

## <u>MINUTES</u> ENGINEERING AND OPERATIONS COMMITTEE MEETING Thursday, October 7, 2021, 9:00 A.M.

## **COMMITTEE MEMBERS PRESENT:**

Director Edwin T. McFadden III Director Daniel C. Naumann Chair Lynn E. Maulhardt

#### **STAFF ATTENDING**

Dr. Maryam Bral, chief engineer Anthony Emmert, assistant general manager Brian Collins, chief operations officer Linda Purpus, environmental services manager Josh Perez, human resources manager Craig Morgan, engineering manager Robert Richardson, senior engineer Adrian Quiroz, associate engineer Michel Kadah, engineer Erik Zvirbulis, GIS analyst Randall McInvale, environmental scientist regulatory affairs Tessa Lenz, associate environmental scientist Ambry Tibay, senior accountant Daryl Smith, controller Dan Detmer, water resources manager Murray McEachron, principal hydrologist Zachary Plummer, IT administrator

#### PUBLIC PRESENT

None

#### **OPEN SESSION**: 9:00 a.m.

Chair Maulhardt called the Engineering and Operations Committee Meeting to order at 9:00 a.m.

#### **Committee Members Roll Call**

Administrative Assistant Destiny Rubio commenced Roll Call. Committee members: Chair Maulhardt, Director Naumann and Director McFadden were present.

## 1. Public Comment

Chair Maulhardt asked if there were any public comments for the Committee. None were offered.

Board of Directors Michael W. Mobley, President Bruce E. Dandy, Vice President Sheldon G. Berger, Secretary/Treasurer Mohammed A. Hasan Lynn E. Maulhardt Edwin T. McFadden III Daniel C. Naumann

General Manager Mauricio E. Guardado, Jr.

Legal Counsel David D. Boyer UWCD Engineering and Operations Committee Meeting MINUTES October 7, 2021 Page 2

## 2. Approval of Minutes

Motion to approve the Minutes from the September 2, 2021 Engineering and Operations Committee meeting, Director Naumann; Second, Director Maulhardt. Voice vote: three ayes (Naumann, Maulhardt, McFadden); none opposed; Motion carried, 3/0.

#### 3. October 13, 2021 Board Meeting Motion Agenda Items

## 3.1 Authorize a Contract with GEI Consultants, Inc. to Develop the 60 percent Design Phase of the Santa Felicia Dam Outlet Works Improvement Project

Chief Engineer Maryam Bral addressed the committee and provided a slide presentation (see attached) regarding staff's request to recommend authorizing the General Manager to execute an agreement with GEI Consultants, Inc. in the amount of \$1,715,706.00 to Develop the 60 percent Design Phase of the Santa Felicia Dam Outlet Works Improvement Project to the full Board.

Chair Maulhardt inquired about the project and if the existing outlet works will be abandoned in place. Dr. Bral stated that it is not possible to use the existing outlet works, the seismic deficiencies deem it unusable. Director McFadden asked for more detail on the abandonment of the outlet works. Dr. Bral stated that the plan is to abandon it in place and fill the penstock which will prevent dam safety issues. She added Engineering will gain a better understanding on how this will be done as they advance through the detailed design.

Assistant General Manager Anthony Emmert stated that staff has also considered interim risk reduction measures. Dr. Bral explained that in submitting a request to FERC for approval of the project schedule, FERC then posed the question of what would occur in the interim and requested plans for interim risk reduction measures (IRRMs) while the schedule is extended. Chair Maulhardt requested that staff inform the committee of future IRRMs discussions so that they have some visibility of the process. Dr. Bral thanked Chair Maulhardt for his comments and stated that Engineering will report back to the Committee with the IRRMs that are discussed with FERC.

Director Naumann inquired about the project timeline. Dr. Bral stated that Engineering has requested an extension from FERC to complete the design of the Outlet Works by December 2023, prepare for the bid process, and plan to begin construction in August 2024 for completion by 2026. She added that Spillway improvements will be lagging in parallel, the construction of the spillway would begin in 2026 and end in 2028.

Director Naumann then asked if this process includes the hydro plant. Dr. Bral stated that as part of the design process staff evaluated the size of hydropower units and presented options to the Board back in 2019. Staff also consulted with FERC. Director Naumann then requested that staff keep both the committee and Dennis Cardoza informed of these activities, for grant opportunities.

The committee members agreed to recommend approval of the motion item to the full Board.

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# **3.2** Authorize a Contract with GEI Consultants, Inc. to Develop the 30 percent Design Phase of the Santa Felicia Dam Spillway Improvement Project

Dr. Bral addressed the committee and provided a slide presentation (see attached) regarding staff's request to recommend authorizing the General Manager to execute an agreement with GEI Consultants, Inc. in the amount of \$579,948.00 to Develop the 30 percent Design Phase of the Santa Felicia Dam Spillway Improvement Project to the full Board. Director Naumann asked how much more the spillway capacity will be increased. Dr. Bral stated that the goal is to pass an inflow design flood of 220,000 cfs.

The committee members agreed to recommend approval of the motion item to the full Board.

3.3 <u>Resolution 2021-18</u> Adopting the California Environmental Quality Act (CEQA) Initial Study-Mitigated Negative Declaration (IS-MND) and approving Phase I of the Freeman Diversion Sediment Management Project and its Implementation Environmental Services Department Manager Linda Purpus addressed the committee and provided a slide presentation (see attached) regarding staff's request to recommend adoption of the CEQA IS-MND for Phase I of the Freeman Diversion Sediment Management Project and approve Phase I of the Project, authorizing its implementation by the General Manager, and directing the Environmental Services Manager to file a Notice of Determination in accordance with CEQA for the Phase I of the Freeman Diversion Sediment Management Project to the full Board. Ms. Purpus then introduced Environmental Scientist Evan Lashly to provide details on the Project.

Mr. Lashly presented the findings of the CEQA analysis for the Project. He stated that the District is prioritizing Phase 1 of the project for implementation this fall and staff will return to the full Board regarding adoption of the CEQA findings for Phase 2 at a later date. Director McFadden asked about the timing for the second phase of the project. Mr. Lashly stated that it is dependent on the success of Phase 1 and should be expected within the next year or two.

The committee members agreed to recommend approval of the motion item to the full Board.

## 4. Project Highlights

## 4.1 Engineering Department Monthly Update

Dr. Bral provided updates and slides (see attached) on the Engineering department's monthly updates. She then introduced Chief Operations Officer Brian Collins to provide updates on the physical modeling progress.

Chair Maulhardt inquired about a block depicted in one of the photos, and Engineering Manager Craig Morgan stated that it was implemented as a cleaning mechanism. Director Maulhardt then inquired about a portion of the model and asked how staff plans to transport machinery there. Mr. Morgan stated that it will be developed in the design. Chair Maulhardt asked if the 40,000 cfs depicted in the photo reflects the sediment loading and rocks or boulders hitting the concrete. Mr. Collins stated that the sediment and cobble transport will

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be evaluated in the physical model process and the damage not evident in the modeling will be evaluated in other ways such as computational fluid dynamics modeling. Director Naumann asked if a diversion was performed. Mr. Collins stated that there were administrative challenges with the drawings and the Bureau of Reclamation had not received the update in time to make the modifications. Director Naumann then asked about the University of Iowa's modeling progress. Mr. Collins stated that they have initiated construction of the 1:12 model.

#### 4.2 Environmental Services Department Monthly Update

Ms. Purpus provided updates and slides (see attached) on the environmental services department's monthly updates and then introduced Randall McInvale to present the key highlights.

#### 4.3 Operations and Maintenance Department Monthly Update

Mr. Collins provided updates and slides (see attached) on the operations and maintenance department's activities for the month. Chair Maulhardt inquired about the expected life of the microscreens. Mr. Collins stated that he does not have the answer at this time, but that they are in good shape and are better maintained now. Chair Maulhardt then inquired about the dollar amount of the chlorine scrubber replacement, to which Mr. Collins responded the cost to replace the chlorine scrubber is approximately \$250,000 dollars.

#### 5. Future Agenda Topics

No future agenda topics were offered.

#### ADJOURNMENT 10:44 a.m.

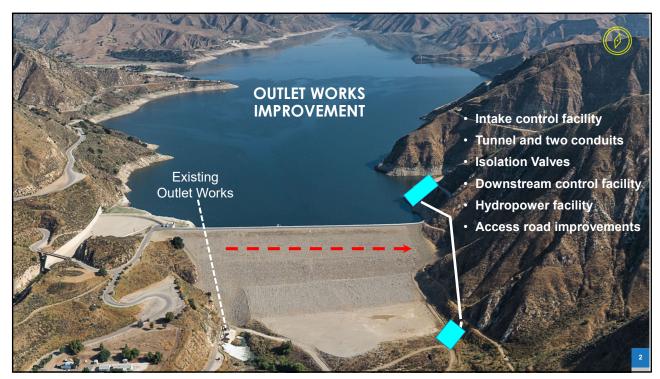
Chair Maulhardt adjourned the Engineering and Operations Committee meeting at 10:44 am.

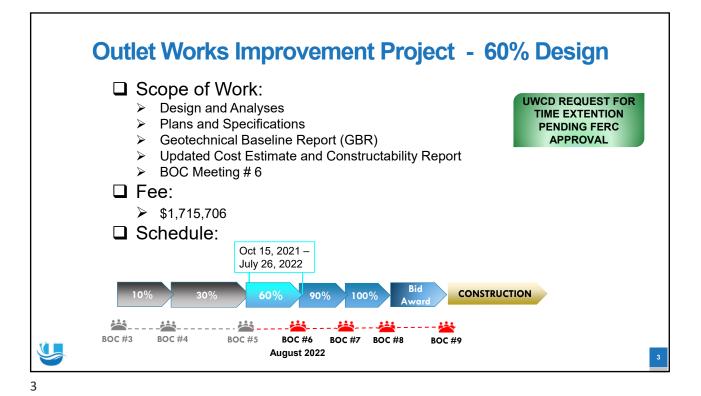
I certify that the above is a true and correct copy of the minutes of the Engineering and Operations Committee Meeting of October 7, 2021.

Julho ATTEST:

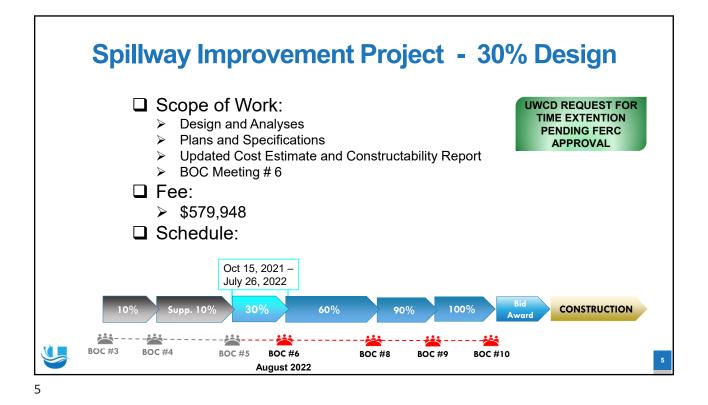
Lynn Maulhardt, Chair







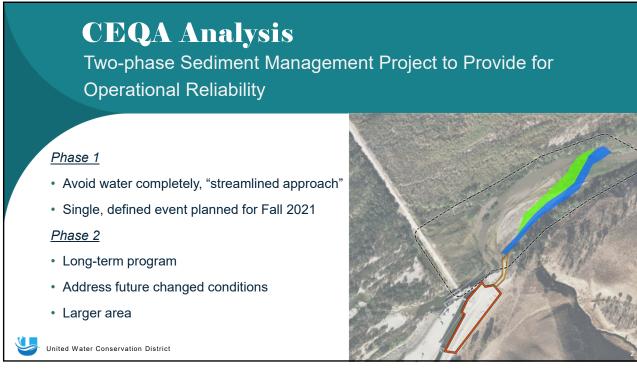
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Santa Felicia Dam Safety Improvement Project Progress

	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
BOC Meeting No. 5													
60% Design of New Outlet Works													
30% Design of Spillway Improvement Project													
BOC Meeting No. 6												•	
FERC License Amendment Application													
FERC Approval for License Amendment													
NEPA Document Processing													





## **CEQA** Findings

#### **Potentially Significant Impacts**

less than significant with mitigation incorporated

- Biological Resources
- Cultural Resources
- Geology/Soils
- Tribal Cultural Resources

#### Significant findings:

- The project will not have a significant impact on the environment
- The project will not make or contribute to significant cumulative impacts
- The project would not have a significant impact on humans

#### Less Than Significant or No Impacts

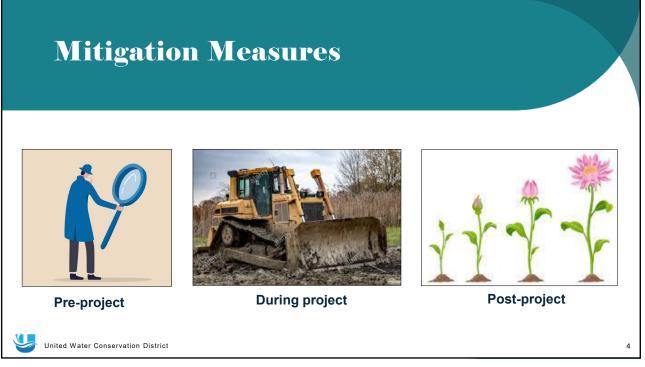
- Aesthetics
- Agriculture and Forestry Resources
- Air Quality
- Energy
- Greenhouse Gas Emissions
- Hazards and Hazardous Materials
- Hydrology/Water Quality
- Land Use/Planning
- Mandatory Findings of Significance

#### Mineral Resources

- Noise
- Population/Housing
- · Public Services
- Recreation
- Transportation
- Utilities/Service Systems

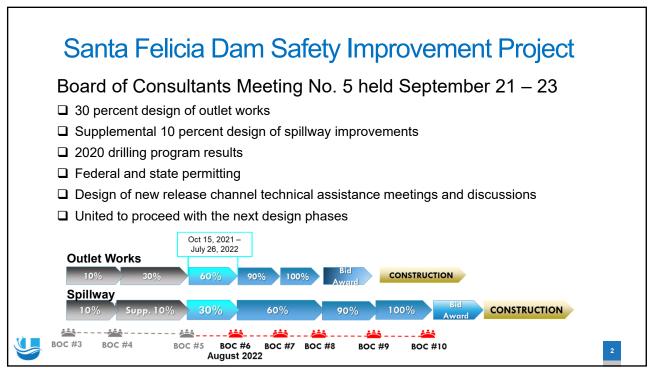
United Water Conservation District

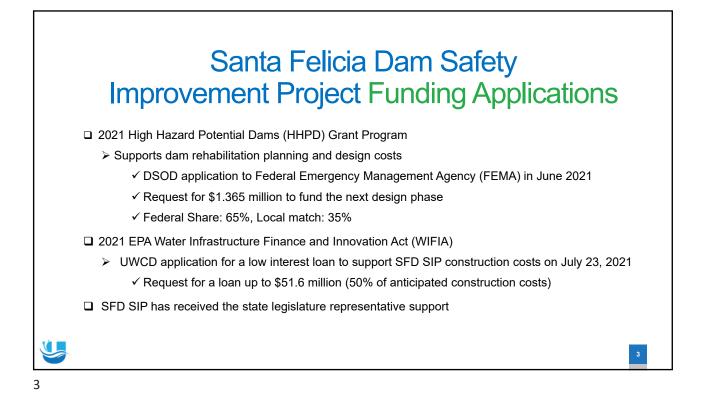
Wildfire

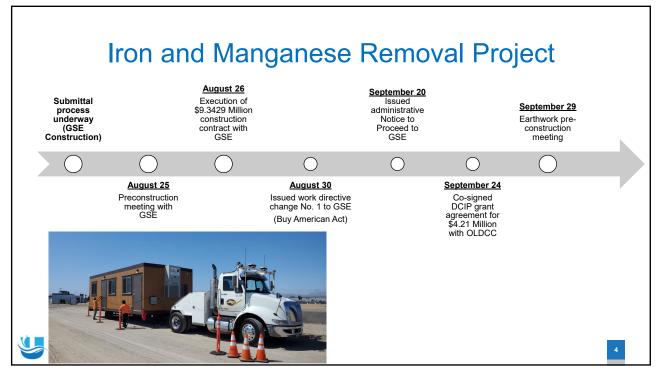


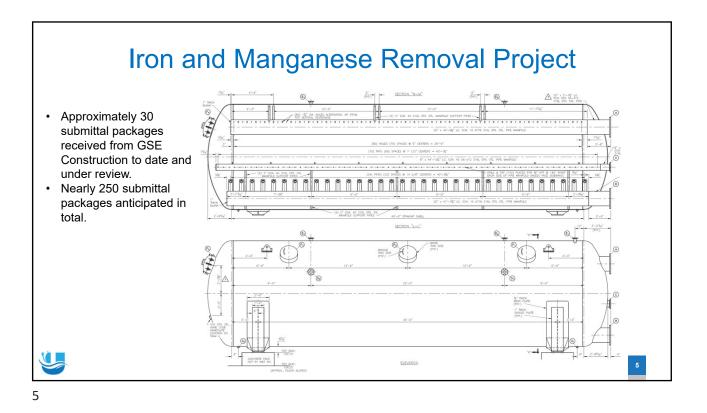








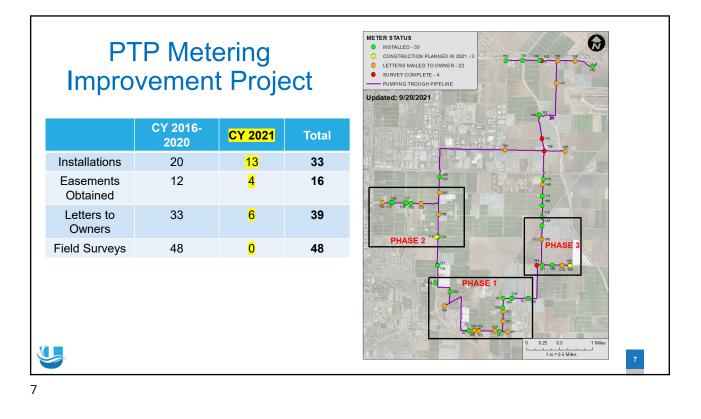


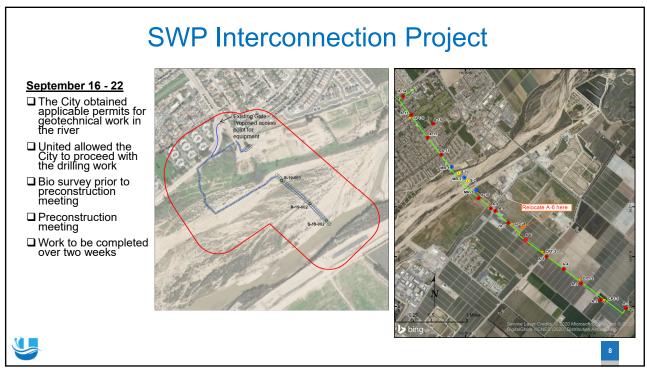


**OH System Backup Generator Project** 

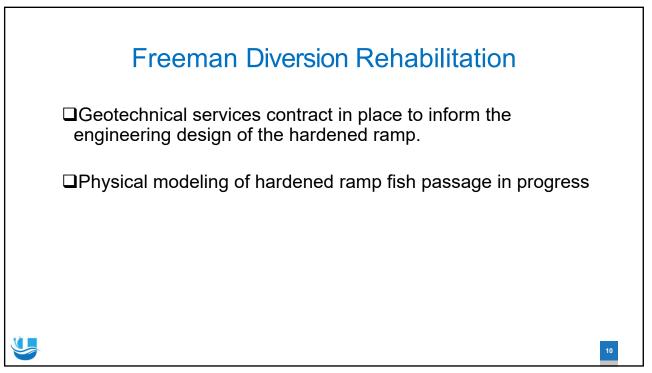
- Three transformers were installed
- Existing fuel tank cleaning completed on August 31
- Four light poles were installed
- PLC cabinet was replaced
- Delay in manufacturing and delivery of remaining electrical cabinets
- Construction completion by Dec 23
- The 3rd quarterly report and 3<sup>rd</sup> reimbursement report due October 15
- □ \$66,690.72 has been received to date







Grant Program	Grant Program Summary	Deadline
DOD – DCIP Defense Community Infrastructure Program	Ask: \$4.37 M	<ul> <li>Initial application, July 12</li> <li>Invitation to apply, August 16</li> <li>Final application, August 27</li> </ul>
FEMA HHPD High Hazard Potential Dams -	Planning and design Total grant program: \$11.6 M	<ul> <li>Initial HHPD application on July 16</li> <li>Final application date pending</li> </ul>
California, DSOD: Applicant UWCD: sub applicants	Ask: \$1.37M (60% Design/30% Design) Federal Share: 65% Non-federal Match: 35%	Congress Woman Julia Brownley's Letter to FEMA supporting funding SFD SIP on Sept 7
EPA WIFIA Water Infrastructure Finance and Innovation Act	Low Interest Rate Loan Total Grant Program: \$5.5 B Federal Share: up to 49% Ask: \$51.7 M	<ul> <li>Initial WIFIA application on July 23</li> <li>Final application date pending</li> </ul>
DWR Prop 1 Groundwater Grant Program Round 3	Implementation Projects for groundwater clean up and WQ improvements State Match: 50% Ask: \$4.225 M	<ul> <li>Initial application submitted on September 7</li> <li>Final Application due in Nov 2021</li> <li>Preliminary Award Date: Summer 2022</li> </ul>
CalOES Community Power Resiliency Allocations to Special Districts Program	Financial support for furnishing and installing backup generators at 3 locations within the Service Area.	Received grant award for \$198,612

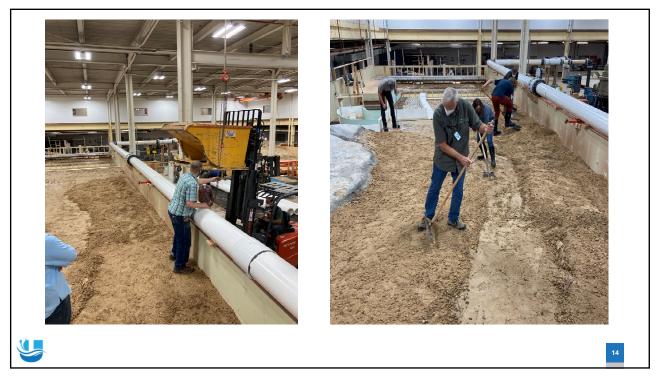






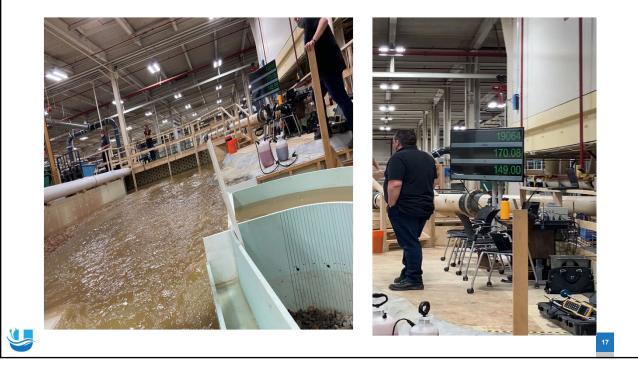
Engineering and Operations Committee Meeting Minutes - Agenda Item 4.1



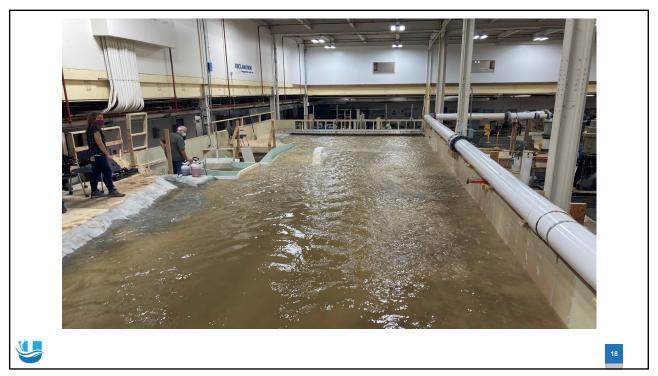






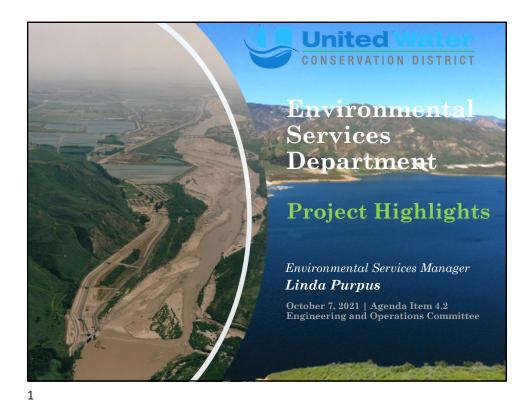


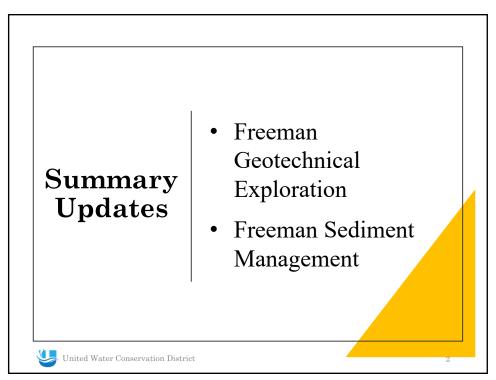


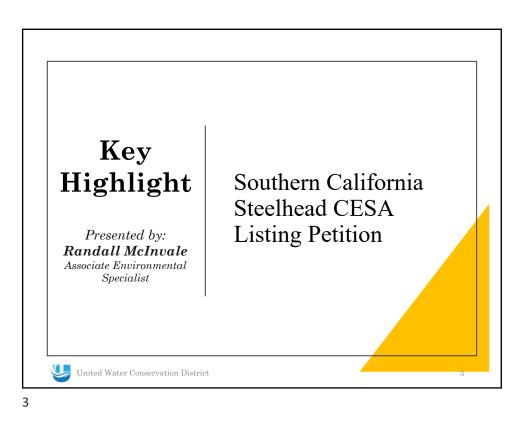


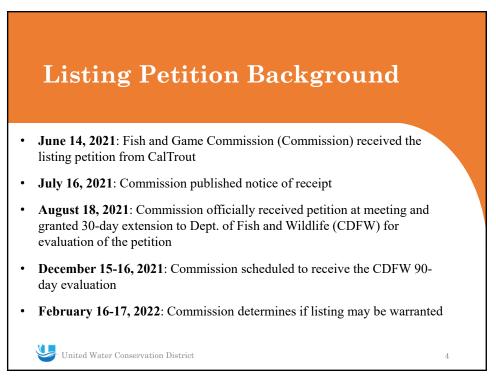




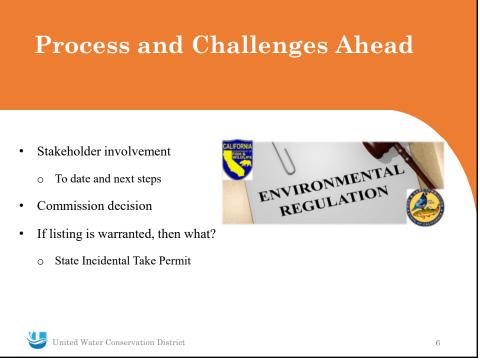


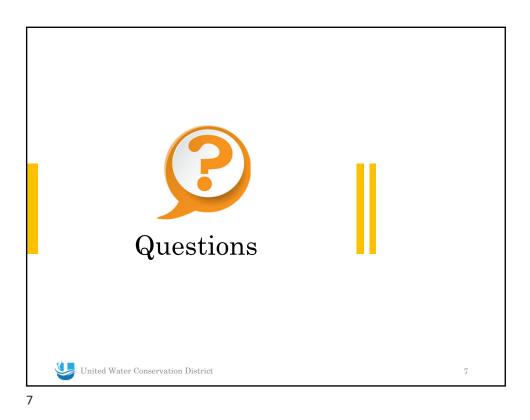
















**NEW RADIO LINK INSTALLATION** 













