SEC Member
Question/Request Tracking Log
Presented 02.12.2020

#	Date	Requester	Questions/Comments	Responder	Status
1	12/11/19	Barbara Barrigan-Parrilla	Will there be real-time disclosure of existing issues discovered during soil testing or field work?	Gwen Buchholz	Responded 1/22/2020
2	12/11/19	Barbara Barrigan-Parrilla	Are you going to coordinate markers on each soil collection point so levee impacts can be tracked by RD's?	Graham Bradner	Responded 1/22/2020
3	1/6/20	David Gloski	Flow at the intake – At the last meeting someone asked about negative or reverse flow in the river at the intake. There was an instant response of no, never negative, but I sort of wonder what that looks like at high or low tide. That is a big issue out here and I personally would like to understand those flows at the intake during the complete tide cycle. Top, bottom, half tide rising (flooding), half tide falling (ebbing). At full "take" what are the flows just above, just below, and going out of the system? I assume that just below there is always a positive downstream cfs there even when it is peak flooding. Specific numbers like that would help. Probably good to do during the driest drought time, low river flow. If we can get those flows we, I, can put stuff like that to bed when talking with people.	Phil Ryan	Responded 1/22/2020
4	12/11/19	Anna Swenson	Can we add to Map 8: Historical sites, cultural resources, Ind	Gwen Buchholz	Responded 1/22/2020
5	12/11/19	Phillip Merlo	Is there a map reflecting the history of settlement of Native peoples (Mr. Merlo offered to help coordinate data collection)?	Gwen Buchholz	Responded 1/22/2020
6	12/11/19	Barbara Barrigan-Parrilla	Will you be identifying and protecting native plant species around the Clifton Forebay used for tribal medicinal practices?	Carrie Buckman	Responded 1/22/2020
7	1/3/20	Jim Wallace	NEPA is the National Environmental Policy Act, not ..."Protec	Nazli Parvizi	Responded 1/22/2020
8	12/27/19	David Gloski	Directory for DCA employees?	Nazli Parvizi	Responded 1/22/2020
9	12/11/19	Anna Swenson	What is the definition of "temporary" in terms of years?	Carrie Buckman	Responded 1/22/2020
10	12/11/19	Anna Swenson	Who decides what a reasonable alternative is, what makes an alternative qualify as "reasonable" and to whom is the alternative deemed reasonable?	Carrie Buckman	Responded 1/22/2020
11	12/11/19	General	Clarification about how DWR will reflect and characterize SE	Carrie Buckman	Responded 1/22/2020
12	12/11/19	Anna Swenson	Incorrect data on Map 7, cropscape is historically wrong. Will this be corrected?	Gwen Buchholz	Follow-up Needed

SEC Member
Question/Request Tracking Log
Presented 02.12.2020

#	Date	Requester	Questions/Comments	Responder	Status
13	12/11/19	General	What constitutes a recreational facility in terms of representing sensitive receptors?	Gwen Buchholz	Follow-up Needed
14	12/11/19	General	Is there a map reflecting existing water infrastructure and facilities such as intakes, diversion works and conveyance facilities?	Karen Askeland	Responded 2/12/2020
15	1/16/20	Barbara Barrigan-Parrilla	Would it be possible for the upcoming packet to get a map with the alignment for the tunnel that has the following: 1) Highways, railroads -- any major infrastructure that is easy to label. It needs a few more markers for users. 2) A legend for miles. 3) Names of the islands through which it passes and refuges -- public boat launches if time permits. That would be helpful. It will make discussions easier. Across the board, people in the community are frustrated that the NOP map is hard to read. We understand that it may be more conceptual; my request is for readability.	Gwen Buchholz	Follow-up Needed
16	12/11/19	Angelica Whaley	DWR plans for levee maintenance in regards to the intakes and flood protection?	Luke Miner	Responded 2/12/2020
17	12/11/19	Anna Swenson	How long the bridges have to be up and when for DCA construction barges?	Luke Miner	For Future Discussion
18	12/11/19	Anna Swenson	What are round trip barge calculations?	Luke Miner	For Future Discussion
19	12/11/19	Anna Swenson	Do the conveyor belts go across the island?	Luke Miner	Responded 2/12/2020
20	12/11/19	Anna Swenson	Features that could end up being permanent?	Luke Miner	For Future Discussion
21	12/11/19	Anna Swenson	Fuel stations aesthetics, whether they will be temporary or permanent, if they will be underground or above-ground tanks, their proximity to schools and people and what safety operations are going to be used to ensure against contamination?	Luke Miner	For Future Discussion
22	12/11/19	Anna Swenson	Batch plants effects on air quality?	Luke Miner	For Future Discussion
23	12/11/19	Anna Swenson	Map that depicts an interaction with the bridges?	Luke Miner	For Future Discussion
24	12/11/19	Anna Swenson	Pile Drivers: How many sites, are they all at once, how close, duration?	Luke Miner	Responded 2/12/2020
25	12/11/19	Anna Swenson	Barges: Size, docking areas, bridges impact, how many barge trips per day, how many docks for barges?	Luke Miner	For Future Discussion
26	12/11/19	Barbara Barrigan-Parrilla	Toxicity from soil strengthening, potential spread and impact on sloughs?	Luke Miner	For Future Discussion

SEC Member
Question/Request Tracking Log
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#	Date	Requester	Questions/Comments	Responder	Status
27	12/11/19	Barbara Barrigan-Parrilla	Air quality around port of Stockton from increased barge and train traffic?	Luke Miner	For Future Discussion
28	12/11/19	David Gloski	What are the anticipated waterway rules and process when DCA construction barges are on the waterways?	Luke Miner	For Future Discussion
29	12/11/19	General	How the testing, drying, run-off and on-site management of reusable tunnel material will work?	Luke Miner	For Future Discussion
30	12/11/19	General	Specifics of tunneling process, machinery used, material derived and its treatment?	Luke Miner	Responded 2/12/2020
31	12/11/19	General	RTM testing, usage, drying, run-off and on-site management?	Luke Miner	For Future Discussion
32	12/11/19	Gilbert Cosio	Specific discussions about the barge loading locations?	Luke Miner	For Future Discussion
33	12/11/19	Jim Wallace	Is there siting information available for burrow pits?	Luke Miner	Responded 2/12/2020
34	12/11/19	Karen Mann	How barges used by DCA during construction would affect the recreational activities in the waterways?	Luke Miner	For Future Discussion
35	12/11/19	Karen Mann	Waterways safety and usage during construction barging?	Luke Miner	For Future Discussion
36	12/27/19	David Gloski	Fishless intake system? Finds it hard to believe there are no fish in there. Can you explain how this would be fishless including tiny fish?	Luke Miner	Responded 2/12/2020
37	1/22/20	Anna Swenson	Can we have the question tracking packet in a digital format?	Nazli Parvizi	Responded 2/12/2020
38	1/26/20	Karen Mann	Is there any chance we could have the maps which are being provided to SEC and Scope meetings to actually name the waterways and show the location of Marinas?	Karen Askeland	Responded 2/12/2020
39	1/22/20	Michael Moran	What possible impact will the project have on the Park District's several properties in the South-Central Delta that are under irrigation leases?	Gwen Buchholz	Responded 2/12/2020
40	1/22/20	Anna Swenson	Can members have access to the recent geotechnical data collected?	Gwen Buchholz	Responded 2/12/2020
41	1/22/20	Anna Swenson	Can we have the GPS coordinates of the three favorable intake sites?	Karen Askeland	Responded 2/12/2020
42	1/22/20	Jim Wallace	Is there a possibility the geotechnical reports DWR is currently conducting could change where the intakes are located?	Andrew Finney	Responded 2/12/2020
43	1/22/20	Barbara Barrigan-Parrilla	How will the new levee effect the other Delta levees?	Graham Bradner	Responded 2/12/2020

SEC Member
Question/Request Tracking Log
Presented 02.12.2020

#	Date	Requester	Questions/Comments	Responder	Status
44	1/22/20	Barbara Barrigan-Parrilla	What are the calculations on the volume of sediment for these flows and for high water events?	Phil Ryan	Responded 2/12/2020
45	1/22/20	Cecille Giacoma	Can you provide the truck trip estimates for operational traffic for hauling away sediment?	Phil Ryan	Responded 2/12/2020
46	1/22/20	Jim Wallace	Will the sediment basin be lined, and if not, will the basins be in groundwater from 4 or 5 feet below existing ground level and below? Does DCA expect the slurry walls to keep them out of the groundwater?	Andrew Finney	Responded 2/12/2020
47	1/22/20	Jim Wallace	How will this facility be kept operational once it is constructed considering the amount of dewatering that needs to occur?	Phil Ryan	Responded 2/12/2020
48	1/22/20	Michael Moran	Is there any correlation with outside bends and in-migration and out-migration of fish?	Carrie Buckman	Responded 2/12/2020
49	1/22/20	Barbara Barrigan-Parrilla	Can SEC members get answers to questions about the river bends even if it comes from fish biologists, since there is a difference of opinion within the fish biology community?	Carrie Buckman	Responded 2/12/2020
50	1/22/20	Barbara Barrigan-Parrilla	Will the impact analysis of the fish screen brushing on the food web be performed to a microscopic level?	Carrie Buckman	Responded 2/12/2020
51	1/22/20	Michael Moran	Is there any consideration given to any type of unexpected wildlife that gets stuck in the sedimentation basin, such as monitoring of eggs?	Phil Ryan	Responded 2/12/2020
52	1/22/20	Douglas Hsia	How will this facility be ensured to not kill Delta smelt, as has been reported to be happening at Clifton Forebay?	Phil Ryan	Responded 2/12/2020
53	1/22/20	Sean Wirth	Is it possible to incorporate a riparian zone into the design of an intake facility, and would that be easier with the cylindrical tee screen or vertical flat plate type?	Phil Ryan	Responded 2/12/2020
54	1/22/20	Cecille Giacoma	What is the fish screen noise in decibels?	Phil Ryan	Responded 2/12/2020
55	1/26/20	Karen Mann	It was mentioned that there would be new barge routing and landing “overlay maps”. Do you know if they are available yet for either the proposed eastern route or the westerly (original route)?	Luke Miner	Responded 2/12/2020
56	1/22/20	Karen Mann	Would the barge mapping change depending on which corridor is ultimately selected?	Luke Miner	Responded 2/12/2020
57	1/22/20	Barbara Barrigan-Parrilla	Can you provide an effects comparison chart for SEC members to compare the effects between rail, barges and roads? The chart should include effects on water quality, boating, truck trips, etc.	Gwen Buchholz	Responded 2/12/2020

SEC Member
Question/Request Tracking Log
Presented 02.12.2020

#	Date	Requester	Questions/Comments	Responder	Status
58	1/22/20	Michael Moran	Are there yet any proposed locations for tunnel shafts?	Luke Miner	Responded 2/12/2020
59	1/22/20	Barbara Barrigan-Parrilla	Will there be discussion about the flow capacity used and will it be pressurized or not pressurized?	Terry Krause	Responded 2/12/2020
60	1/22/20	Barbara Barrigan	Will there be real-time disclosure with water quality issues found during construction?	Gwen Buchholz	Responded 2/12/2020
61	1/22/20	Barbara Barrigan-Parrilla	Why aren't there more meetings in Antioch and Rio Vista? Concern that the scoping meetings are not broad enough for the project.	Janet Barbieri	Responded 2/12/2020
62	1/22/20	Jesus Tarango	Can additional scoping meetings for Northern, Central and Southern tribes be held?	Carrie Buckman	Responded 2/12/2020
63	1/22/20	Douglas Hsia	Is the corridor that was proposed through the Deepwater Channel with an intake near Rio Vista still a possibility?	Carrie Buckman	Responded 2/12/2020
64	1/22/20	Malissa Tayaba	Why all of this for one region?	Carrie Buckman	Responded 2/12/2020
65	1/22/20	Mike Hardesty	Will there be some information provided to the committee regarding hydraulic impacts such as water surface elevations and velocity?	Carrie Buckman	Responded 2/12/2020
66	1/25/20	David Gloski	Asking for initial modeling results around intakes per a prior email. Drought in wet years, various tides including the slack tides, min and max take flows. Points of interest include the flows at the downstream end of the intake, and even of there is a stronger take on the upstream end of the intake leading to what is necessary or optimum size along the river.	Carrie Buckman	Responded 2/12/2020
67	1/22/20	Malissa Tayaba	Why were Southern California reservoirs full when Northern California reservoirs were empty during the last drought?	Carrie Buckman	Responded 2/12/2020
68	1/22/20	Malissa Tayaba	How much water is being pulled out and from where?	Carrie Buckman	Responded 2/12/2020
69	1/22/20	Malissa Tayaba	Concerns include water quality, water levels rising and falling and how that will affect fish and plants?	Carrie Buckman	Responded 2/12/2020
70	1/22/20	James Cox	Will the pile driving vibration effects on the fisheries be studied?	Carrie Buckman	Responded 2/12/2020
71	1/22/20	Michael Moran	What effect will restoration plans and mitigation plans have on state parks?	Carrie Buckman	Responded 2/12/2020
72	1/22/20	Michael Moran	What is the process in place for any undocumented cultural sites that might be discovered during construction?	Carrie Buckman	Responded 2/12/2020
73	1/22/20	Malissa Tayaba	Do people in Southern California know that is impacting villages in Northern California?	Carrie Buckman	Responded 2/12/2020

RESPONSE TO QUESTIONS/INFORMATION REQUESTS

Date: 12/11/2019
Requester: General
14. Question/Comment: Is there a map reflecting existing water infrastructures and facilities such as intakes, diversion works and conveyance facilities?

Response: This map will be presented to the SEC during the February 12 meeting.

Date: 12/11/2019
Requester: Angelica Whaley
16. Question/Comment: DWR plans for levee maintenance in regards to the intakes and flood protection?

Response: The DCA is working with the US Army Corps of Engineers (levee owner) to ensure that the construction of the intakes poses no additional flood risk. The current plan for keeping the levees intact during intake construction was presented during the January 22, 2020 presentation on intakes. To address this issue, the DCA prepared a construction sequence animation which showed how the levee and flood management protection would be maintained throughout the entire construction period. This material is available online at dcdca.org.

Date: 12/11/2019
Requester: Anna Swenson
19. Question/Comment: Do the conveyer belts go across the island?

Response: In order to reduce truck trips and roadway congestion, conveyor belts can be used to transport reusable tunnel material (RTM) from launch shaft sites to storage locations. RTM conveyance will be discussed further at February and March SEC meetings.

Date: 12/11/2019
Requester: Anna Swenson
24. Question/Comment: Pile Drivers: How many sites, are they all at once, how close, duration?

Response: Pile driving could be used at numerous locations of the Delta Conveyance project, including the intakes. The January 22, 2020 presentation on intakes described the potential need for pile driving at intake locations. The presentation included exhibits prepared by an acoustic engineer and quantified potential noise effects due to pile driving at the intake sites, and the potential for noise reduction with several construction methods. This material is available online at dcdca.org and further information on pile driving for other components will be presented at upcoming meetings.

RESPONSE TO QUESTIONS/INFORMATION REQUESTS

Date: 12/11/2019
Requester: General
30. Question/Comment: Specifics of tunneling process, machinery used, material derived and its treatment?

> **Response:** The February 12, 2020 meeting includes a presentation that describes the specifics of the tunneling process.

Date: 12/11/2019
Requester: Jim Wallace
33. Question/Comment: Is there siting information available for burrow pits?

> **Response:** SEC Meetings 3-8 break the project up into individual components, each with their individual requirements for imported material. For components where a lot of import is needed, the presentations will include potential import sites and invite committee feedback to provide additional considerations.

Date: 12/27/2019
Requester: David Gloski
36. Question/Comment: Fishless intake system? Finds it hard to believe there are no fish in there. Can you explain how this would be fishless including tiny fish?

> **Response:** Intake screens would be sized according to current State and Federal regulations which require that they be small enough to screen out juvenile salmonids and Delta Smelt. In accordance with current regulations, an intake water velocity of 0.2 feet per second would be required to ensure the safety of these fish as they swim close to the fish screens. This question from December 2019 was answered in the January 22 meeting in the presentation on intakes. The material is available online at dcdca.org.

Date: 1/22/2020
Requester: Anna Swenson
37. Question/Comment: Can we have the question tracking packet in a digital format?

> **Response:** We are working on a searchable Q&A database as a feature for our new website. In the meantime, our Q&A is updated online at www.dcdca.org a few days after our meetings and as needed. This can be found listed under the Round Table section link.

RESPONSE TO QUESTIONS/INFORMATION REQUESTS

Date: 1/26/2020
Requester: Karen Mann
38. Question/Comment: Is there any chance we could have the maps which are being provided to SEC and Scoping meetings to actually name the waterways and show the location of Marinas?

> **Response:** The DCA includes labels for the names of the waterways on maps produced for SEC meetings unless the additional text in combination with other information on the map would be difficult to read. A map with marinas will be provided at a future SEC meeting.
> The maps for the scoping meetings are part of the CEQA process; please consider submitting this comment through DWR's CEQA scoping process.

Date: 1/22/2020
Requester: Michael Moran
39. Question/Comment: What possible impact will the project have on the Park District's several properties in the South-Central Delta that are under irrigation leases?

> **Response:** At this time the corridors shown in the NOP do not appear to include East Bay Regional Park District parks. The Central Corridor does include the land with the Contra Costa Water District intake along Old River; however, the future facilities would not be constructed in that parcel. If the irrigation leases are located on non-park lands, please indicate where those properties are located for further analyses.

Date: 1/22/2020
Requester: Anna Swenson
40. Question/Comment: Can members have access to the recent geotechnical data collected?

> **Response:** The geotechnical data currently being evaluated consist of project-specific data collected over the past years by DWR, supplemented by historic data from other agencies. The project data has been compiled and issued as part of the administrative record for prior environmental permitting for the California Waterfix project. The majority of the supplemental agency data are publicly available through Caltrans and the California State Water Resources Control Board. Water well data compiled by DWR is confidential and therefore cannot be shared. There are other limited data provided by specific agencies that are also subject to confidentiality requirements and therefore cannot be shared.

RESPONSE TO QUESTIONS/INFORMATION REQUESTS

Date: 1/22/2020
Requester: Anna Swenson
41. Question/Comment: Can we have the GPS coordinates of the three favorable intake sites?

Response: The approximate GPS coordinates for the intakes described at the January 22, 2020 SEC meeting are provided below. As discussed in the January 22, 2020 SEC meeting, the intake sites are preliminary and sites may shift in location. These coordinates are for informational purposes only and are at the approximate center of the intake sites.

Intake	Latitude	Longitude
Intake 2	38.406611	-121.51307
Intake 3	38.380871	-121.518795
Intake 5	38.349012	-121.532294

Date: 1/22/2020
Requester: Jim Wallace
42. Question/Comment: Is there a possibility the geotechnical reports DWR is currently conducting could change where the intakes are located?

Response: It is possible that geotechnical conditions may result in minor adjustments to facility locations within currently identified intake sites; however, major changes are not anticipated at this time.

Date: 1/22/2020
Requester: Barbara Barrigan-Parrilla
43. Question/Comment: How will the new levee effect the other Delta levees?

Response: The modified levees at the intake locations would be limited to a short lengths on either side of the intake, and would be designed to the most-current U.S. Army Corps of Engineers (USACE) standards. The modified levees would be designed based upon numerical evaluations of hydraulic and geotechnical effects on other levees upstream and downstream of the new intake, including the levees across the river from the intake. Per the USACE permit requirements under Clean Water Act, Section 408, the modified levees would be designed to not injure the function of the flood control project levees.

RESPONSE TO QUESTIONS/INFORMATION REQUESTS

Date: 1/22/2020
Requester: Barbara Barrigan-Parrilla
44. Question/Comment: What are the calculations on the volume of sediment for these flows and for high water events?

> **Response:** Sediment removal quantity calculations at the intakes would be dependent on total diversion amounts which will be developed as DWR completes operational modeling for the EIR. Therefore, total annual amounts of sediment that could be removed at the intakes are unknown at this time. Based upon previous studies for intakes in this portion of the Sacramento River, sediment quantities removed at the intakes could range up to 10,000 cubic yards in a month with peak diversion flows.

Date: 1/22/2020
Requester: Cecille Giacoma
45. Question/Comment: Can you provide the truck trip estimates for operational traffic for hauling away sediment?

> **Response:** The estimated amount of sediment to be removed at the intakes will be calculated following the completion of the EIR operational modeling. When the sediment volumes are calculated, the number and frequency of trucks needed to haul sediment during operations will be calculated.

Date: 1/22/2020
Requester: Jim Wallace
46. Question/Comment: Will the sediment basin be lined, and if not, will the basins be in groundwater from 4 or 5 feet below existing ground level and below? Does DCA expect the slurry walls to keep them out of the groundwater?

> **Response:** The bottom of the sedimentation basins at the intakes would be located below the groundwater elevation. As described at the January 22, 2020 SEC meeting, the intakes, including the sediment basins, would be surrounded by a slurry wall. Slurry walls would serve to isolate the sediment basin volume from the surface water and groundwater to minimize the potential for seepage either into or out of the sedimentation basin. Based upon the geological information available for the intake locations, it appears that there are adequate clay lenses below the bottom of the sedimentation basin to isolate the intakes from surrounding groundwater. Therefore, it is currently not anticipated that the basins would require lining except for placement of riprap along the sides. Additional geotechnical investigations would be completed prior to design. The determination to provide linings for the basin would be based upon the additional geotechnical investigations.

RESPONSE TO QUESTIONS/INFORMATION REQUESTS

Date: 1/22/2020
Requester: Jim Wallace
47. Question/Comment: How will this facility be kept operational once it is constructed considering the amount of dewatering that needs to occur?

Response: After construction, the water level in the facility would be higher than the surrounding groundwater. Also, the site would be surrounded by a slurry cutoff wall. Based upon existing geotechnical information, it is anticipated that the slurry walls would be extended to clay lenses to essentially isolate the site from surrounding surface water and groundwater. Dewatering would be expected to be a more significant issue during the early construction phases than during the operation phases. The DCA is currently evaluating the estimated dewatering needs to maintain groundwater levels suitable for construction. The DCA is also currently evaluating estimates for operational dewatering needs, which will be limited to periodically dewatering the basins for infrequent maintenance. At this time, only limited geotechnical data is available near the intake sites. Additional geotechnical investigations would be completed prior to design. Final determinations for protecting the sites from seepage into or out of the site and to quantify the dewatering needs would be revised following the geotechnical investigations.

Date: 1/22/2020
Requester: Michael Moran
48. Question/Comment: Is there any correlation with outside bends and in-migration and out-migration of fish?

Response: See Attachment A.

Date: 1/22/2020
Requester: Barbara Barrigan-Parrilla
49. Question/Comment: Can SEC members get answers to questions about the river bends even if it comes from fish biologists, since there is a difference of opinion within the fish biology community?

Response: Consistent with the attached response to Comment 14, DWR intends to consider and document analyses and other relevant biological information supporting the assessment of siting, constructing, and operating intake facilities on the Sacramento River in the EIR. Input from fish biologists, as well as other relevant experts, and evaluation of alternatives using best available science, will be a key component of the environmental planning process going forward.

RESPONSE TO QUESTIONS/INFORMATION REQUESTS

Date: 1/22/2020
Requester: Barbara Barrigan-Parrilla
50. Question/Comment: Will the impact analysis of the fish screen brushing on the food web be performed to a microscopic level?

> **Response:** DWR plans to assess changes to primary and secondary productivity resulting from new operations as part of the analysis in the EIR. Operations and maintenance of the fish screens would be intended to minimize the buildup of biological material on the screen itself. If additional needs or details, with regard to finer-scale food web changes associated with the project, are identified through the scoping process or the effects analysis, those will be considered as well. This comment is related to the scope of DWR's EIR; please consider submitting this comment through DWR's CEQA scoping process.

Date: 1/22/2020
Requester: Michael Moran
51. Question/Comment: Is there any consideration given to any type of unexpected wildlife that gets stuck in the sedimentation basin, such as monitoring of eggs?

> **Response:** The DCA intake analyses to date have focused on development of the fish screen configuration. Operational issues, including those related to wildlife management and protection, would be evaluated as part of the EIR. This comment is related to the scope of DWR's EIR; please consider submitting this comment through DWR's CEQA scoping process.

Date: 1/22/2020
Requester: Douglas Hsai
52. Question/Comment: How will this facility be ensured to not kill Delta smelt, as has been reported to be happening at Clifton Forebay?

> **Response:** The proposed intakes will include fish screens specifically designed to exclude Delta smelt from entering the system prior to diversion using state-of-the-art fish screening meeting all regulatory requirements for Delta smelt as developed by U.S. Fish and Wildlife Service and California Department of Fish and Wildlife. Clifton Court Forebay is configured in a manner that fish screens cannot be installed at the existing inflow location to Clifton Court Forebay.

RESPONSE TO QUESTIONS/INFORMATION REQUESTS

Date: 1/22/2020
Requester: Sean Wirth
53. Question/Comment: Is it possible to incorporate a riparian zone into the design of an intake facility, and would that be easier with the cylindrical tee screen or vertical flat plate type?

> **Response:** It could be possible to provide some type of vegetation at portions of the intake locations following construction. Riparian habitat disturbed upstream and downstream of the intake during construction could be replaced in accordance with USACE and DWR criteria. Other areas on the intake site could also be considered for habitat plantings. Upland habitat could be considered between the intake structure and the highway at the same elevation as the top of the levee. Irrigation could be provided to help facilitate the diversity of plants. These concepts would be independent of the type of intake screens.

Date: 1/22/2020
Requester: Cecille Giacoma
54. Question/Comment: What is the fish screen noise in decibels?

> **Response:** Specific decibel levels are not known for the screen cleaner mechanism. DCA anticipates further studies and analysis by acousticians.

Date: 1/26/2020
Requester: Karen Mann
55. Question/Comment: It was mentioned that there would be new barge routing and landing "overlay maps". Do you know if they are available yet for either the proposed eastern route or the westerly (original route)?

> **Response:** The DCA is developing maps that indicate areas along the Delta waterways that could be used by different size barges, areas that may not support barge traffic, and the relative potential for waterways to support construction and operation of barge landings to serve potential construction sites within the NOP corridors (which included the Central and Eastern Corridors). The information will be used by DCA to determine the accessibility of potential tunnel launch shaft sites, as presented in the February 12, 2020 SEC meeting presentation.

Date: 1/22/2020
Requester: Karen Mann
56. Question/Comment: Would the barge mapping change depending on which corridor is ultimately selected?

> **Response:** The DCA is developing maps that indicate areas along the Delta waterways that could be used by different size barges, areas that may not support barge traffic, and the relative potential for waterways to support construction and operation of barge landings to serve potential construction sites within the NOP corridors. The information will be used by DCA to determine the accessibility of potential tunnel launch shaft sites, as presented in the February 12, 2020 SEC meeting presentation.

RESPONSE TO QUESTIONS/INFORMATION REQUESTS

Date: 1/22/2020
Requester: Barbara Barrigan-Parrilla
57. Question/Comment: Can you provide an effects comparison chart for SEC members to compare the effects between rail, barges and roads? The chart should include effects on water quality, boating, truck trips, etc.

> **Response:** The DCA is developing comparisons of many factors to identify locations of tunnel shafts, intakes, and forebays. There are numerous factors considered in these comparisons, including availability of road, rail, and barge access to construction locations. Examples of these comparisons will be discussed at the February 12, 2020 SEC meeting and subsequent SEC meetings.
> However, the environmental impact analysis for Delta Conveyance, including determination of effects on water quality, boating, traffic, recreation, and other environmental resources will be completed as part of the EIR by DWR. This comment is related to the scope of DWR's EIR; please consider submitting this comment through DWR's CEQA scoping process.

Date: 1/22/2020
Requester: Michael Moran
58. Question/Comment: Are there yet any proposed locations for tunnel shafts?

> **Response:** Proposed shaft locations will be developed by the DCA and presented to DWR for final selection of alternatives to be evaluated in detail in the EIR. The initial basis of the DCA launch shaft siting analysis will be presented to the SEC during the February 12, 2020 presentation. During the February 26, 2020 SEC meeting, the DCA will ask the SEC for feedback to help finalize the proposed launch site locations.

Date: 1/22/2020
Requester: Barbara Barrigan-Parrilla
59. Question/Comment: Will there be discussion about the flow capacity used and will it be pressurized or not pressurized?

> **Response:** The NOP described the project with a capacity of 6,000 cubic feet per second (cfs) with a possible range in capacities of 3,000 to 7,500 cfs. At this time, the DCA is considering tunnel sizing design criteria for gravity flow from the intakes to the pumping plant near the Southern Forebay. The DCA is not considering design criteria for pressurized flow in the tunnel.

RESPONSE TO QUESTIONS/INFORMATION REQUESTS

Date: 1/22/2020
Requester: Barbara Barrigan
60. Question/Comment: Will there be real-time disclosure with water quality issues found during construction?

Response: The State Water Resources Control Board or Central Valley Regional Water Quality Control Board will issue a Stormwater Pollution Prevention Plan (SWPPP) permit to regulate water quality of stormwater and non-stormwater runoff from the construction sites. It is also possible that these regulatory agencies would issue a National Pollution Discharge Elimination System permit to regulate non-stormwater runoff from the construction sites. These permits would include monitoring and reporting requirements, such as the collecting and analyzing water samples of runoff from the construction site and in the receiving water body. The results of these analyses would be submitted to the regulatory agencies and could be posted to a publicly-available website.

Date: 1/22/2020
Requester: Barbara Barrigan-Parrilla
61. Question/Comment: Why aren't there more meetings in Antioch and Rio Vista? Concern that the scoping meetings are not broad enough for the project.

Response: Locations, frequency, and times of scoping meetings are determined by DWR as part of preparation of the Environmental Impact Report (EIR) under the California Environmental Quality Act (CEQA) process. DWR informed us that four scoping meeting locations are in the Delta to provide multiple options for Delta residents, and that the venues were driven largely by space availability and size. DWR has indicated to us that the DWR staff would be available to attend additional meetings hosted by community groups to share information about the EIR Notice of Preparation (NOP) and to facilitate the submittal of scoping comments. DWR has assigned several staff to Delta Conveyance Project outreach, including staff that are actively reaching out to Disadvantaged / Environmental Justice Communities to schedule these types of meetings in locations convenient to the local groups. Anyone interested in more information about the EIR and associated scoping outreach, including for Disadvantaged / Environmental Justice communities, is encouraged to email the department at DeltaConveyance@water.ca.gov or contact their consultant, AG Innovations, at shelly@aginnovations.org; 707-823-6111 x 290. Please consider submitting this comment through DWR's CEQA scoping process.

Date: 1/22/2020
Requester: Jesus Tarango
62. Question/Comment: Can additional scoping meetings for Northern, Central and Southern tribes be held?

Response: DWR identified scoping meetings as part of the environmental compliance effort. Based on feedback during initial scoping meetings, DWR is adding a scoping meeting in Redding. DWR is also planning to consult with interested tribes under Assembly Bill 52 and DWR's Tribal Engagement Policy.

RESPONSE TO QUESTIONS/INFORMATION REQUESTS

Date: 1/22/2020
Requester: Douglas Hsai
63. Question/Comment: Is the corridor that was proposed through the Deepwater Channel with an intake near Rio Vista still a possibility?

> **Response:** DWR did not identify the corridor through the Deep Water Ship Channel as part of the proposed project in the NOP. However, this approach may be considered as an alternative. These types of alternative concepts should be submitted to DWR through the scoping process for consideration during the alternatives formulation process.

Date: 1/22/2020
Requester: Malissa Tayaba
64. Question/Comment: Why all of this for one region?

> **Response:** With these new proposed intake locations, the State Water Project would have greater flexibility to adapt to climate change, manage rising sea levels, function in the event of a natural disaster, and safely move water during high flow events. This project could deliver water to a broad geographic area to State Water Project Contractors and, potentially, Central Valley Project contractors.

Date: 1/22/2020
Requester: Mike Hardesty
65. Question/Comment: Will there be some information provided to the committee regarding hydraulic impacts such as water surface elevations and velocity?

> **Response:** DWR will perform hydraulic and hydrodynamic modeling for the proposed project and alternatives as part of the CEQA analysis. Modeling will be used to estimate changes in velocity and elevation in the waterways at intake locations and other locations in the Delta under different hydrologic conditions. This information will be presented as part of the CEQA process. DWR is planning a separate public outreach process related to CEQA to discuss this and other issues addressed by the EIR.

RESPONSE TO QUESTIONS/INFORMATION REQUESTS

Date: 1/25/2020
Requester: David Gloski
66. Question/Comment: Asking for initial modeling results around intakes per a prior email. Drought in wet years, various tides including the slack tides, min and max take flows. Points of interest include the flows at the downstream end of the intake, and even of there is a stronger take on the upstream end of the intake leading to what is necessary or optimum size along the river.

Response: DWR is modeling the proposed project and alternatives as part of the CEQA environmental analysis. DWR will identify operations criteria so that bypass flows (flows that remain in the Sacramento River immediately downstream of the new intakes) are sufficient to minimize impacts, including conditions that occur on the incoming (or upstream) tides in the river system. DWR is planning a separate public outreach process related to CEQA to discuss this and other issues addressed by the EIR. This comment is related to the scope of DWR's EIR; please consider submitting this comment through DWR's CEQA scoping process.

Date: 1/22/2020
Requester: Malissa Tayaba
67. Question/Comment: Why were Southern California reservoirs full when Northern California reservoirs were empty during the last drought?

Response: See Attachment B.

Date: 1/22/2020
Requester: Malissa Tayaba
68. Question/Comment: How much water is being pulled out and from where?

Response: In the Notice of Preparation, DWR identified that the proposed project could divert up to 6,000 cfs with two intake facilities. These intake facilities are indicated on the NOP map along the Sacramento river between Freeport and the confluence with Sutter Slough. DWR would not be seeking new water rights for these diversions, but would apply to the State Water Resources Control Board change in the point of diversion for its existing water right.

Date: 1/22/2020
Requester: Malissa Tayaba
69. Question/Comment: Concerns include water quality, water levels rising and falling and how that will affect fish and plants?

Response: DWR will assess potential impacts to fish and wildlife (including plants) and associated habitat during future environmental compliance activities, including the CEQA environmental review process. This includes potential changes in water quality conditions, as well as potential changes in surface water elevations and associated effects. This comment is related to the scope of DWR's EIR; please consider submitting this comment through DWR's CEQA scoping process.

RESPONSE TO QUESTIONS/INFORMATION REQUESTS

Date: 1/22/2020
Requester: James Cox
70. Question/Comment: Will the pile driving vibration effects on the fisheries be studied?

Response: DWR will assess potential impacts to fish species as a result of pile driving vibration during future environmental compliance activities, including the CEQA environmental review process. In addition, it is expected future studies will be developed to gather more information on pile driving activities and associated effects, including potential alternative pile driving methods to reduce impacts to fish species. This comment is related to the scope of DWR's EIR; please consider submitting this comment through DWR's CEQA scoping process.

Date: 1/22/2020
Requester: Michael Moran
71. Question/Comment: What effect will restoration plans and mitigation plans have on state parks?

Response: The environmental impact analysis for Delta Conveyance has not yet started. Mitigation plans have not been developed for the Project and restoration locations have not been identified. Preliminary mitigation and restoration information will be developed during the CEQA environmental analysis process. The environmental analysis is intended to identify potential impacts and, where feasible, potential mitigation for those impacts. DWR will assess potential impacts to State Parks through the CEQA environmental analysis process. This comment is related to the scope of DWR's EIR; please consider submitting this comment through DWR's CEQA scoping process.

Date: 1/22/2020
Requester: Michael Moran
72. Question/Comment: What is the process in place for any undocumented cultural sites that might be discovered during construction?

Response: DWR routinely includes a set of best management practices in construction contracts to address the potential for unanticipated discovery of archaeological materials. The environmental analysis will discuss the potential for impacts and will define mitigation measures aimed at reducing the potential for cultural resources to be disturbed or destroyed. This includes a measure that addresses the potential for “unanticipated discoveries” during construction, including specific requirements for tribal consultation, pre-construction awareness training, and requirements for stopping work in the vicinity of such discoveries until such time that a professional archaeologist is able to assess the discovery and work with DWR, in coordination with the appropriate regulatory and/or tribal authorities, to develop a plan for appropriate treatment. This comment is related to the scope of DWR's EIR; please consider submitting this comment through DWR's CEQA scoping process.

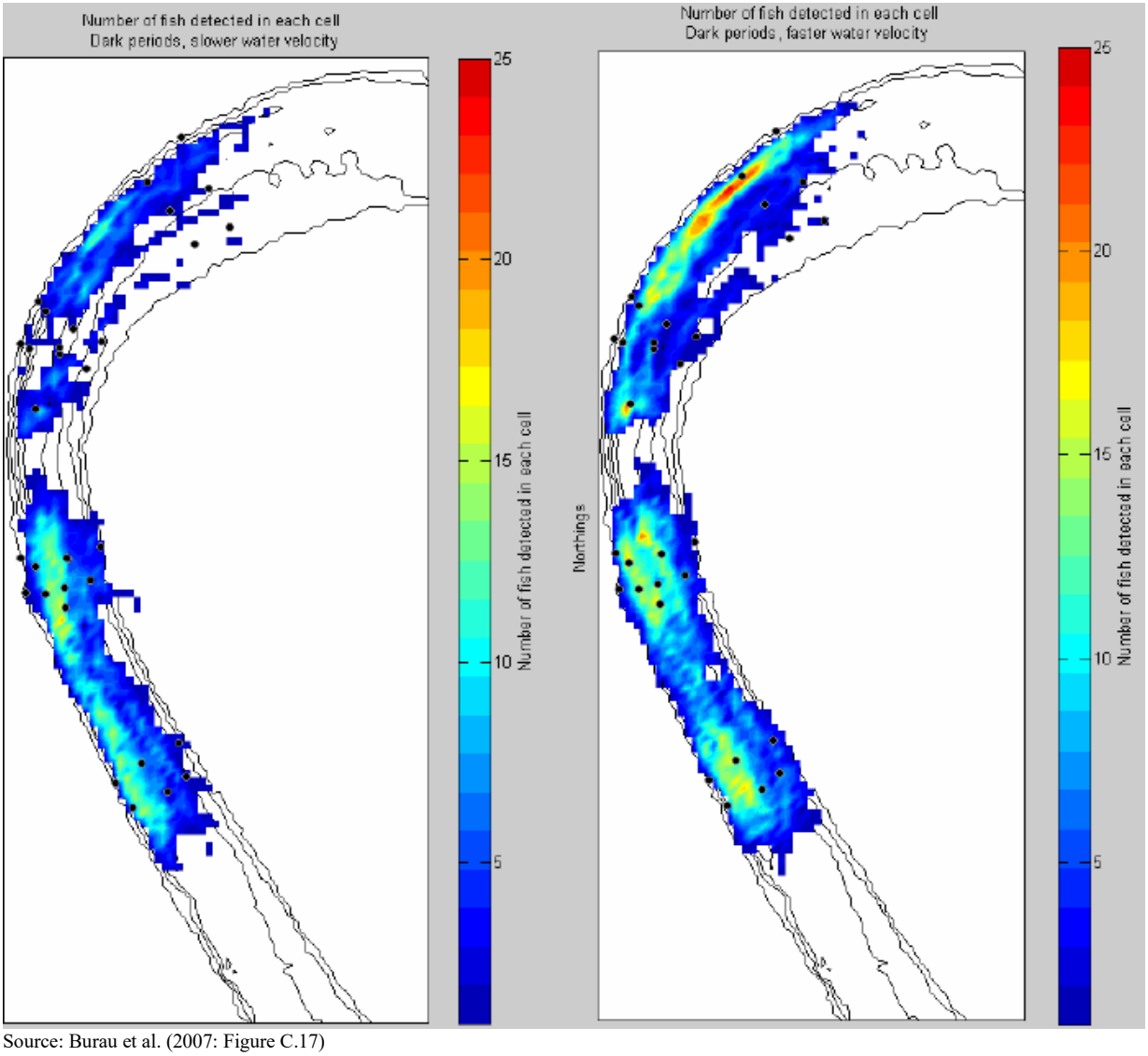
RESPONSE TO QUESTIONS/INFORMATION REQUESTS

Date: 1/22/2020
Requester: Malissa Tayaba
73. Question/Comment: Do people in Southern California know that is impacting villages in Northern California?

Response: DWR has initiated environmental analysis for Delta Conveyance through issuance of the NOP. The environmental analysis is intended to identify potential impacts and, where feasible, potential mitigation for significant impacts. DWR will notify interested parties, including the public, throughout the State, including areas in southern California, as a part of the CEQA environmental review process. This comment is related to the scope of DWR's EIR; please consider submitting this comment through DWR's CEQA scoping process.

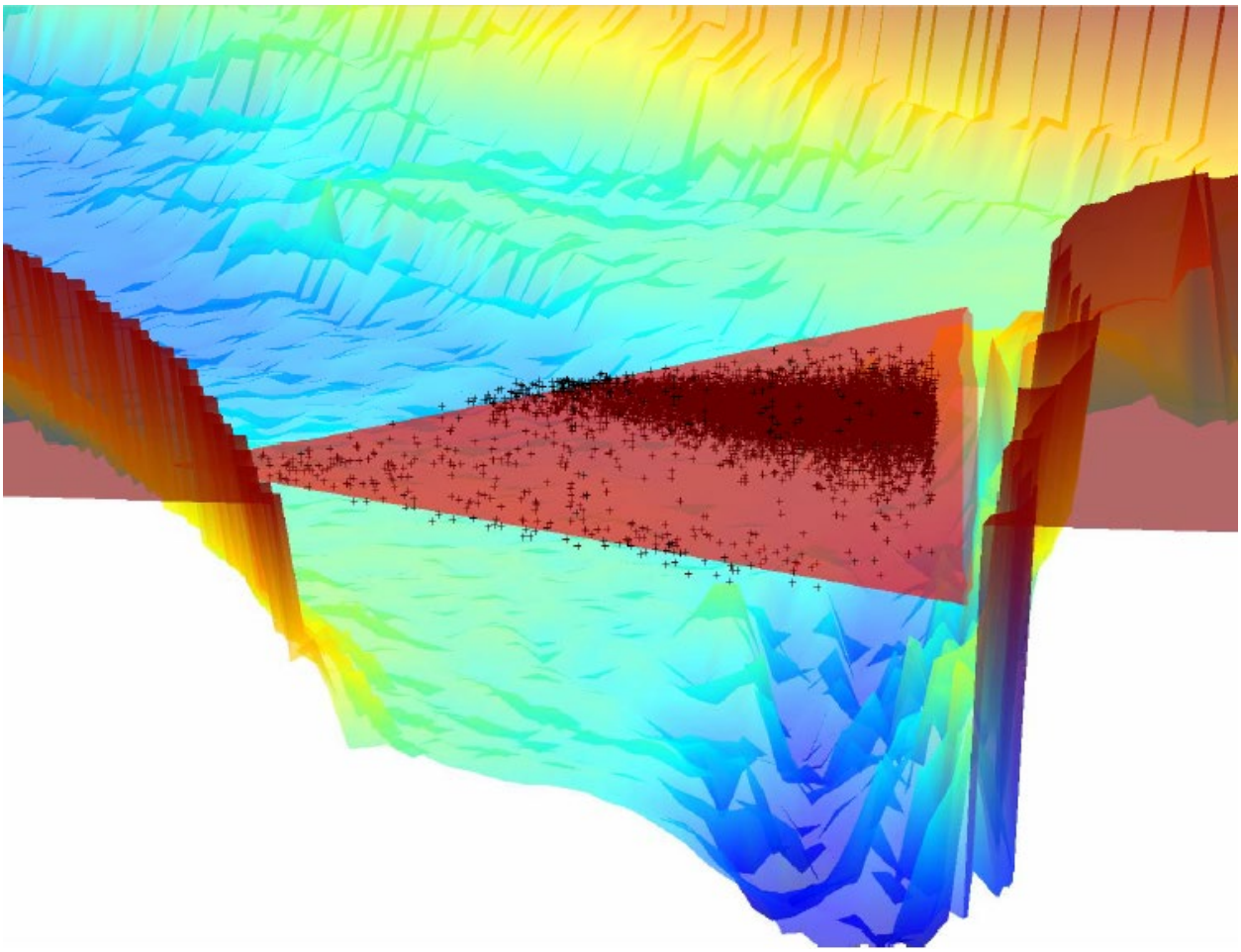
Date: 1/22/2020
Requester: Michael Moran
48. Question/Comment: Is there any correlation with outside bends and in-migration and out-migration of fish?

Response: Several studies on the Sacramento River provide evidence for the distribution of outmigrating fish (specifically juvenile salmonids) toward the outer sides of bends, including at Clarksburg Bend (Figure clark1), the Delta Cross Channel (Figure DCC1), and near Fremont Weir (Figure fremont1). The distribution of fish towards the outside of bends is the result of centrifugal and pressure forces in bends which induce a secondary flow that lies in a plane perpendicular to the primary flow direction (Dinehart and Burau 2005) and is reflected in the bathymetry of such areas: the deeper areas, including the thalweg, coincide with the areas subject to the secondary flow (Figure clark2). These observations agree with the general pattern of downstream-migrating juvenile salmonids in the Pacific northwest often being distributed near the thalweg, or near the shoreline (Smith et al. 2009). However, when holding (e.g., during the day), juvenile salmonids could also occur on the inside of river bends, as illustrated at Clarksburg Bend (Figure clark3).



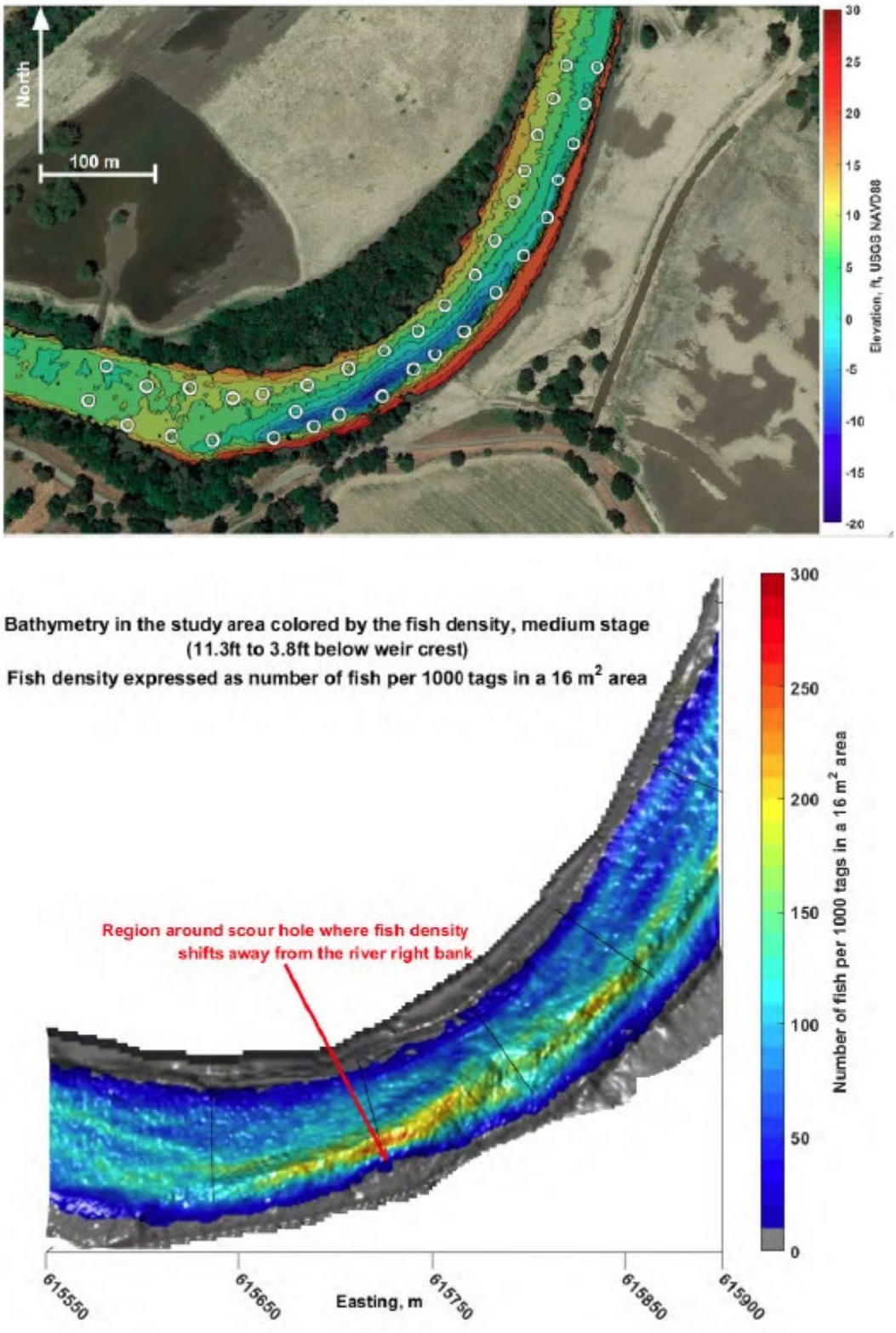
Source: Burau et al. (2007: Figure C.17)

Figure clark1. Clarksburg Bend Acoustic Tracking Study: Juvenile Chinook Salmon Distributions for Dark Periods, Separated into Fast (Greater than or Equal to Mean) and Slow (Less than Mean) Water Velocity Periods.



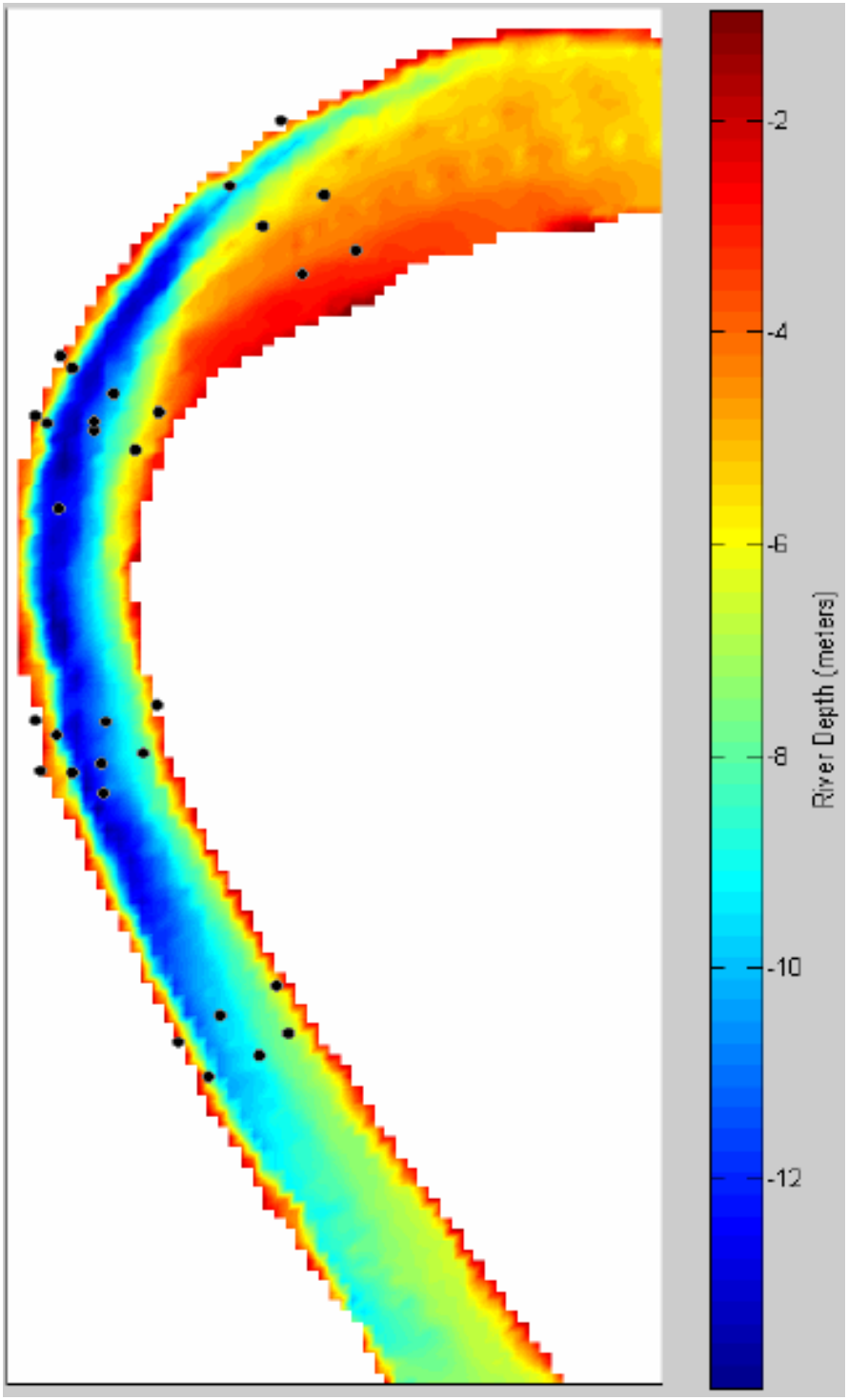
Source: Burau et al. (2007: Figure 2.5)

Figure DCC1. Delta Cross Channel Vicinity Hydroacoustic Study: Detections of Juvenile Salmon (+) on the Outside of a Bend in the Sacramento River Immediately Downstream of its Junction with Georgiana Slough (Upper Right).



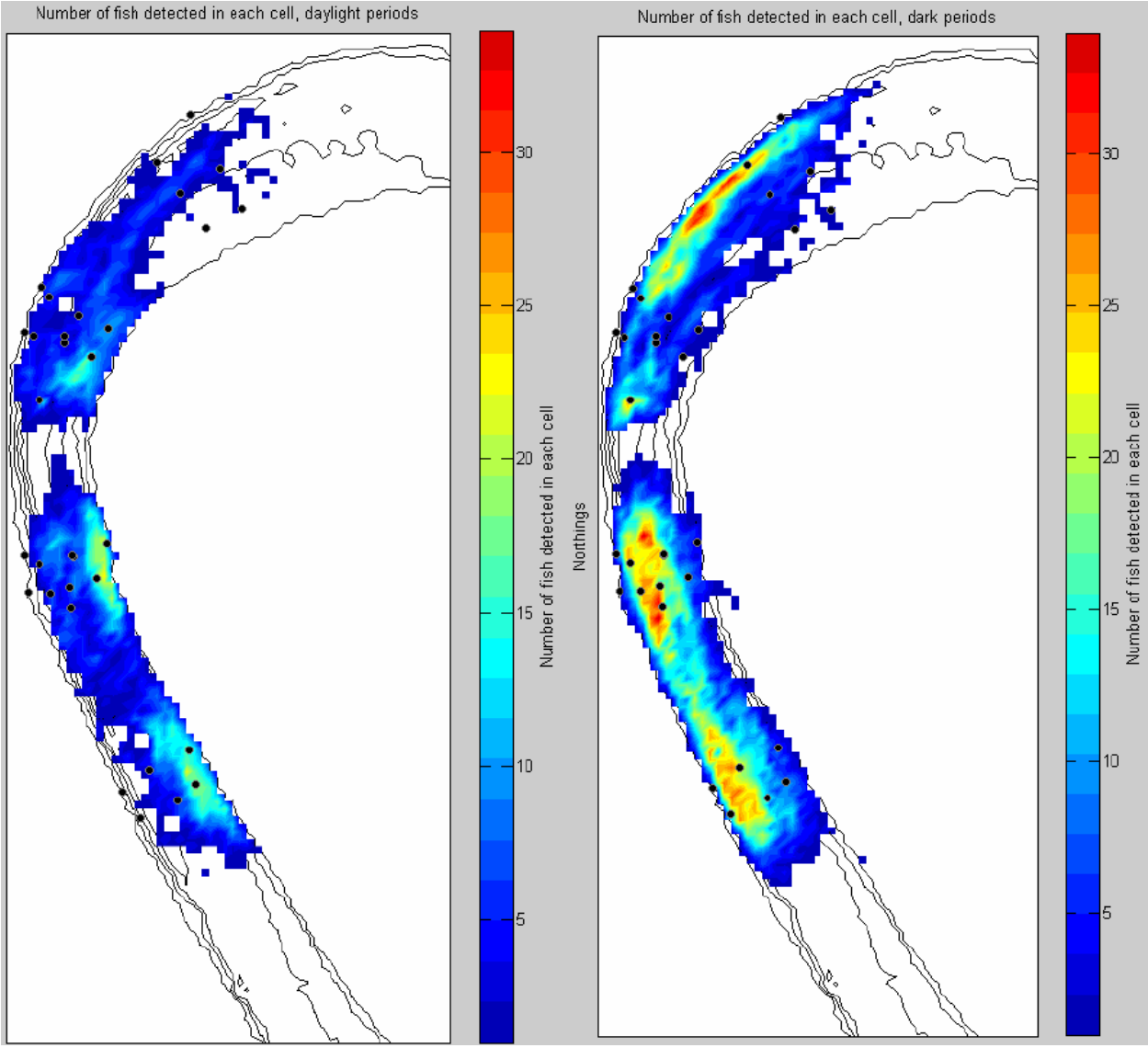
Source: Blake et al. (2017: Figures 2 and 20).

Figure fremont1. Bathymetry (Upper) and Juvenile Chinook Salmon Acoustic Detection Density (Lower) in the Sacramento River at Fremont Weir.



Source: Burau et al. (2007: Figure C.1)

Figure clark2. Clarksburg Bend Acoustic Tracking Study: Bathymetry and Hydrophone Locations.



Source: Burau et al. (2007: Figure C.15)

Figure clark3. Clarksburg Bend Acoustic Tracking Study: Juvenile Chinook Salmon Distributions for Daylight (Left) and Dark (Right) Periods.

With respect to in-migrating fish, Quinn (2005, p.80) reviewed available literature to suggest that salmon tend to adapt migration patterns to minimize energy expenditure by avoiding the fastest water and so generally swim near shore and near the bottom, based on literature from other systems. We are not aware of such patterns being confirmed in the Sacramento River system, but if correct, salmon could occur near the outside of bends in the river thalweg if this location provided an energetically efficient location relative to other parts of the river. For Delta Smelt, it is unknown if the species would occur at the outside of river bends during upstream migration; this may be dependent on the available velocity habitat in relation to the critical swimming velocity of up to approximately 28 cm/s (Swanson et al. 1998). Other factors such as predator avoidance and nocturnal loss of visual reference have also been hypothesized to influence potential distribution of in-migrating Delta Smelt in the river (USFWS 2017, p.318), although there are no empirical data with which to test these hypotheses.

References:

Blake, A., P. Stumpner, and J. Burau. 2017. A Simulation Method for Combining Hydrodynamic Data and Acoustic Tag Tracks to Predict the Entrainment of Juvenile Salmonids onto the Yolo Bypass Under Future Engineering Scenarios. July 21. West Sacramento, CA: U.S. Geological Survey.

Burau, J., A. Blake, and R. Perry. 2007. Sacramento/San Joaquin River Delta Regional Salmon Outmigration Study Plan: Developing Understanding for Management and Restoration. December 10.

Dinehart, R. L., and J. R. Burau. 2005. Averaged indicators of secondary flow in repeated acoustic Doppler current profiler crossings of bends. Water Resources Research 41(9):W09405.

Quinn, T. P. 2005. The Behavior and Ecology of Pacific Salmon and Trout. University of Washington Press, Seattle, WA.

Smith, D. L., J. M. Nestler, G. E. Johnson, and R. A. Goodwin. 2009. Species-Specific Spatial and Temporal Distribution Patterns of Emigrating Juvenile Salmonids in the Pacific Northwest. Reviews in Fisheries Science 18(1):40–64.

Swanson, C., P. S. Young, and J. Cech. 1998. Swimming performance of delta smelt: maximum performance, and behavioral and kinematic limitations on swimming at submaximal velocities. The Journal of Experimental Biology 201(3):333-345.

U.S. Fish and Wildlife Service (USFWS). 2017. Biological Opinion for the California WaterFix. Service File No. 08FBDT00-2016-F-0247. June 23. Sacramento, CA: U.S. Fish and Wildlife Service, San Francisco Bay-Delta Fish and Wildlife Office.

Date: 1/22/2020
Requester: Malissa Tayaba
67. Question/Comment: Why were Southern California reservoirs full when Northern California reservoirs were empty during the last drought?

Response: From 2012–2016 much or all of California was under severe drought conditions, with greatly diminished precipitation, snowpack, and streamflow and higher temperatures. This drought was broad and deep enough to stress all water management sectors in California. Figure 1 shows reservoir levels for major reservoirs across California at the beginning of 2014 & 2015 Water Years (Peak of the last drought). This figure includes reservoirs that are managed by the state, federal, and local entities. Reservoirs were at historically low levels for both Northern and Southern part of the state. Majority of these reservoir levels were well below 50% of the historical average.

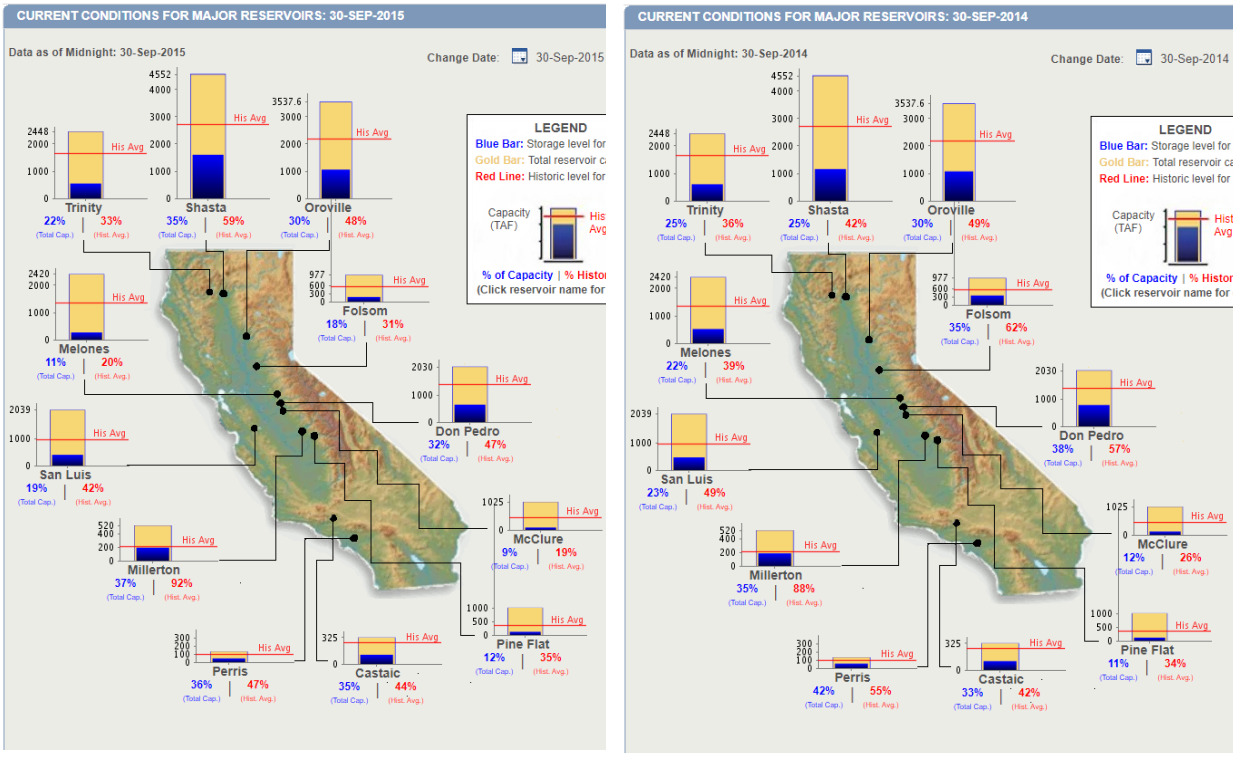


Figure 1: Major Reservoir Conditions during Peak of Drought (Source: California Data Exchange Center)

INFORMATION REQUESTS WITH FOLLOW-UP NEEDED

Date: 12/11/2019
Requester: Anna Swenson
12. Question/Comment: Incorrect data on Map 7, cropscape is historically wrong. Will this be corrected?

> **Response:** The data presented in the "Land Use Map" at the December 2019 Stakeholder Engagement Committee meeting was based on 2016 satellite data. The DCA has acquired 2018 crop type data from United States Department of Agriculture (USDA). The data is similar to the 2016 dataset. It is also noted by the DCA that this map is actually a "Vegetation Map" and not a "Land Use Map." Therefore, DCA is reviewing data sources for development of a Land Use Map to be presented in a February Stakeholder Engagement Committee meeting.
> **Responder:** Gwen Buccholz
> **Status:** Follow-Up Needed

Date: 12/11/2019
Requester: Various
13. Question/Comment: What constitutes a recreational facility in terms of representing sensitive receptors?

> **Response:** The map presented at the December Stakeholder Engagement Committee meeting was prepared with information collected in past studies. The recreational areas shown on that map included fishing marinas, parks, and wildlife viewing areas, that could be affected by noise, light, and air quality emissions. The database used for this map also included support facilities for the recreation areas, such as power poles. The database also did not include many recreational facilities included in studies prepared by Delta Stewardship Council, Delta Protection Commission, and others. Therefore, the recreational facilities will be added to an updated Sensitive Receptors map for a future Stakeholder Engagement Committee meeting.
> **Responder:** Gwen Buccholz
> **Status:** Follow-Up Needed

Date: 1/16/2020
Requester: Barbara Barrigan Parilla
15. Question/Comment: Would it be possible for the upcoming packet to get a map with the alignment for the tunnel that has the following: 1) Highways, railroads -- any major infrastructure that is easy to label. It needs a few more markers for users. 2) A legend for miles. 3) Names of the islands through which it passes and refuges -- public boat launches if time permits. That would be helpful. It will make discussions easier. Across the board, people in the community are frustrated that the NOP map is hard to read. We understand that it may be more conceptual; my request is for readability.

> **Response:** The DCA is currently developing and will provide at a future meeting once completed.
> **Responder:** Gwen Buccholz
> **Status:** Follow-Up Needed

FOR FUTURE DISCUSSION

Date: 12/11/2019
Requester: Anna Swenson
17. Question/Comment: How long the bridges have to be up and when for DCA construction barges

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Date: 12/11/2019
Requester: Anna Swenson
20. Question/Comment: Features that could end up being permanent

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Date: 12/11/2019
Requester: Anna Swenson
21. Question/Comment: Fuel stations aesthetics, whether they will be temporary or permanent, if they will be underground or above-ground tanks, their proximity to schools and people and what safety operations are going to be used to ensure against contamination

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Date: 12/11/2019
Requester: Anna Swenson
22. Question/Comment: Batch plants effects on air quality

Date: 12/11/2019
Requester: Anna Swenson
23. Question/Comment: Map that depicts an interaction with the bridges

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Date: 12/11/2019
Requester: Anna Swenson
25. Question/Comment: Barges: Size, docking areas, bridges impact, how many barge trips per day, how many docks for barges

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Date: 12/11/2019
Requester: Barbara Barrigan Parilla
26. Question/Comment: Toxicity from soil strengthening, potential spread and impact on sloughs

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Date: 12/11/2019
Requester: Barbara Barrigan Parilla
27. Question/Comment: Air quality around port of Stockton from increased barge and train traffic

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FOR FUTURE DISCUSSION

Date: 12/11/2019
Requester: David Gloski
28. Question/Comment: What are the anticipated waterway rules and process when DCA construction barges are on the waterways?

Date: 12/11/2019
Requester: General
29. Question/Comment: How the testing, drying, run-off and on-site management of reusable tunnel material will work

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Date: 12/11/2019
Requester: Gilbert Cosio
32. Question/Comment: Specific discussions about the barge loading locations

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Date: 12/11/2019
Requester: Karen Mann
34. Question/Comment: How barges used by DCA during construction would affect the recreational activities in the waterways

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Date: 12/11/2019
Requester: Karen Mann
35. Question/Comment: Waterways safety and usage during construction barging

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