sup>th</sup> quarterly meeting on February 24<sup>th</sup>. The group discussed data analysis that is currently being worked up and received a presentation on DWR's Fall Foodweb Subsidy study. The group will meet this summer to discuss synthesis across the projects. A number of PI's submitted abstracts for the 2016 Bay Delta Science Conference that will utilize data collected from these studies.</p>
<p><b>5. Collaborate on a regional monitoring framework for tidal wetland restoration through participation in IEP's Tidal Wetland Monitoring Project work team, leading to the development of a coordinated monitoring program for assessing restoration projects and their contribution to the Delta Ecosystem in 2016.</b></p> <p>The IEP Tidal Wetland Monitoring PWT was formed to develop guidance for effectiveness monitoring of restoration projects, working at the site and regional scale. SFCWA coordination with the PWT can help shape the monitoring that will be required of restoration projects, leverage existing monitoring programs, develop baseline data for evaluating project outcomes, and support region-wide evaluation of restoration success.</p>	<p>We are continuing coordination on science and monitoring priorities for Delta restoration.</p> <p>IEP Tidal Wetland Restoration Monitoring (March 30) – Further field testing by CDFW IEP staff is refining methods for foodweb and fish, for use by project-specific effectiveness monitoring. Proposed 2017 study plan to look at 6 sites: Suisun (3 including Grizzly Bay/Tule Red), confluence (Decker) and North Delta (Prospect, Lindsey SI). IEP expanding zooplankton sampling to compliment tidal wetland monitoring needs. USGS monitoring flux and fish movement (camera) at Little Holland tract. Documents: (1) conceptual models (team review in April) for publication in the online SFEWS journal, (2) Monitoring Framework Guidance document (review methods in May) to finalize Dec 2016. We provided an overview of the recently completed Tule Red Draft AMMP.</p> <p><b>SFCWA role:</b> SFCWA staff and contractor participate in the meetings, and use this to coordinate and inform project-specific monitoring and adaptive management plans (e.g., Tule Red) and permitting strategies.</p> <p>The Tule Red draft AMMP was sent for agency review in March. Initial feedback from DSC and IEP has been very positive. However, given USFWS concern with delta smelt status, monitoring will focus on physical habitat, hydrology and food web and will not include fish (as per ongoing Section 7 consultation).</p>