
From: Williams, Nicole [Nicole.Williams@icf.com]
Sent: 2/1/2022 8:48:02 AM
To: Fisher, Linda [Linda.Fisher@hdrinc.com]; Laurie Warner Herson [laurie.warner.herson@phenixenv.com]; Alicia Forsythe [aforsythe@sitesproject.org]; Briard, Monique [Monique.Briard@icf.com]
Subject: RE: Sites Reservoir Final EIR/EIS - Authority/Reclamation Approach to Late Letters

Hi Linda – thanks much. We'll treat them as "on time" and process, code, and respond accordingly. We'll certainly keep an eye out for any other letters that may seem late and/or are late. Cheers, Nicole

NICOLE L. WILLIAMS
Senior Environmental Planner
ICF
o 916.231.9614
icf.com

From: Fisher, Linda <Linda.Fisher@hdrinc.com>
Sent: Tuesday, February 1, 2022 8:46 AM
To: Laurie Warner Herson <laurie.warner.herson@phenixenv.com>; Alicia Forsythe <aforsythe@sitesproject.org>; Williams, Nicole <Nicole.Williams@icf.com>; Briard, Monique <Monique.Briard@icf.com>
Subject: RE: Sites Reservoir Final EIR/EIS - Authority/Reclamation Approach to Late Letters

It appears that all of these in fact came in to the eir-eis-comments@sitesproject.org inbox on Friday, Jan. 28th.

1. Letter from Ronda Lucas, Esq. on behalf of the Maxwell Unified School District (2 emails 1/28 at 4:25pm and 4:38pm)
2. Letter from Wendy Chriss Contra Costa Water District (1/28 at 4:36pm)
3. Letter from Regina Chichizola transmitting the 45,000 signatures on the petition sponsored by Save California (1/28 at 4:55pm)
4. Letter from Bruce Campbell (1/28 at 4:59pm)

Thank you, Linda

Linda Fisher, M.S.
D 916.817.4962 M 530.400.3212

hdrinc.com/follow-us

From: Laurie Warner Herson <laurie.warner.herson@phenixenv.com>
Sent: Monday, January 31, 2022 9:43 AM
To: Alicia Forsythe <aforsythe@sitesproject.org>
Cc: Fisher, Linda <linda.fisher@hdrinc.com>
Subject: FW: Sites Reservoir Final EIR/EIS - Authority/Reclamation Approach to Late Letters

CAUTION: [EXTERNAL] This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

FYI - I will add this to the agenda for today's meeting.

From: Williams, Nicole <Nicole.Williams@icf.com>
Sent: Monday, January 31, 2022 9:31 AM
To: Laurie Warner Herson <laurie.warner.herson@phenixenv.com>

Cc: Davis, Susan <susan.davis@icf.com>

Subject: Sites Reservoir Final EIR/EIS - Authority/Reclamation Approach to Late Letters

Morning Laurie,

I want to double check on “late letters” and the Authority/Reclamation’s preferred approach as I don’t know if you discussed this potential situation internally at the Authority or with Reclamation.

We have a few late letters date stamped 1/29:

1. Letter from Ronda Lucas, Esq. on behalf of the Maxwell Unified School District
2. Letter from Contra Costa Water District
3. Letter transmitting the 45,000 signatures on the petition sponsored by Save California
4. Letter from Bruce Campbell (Individual)

Please confirm the Authority/Reclamation wants the late letters processed, which would include recording the date received (thus we can easily tell they were late) in the database.

Please consider if the Authority/Reclamation wants these late letters coded with action codes and responses potentially drafted. We have plenty to do, so the decision doesn’t need to be made right away. Alternatively, the approach to late letters could be a topic for the standing meeting with ICF/the Authority this afternoon.

Cheers, Nicole

NICOLE L. WILLIAMS | Senior Environmental Planner | (o) 916.231.9614 | (m) 530.867.0470 | nicole.williams@icf.com | icf.com
ICF | 980 9th Street Suite 1200 Sacramento CA 95814 |

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Subject: RE: Sites Reservoir Final EIR/EIS - Authority/Reclamation Approach to Late Letters

Great – thank you! By the way, when I checked yesterday the emails dated 1/31 were copies that had been forwarded, including the non-encrypted version of the OEHHA comments.

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Introduced by Senators Nielsen and BorgeasJanuary 31, 2022

An act to add and repeal Section 140.5 of the Water Code, relating to water, and declaring the urgency thereof, to take effect immediately.

LEGISLATIVE COUNSEL'S DIGEST

SB 890, as introduced, Nielsen. Department of Water Resources: Water Storage and Conveyance Fund: water storage and conveyance.

Under existing law, the United States Bureau of Reclamation operates the federal Central Valley Project and the Department of Water Resources operates the State Water Project to supply water to persons and entities in the state. Existing law requires the Friant-Kern Canal to be of such capacity as the department determines necessary to furnish an adequate supply of water for beneficial purposes in the area to be served by the canal.

This bill would establish the Water Storage and Conveyance Fund in the State Treasury to be administered by the department. The bill would require all moneys deposited in the fund to be expended, upon appropriation by the Legislature, in support of subsidence repair and reservoir storage costs, including environmental planning, permitting, design, and construction and all necessary road and bridge upgrades required to accommodate capacity improvements. The bill would require the department to expend from the fund, upon appropriation by the Legislature, specified monetary amounts to complete funding for the construction of the Sites Reservoir, and to restore the capacity of 4 specified water conveyance systems, as prescribed, with 2 of those 4 expenditures being in the form of a grant to the Friant Water Authority and to the San Luis and Delta-Mendota Water Authority. This bill would

make these provisions inoperative on July 1, 2030, and would repeal it as of January 1, 2031.

This bill would declare that it is to take effect immediately as an urgency statute.

Vote: $\frac{2}{3}$. Appropriation: no. Fiscal committee: yes.

State-mandated local program: no.

The people of the State of California do enact as follows:

1 SECTION 1. The Legislature finds and declares all of the
2 following:

3 (a) The Friant-Kern Canal, the Delta-Mendota Canal, the San
4 Luis Canal, and the California Aqueduct are the state's main state
5 and regional water conveyance infrastructure that delivers water
6 for agricultural, municipal, and industrial use, refuge water
7 supplies, and groundwater recharge in the San Joaquin Valley and
8 in southern California.

9 (b) This water is delivered through a series of regional canals
10 and aqueducts that traverse through the San Joaquin Valley and
11 continue to southern California for delivery.

12 (c) At least 5,000,000 people in the state, including
13 approximately 1,250,000 people living in disadvantaged
14 communities, receive water from the Friant-Kern Canal, the
15 Delta-Mendota Canal, and the San Luis Canal.

16 (d) The State Water Project provides approximately three-fourths
17 of California's disadvantaged communities with some or all of
18 their water supplies.

19 (e) Over 750,000 acres of farmland receive water from the State
20 Water Project and nearly 2,500,000 acres of productive cropland
21 are served water through the Friant-Kern Canal, the Delta-Mendota
22 Canal, and the San Luis Canal.

23 (f) An increase in groundwater pumping caused by a failure of
24 the state and federal governments to provide a reliable supply of
25 surface water has caused significant land subsidence that has
26 affected the ability of regional water conveyance infrastructure to
27 convey water. In some areas, the water conveyance has
28 infrastructure dropped in elevation an average of one inch per
29 month since 2014.

30 (g) It is of paramount importance that the primary state and
31 regional water conveyance infrastructure in the state be protected

1 from subsidence, and that conveyance be restored whenever
2 economically, environmentally, and technically feasible.

3 (h) The total cost to repair the Friant-Kern Canal, the
4 Delta-Mendota Canal, and the San Luis Canal regional water
5 conveyance structures is approximately \$2,300,000,000 over 10
6 years.

7 (i) In addition, with the potential for a changing climate that
8 could significantly reduce snowpack and produce flashier storms
9 that feature more atmospheric rivers of precipitation in the form
10 of rainfall, California must prioritize storing water in the wet years
11 for use in the drier years.

12 (j) In 2014, the voters approved Proposition 1, a state bond act
13 that provided the sum of \$2,700,000,000 for water storage. The
14 California Water Commission has allocated the entire sum of
15 \$2,700,000,000. To date, not one of the projects specified in this
16 bill are complete.

17 (k) Sites Reservoir is an off-stream storage facility envisioned
18 for nearly 40 years. It can store over 1,000,000 acre-feet of water
19 north of the Bay Delta. As a result, Sites Reservoir is the only
20 proposed storage facility in California that would help with the
21 statewide operational effectiveness of the State Water Project and
22 the Central Valley Project. If fully funded and constructed, it will
23 play a significant role in the amount of water available statewide
24 for farms, cities, and the environment throughout the state.

25 (l) Restoring water conveyance and increasing storage capacity
26 is a necessary step to improving water resilience and to protect
27 critical regional water infrastructure from the impacts of drought
28 and climate change, which will improve the accessibility of safe
29 and reliable drinking water and other beneficial uses of water.

30 SEC. 2. Section 140.5 is added to the Water Code, to read:

31 140.5. (a) The Water Storage and Conveyance Fund is hereby
32 established in the State Treasury to help expand and restore water
33 conveyance and storage capacity throughout California. The
34 department shall administer the fund.

35 (b) Until July 1, 2030, all moneys deposited in the fund shall
36 be expended, upon appropriation by the Legislature, for projects
37 that support subsidence repair and reservoir storage costs, including
38 environmental planning, permitting, design, and construction and
39 necessary road and bridge upgrades required to accommodate
40 capacity improvements.

1 (c) Moneys expended from the fund for each individual project
2 specified in subdivision (d) shall not exceed one-third of the total
3 cost of each individual project. The total amount expended from
4 the fund for all of the projects specified in subdivision (d) shall
5 not exceed three billion one hundred eighty-five million dollars
6 (\$3,185,000,000).

7 (d) The department shall expend from the fund, upon
8 appropriation by the Legislature, all of the following, consistent
9 with subdivision (b):

10 (1) Up to the sum of two hundred thirty million dollars
11 (\$230,000,000) for a grant to the Friant Water Authority to restore
12 the capacity of the Friant-Kern Canal.

13 (2) Up to the sum of one hundred forty million dollars
14 (\$140,000,000) for a grant to the San Luis and Delta-Mendota
15 Water Authority to restore the capacity of the Delta-Mendota
16 Canal.

17 (3) Up to the sum of one hundred forty-five million dollars
18 (\$145,000,000) to restore the capacity of the San Luis Field
19 Division of the California Aqueduct.

20 (4) Up to the sum of seventy million dollars (\$70,000,000) to
21 restore the capacity of the San Joaquin Division of the California
22 Aqueduct.

23 (5) Up to the sum of two billion six hundred million dollars
24 (\$2,600,000,000) to complete funding for the construction of the
25 Sites Reservoir.

26 (e) This section shall become inoperative on July 1, 2030, and,
27 as of January 1, 2031, is repealed.

28 SEC. 3. This act is an urgency statute necessary for the
29 immediate preservation of the public peace, health, or safety within
30 the meaning of Article IV of the California Constitution and shall
31 go into immediate effect. The facts constituting the necessity are:

32 Due to the impacts of increased groundwater pumping, drought,
33 and climate change on the ability of primary state and regional
34 water infrastructure to provide and convey water to the people of
35 this state, it is necessary for this act to take effect immediately.

O

From: Alicia Forsythe [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=A6CDF06A7E904B65BAA21702A82AD329-AFORSYTHE]
Sent: 2/1/2022 2:28:12 PM
To: Laurie Warner Herson [laurie.warner.herson@phenixenv.com]; Fisher, Linda [linda.fisher@hdrinc.com]; Williams, Nicole [Nicole.Williams@icf.com]
Subject: FW: Ltr from Arthur W. Fabre concerned with Sites Project
Attachments: 02.01.2022 Ltr from Arthur re comments on Sites Project.pdf

Sandra is scanning the envelope for this. It was postmarked on 1/28 at 6:00 PM. Although technically past the 5:00 PM, I am inclined to take it as I suspect the person dropped it off in the mail earlier in the day – the post office simply didn't postmark until 6 PM.

Sandra has sent this to the EIR-EIS-Comments also.

Ali

Alicia Forsythe | Environmental Planning and Permitting Manager | Sites Project Authority | 916.880.0676 |
aforsythe@sitesproject.org | www.SitesProject.org

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From: Sandra Yarbrough <syarbrough@sitesproject.org>
Sent: Tuesday, February 1, 2022 2:08 PM
To: Kevin Spesert <kspesert@sitesproject.org>; EIR-EIS-Comments <eir-eis-comments@sitesproject.org>; Alicia Forsythe <aforsythe@sitesproject.org>
Cc: Jerry Brown <jbrown@sitesproject.org>; Board Clerk <boardclerk@sitesproject.org>; Marcia Kivett <MKivett@sitesproject.org>
Subject: Ltr from Arthur W. Fabre concerned with Sites Project

I have filed this in SharePoint at the link below.

[https://sitesreservoirproject.sharepoint.com/:b/r/exemgmtadmin/Exec%20MgmtAdmin/1.1%20Correspondence%20\(Memos,%20Reports,%20Letters,%20etc.\)/Received/2022/02.01.2022%20Ltr%20from%20Arthur%20re%20comments%20on%20Sites%20Project.pdf?csf=1&web=1&e=glf7NY](https://sitesreservoirproject.sharepoint.com/:b/r/exemgmtadmin/Exec%20MgmtAdmin/1.1%20Correspondence%20(Memos,%20Reports,%20Letters,%20etc.)/Received/2022/02.01.2022%20Ltr%20from%20Arthur%20re%20comments%20on%20Sites%20Project.pdf?csf=1&web=1&e=glf7NY)

Thank You,

Sandra Yarbrough
Sites Project Admin
Phone: 530.438.2309
Web: www.SitesProject.org
P.O. Box 517
122 Old Hwy 99W
Maxwell, CA 95955

RECEIVED

FEB 01 2022

Arthur W. Fabre Jr.
2738 58th Street
Sacramento, CA. 95817.

SITES PROJECT AUTHORITY

January 27, 2022

Sites Project Authority
Jerry Brown, Executive Director
P.O. Box 517
Maxwell CA. 95955

Dear Mr. Brown, et al.

The Sites Project Authority has not established a public record in the RDEIR/SDESI and associated documents that supports the continuation of the proposed project.

After years of pursuing the Sites Project, deadlines have not been met to secure funding for the project as proposed in November 2021. Timelines for WIIN funding expired on December 16th 2021. Who will pay and who will benefit has not been documented.

The environmental impacts of additional diversions from the Sacramento River are not adequately described in the proposed project. Currently California is experiencing multi-year droughts that have decimated aquatic resources such as salmon. The main stem of the Sacramento River is currently devoid of the microfauna the support fish species including salmon as documented by University of California aquatic resource studies.¹ The proposed project fails to document how additional diversions will effect this water quality problem.

The ongoing drought in California continues with less than 0.1 inches of rain in January 2022, a near record low. The proposal is mute on how additional diversions from the Sacramento River can be accommodate

¹ C. Lee, [Research Tests How Rice Fields Can Benefit Fish](#), Ag Alert (CFB), 3/25/2020.

this “Global Warming” effect. Climatic change has overtaken the predictability of projected rainfall that will be necessary for the project to safely divert water without resource destruction.

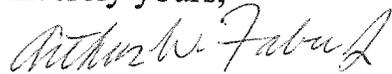
The idea that the Proposed Project will provide “...substantial benefit to the environment..”², is not reasonable from the documents provided and has not been adequately qualified by demonstrating economic feasibility.

The “Trump Era” Secretarial Feasibility Demonstration Letter uses a specious Biological Determination for a project that is significantly different from the much modified final Proposed Project. The validity of this document is currently in litigation and therefore it should not be deemed appropriate for justifying the Project as finally proposed.

Moreover, the purpose of Public Notice is to enable public comments. The SPA is attempting to forward this much delayed and ill conceived project during the Covid crisis shutdown and over the traditional Holiday season—the last hours of the year 2021. Reasonable opportunities for Public Comment are being avoided.

I believe this Proposed Project fails to meet the requirements for approval at many levels. Let California move on to reasonable projects that forward the best available water quality outcomes.

Sincerely yours,



Arthur W. Fabre Jr.

² Public Comment Period Extended for Sites Reservoir Revised/Supplemental Draft Environmental Documents, M. Brown (SPA), 12/22/2022

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Sent: 2/1/2022 2:31:03 PM
To: Alicia Forsythe [aforsythe@sitesproject.org]
CC: EIR-EIS-Comments [eir-eis-comments@sitesproject.org]
Subject: RE: Ltr from Arthur W. Fabre concerned with Sites Project
Attachments: 02-01-2022 Envelope scan for Arthur letter.pdf

Ali,

I have attached the scan of the envelope. I know the return address is hard to read. It is marked like that on the envelope but the address is 2738 57th Street, Sacramento, 95817.

I will continue to send you any mail that comes in like this.

Sandra

From: Alicia Forsythe <aforsythe@sitesproject.org>
Sent: Tuesday, February 1, 2022 2:26 PM
To: Sandra Yarbrough <syarbrough@sitesproject.org>; Kevin Spesert <kspesert@sitesproject.org>
Cc: Board Clerk <boardclerk@sitesproject.org>; Marcia Kivett <MKivett@sitesproject.org>
Subject: RE: Ltr from Arthur W. Fabre concerned with Sites Project

Yes, please. Thank you!

And same for any more letter like these that come in over the next few days.

Very much appreciated!

Ali

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To: Alicia Forsythe <aforsythe@sitesproject.org>; Kevin Spesert <kspesert@sitesproject.org>; EIR-EIS-Comments <eir-eis-comments@sitesproject.org>
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From: Alicia Forsythe <aforsythe@sitesproject.org>

Sent: Tuesday, February 1, 2022 2:11 PM

To: Sandra Yarbrough <syarbrough@sitesproject.org>; Kevin Spesert <kspesert@sitesproject.org>; EIR-EIS-Comments <eir-eis-comments@sitesproject.org>

Cc: Jerry Brown <jbrown@sitesproject.org>; Board Clerk <boardclerk@sitesproject.org>; Marcia Kivett <MKivett@sitesproject.org>

Subject: RE: Ltr from Arthur W. Fabre concerned with Sites Project

Sandra, do you have the envelope for this letter? If so, is it postmarked on or before Friday, February 28?

Can you scan and send over the envelope also? Sorry to sound so particular, but it matters for the RDEIR/SDEIS comment process.

Ali

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Maxwell, CA 95955

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Sent: 2/1/2022 2:31:18 PM
To: Mooney, David M [dmmooney@usbr.gov]
Subject: Sites Project - Moving Forward with BA

Hi Dave – I hope you’re doing well and missed seeing you last week as we were all on COVID quarantine in our house. I wanted to follow up on our January 12 conversation and let you know where things are headed.

As I understood from the conversation, we will be collectively working with Reclamation to move forward with the BA analysis. Recognizing that the modeling is likely not reflecting the full potential for the enhanced exchanges as it is trying to operate in the parameters given and balance water into different “accounts”, we also will work together to draft more language around exchanges in the BA project description to allow for greater flexibility to benefit anadromous fish in future real time operations. And of course, we will have a future operations agreement that also work towards flexibility and enhancing the anadromous fish benefits while balancing the risk to both Reclamation and the Authority.

We’re working with Vanessa and team on some of the modeling parameters (like climate change baseline and updates to CALSIM II since our last modeling effort). Vanessa has pulled in Darya on these discussions also.

We’re starting to talk to the State/Federal fisheries agencies this week on enhanced exchanges and the modeling.

So I feel like we are on a good path here and working with Reclamation in a much more collaborative way. Let me know if you would like to be involved in any of these discussions. Happy to involve you, but also figure that you have a lot going on right now, so trying to work things with Vanessa, Derya, and Shane. Always big fun!

Ali

Alicia Forsythe | Environmental Planning and Permitting Manager | Sites Project Authority | 916.880.0676 | aforsythe@sitesproject.org | www.SitesProject.org

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From: Laurie Warner Herson [laurie.warner.herson@phenixenv.com]
Sent: 2/1/2022 2:53:32 PM
To: Williams, Nicole [Nicole.Williams@icf.com]; Alicia Forsythe [aforsythe@sitesproject.org]; Fisher, Linda [linda.fisher@hdrinc.com]
Subject: RE: Ltr from Arthur W. Fabre concerned with Sites Project

Yes, they are on SharePoint. The Maxwell office has been scanning anything that comes in there and forwarding it via the EIR-EIS email address.

From: Williams, Nicole <Nicole.Williams@icf.com>
Sent: Tuesday, February 1, 2022 2:50 PM
To: Alicia Forsythe <aforsythe@sitesproject.org>; Laurie Warner Herson <laurie.warner.herson@phenixenv.com>; Fisher, Linda <linda.fisher@hdrinc.com>
Subject: RE: Ltr from Arthur W. Fabre concerned with Sites Project

Hello - Are these making their way to the Sites Authority Sharepoint Site so the folks that are downloading on ICFs side (not me) can see "new" letters? Or do I need to send the pdfs to the ICF team? Cheers, Nicole

NICOLE L. WILLIAMS
Senior Environmental Planner
ICF
o 916.231.9614
icf.com

From: Alicia Forsythe <aforsythe@sitesproject.org>
Sent: Tuesday, February 1, 2022 2:32 PM
To: Laurie Warner Herson <laurie.warner.herson@phenixenv.com>; Fisher, Linda <linda.fisher@hdrinc.com>; Williams, Nicole <Nicole.Williams@icf.com>
Subject: FW: Ltr from Arthur W. Fabre concerned with Sites Project

This went to the EIR-EIS-Comment email address also.

Ali

Alicia Forsythe | Environmental Planning and Permitting Manager | Sites Project Authority | 916.880.0676 |
aforsythe@sitesproject.org | www.SitesProject.org

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From: Sandra Yarbrough <syarbrough@sitesproject.org>
Sent: Tuesday, February 1, 2022 2:31 PM
To: Alicia Forsythe <aforsythe@sitesproject.org>
Cc: EIR-EIS-Comments <eir-eis-comments@sitesproject.org>
Subject: RE: Ltr from Arthur W. Fabre concerned with Sites Project

Ali,

I have attached the scan of the envelope. I know the return address is hard to read. It is marked like that on the envelope but the address is 2738 57th Street, Sacramento, 95817.

I will continue to send you any mail that comes in like this.

Sandra

From: Alicia Forsythe <aforsythe@sitesproject.org>
Sent: Tuesday, February 1, 2022 2:26 PM
To: Sandra Yarbrough <syarbrough@sitesproject.org>; Kevin Spesert <kspesert@sitesproject.org>
Cc: Board Clerk <boardclerk@sitesproject.org>; Marcia Kivett <MKivett@sitesproject.org>
Subject: RE: Ltr from Arthur W. Fabre concerned with Sites Project

Yes, please. Thank you!

And same for any more letter like these that come in over the next few days.

Very much appreciated!

Ali

Alicia Forsythe | Environmental Planning and Permitting Manager | Sites Project Authority | 916.880.0676 |
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From: Sandra Yarbrough <syarbrough@sitesproject.org>
Sent: Tuesday, February 1, 2022 2:24 PM
To: Alicia Forsythe <aforsythe@sitesproject.org>; Kevin Spesert <kspesert@sitesproject.org>; EIR-EIS-Comments <eir-eis-comments@sitesproject.org>
Cc: Jerry Brown <jbrown@sitesproject.org>; Board Clerk <boardclerk@sitesproject.org>; Marcia Kivett <MKivett@sitesproject.org>
Subject: RE: Ltr from Arthur W. Fabre concerned with Sites Project

Yes, it is postmarked for Jan. 28th at 6 PM. Do you want me to scan the envelope and send?

Sandra

From: Alicia Forsythe <aforsythe@sitesproject.org>
Sent: Tuesday, February 1, 2022 2:11 PM
To: Sandra Yarbrough <syarbrough@sitesproject.org>; Kevin Spesert <kspesert@sitesproject.org>; EIR-EIS-Comments <eir-eis-comments@sitesproject.org>
Cc: Jerry Brown <jbrown@sitesproject.org>; Board Clerk <boardclerk@sitesproject.org>; Marcia Kivett <MKivett@sitesproject.org>
Subject: RE: Ltr from Arthur W. Fabre concerned with Sites Project

Sandra, do you have the envelope for this letter? If so, is it postmarked on or before Friday, February 28?

Can you scan and send over the envelope also? Sorry to sound so particular, but it matters for the RDEIR/SDEIS comment process.

Ali

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aforsythe@sitesproject.org | www.SitesProject.org

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From: Sandra Yarbrough <syarbrough@sitesproject.org>
Sent: Tuesday, February 1, 2022 2:08 PM
To: Kevin Spesert <kspesert@sitesproject.org>; EIR-EIS-Comments <eir-eis-comments@sitesproject.org>; Alicia Forsythe <aforsythe@sitesproject.org>
Cc: Jerry Brown <jbrown@sitesproject.org>; Board Clerk <boardclerk@sitesproject.org>; Marcia Kivett <MKivett@sitesproject.org>
Subject: Ltr from Arthur W. Fabre concerned with Sites Project

I have filed this in SharePoint at the link below.

[https://sitesreservoirproject.sharepoint.com/:b:/r/exemgmtadmin/Exec%20MgmtAdmin/1.1%20Correspondence%20\(Memos,%20Reports,%20Letters,%20etc.\)/Received/2022/02.01.2022%20Ltr%20from%20Arthur%20re%20comments%20on%20Sites%20Project.pdf?csf=1&web=1&e=gIf7NY](https://sitesreservoirproject.sharepoint.com/:b:/r/exemgmtadmin/Exec%20MgmtAdmin/1.1%20Correspondence%20(Memos,%20Reports,%20Letters,%20etc.)/Received/2022/02.01.2022%20Ltr%20from%20Arthur%20re%20comments%20on%20Sites%20Project.pdf?csf=1&web=1&e=gIf7NY)

Thank You,

Sandra Yarbrough
Sites Project Admin
Phone: 530.438.2309
Web: www.SitesProject.org
P.O. Box 517
122 Old Hwy 99W
Maxwell, CA 95955

From: Williams, Nicole [Nicole.Williams@icf.com]
Sent: 2/1/2022 2:53:52 PM
To: Alicia Forsythe [aforsythe@sitesproject.org]; Laurie Warner Herson [laurie.warner.herson@phenixenv.com]; Fisher, Linda [linda.fisher@hdrinc.com]
Subject: RE: Ltr from Arthur W. Fabre concerned with Sites Project

Hello – and now I see if I had fully read the email I would know the answer to my question. Thanks for sending to the EIR-EIS email/posting on the Sites Authority Sharepoint Site. Cheers, Nicole

NICOLE L. WILLIAMS
Senior Environmental Planner
ICF
o 916.231.9614
icf.com

From: Williams, Nicole
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To: Sandra Yarbrough <syarbrough@sitesproject.org>; Kevin Spesert <kspesert@sitesproject.org>
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Subject: RE: Ltr from Arthur W. Fabre concerned with Sites Project

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Very much appreciated!

Ali

Alicia Forsythe | Environmental Planning and Permitting Manager | Sites Project Authority | 916.880.0676 |
aforsythe@sitesproject.org | www.SitesProject.org

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Cc: Jerry Brown <jbrown@sitesproject.org>; Board Clerk <boardclerk@sitesproject.org>; Marcia Kivett

<MKivett@sitesproject.org>

Subject: RE: Ltr from Arthur W. Fabre concerned with Sites Project

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Ali

Alicia Forsythe | Environmental Planning and Permitting Manager | Sites Project Authority | 916.880.0676 |
aforsythe@sitesproject.org | www.SitesProject.org

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Sent: Tuesday, February 1, 2022 2:08 PM

To: Kevin Spesert <kspesert@sitesproject.org>; EIR-EIS-Comments <eir-eis-comments@sitesproject.org>; Alicia Forsythe <aforsythe@sitesproject.org>

Cc: Jerry Brown <jbrown@sitesproject.org>; Board Clerk <boardclerk@sitesproject.org>; Marcia Kivett <MKivett@sitesproject.org>

Subject: Ltr from Arthur W. Fabre concerned with Sites Project

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[https://sitesreservoirproject.sharepoint.com/:b:/r/exemgmtadmin/Exec%20MgmtAdmin/1.1%20Correspondence%20\(Memos,%20Reports,%20Letters,%20etc.\)/Received/2022/02.01.2022%20Ltr%20from%20Arthur%20re%20comments%20on%20Sites%20Project.pdf?csf=1&web=1&e=glf7NY](https://sitesreservoirproject.sharepoint.com/:b:/r/exemgmtadmin/Exec%20MgmtAdmin/1.1%20Correspondence%20(Memos,%20Reports,%20Letters,%20etc.)/Received/2022/02.01.2022%20Ltr%20from%20Arthur%20re%20comments%20on%20Sites%20Project.pdf?csf=1&web=1&e=glf7NY)

Thank You,

Sandra Yarbrough
Sites Project Admin
Phone: 530.438.2309
Web: www.SitesProject.org
P.O. Box 517
122 Old Hwy 99W
Maxwell, CA 95955

From: JP Robinette [JRobinette@BrwnCald.com]
Sent: 2/2/2022 8:08:11 AM
To: Jerry Brown [jbrown@sitesproject.org]; Alicia Forsythe [aforsythe@sitesproject.org]; Joe Trapasso [jtrapasso@sitesproject.org]; Kevin Spesert [kspesert@sitesproject.org]
CC: Marcia Kivett [MKivett@sitesproject.org]
Subject: Re: Santa Clarita VWA Approves Sites

This is impressive work by Dirk and his team. I was impressed with his approach from the onset as he shared his staff report with us. I will share this with the Dougs as well as they help us message the economics.
JP

Get Outlook for iOS

From: Jerry Brown <jbrown@sitesproject.org>
Sent: Wednesday, February 2, 2022 7:44:38 AM
To: Alicia Forsythe <aforsythe@sitesproject.org>; Joe Trapasso <jtrapasso@sitesproject.org>; Kevin Spesert <kspesert@sitesproject.org>; JP Robinette <JRobinette@BrwnCald.com>
Cc: Marcia Kivett <MKivett@sitesproject.org>
Subject: Santa Clarita VWA Approves Sites

FYI – In a 9-3 vote last night SCVWA approved continued participation in Sites @5TAF. These events are a good opportunity for us to learn about our participants – 1) what are their agency's priorities, 2) what they feel is important to communicate with their Board's, and 3) what they are taking away from our presentations. We should use this information to adjust our communications to better align with participants needs. Below are some excerpts from Dirks staff report. Most interesting to me is the \$1.67/mo addition to the water bill because of Sites in 2050. I'm guessing that's about a 2% one time rate increase (current dollars).

Sites Reservoir would be subject to similar uncertainties common with other surface water supplies. The project, however, has several potential upsides that may result in additional yield. To the extent that climate change results in less snowpack and higher flow rates in the Sacramento River, Sites reservoir is positioned to divert a portion of those flows for use later in the year or during dry and critically dry years. Additionally, should a Delta Conveyance Facility (DCF) be constructed, that facility could be used to convey Sites Project water and thus reduce carriage losses that otherwise would be experienced. This potential was specifically recognized in the Agreement in Principle that would form the basis for a contract amendment for the DCF.

Current estimates indicate the project could make up to 9,000 to 10,000 AF available in dry and critically dry years North of the Delta. This supply would be subject to carriage losses which can run between 15%-35% depending on conditions in specific hydrologic years. If a Delta Conveyance Facility is constructed these carriage losses would likely be reduced. Conversely, more restrictive diversion conditions resulting from the permitting process for incidental take permitting for endangered species could result in lower yields.

While it is difficult to compare costs at this juncture to other projects, Sites Reservoir is in the same order of magnitude with some of SCV Water's current and proposed water supplies like the Buena Vista Rosedale-Rio Bravo (BVRRB) water purchase or Phase 2 Recycled Water Projects. For example, the cost for the BVRRB supply is currently \$932/AF and that cost continues to increase at the average rate of the consumer price index and SWP cost increases. Given the large, fixed cost component of Sites Reservoir, it would be likely that the BVRRB unit costs will exceed those of Sites Reservoir within a decade of operation.

Another perspective when examining potential participation in Sites Reservoir would be to estimate the impact of Sites Reservoir participation on the cost on water supply to customers. While it is unknown at this time how much (if any) project costs might be paid for from 1% Property Tax or SWP Ad Valorem taxes, a conservative assumption would be to assume that the cost of the project would be paid for entirely through water rates. The

currently estimated annual capital cost for the Sites project is \$4.3M with operating cost a \$0.64M. This results in a total annual cost of \$4.9M. Average annual water sales in 2050 are estimated at 101,000 AF or 44MCCF (in billing units). Thus, potential participation could add approximately \$0.11 per CCF or about \$1.67 per month for a customer that uses an average of 15 CCF.

From: Alicia Forsythe [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=A6CDF06A7E904B65BAA21702A82AD329-AFORSYTHE]
Sent: 2/2/2022 9:42:31 AM
To: Emily Fan Michaelson [emichaelson@katzandassociates.com]; Laurie Warner Herson [laurie.warner.herson@phenixenv.com]; Williams, Nicole [Nicole.Williams@icf.com]; Fisher, Linda [linda.fisher@hdrinc.com]
CC: Sarah Rossetto [srossetto@katzandassociates.com]
Subject: RE: Sites Reservoir Website Contact Form

Excellent! Thank you for confirming!

Ali

Alicia Forsythe | Environmental Planning and Permitting Manager | Sites Project Authority | 916.880.0676
| aforsythe@sitesproject.org | www.SitesProject.org

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-----Original Message-----

From: Emily Fan Michaelson <emichaelson@katzandassociates.com>
Sent: Tuesday, February 1, 2022 6:51 PM
To: Alicia Forsythe <aforsythe@sitesproject.org>; EIR-EIS-Comments <eir-eis-comments@sitesproject.org>; Laurie Warner Herson <laurie.warner.herson@phenixenv.com>; Williams, Nicole <Nicole.Williams@icf.com>; Fisher, Linda <linda.fisher@hdrinc.com>
Cc: Sarah Rossetto <srossetto@katzandassociates.com>
Subject: RE: Sites Reservoir Website Contact Form

Hi Ali,
We confirmed no comments were received in the info@sitesproject.org inbox.
Thanks,

Emily Fan Michaelson
Senior Account Supervisor
d: 858.926.4019 · o: 858.452.0031
San Diego · Los Angeles · San Francisco

-----Original Message-----

From: Emily Fan Michaelson
Sent: Tuesday, February 1, 2022 5:39 PM
To: Alicia Forsythe <aforsythe@sitesproject.org>; EIR-EIS-Comments <eir-eis-comments@sitesproject.org>; Laurie Warner Herson <laurie.warner.herson@phenixenv.com>; Williams, Nicole <Nicole.Williams@icf.com>; Fisher, Linda <linda.fisher@hdrinc.com>
Cc: Sarah Rossetto <srossetto@katzandassociates.com>
Subject: RE: Sites Reservoir Website Contact Form

Hi Ali,
That was the only comment that has come in via the website contact form. We are double-checking that there aren't any comments in the info@sitesproject.org inbox.
Thank you,

Emily Fan Michaelson
Senior Account Supervisor
d: 858.926.4019 · o: 858.452.0031
San Diego · Los Angeles · San Francisco

-----Original Message-----

From: Alicia Forsythe <aforsythe@sitesproject.org>
Sent: Tuesday, February 1, 2022 12:17 PM
To: Emily Fan Michaelson <emichaelson@katzandassociates.com>; EIR-EIS-Comments <eir-eis-comments@sitesproject.org>; Laurie Warner Herson <laurie.warner.herson@phenixenv.com>; Williams, Nicole <Nicole.Williams@icf.com>; Fisher, Linda <linda.fisher@hdrinc.com>
Cc: Sarah Rossetto <srossetto@katzandassociates.com>
Subject: RE: Sites Reservoir Website Contact Form

Thanks Emily. We will consider this a comment on the RDEIR/SDEIS as it appears as though this was their intent and it came in within the comment period -- even though it did not come into the EIR-EIS-Comment

address. Appreciate you forwarding this on. Lets us know if there is anything else that came in through this email that might be a comment on the RDEIR/SDEIS.

Ali

Alicia Forsythe | Environmental Planning and Permitting Manager | Sites Project Authority | 916.880.0676
| aforsythe@sitesproject.org | www.SitesProject.org

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-----Original Message-----

From: Emily Fan Michaelson <emichaelson@katzandassociates.com>
Sent: Tuesday, February 1, 2022 12:11 PM
To: Alicia Forsythe <aforsythe@sitesproject.org>
Cc: Sarah Rossetto <srossetto@katzandassociates.com>
Subject: FW: Sites Reservoir Website Contact Form

Hi Ali,

Please see below for a message received via the Sites website contact form. It appears this individual may have wanted to submit a comment as part of the environmental review process and submitted this before the close of the comment period. While it was not submitted through one of the established comment channels, we are passing this along to you in case you want this addressed with the environmental comments.

Thank you,

Emily Fan Michaelson
Senior Account Supervisor
d: 858.926.4019 · o: 858.452.0031
San Diego · Los Angeles · San Francisco

-----Original Message-----

From: Sites Project <info@sitesproject.org>
Sent: Thursday, January 27, 2022 5:19 PM
To: Sarah Rossetto <srossetto@katzandassociates.com>
Subject: Sites Reservoir Website Contact Form

The Contact Form form has been completed on Sites Reservoir, details are as below:

Name: Richard Spotts
Email: raspotts2@gmail.com

Message: The climate and extinction crises are real, connected, and getting worse. The Sacramento River and Delta are already seriously stressed with many dependent species declining or listed under the federal and state endangered species laws. Diverting more water for off-stream storage is likely to add to these existing problems, plus this proposed reservoir would destroy thousands of acres of valuable farmland and wildlife habitat. It would make more sense to acquire some farmland along the Sacramento River, reduce the levees, and let the river expand during flood flows, as it previously did, to restore critical riparian and wetland habitats and replenish groundwater aquifers. We need to work with and replicate natural processes whenever possible. People also waste too much water and much greater savings could occur with more effective water conservation and reclamation programs. For these reasons, I oppose this proposed reservoir because there are much better alternatives. Thanks for considering my comments.

--

This e-mail was sent from a contact form on Sites Reservoir (<http://dev-sites-project.pantheonsite.io>)

From: Alicia Forsythe [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=A6CDF06A7E904B65BAA21702A82AD329-AFORSYTHE]
Sent: 2/2/2022 12:43:24 PM
To: Lassell, Susan [Susan.Lassell@icf.com]; janis@horizonh2o.com; Carper, Mark A [mcarper@usbr.gov]; Risse, Danielle [Danielle.Risse@hdrinc.com]; Lloyd, John [John.Lloyd@hdrinc.com]; Kevin Spesert [kspesert@sitesproject.org]; Pappas, Steve [Steve.Pappas@icf.com]; Hess, Erin E SPK [Erin.E.Hess@usace.army.mil]; King, Vanessa M [vking@usbr.gov]
CC: mivie@usbr.gov; Dekar, Melissa D [mdekar@usbr.gov]; Spranza, John [john.spranza@hdrinc.com]; Havelaar, Christiaan [Christiaan.Havelaar@icf.com]
Subject: RE: Sites Reservoir - Section 106 coordination
Attachments: F_EPA Comments on the Sites Reservoir SDEIS 1.28.2022_signed.pdf; T_California_Indian_Environmental_Alliance.pdf; T_UAIC.pdf

Hi all – I am reading through all of the RDEIR/SDEIS comments now, but wanted to send on the attached 3 letters that mention Tribal coordination.

I will keep reading through the letters and send on any more that may be relevant.

Ali

Alicia Forsythe | Environmental Planning and Permitting Manager | Sites Project Authority | 916.880.0676 | aforsythe@sitesproject.org | www.SitesProject.org

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From: Lassell, Susan <Susan.Lassell@icf.com>
Sent: Monday, January 31, 2022 4:39 PM
To: janis@horizonh2o.com; Carper, Mark A <mcarper@usbr.gov>; Risse, Danielle <Danielle.Risse@hdrinc.com>; Lloyd, John <John.Lloyd@hdrinc.com>; Kevin Spesert <kspesert@sitesproject.org>; Pappas, Steve <Steve.Pappas@icf.com>; Hess, Erin E SPK <Erin.E.Hess@usace.army.mil>; King, Vanessa M <vking@usbr.gov>; Alicia Forsythe <aforsythe@sitesproject.org>
Cc: mivie@usbr.gov; Dekar, Melissa D <mdekar@usbr.gov>; Spranza, John <john.spranza@hdrinc.com>; Havelaar, Christiaan <Christiaan.Havelaar@icf.com>
Subject: RE: Sites Reservoir - Section 106 coordination

Hi folks –

In preparation for our next Section 106 coordination call, please take a look through the NEPA/CEQA public meeting transcripts attached to get an idea of the types of comments made regarding concerns for tribal resources. It would be good for us to chat about these a bit, and consider how it might influence the consultation strategy for Section 106.

If you search on variations of the word “tribe” you’ll be able to skip to the relevant pages.

Susan

SUSAN LASSELL | +1.916.231.7612 direct | +1.415.238.9086 mobile

-----Original Appointment-----

From: Lassell, Susan

Sent: Thursday, January 14, 2021 4:45 PM

To: Lassell, Susan; Janis Offermann; Carper, Mark A; Danielle Risse; Lloyd, John; Kevin Spesert; Pappas, Steve; Erin E. Hess; King, Vanessa M; Ali Forsythe

Cc: mivie@usbr.gov; Dekar, Melissa D; Spranza, John; Havelaar, Christiaan

Subject: Sites Reservoir - Section 106 coordination

When: Tuesday, February 15, 2022 11:00 AM-12:00 PM (UTC-08:00) Pacific Time (US & Canada).

Where: Microsoft Teams Meeting

Agenda will be circulated at least one day prior to the call.

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
75 Hawthorne Street
San Francisco, CA 94105-3901

January 28th, 2022

Ernest Conant
Regional Director
U.S. Bureau of Reclamation
California-Great Basin Office
2800 Cottage Way
Sacramento, California 95825-1898

Subject: Supplemental Draft Environmental Impact Statement/Recirculated Draft Environmental Impact Report for the Sites Reservoir Project, Glenn and Colusa Counties, CA (EIS No. 20210172)

Dear Ernest Conant:

The U.S. Environmental Protection Agency has reviewed the Sites Reservoir Project Supplemental Draft Environmental Impact Statement (SDEIS) pursuant to the National Environmental Policy Act (NEPA), Council on Environmental Quality regulations (40 CFR Parts 1500-1508), and our NEPA review authority under Section 309 of the Clean Air Act. The EPA is a cooperating agency for this SDEIS and provided comments on chapters of the Administrative SDEIS on April 21st and May 28th, 2021.

According to the SDEIS, the Sites Project Authority has modified their proposal to construct and operate a new off-stream surface storage reservoir ten miles west of Maxwell, California, and the Bureau of Reclamation continues to participate in the development of the project to consider the environmental impacts of coordinating the use of federal facilities that would be used to supply water to the reservoir. Reclamation is also examining the possibility of investing in Sites reservoir storage up to 25% to improve operational flexibility of the Central Valley Project (CVP). The EPA recognizes the need for improved water management in California and welcomes the opportunity to assist Reclamation in ensuring that federal decision making concerning new water storage facilities appropriately considers environmental impacts associated with siting, design, construction, and operation of such facilities.

The EPA has identified several topics or resource areas in the SDEIS that would benefit from additional information or analysis in the Final EIS, including project operations, scope of analysis, climate impacts and greenhouse gas emissions, impacts to streams and wetlands, sediment management, and surface water quality. We have enclosed detailed comments and recommendations on these and other resource topics, and we have included a brief summary below. Please note that because the SDEIS does not identify Reclamation's Preferred Alternative, our comments apply to all alternatives.

The EPA is concerned about the approach to project operations in the SDEIS, which have not yet been finalized but are critical to understanding the environmental impacts of Sites Reservoir. Operations are modeled using historical hydrology data that may not reflect current and future conditions, and diversion criteria are based on regulatory requirements that are currently being revised. While important components of the originally proposed project have been altered, none of these project changes explain why the Trinity River and lower Klamath basin were excluded from the scope of analysis. Finally, the

SDEIS uses a 2035 scenario for analysis of potential climate impacts; however, the project would not begin operating until at least 2030, making the 2035 scenario unhelpful to the analysis for operations.

Sufficient information on wetlands and other aquatic resources to support permitting under Section 404 of the Clean Water Act is not included in the SDEIS, and appropriate testing procedures and plans for sediment management and beneficial reuse have not been specified. The EPA has additional concerns about the effects of Sites Reservoir on water quality. The SDEIS identifies substantial adverse effects that can be expected from mercury methylation in the proposed reservoir; the EPA is concerned that this impact could disproportionately affect tribal and subsistence fishing communities. The SDEIS finds that evapoconcentration of aluminum, copper, and iron would likely contribute to exceedance of water quality objectives to protect aquatic life. The SDEIS also acknowledges that conditions in the proposed reservoir would be conducive to the formation of harmful algal blooms, but the EPA has concerns that the analysis presented may mischaracterize the likelihood and severity of blooms. Furthermore, the EPA believes that the proposed mitigation measures to manage these water quality concerns would not be effective and, in many cases, would conflict with each other. Finally, we have concerns about the modeling approach and presentation of results assessing the effects of Sites Reservoir operations and CVP exchanges on temperature-dependent mortality of listed fish species, including Chinook salmon.

EPA appreciates the opportunity to review this SDEIS. When the Final EIS is released for public review, please send one copy to the address above (mail code: TIP-2). If you have any questions, please contact me at 415-947-4167, or contact Joe Morgan, the lead reviewer for this project, at 415-972-3309 or morgan.joseph@epa.gov.

Sincerely,

**JEAN
PRIJATEL**

Jean Prijatel
Manager, Environmental Review Branch

Digitally signed by JEAN
PRIJATEL
Date: 2022.01.28 14:36:38
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Enclosure: EPA's Detailed Comments

cc: Melissa Dekar, U.S. Bureau of Reclamation
Vanessa King, U.S. Bureau of Reclamation
Lisa Gibson, U.S. Army Corps of Engineers
Stephen Maurano, NOAA Fisheries
Evan Sawyer, NOAA Fisheries
Diane Riddle, State Water Resources Control Board
Erin Foresman, State Water Resources Control Board
Alicia Forsythe, Sites Project Authority

EPA's DETAILED COMMENTS ON THE SUPPLEMENTAL DRAFT ENVIRONMENTAL IMPACT STATEMENT FOR THE SITES RESERVOIR PROJECT, GLENN AND COLUSA COUNTIES, CALIFORNIA, JANUARY 28, 2022

Operations Modeling and Diversion Criteria

As noted in our 2018 comment letter on the Draft EIS, important components of the Sites Project remain undefined pending outcomes of state funding processes, such as the California Proposition 1 Water Storage Investment Program, including a final Operations Plan. While the impacts of constructing the reservoir are significant, a thorough description of project operations is critical to guiding the environmental analysis presented in the SDEIS, as well as guiding other federal and state permit decisions. The analysis presented in the SDEIS is based on modeled project operations generated by the California Department of Water Resources CalSim-II model, which is modified to include the proposed Sites Reservoir and conveyance facilities operating under specified diversion criteria (p. 2-31). The EPA is concerned that the modeling approach presented in the SDEIS does not represent the best available information on project operations. CalSim-II only evaluates historical hydrology through 2003 and does not include the more recent severe 2012-2016 drought. CalSim-II was replaced by CalSim 3.0 in 2017, which includes historical data through 2015, improved supply and demand estimation, finer spatial resolution, and a daily rainfall-runoff model. These factors suggest that CalSim 3.0 may be more a more appropriate operations model, and better suited to assessing potential effects of climate change on the proposed Sites Reservoir. Additionally, the EPA has concerns that the operating criteria identified on p. 2-31 used to model diversions to Sites are based on state and federal requirements that are currently being revisited.

Recommendations:

In the FEIS, fully describe the finalized operations of the proposed project and ensure that any operations not contemplated in the diversion criteria or CalSim-II results are reflected in the water supply, surface water quality, and aquatic biological resources chapters. Consider using CalSim 3.0 (or most current version) to evaluate whether modeled operations are affected by a longer temporal scope and other improvements over CalSim-II. Conduct a sensitivity analysis to evaluate the sensitivity of operations model results to reasonably foreseeable climate change impacts such as reduced and altered timing of runoff and increased crop and vegetation evapotranspiration.

Consider modifying one alternative to include more stringent diversion criteria to meet Delta outflow objectives and protect Delta beneficial uses. In the 2018 Framework for the Sacramento/Delta Update to the Bay-Delta Plan¹, the State Water Resources Control Board states that existing requirements are insufficient to protect the Bay-Delta ecosystem and proposes new inflow-based Delta outflow objectives of 55% of unimpaired flow within an adaptive range of 45-65%.

Consider modifying the Bend Bridge Pulse Protection diversion criterion (p. 2-31) to initiate pulse protection proactively using leading indicators, such as river stage forecasts from the National Oceanic and Atmospheric Administration's California-Nevada River Forecast Center, rather than lagging indicators such as visual observation of fish migration.

¹https://www.waterboards.ca.gov/waterrights/water_issues/programs/bay_delta/docs/sed/sac_delta_framework_070618%20.pdf

Scope of Analysis

While the 2017 DEIS/DEIR analyzed potential impacts of the project on the Trinity River and lower Klamath River, the SDEIS states on p. 2-30 that “the Project would not affect or result in changes in operation of the CVP, [or] Trinity River Division [sic] facilities (including Clear Creek).” It is unclear how this statement is supported. As noted above, diversions and releases from Sites Reservoir would be coordinated with CVP operations, which include the Trinity River Diversion. Proposed CVP exchanges with Lake Shasta would alter CVP operations, which in turn could affect operations of the Trinity River Diversion. Reclamation investment in the project, as high as 25% in Alternative 3, could result in significant amounts of new north-of-Delta CVP storage, utilization of which would likely result in impacts to north-of-Delta CVP operations.

Recommendations:

In the FEIS, analyze and disclose how CVP exchanges could alter Trinity River Diversion operations, and how these changes may affect water supply, surface water quality, aquatic biological resources, and tribal trust resources in the Trinity River and lower Klamath basin.

Provide an update on consultation between Reclamation and Klamath Basin tribal governments. Discuss issues that were raised, how those issues were addressed in relation to the proposed project, and how impacts to tribal or cultural resources would be avoided or mitigated, consistent with Executive Order 13175, *Consultation and Coordination with Indian Tribal Governments*, Section 106 of the National Historic Preservation Act, and Executive Order 13007 *Indian Sacred Sites*.

Wetlands and Clean Water Act Section 404

As noted in the EPA’s 2018 letter on the Sites Reservoir DEIS, the proposed project would require a permit for the discharge of fill material into waters of the U.S. under Section 404 of the Clean Water Act. The information in Chapter 9 (Vegetation and Wetland Resources) and Appendix 9B (Vegetation and Wetland Methods and Information) of the SDEIS indicates that the estimates of direct (fill) and indirect (inundation) impacts to waters of the U.S. were assessed primarily using interpretation of aerial imagery, and that a protocol-level aquatic resource delineation has not been conducted in the proposed reservoir footprint in over 20 years. Based on the information presented, construction of the reservoir and appurtenant facilities under Alternatives 1 or 3 would result in permanent impacts to approximately 425 acres of wetlands and 234 acres of streams, with impacts under Alternative 2 slightly lower due to a smaller reservoir footprint (p. 9-19, 9-29). These impacts to waters of the United States are jurisdictional under Section 404 of the Clean Water Act and require analyses and findings, such as the determination of a least environmentally damaging practicable alternative (LEDPA), that cannot currently be supported without additional site-specific information which is not provided in Chapter 9. The EPA encourages concurrent analysis of alternatives under NEPA and CWA Section 404 to ensure that the LEDPA is included in NEPA alternatives and can be selected in the Record of Decision. Under the 2008 Mitigation Rule (40 CFR 230.91-98), avoidance, minimization, and compensation for impacts are required for compliance with Section 404 in that order, and compensatory mitigation should be sited properly using a watershed approach to ensure that impacts are appropriately offset. The extent of the impacts to aquatic resources from construction of Sites Reservoir would far exceed any other recent project in the Sacramento Valley; it may prove difficult to compensate for such impacts.

Chapter 9 does not present information on how project operations would affect wetlands along the Sacramento River downstream of water conveyance facilities and in the Sutter and Yolo bypasses other than to conclude that they would not be substantially affected. However, the bypass flow and weir spill

analysis in Appendix 11M (Inundated Floodplain and Side-Channel Habitat Analysis, including Yolo and Sutter Bypasses) suggests that project operations would reduce the area of inundated areas in both bypasses and in Sacramento side channel habitat. These areas also include extensive areas of riparian and floodplain wetlands, including pending and approved mitigation banks providing CWA Section 404 mitigation credits.

Recommendations:

In the FEIS, disclose steps taken to achieve compliance with Section 404 of the Clean Water Act and implementing regulations (40 C.F.R. Part 230).

- Using approved protocols, delineate all waters to be affected by the construction of Sites Reservoir and associated facilities, and work with the US Army Corps of Engineers and the EPA to obtain a formal jurisdictional determination.
- To support a LEDPA determination, conduct a formal and reproducible assessment of the condition of aquatic resources in the reservoir footprint using an approved conditional assessment such as the California Rapid Assessment Method (CRAM).²
- Identify potential opportunities for compensatory mitigation in the Sacramento River watershed to support development of a Mitigation Plan (40 CFR 230.94(c)) following LEDPA determination.

In the FEIS, update Chapter 9 to include a description of how changes in timing and reductions in bypass and side-channel inundation caused by project operations may affect wetland function outside of the construction footprint.

Sediment Management

As discussed in Chapter 6 (Surface Water Quality), a large proportion of total concentrations of metals and pesticides in Sacramento River water under high discharge conditions are associated with sediments. Construction of the reservoir, access roads, and recreational facilities is also likely to result in erosion and mobilization of sediments in runoff. Sediments from the Sites watershed and Sacramento River would likely accumulate in Sites Reservoir and conveyance facilities, requiring active management and removal of sediment deposits. Conversely, waterbodies such as the Colusa Basin Drain (CBD) used to convey Sites deliveries, would experience higher flows that may increase mobilization of contaminated sediments into sensitive waterbodies like the Yolo Bypass and lower Sacramento River. Movement and resuspension of contaminated sediments can result in longer term ecological impacts via several mechanisms: sediment bioaccumulation into the food web such as for methylmercury and some pesticides, and acute and chronic toxicity resulting from discrete flushes (e.g., fall flush of the CBD through the Yolo Bypass containing higher concentrations of heavy metals and pesticides would directly impact sensitive fish and other aquatic species). The SDEIS proposes best management practices in Appendix 2D (Best Management Practices, Management Plans, and Technical Studies) to ameliorate potential impacts from the project on water and sediment quality. Appendix 2D.3.3 (Metals) also discusses measurement of water quality metal concentrations; it does not specifically call for testing of metal concentrations in sediment or sediment elutriates. Appendix 2D.5 (Sediment Technical Studies Plan), discusses the sediment monitoring program but does not include background screening for potential contaminants of concern (PCOCs) and toxicity.

² California Wetland Monitoring Workgroup (CWMW). 2019. Using the California Rapid Assessment Method (CRAM) for Project Assessment as an Element of Regulatory, Grant, and other Management Programs. Technical Bulletin – Version 2.0, 85 pp. https://www.cramwetlands.org/sites/default/files/2019CRAM_TechnicalBulletin.pdf

The Delta Long Term Management Strategy³ (LTMS) includes a goal of maximizing beneficial reuse of dredged material in the Delta. Appendix 2D includes dredged material testing and disposal commitments. BMP-11 (Management of Dredged Material) states “Prior to dredging, a chemical evaluation of Funks Reservoir water and sediment will be conducted to determine contaminant concentrations. This will help evaluate the suitability of dredged material for beneficial use and determine compliance with water quality standards.”

Recommendations:

In the FEIS, include additional design BMPs that hydrologically disconnect, on a permanent basis, the associated existing and proposed new roads from the immediate reservoir watershed to prevent sediment erosion runoff into the reservoir.

To inform the development of a sediment monitoring plan, include an initial screening of metal concentrations in sediments as part of the project’s assessment of the presence and movement of metals. Sediment monitoring in the Sacramento River at the Red Bluff Pumping Plant and Hamilton City Pump Station intakes should include a minimum level of sediment quality characterization for conventional contaminants, known PCOCs (especially bioaccumulative compounds), and baseline suspended sediment and solid-phase bioassays. Consider additional sediment monitoring locations at critical waterbody junctions along the project route to establish background levels, such as where Stony Corral Creek outflows and at the furthest downstream point of the CBD before entering the Yolo Bypass.

In the FEIS, set specific dredged material beneficial reuse goals consistent with the LTMS, and commit to placing material in accessible sites to promote beneficial reuse of material. Commit to testing sediment quality according to standardized and acceptable protocols, i.e., the Inland Testing Manual,⁴ and evaluated against relevant sediment criteria, such as those used by the SF Bay Dredged Material Management Office for upland beneficial reuse sites. Discuss how placement of dredged material on peat soils would affect subsidence and levee stability. Proactively identify potential sites for dredged material acceptance, including already established sites such as Antioch Dunes, Montezuma Wetland Restoration Project, Cullinan Ranch Restoration Project, and Sherman Island (owned by DWR).

Climate Change

Climate change is already causing severe stresses on California’s water supply infrastructure and ecosystems, with hydrologic extremes (both floods and droughts) expected to worsen as storms become more infrequent and intense, and a higher proportion of precipitation occurs as rainfall in important source water basins in the Sierra Nevada mountains.

Climate Effects on Project Operations

While the SDEIS acknowledges the constraints California is already experiencing due to climate change, the EPA is concerned that the analysis in Chapter 28 (Climate Change) does not fully assess the effects of future climate change or support many of its assertions that climate change is likely to result in minor

³ Delta LTMS is an official Regional Dredging Team established to implement the National Dredging Policy:

<http://water.epa.gov/type/oceb/oceandumping/dredgedmaterial/aboutactionagenda.cfm>

⁴ <https://dots.el.erdc.dren.mil/guidance.html>

changes in Sites Reservoir storage and operations. The analysis uses a model centered on 2035 for hydrology and sea level rise, which, while appropriate for assessing near-term climate effects for analysis of operations of existing water infrastructure, offers less relevant insights for a proposed reservoir which is not expected to begin operating until 2030.

Recommendation: In the FEIS, include an assessment of effects of climate change on project operations using a planning horizon that reflects the timeline of the project, such as the “mid-century” scenario (2045-2074, centered on 2060) analyzed by DWR’s Bay-Delta Office for California’s Fourth Climate Change Assessment.⁵ As noted above, CalSim 3.0 is likely better-suited to assess impacts of climate change on project operations than CalSim-II.

Greenhouse Gases

Man-made reservoirs are a globally important source of anthropogenic greenhouse gas emissions, particularly methane. Chapter 21 (Greenhouse Gases) of the SDEIS states that quantifying greenhouse gas (GHG) emissions generated from land use change to inundated areas requires site-specific assessments which are not available until the Sites Project Authority takes control of the lands. The EPA disagrees that insufficient information is available to estimate GHG emissions from land use change; these GHG emissions may be estimated in the absence of site-specific data, using default emission factors from the International Panel on Climate Change’s Guidance for National Greenhouse Gas Inventories and other publicly available data. The 2019 Refinement to the IPCC Guidance for National Greenhouse Gas Inventories⁶ includes guidance on calculating carbon dioxide and methane emissions from land converted to flooded lands (Ch. 7.3.2, p.7.20), which can be compared to estimated emissions from land-cover types already known to exist in the reservoir footprint, including wetlands and grazing lands.

Recommendation: In the FEIS, include an estimate of greenhouse gas emissions generated as a result of inundating the lands in the reservoir footprint. If site access prevents collection of site-specific data to quantify net GHG emissions, estimate net emissions using default emissions factors and other available data.

Surface Water Quality

The water quality analysis presented in Chapter 6 indicates that once constructed, Sites would likely experience impaired water quality conditions with high levels of metals, as well as warm and still water conditions conducive to the formation of harmful algal blooms (HABs).

Mercury and Other Metals

Methylmercury production and bioaccumulation is likely in the reservoir, Funks Creek, and Stone Corral Creek; all three waterbodies are expected to exceed the California Office of Environmental Health Hazard Assessment’s 0.2 mg/kg wet weight sport fish objective (p. 6-73, 6-74). Modeling results presented in Appendix 6E suggest that Sites Reservoir concentrations of aluminum, copper, and iron would routinely approach or exceed water quality objectives for aquatic life protection, limiting the ability of Sites to provide environmental flows and benefits to receiving waterbodies as proposed. Mitigation measure WQ-1.1 outlines the proposed management of impacts of methylmercury on Sites

⁵ Wang, J., H. Yin, J. Anderson, E. Reyes, T. Smith, and F. Chung. 2018. *Mean and Extreme Climate Change Impacts on the State Water Project*. A report for California’s Fourth Climate Change Assessment CCCA4-EXT-2018-004. Accessed 21 January 2021 from https://www.energy.ca.gov/sites/default/files/2019-12/Water_CCCA4-EXT-2018-004_ada.pdf

⁶ <https://www.ipcc.ch/report/2019-refinement-to-the-2006-ipcc-guidelines-for-national-greenhouse-gas-inventories/>

Reservoir and receiving waters and relies on recommendations from a draft staff report⁷ that has not yet been approved. Additionally, many of the proposed mitigation measures would conflict with other measures meant to adaptively manage HABs, such as adding nitrate to stimulate algal growth or releasing water from the epilimnion (upper reservoir). The SDEIS also proposes to delay fish stocking to mitigate methylmercury bioaccumulation in reservoir fish; however, we note that delays of planned fish stocking will likely not reduce bioaccumulation unless other measures are taken to significantly inhibit methylmercury production. We further note that unauthorized fish stocking is common in United States and may not be easily preventable once recreational facilities become operational.

Recommendations:

In the FEIS, consider the effects of higher methylmercury concentrations in Sites Reservoir and receiving waters on tribal and subsistence fisherpersons who may not be protected by the 0.2 mg/kg wet weight sport fish objective.

Consider actions under mitigation measure WQ-1.1 that would prevent or inhibit mercury methylation, such as minimizing the frequency of water surface fluctuations which are known to contribute to mercury methylation, or installation of oxygenation systems in the reservoir at construction to better enable hypolimnetic oxygenation.⁸

Provide information regarding the likelihood that Sites Reservoir would not thermally stratify due to low storage in a given year, limiting the ability to mitigate releases of methylmercury and other metals under mitigations measures WQ-1.1 and WQ-2.1

Harmful Algal Blooms

While the EPA concurs with Chapter 6's finding that construction and operation of Sites Reservoir is likely to create conditions conducive to the formation of HABs, the conclusion that there would be no adverse effect does not appear to be supported by the analysis of HAB risks. The SDEIS characterizes HABs as dependent on specific conditions (p. 6-24); we note that these conditions only represent the optimal conditions for planktonic HABs, which can occur outside of optimal conditions, in flowing waters, and can alter buoyancy to obtain nutrients from deep waters.⁹ The SDEIS does not consider the potential for benthic HABs which could occur in a reservoir such as Sites.¹⁰ In addition to human health risks, HABs may contribute to degradation of ecosystem structure and function by causing anoxia, bioaccumulation of cyanotoxins in organisms, or directly causing fish mortality.⁹

Table 6-20 presents unadjusted average monthly temperatures derived from CalSIM outputs to assess when warm reservoir temperature conditions would support HABs; we note that this data is inappropriately applied since stratification would support warmer surface temperatures from early summer well into the fall. The SDEIS also incorrectly asserts that microcystin and other cyanotoxins

⁷ *Draft Staff Report for Scientific Peer Review for the Amendment to the Water Quality Control Plan for Inland Surface Waters, Enclosed Bays, and Estuaries of California, Mercury Reservoir Provisions – Mercury TMDL and Implementation Program for Reservoirs* (State Water Resources Control Board 2017b)

⁸ Statewide methylmercury control program for reservoirs factsheet. California Water Boards 2013. https://www.waterboards.ca.gov/water_issues/programs/mercury/reservoirs/docs/factsheet.pdf

⁹ Graham, J.L., Dubrovsky, N.M., and Eberts, S.M., 2017, Cyanobacterial harmful algal blooms and U.S. Geological Survey science capabilities (ver 1.1, December 2017): U.S. Geological Survey Open-File Report 2016–1174, 12 p., <https://doi.org/10.3133/ofr20161174>.

¹⁰ FAQ on toxic algal mats. My Water Quality: California Harmful Algal Blooms Portal. https://mywaterquality.ca.gov/habs/resources/benthic_education.html

would undergo rapid photodegradation and would be unlikely to affect downstream waters (p. 6-92); cyanotoxins produced in reservoir HABs commonly persist for weeks or months, and cyanobacteria released into downstream waters can travel downstream to inoculate receiving waterbodies.¹¹ No separate mitigation measures are proposed to manage HAB impacts, although the Reservoir Management Plan (p. 2D-30) describes a general HAB monitoring plan and actions to be taken to protect public health if trigger criteria are exceeded, including releasing water from deeper in the reservoir. Throughout the bloom season, monitoring for cyanobacteria species and cyanotoxins is critical to ensure appropriate protective measures are in place to address the cyanobacteria species and cyanotoxin concentrations present.

Recommendations:

In Chapter 11 of the FEIS, update Impact FISH-18 to include an assessment of the effects of HABs and resulting anoxia on reservoir fish in Sites Reservoir.

Revise the Reservoir Management Plan to improve HAB monitoring. We recommend monitoring occur more frequently than monthly near the start of the bloom season to identify blooms, implement management measures as quickly as possible and extend monitoring until the bloom ends, usually occurring upon reservoir turnover in late fall/early winter (not October as speculated on p. 2D-31).

Base the assessment of the presence of cyanobacteria on:

- cell density OR cyanotoxin concentrations as trigger levels (not “and” as is proposed).
- both planktonic (water column) and benthic HABs;
- other indicators of benthic HABs, beyond confirmation by microscopy, such as the observation of benthic HABs or detached mats, or the detection of cyanotoxins characteristic of benthic HABs (e.g., anatoxin-a).
- California Cyanobacteria and Harmful Algal Bloom Network Trigger Levels,¹² as amended, or updated. The California Water Quality Monitoring Council periodically updates the guidelines and trigger levels to reflect evolving understanding of HABs.

In the FEIS, identify criteria to determine the appropriate depth to avoid HAB releases and describe how these multiple factors will be balanced and prioritized if no single depth interval meets release criteria for temperature, HABs, and metals. Describe how appropriate depth levels for water releases from the Sites I/O works will be determined in a way that allows for providing warm epilimnetic water for rice production while avoiding releasing cyanobacteria and cyanotoxins (likely to occur in the epilimnion during rice growing season) and avoiding releases of methylmercury and other metals (likely to occur in higher concentrations in the hypolimnion).

Temperature Effects on Native Salmonids

As noted in the EPA’s 2018 letter on the Sites DEIS, operation of the proposed reservoir could affect temperature-dependent mortality of Endangered Species Act (ESA) listed fish species in the Sacramento River and its tributary streams, including Chinook salmon. Exchanges with Lake Shasta and Lake Oroville could help maintain the cold water pool needed to support salmonid spawning and rearing

¹¹ Otten, T.G., Crosswell, J.R., Mackey, S. and Dreher, T.W., 2015. Application of molecular tools for microbial source tracking and public health risk assessment of a *Microcystis* bloom traversing 300 km of the Klamath River. *Harmful Algae*, 46, pp.71-81.

¹² California Guidance for Cyanobacteria HABs in Recreational Inland Waters, https://mywaterquality.ca.gov/habs/resources/habs_response.html

habitats, and a robust analysis of the project's potential effects on temperature-dependent mortality is critical for understanding potential benefits of improved temperature conditions for salmonids.

The EPA is concerned that the temperature analysis presented in Chapter 11 (Aquatic Biological Resources) and Appendix 11D (Fisheries Water Temperature Assessment) relies on models – Interactive Object-Oriented Simulation (IOS) and Oncorhynchus Bayesian Analysis (OBAN) – that are proprietary and not transparent and may not be as robust as other available models, such as NOAA's Winter Run Life Cycle Model (WRLCM). There also appear to be multiple instances where Appendix 11D gives apparently conflicting results with a higher number of days exceeding temperature thresholds yet lower or unchanged average temperatures, or vice versa (for example, see Tables 11D-3, 11D-80, 11D-86, 11D-164). As noted above, EPA also has concerns about the robustness and responsiveness of the CalSim-II operations modeling approach which underlies much of the analysis presented in the SDEIS. Understanding the effects of climate change on temperature-dependent mortality in ESA listed salmonids is critical to understanding the potential effects of the project, but CalSim-II modeling has a temporal scale ending in 2003, prior to the 2012-2016 drought and ongoing drought which have resulted in significant salmon mortality.

The SDEIS concludes that there would be no adverse effect on native salmonid species, which appears to be unsupported by the modeling results presented in Chapter 11 and Appendix 11D. The modeling results are presented as monthly averages, which may reduce the impact of high values and could suppress real temperature trends, in particular trends occurring across temperature transition months (e.g., April-May and October-November). We are also concerned that the modeling results are presented as single values without confidence intervals – all models have inherent uncertainty and knowing the range of plausible values is critical for risk evaluation and disclosure to the public and decision-makers.

Although the tables in Appendix 11D and the assessment in Chapter 11 consider the relative increase of thermal stress of the Alternatives, there does not appear to be a robust quantitative description of the level of thermal stress expected on salmon or the other fish species under the no action alternative. Such information provides critical context on the overall impact that would occur as a result of the alternatives. While it is useful to understand how project alternatives will affect temperature relative to the no-action alternative, understanding baseline and future temperature stress on native fish is crucial to contextualizing project impacts and evaluating potential tipping points.

Recommendations:

Clarify the apparently conflicting model results in Appendix 11D and consider analyzing temperature effects on fisheries using an alternative modeling approach, such as the WRLCM. The WRLCM's strengths include significant transparency (including documentation of stakeholder input on model development and applications), state of the art temperature dependent mortality modeling, highly detailed modeling of Yolo Bypass, and high frequency data of Delta tidal and export conditions in assessing passage and survival.

Conduct a temperature analysis over the period from 2003 to present, in addition to the period presented in Chapter 11 and Appendix 11D. This more recent hydrograph information is likely more representative of future conditions and could provide more accurate information on instream temperature and extent and frequency of temperature impacts. Additionally, given the greater resolution of a shorter period, analysis of 2003 to present would likely provide greater model response.

Present modeling results averaged over a shorter timeframe in the FEIS for April-May and October-November. Regardless of which biological models are used, include in the assessment results an analysis of uncertainty with confidence intervals or some other measure of the range of plausible output values.

Describe the level of thermal stress expected under the no-action alternative (NAA) as compared to known species life stage temperature thresholds used in the Appendix 11D. Such an analysis of existing thermal stress (i.e., comparison of the temperatures under the NAA to the temperature thresholds) should also be considered for the more recent period of 2003 to the present (see above comment).

From: [JoAnne Lee](#)
To: aforsythe@sitesproject.org; vking@usbr.gov; EIR-EIS-Comments@sitesproject.org
Cc: [sherri Norris](#); [Joel Sedano](#)
Subject: Comment Letter Sites Project Authority and Bureau of Reclamation
Date: Friday, January 28, 2022 10:33:03 AM
Attachments: [Comment Letter Sites Project Authority and Bureau of Reclamation.pdf](#)

Hello,

Please find the attached comment RE: Comments to Sites Project Authority and Bureau of Reclamation's Revised Draft of Environmental Impact Report and Environmental Impact Statement of North of Delta Offstream Storage (NODOS) / Sites Reservoir Project letter from the California Indian Environmental Alliance.

Thank you,

--

JoAnne "Jo-Joe" Lee, MSW Candidate
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Ms. Alicia Forsythe
Sites Project Authority
P.O. Box 517
Maxwell, CA 95955

Ms. Vanessa King
Bureau of Reclamation
2800 Cottage Way, Room W-2830
Sacramento, CA 95825

January 20, 2022

Submitted electronically to: aforsythe@sitesproject.org, vking@usbr.gov, EIR-EIS-Comments@SitesProject.org

RE: Comments to Sites Project Authority and Bureau of Reclamation's Revised Draft of Environmental Impact Report and Environmental Impact Statement of North of Delta Offstream Storage (NODOS) / Sites Reservoir Project

CIEA is writing to express our opposition to the continuation of the North of Delta Off-stream Storage Sites Reservoir Project. After reviewing the EIR/EIS, CIEA noticed a lack of meaningful consultation with Tribal Peoples within and adjacent the footprint area of the proposed project. We also noticed environmental issues that would affect Tribal People and Californians at large. CIEA asks that you withdraw the proposal and consider consulting meaningfully with Tribes.

This project will negatively impact the environment and does not honor Tribal Trust Responsibilities that the federal government has with Tribal Nations established through Treaties and agreements. Tribal Consultation in accordance with California State Assembly Bill 52 (AB-52) is missing from this process and therefore it would not be in good faith to move forward with the proposal. AB52 requires the state to invite and engage in consultation in a meaningful way with Tribes regarding Tribal cultural resources. We understand that Tribes had been invited to engage in consultation but consultation was limited to a few Tribes and there are over 20+ Tribes within and adjacent to the footprint area of the proposed project that had not been asked to offer insight and feedback on the project. Furthermore, it should not be the burden of Tribes to seek meaningful consultation by request when this is something that is required of the state to provide to Tribes.

As a result of all the above stated, we ask that the proposal be withdrawn because of non-compliance with AB-52 by the state or at least halted until meaningful consultation takes place with Tribal Nations and members in accordance with AB-52. Not all affected Tribes were outreached to appropriately. Please reach out to all Tribes who utilized the area, all of those whose source water will be utilized to fill the reservoir, and those in the receiving waters though to the Pacific Ocean.

The proposal would also tip the scales on cost-benefit analysis, giving much more weight to costs to extractive and harmful industries, while ignoring the benefits to species, especially those on the verge of extinction. We know that when we save nature, we save ecosystem services, we protect our environment, our health, and our future generations. Not only are the benefits of withdrawing this proposal better for all than for the few, the state will save money in the long run on correcting environmental impacts that will occur as a result of this proposal. We do not agree with this change and we urge you to withdraw this proposal.

We would also like to mention that aquifers naturally filter and clean. This is a key aspect of proper land management that Tribal Peoples seek to maintain collaborations with state agencies CIEA would like to note that dam water is not clean and is contaminated. The amount of mercury and PCBs found in dam water is unacceptable. We ask you to stop funding projects before EIR and EIS reports are done because of the harmful impacts and Tribes and Tribal entities having not assessed the situation and further environmental impacts. While the San Francisco Bay Area has recently confirmed they have maintained water savings, that is not the case for the agricultural, manufacturing and communities that will be the beneficiaries of this project. Instead of trying to provide more water in these areas, we should be looking to alternatives that conserve and prevent water waste.

We recommend that the Sites Project Authority and Bureau of Reclamation apply the new Tribal beneficial use definitions and water quality criteria that was adopted in California on May 2, 2017 by the State Water Resources Control Board to the water bodies impacted by this project. CIEA has supported Tribal engagement in Northern California for Tribal efforts to regionally designate traditionally used water bodies under the “new” statewide beneficial use definitions, “Tribal Subsistence Fishing” and “Tribal Cultural Uses including critical habitats for endangered species. These new definitions are now legally defensible under the Clean Water Act (CWA) and this issue areas should be part of the needed meaningful Tribal consultation.

We must remember that this is Native Land and Native people are humans and as the first Peoples of this land we seek to support the cultural continuance of Tribes to continue practicing their place-based cultures. Attached to this is the need to access to their homelands without state barriers, and to steward their lands which includes the need to protect the use of water to support regional landscapes, traditional foods and cultural uses. The proposed project and the EIR/EIS in their current state does not support Tribal traditional uses.

We encourage state and federal agencies to support Native American rights to cultural subsistence as stated by the U.N. Declaration on the Rights of Indigenous Peoples, and in California to support the intent of Governor Newsom’s apology as stated in N-15-19 and the

resulting the Truth and Healing Council to work with California Tribes to support healing, collaboration and co-management with Tribes. The best way to support Tribes in healing is to support the cultural continuance of Tribes, provide access to cultural and subsistence resources and to protect culturally sensitive areas. What is the purpose of these proclamations/policies/entities, if you're going to continue to perpetrate the mistreatment and dispossession of the Tribal People? Please uphold and protect not only the cultural practices and the continuance of California Native Peoples.

Please join us in recommending the project and all actions involving the proposed project be halted until all Tribes, within and outside the footprint area, are meaningfully consulted. False statements made within the reports should be reinvestigated and corrected. Therefore, the Sites Authority and Bureau of Reclamation need to conduct proper EIR and EIS with Tribal involvement and Tribal consultation with all Tribes needs to be completed before this project continues.

Thank you,



Sherri Norris

Executive Director

California Indian Environmental Alliance

sherri@cieaweb.org / www.cieaweb.org



Ms. Alicia Forsythe
Sites Project Authority
P.O. Box 517
Maxwell, CA 95955

Ms. Vanessa King
Bureau of Reclamation
2800 Cottage Way, Room W-2830
Sacramento, CA 95825

January 20, 2022

Submitted electronically to: aforsythe@sitesproject.org, vking@usbr.gov, EIR-EIS-Comments@SitesProject.org

RE: Comments to Sites Project Authority and Bureau of Reclamation's Revised Draft of Environmental Impact Report and Environmental Impact Statement of North of Delta Offstream Storage (NODOS) / Sites Reservoir Project

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Thank you,



Sherri Norris

Executive Director

California Indian Environmental Alliance

sherri@cieaweb.org / www.cieaweb.org

From: [Anna Starkey](#)
To: ["EIR-EIS-Comments@sitesproject.org"](mailto:'EIR-EIS-Comments@sitesproject.org')
Subject: NOA of Revised Draft EIR/ Supplemental Draft EIS: Sites Reservoir Project
Date: Thursday, December 16, 2021 10:54:19 AM
Attachments: [image001.png](#)

Dear Mr. Brown,

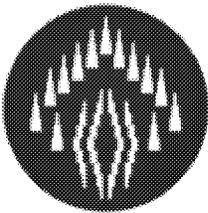
On behalf of the United Auburn Indian Community, Tribal Historic Preservation Department, thank you for the notification and opportunity to comment on the Sites Reservoir DEIR/EIS. We have reviewed the Cultural and Tribal Cultural Resources chapters that were provided to us and have the following comment:

Page 23-12 of the TCR chapter states that UAIC was contacted and provided no response. This is not correct. UAIC was contacted and emailed with Janis Offerman, Cultural Resources Practice Lead of Horizon Water and Environment, on July 22, 2021 for the Sites Reservoir Project - Notification of Proposed Project for the Purposes of CEQA Analysis. The email stated UAIC will “defer tribal consultation to affiliated tribes that are closer to this project. However, we would like to continue to receive project updates and have the opportunity to review and comment on the draft environmental report, including the cultural report. Please also let me know if other tribes are actively consulting”.

Stating in your document that UAIC was unresponsive is incorrect and should accurately reflect our input to the project.

Thank you,
 Anna Starkey

*The United Auburn Indian Community is now accepting electronic consultation request, project notifications, and requests for information! Please fill out and submit through our website. Do not mail hard copy letters or documents. <https://auburnrancheria.com/programs-services/tribal-preservation> **Bookmark this link!***



Anna M. Starkey, M.A., RPA
 Cultural Regulatory Specialist
 Tribal Historic Preservation Department | UAIC
 10720 Indian Hill Road
 Auburn, CA 95603
 Direct line: (916) 251-1565 | Cell: (530) 863-6503
astarkey@auburnrancheria.com | www.auburnrancheria.com

Nothing in this e-mail is intended to constitute an electronic signature for purposes of the Electronic Signatures in Global and National Commerce Act (E-Sign Act), 15,

U.S.C. §§ 7001 to 7006 or the Uniform Electronic Transactions Act of any state or the federal government unless a specific statement to the contrary is included in this e-mail.



February 1, 2022

Tribal Council

Anthony Roberts
Chairman

James Kinter
Secretary

Mia Durham
Treasurer

Diamond Lomeli
Member

Yvonne Perkins
Member

Via Email to: EIR-EIS-Comments@SitesProject.org

Sites Project Authority
P.O. Box 517
Maxwell, CA 95955

United States Bureau of Reclamation
2800 Cottage Way, W-2830
Sacramento, CA 95825

RE: Comments of the Yocha Dehe Wintun Nation on the Revised Draft Environmental Impact Report/Supplemental Draft Environmental Impact Statement for the Sites Reservoir Project

Dear Sir or Madam:

I write on behalf of the Yocha Dehe Wintun Nation, a federally recognized tribal government whose ancestral territory includes the land now known as Yolo County and Colusa County, to provide Yocha Dehe's initial comments on the Revised Draft Environmental Impact Report/Supplemental Draft Environmental Impact Statement ("REIR/SDEIS") for the Sites Reservoir Project.

As the Yocha Dehe Cultural Resources Department explained to Janis Offermann in early January, the REIR/SDEIS appears to have omitted important information about Tribal Cultural Resources – including village sites – within the Project footprint. Without that information, meaningful review and comment on the REIR/SDEIS – and the Project itself – is simply not possible.

We also explained to Ms. Offermann that Yocha Dehe will require a few weeks to identify, compile, and review the specific information omitted from the REIR/SDEIS, at which point the Tribe intends to submit further comments. We trust no action on the Project will be taken in the interim.

Please contact Director of Cultural Resources Laverne Bill at lbill@yochadehe-nsn.gov or Attorney General Paula Yost at pyost@yochadehe-nsn.gov if you have any questions.

Wile bo,

Anthony Roberts
Tribal Chairman

Yocha Dehe Wintun Nation

PO Box 18 Brooks, California 95606 p) 530.796.3400 f) 530.796.2143 www.yochadehe.org

Draft_0015164



February 1, 2022

Tribal Council

Anthony Roberts
Chairman

James Kinter
Secretary

Mia Durham
Treasurer

Diamond Lomeli
Member

Yvonne Perkins
Member

Via Email to: EIR-EIS-Comments@SitesProject.org

Sites Project Authority
P.O. Box 517
Maxwell, CA 95955

United States Bureau of Reclamation
2800 Cottage Way, W-2830
Sacramento, CA 95825

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Please contact Director of Cultural Resources Laverne Bill at lbill@yochadehe-nsn.gov or Attorney General Paula Yost at pyost@yochadehe-nsn.gov if you have any questions.

Wile bo,

Anthony Roberts
Tribal Chairman

Yocha Dehe Wintun Nation

PO Box 18 Brooks, California 95606 p) 530.796.3400 f) 530.796.2143 www.yochadehe.org

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SITES PROJECT - FAA FY21-22

Data Date: 01-Mar-2021
Current Date: 04-Feb-2022

Activity ID	Activity Name	Original Duration	Start	Finish	2021												2022												2023					
					Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar			
SITES PROJECT - FAA FY21-22																																		
OPERATIONS MODELING																																		
Operations Analysis for Revised Draft EIR/SDEIS																																		
OP-0600	USRDOM	27	23-Nov-2020 A	24-Feb-2021 A																														
OP-0610	HEC-5Q & RecTemp	27	23-Nov-2020 A	12-Feb-2021 A																														
OP-0620	Fish Mortality (Anderson & Martin)	27	23-Nov-2020 A	26-Feb-2021 A																														
OP-0630	SALMOD	27	23-Nov-2020 A	19-Mar-2021																														
OP-0640	DSM2 (Hydro &Qual)	27	23-Nov-2020 A	12-Feb-2021 A																														
OP-0650	IOS &DPM (Cramer)	27	23-Nov-2020 A	26-Feb-2021 A																														
OP-0660	OBAN (QEDA)	27	23-Nov-2020 A	26-Feb-2021 A																														
OP-0665	CalSim II	27	23-Nov-2020 A	03-Feb-2021 A																														
OP-0670	Mercury (RBI)	33	23-Nov-2020 A	05-Mar-2021																														
OP-0680	Reservoir Water Quality	33	23-Nov-2020 A	19-Mar-2021																														
OP-0690	Regional Power (LTGen, SWP_Power, & Sites_Power)	33	23-Nov-2020 A	22-Feb-2021 A																														
OP-0695	Project-Specific Power	5	12-Jan-2021 A	10-Mar-2021																														
OP-446	Full Operations Analysis Complete	0		19-Mar-2021	◆ Full Operations Analysis Complete																													
OP-460	Climate Change Analysis	4	23-Nov-2020 A	18-Feb-2021 A																														
Complete Operations Analysis																																		
FO\$-1110	Participant-Specific Operations	104	01-Aug-2022	30-Dec-2022																														
OS\$-1160	Operations Modeling Updates	60	03-Oct-2022*	30-Dec-2022																														
TMS-D117	WSIP Benefits Agreements	249	03-Jan-2022	30-Dec-2022																														
TMS-D157	Refined Daily Operations Modeling	145	03-Jan-2022	29-Jul-2022																														
TMS-D167	Refined Delta Water Quality Analyses	82	03-Jan-2022	29-Apr-2022																														
BA/ITP Documentation																																		
OP-360	Appendices for BA/ITP	87	01-Mar-2022	01-Jul-2022																														
OP-450	BA/ITP and Water Rights Modeling Support	327	01-Nov-2020 A	28-Feb-2022																														
OP-510	ESA Section 7 Support	249	03-Jan-2022	30-Dec-2022																														
OP-520	CESA ITP Support	249	03-Jan-2022	30-Dec-2022																														
Operations Plan, Ver 1																																		
OP-470	Operations Plan, Version 1 (\$)	225	01-Nov-2020 A	24-Nov-2021																														
OP-475	Support Development of Ops Plan Ver 1 Documentation	184	01-Mar-2021	19-Nov-2021																														
Operations Support																																		
OS-1120	Operations Support for Permitting	160	22-Nov-2021	01-Jul-2022																														
OS-1130	Operations Support for Water Rights	290	22-Nov-2021	30-Dec-2022																														
FEASIBILITY LEVEL GEOTECH																																		
Geotechnical Permitting & Planning																																		
GSR-010	Work Plans for Design Level Geologic and Geotechnical Eng Investigations	63	04-Sep-2020 A	23-Aug-2021																														
Field Investigations																																		
GSR-020	Field Data Collection Work Plan and Cost Estimate	161	04-Jan-2021 A	23-Aug-2021																														
Data Evaluation and Reporting																																		
GSR-030	Data Evaluation and Prepare Geotechnical Data Reports	159	04-Jan-2021 A	16-Sep-2021																														
GSR-040	Data Gap Assessment and Preliminary Planning for Design Level Inv for Preferred Alt	233	04-Jan-2021 A	27-Oct-2021																														
FEASIBILITY ENGINEERING																																		
Preliminary Hydraulics Modeling																																		
ENG-466	Emergency Release Flood Modeling	217	01-Sep-2020 A	16-Jul-2021																														

Actual Work
 Critical Remaining Work
 Remaining Work
 ◆ Milestone

From: Gokce Sencan [sencan@ppic.org]
Sent: 2/4/2022 4:30:17 PM
To: Alicia Forsythe [aforsythe@sitesproject.org]
Subject: RE: Quick question about Sites Reservoir release rules

Hi Ali,

Thank you for much for the explanation. The example you gave is tremendously helpful and answers my question too—that there are no restrictions from Sites’ perspective as long as the account has water, and the flows will depend on how the Ecosystem Manager decides to use that account.

Thank you again and have a good weekend!
Gokce

Gokce Sencan
she | her | hers
Research Associate
PPIC Water Policy Center

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From: Alicia Forsythe <aforsythe@sitesproject.org>
Sent: Wednesday, February 2, 2022 1:27 PM
To: Gokce Sencan <sencan@ppic.org>
Subject: RE: Quick question about Sites Reservoir release rules

Hi Gokce – It would really depend on hydrology and how the Ecosystem Manager decides to manage the account. So there is no prohibition or constraint from Sites’ perspective. Its simply how the account would be managed. Here’s an example (which doesn’t take into account evaporation losses to keep it simple) –

Year 1 – Assuming total storage amount of 250,000 AF and the ecosystem account “filled” this year, so there is 250,000 AF in storage. The ecosystem manager calls on 150,000 AF for release and thus there is 100,000 AF left in the account at the end of the year.

Year 2 – It’s a dry year, but we’re able to divert a little. So an additional 10,000 AF was added to the ecosystem account (their proportional share of the limited diversion in the dry year). The account balance is now 110,000 AF and the ecosystem manager calls on all of it as there is some critical need. There is nothing left in the account at the end of the year.

Year 3 – The ecosystem account is empty to start the year. The only available water would be the proportional share of any diversions that year.

In this case, the account would be “dry” to start Year 3 and would be limited to any diversions in that year.

Conversely in all of this, the ecosystem manager can allocate out less water and leave more in the account in case future years are dry. It really would depend on how aggressively or conservatively the manager would want to manage the account, in combination with all other (hopefully) ecosystem water sources.

So its highly variable and really depends on how the account is managed. But we don't anticipate Sites putting any limitation or constraint on how the ecosystem manager manages the account – its really up to them to make these decisions.

Hope this helps!

Ali

Alicia Forsythe | Environmental Planning and Permitting Manager | Sites Project Authority | 916.880.0676 |
aforsythe@sitesproject.org | www.SitesProject.org

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From: Gokce Sencan <sencan@ppic.org>
Sent: Tuesday, February 1, 2022 4:01 PM
To: Alicia Forsythe <aforsythe@sitesproject.org>
Subject: Quick question about Sites Reservoir release rules

Hi Ali,

I hope your week is going well. I have a very quick question about the release rules. I noticed that some of the other WSIP projects (the conjunctive use ones in particular) might not be able to provide water for the environment after three consecutive dry/critically dry years. So just to confirm, are there any hydrological constraints similar to these (duration of the drought, reservoir levels etc.) that might impede environmental water releases from Sites?

Thank you very much for your patience as our team navigates the complicated world of Prop 1. I truly appreciate your help and time.

Best,
Gokce

Gokce Sencan
she | her | hers
Research Associate
PPIC Water Policy Center

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From: Gokce Sencan
Sent: Monday, January 24, 2022 12:06 PM

To: 'Alicia Forsythe' <aforsythe@sitesproject.org>

Subject: RE: Sites - Prop 1 Presentation

Thank you so much Ali!

Best,
Gokce

Gokce Sencan
she | her | hers
Research Associate
PPIC Water Policy Center

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From: Alicia Forsythe <aforsythe@sitesproject.org>

Sent: Sunday, January 23, 2022 2:52 PM

To: Gokce Sencan <sencan@ppic.org>

Subject: RE: Sites - Prop 1 Presentation

Hi Gokce – Attached are the tables showing releases from Sites (no transportation losses).

Ali

Alicia Forsythe | Environmental Planning and Permitting Manager | Sites Project Authority | 916.880.0676 |
aforsythe@sitesproject.org | www.SitesProject.org

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From: Gokce Sencan <sencan@ppic.org>

Sent: Wednesday, January 19, 2022 5:24 PM

To: Alicia Forsythe <aforsythe@sitesproject.org>

Subject: RE: Sites - Prop 1 Presentation

Hi Ali,

Thank you very much for providing this document, this was exactly the kind of information I was looking for! It would be great if you could also share the volumes without transportation losses.

Thank you again for your help with this!
Gokce

Gokce Sencan
she | her | hers

Research Associate
PPIC Water Policy Center

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From: Alicia Forsythe <aforsythe@sitesproject.org>
Sent: Wednesday, January 19, 2022 12:39 PM
To: Gokce Sencan <sencan@ppic.org>
Subject: RE: Sites - Prop 1 Presentation

Gokce - Thanks for the email. Attached is a document that summarizes the Project's Proposition 1 benefits and provides a summary table of ecosystem benefits by water year type. Note that the water year type estimates for the refuge deliveries are deliveries at the refuge boundaries – so there is more Prop 1 water but some is removed for transportation losses. The same is true for the Yolo Bypass water, but there are minimal losses for this use. The 2030 and 2070 results in the attached are using different climate change scenarios in the CALSIM modeling.

Does this help? Would it be more useful for you to have the attached without transportation losses?

Ali

Alicia Forsythe | Environmental Planning and Permitting Manager | Sites Project Authority | 916.880.0676 |
aforsythe@sitesproject.org | www.SitesProject.org

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From: Gokce Sencan <sencan@ppic.org>
Sent: Tuesday, January 18, 2022 2:53 PM
To: Alicia Forsythe <aforsythe@sitesproject.org>
Subject: RE: Sites - Prop 1 Presentation

Hi Ali,

I hope you are doing well. I have a quick question about the presentation that you shared with us a few weeks ago. In the presentation, it says that the Sites Reservoir is projected to provide 30-32 TAF/year to the Yolo Bypass, and it mentions that this is a long-term average flow. Similarly, the annual average refuge supply is expected to be around 20 TAF/year. My question is, are there any rules to these releases? For example, do you know how many times you would provide the water, and at what volumes, throughout the project's lifespan? Or are these flows going to be provided consistently every year? We are just trying to get a sense of the environmental water supply frequency and the total water volume in the release years.

Thank you so much! I'm happy to answer any questions that you might have.

Best,
Gokce

Draft_0015171

Gokce Sencan
she | her | hers
Research Associate
PPIC Water Policy Center

PUBLIC POLICY
INSTITUTE OF CALIFORNIA
500 Washington Street, Suite 600
San Francisco, CA 94111
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If you'd like to get emails about new Water Policy Center publications and events, please sign up [here](#).

Any opinions expressed in this message are those of the author alone and do not necessarily reflect any position of the Public Policy Institute of California.

From: Alicia Forsythe <aforsythe@sitesproject.org>
Sent: Wednesday, December 29, 2021 3:15 PM
To: Jeffrey Mount <mount.jeffrey@gmail.com>; Gokce Sencan <sencan@ppic.org>
Subject: Sites - Prop 1 Presentation

This is dated, but might be helpful.

Ali

Alicia Forsythe | Environmental Planning and Permitting Manager | Sites Project Authority | 916.880.0676 |
aforsythe@sitesproject.org | www.SitesProject.org

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TO: Ad Hoc Legislative & Outreach Committee
DATE: TBD
SUBJECT: State Government Affairs/Legislative Priorities

The Government Affairs Team have developed the following state government affairs/legislative priorities to focus our activities to align with key Amendment 3 milestones and align in a coordinated manner with our federal government affairs/legislative activities. This document covers the revised priorities thru December 31, 2022.

STATE FUNDING

Proposition 1/CWC

- Pursue opportunities to secure additional WSIP funding should additional funding become available
 - Approximately **\$64 million** in unallocated WSIP funds are remaining that may be available to increase funding for Sites which is the only Rank 3 project that has not been fully funded.
 - Work with other Prop 1 Storage project proponents to secure inflation adjustments and coverage of State O&M cost.
 - Explore the potential for increasing the WSIP Early Funding that was awarded to the project from 5% to something greater. The current 5% allocation is scheduled to be expended by end of 2022.

Other State Appropriations/Bonds/Grants

- Pursue opportunities from potential **state bond measures** or **budget surplus funding** to offset project costs or to achieve beneficial financing mechanisms related to climate change adaptation, infrastructure development, drought resiliency, water resources and flood control.
- Potentially apply for loan funding through the **California Infrastructure and Economic Development Bank (IBank)** or other state programs for appropriate/eligible project components.
- Continue to track and pursue opportunities for state appropriations/grants to 1) offset project cost as appropriate for transportation, economic/workforce development, flood control, infrastructure planning, operations & maintenance, etc. 2) assist other local development through the use of Sites funding as cost share match for their grant assistance efforts.

STATE AGENCY COORDINATION

- Seek legislative assistance where needed to support
 - Development of the **DWR/SWP Coordinated Operations Agreement**.
 - Monitor activities of Sites/SWP Participants in their efforts to achieve agreement in principle (AIP) with DWR and other SWC's regarding the coordination of Sites into water management
 - Completion of the **Final Draft Environmental Impact Report (EIR)**.
 - Coordinate with USBR's development of the Recirculated Draft Environmental Impact Statement (EIS).
 - Advance the Authority's **water rights application**.
 - Submit permit applications for CDFW for **ITP**.
 - Initiate coordination with Division of Safety of Dams (DSOD) in developing plan for geotechnical investigations at dam site.
 - Coordinate with other Prop 1 storage project proponents on general benefit agreement development to ensure terms and conditions of the Sites contracts are acceptable.

ELECTED OFFICIAL ENGAGEMENT & NGO OUTREACH

- Ongoing engagement with state elected officials and their staff, administration officials and state agency leadership.
 - Planning for a State Legislative Day in **2nd Quarter 2022**. (In-person or virtual)
- Ongoing engagement with regional/local elected officials (Supervisors & City Council) and local government agencies.
 - Presentations to regional/local electeds (Counties, Cities, Special Districts).
- Ongoing engagement with public policy NGOs and Associations. Continued development of a state-wide project coalition.

Other items that do not require legislative/government affairs action but are administrative in nature are listed below. We will need to keep our legislators informed on progress of these items so that they can step in when/if needed to assist in keeping them on the timeline required to support the project schedule.

State Permitting - Ongoing consultation with state agencies to secure required state permits and agreements to advance the project.

Regional/Local Permitting & Agreements – Ongoing consultation and coordination with regional and local governmental agencies to advance necessary permits and agreements to advance the project.

EIR Public Outreach - Coordinate with appropriate state agencies on any public outreach activities associated with a recirculated EIR. AB 52 engagement with tribes and continued consultation activities. General community relations activities with the local community, project stakeholders, and the general public.



February 4, 2022

Mr. Charlie Wright, Chair
Cortina Indian Rancheria of Wintun Indians
P.O. Box 1630
Williams, CA 95987

Subject: Courtesy Notification of Consultation Opportunity pursuant to Assembly Bill 52 (Public Resources Code § 21080.3.1) for the proposed Sites Geotechnical Investigations; Sites Reservoir Project in Glenn, Colusa, and Yolo Counties, California.

Dear Honorable Chairperson Wright,

This letter is a courtesy notification to the Cortina Indian Rancheria of Wintun Indians of the opportunity to request consultation from the Sites Project Authority (Authority) regarding the proposed Sites Geotechnical Investigations (Proposed Project) under Assembly Bill 52 (AB 52), pursuant to Public Resources Code (PRC) § 21080.3.1, concerning Tribal Cultural Resources. The Proposed Project is undergoing environmental review under the California Environmental Quality Act (CEQA) for geologic, geotechnical, and geophysical exploration and testing needed to support the design of the proposed Sites Reservoir Project.¹ The proposed Sites Reservoir Project would be an approximately 1.5 million acre-foot off-stream storage reservoir with associated facilities located in Colusa, Tehama, Glenn, and Yolo Counties, California. The Authority is the lead agency under CEQA for both this Proposed Project and the Sites Reservoir Project.

Proposed Project Description

At this time, the Bureau of Reclamation (Reclamation) and the Authority are proposing additional geotechnical and geophysical investigations in Glenn, Colusa, and Yolo Counties to further inform the design and construction of the proposed Sites Reservoir and its associated facilities. The proposed work includes geologic, geotechnical, and geophysical investigations that would be implemented in various locations near Funks Reservoir in Colusa and Glenn Counties, within the proposed Sites Reservoir inundation area, and south of Dunnigan in Yolo County along the proposed Dunnigan Pipeline. Figure 1, attached, shows the Proposed Project location and the approximate areas where explorations and testing could occur, identified as the Action Area. The Action Area vicinity includes grasslands, oak woodlands, wetlands, drainages, croplands, a reservoir, dirt roads where specific access is granted by the current landowner, and developed roads, including existing county right-of-ways. The specific locations of explorations and testing activities would occur within the Action Area. Exploration and testing activities will not occur on privately held lands until access to the land has been obtained.

¹ Consultation and environmental review for the Proposed Project is separate from the Sites Reservoir Project, for which the Authority offered the opportunity to consult under AB 52, pursuant to PRC § 21080.3.1, concerning Tribal Cultural Resources, in February 2017. The Proposed Project is also separate from Geotechnical Field Investigations conducted and consulted on in 2019-2019, relevant to the Glenn and Colusa Counties, only.



P.O. Box 517
Maxwell, CA 95965
530.438.2309

Geologic mapping surveys are needed to map the existing geology of the proposed inundation area, proposed conveyance facilities, and roads and would be performed on foot within areas immediately surrounding Funks Reservoir and lands between the existing reservoir and the proposed Sites Reservoir inundation area including lands south of Hunters Creek, east and south of Funks Creek, adjacent to Maxwell Sites Road, and throughout the proposed Dunnigan Pipeline corridor. The geotechnical investigations would include up to 70 pavement cores, 258 augers and borings, and 33 cone penetration test probes throughout the proposed Sites Reservoir inundation area and associated conveyance facilities in Glenn and Yolo Counties. In addition, approximately 70 piezometers/wells are proposed at select auger or boring locations. The geophysical surveys would be comprised of up to 100 transect lines in portions of the Proposed Project area within the Sites Reservoir inundation area in Glenn and Colusa counties. Up to 16 geologic pedestrian surveys are also proposed in the Action Area. With the exception of subsurface geotechnical investigations (i.e., borings), much of the proposed field work would be minimally invasive. Equipment, vehicles, and materials would be temporarily staged at each work area. Investigation areas would be returned to existing conditions upon completion of activities. The anticipated number and types of geotechnical investigations are listed in Table 1 along with anticipated depth of disturbance.

Table 1. Investigation Type and Approximate Number with Depth of Disturbance

Investigation Type	Approximate Number of Investigations	Depth of Disturbance
Pavement Cores	70	3 feet below grade
Augers and Borings	258	Varying from 20 to 550 feet below grade
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Geologic mapping surveys	16	Non-invasive
Geophysics survey at each investigation point	348	Non-invasive

The proposed geotechnical sample collection and testing activities are scheduled to occur between June 2022 and December 2024. Tribal monitors will be invited to be present during Geotechnical Investigations and archaeological monitors will be present during Geotechnical Investigations.

Consultation

The Authority is providing this courtesy notification to the Cortina Indian Rancheria of Wintun Indians of the opportunity to request consultation regarding the potential for the Proposed Project to impact Tribal Cultural Resources. Tribal Cultural Resources, as defined under PRC § 21074, include sites, features, cultural landscapes, sacred places, and objects with cultural value to a California Native American Tribe. The purpose of tribal consultation under Section 21080.3.1 is to determine, as part of the CEQA review process, whether Tribal Cultural Resources are present within the Proposed Project Action Area, and if so, whether the Proposed Project will significantly impact those resources. If Tribal Cultural Resources may be significantly impacted, then consultation will also help to determine the most

appropriate way to avoid or mitigate those impacts. The Authority intends to prepare a CEQA initial study/mitigated negative declaration (combined with a National Environmental Policy Act environmental assessment) for the Proposed Project, unless information indicating significant impacts on cultural resources comes to light through the consultation process.

At this time, the Authority respectfully request any available information on the location and nature of Tribal Cultural Resources that may be found within or immediately adjacent to the Proposed Project Action Area. The Authority understands that locations of resources are sensitive; resource locations will not be disclosed in public documents and will be kept confidential as provided for under California Government Code § 6254.10. Specifically, we seek your input on the following types of resources so that they may be avoided or protected to the maximum extent possible:

- Prehistoric archaeological sites and features,
- Sacred lands or locations that are important in Native American culture,
- Places that the Native American community continues to use for ongoing cultural practices, and
- Historic-era resources.

Pursuant to PRC § 21080.3.1 (b), the Authority requests a response in writing within 30 days if Cortina Indian Rancheria of Wintun Indians would like to participate in formal AB 52 consultation concerning the Proposed Project. With the request, please provide the name and contact information of the designated lead contact person. The Authority will contact the designated person to set a meeting date to begin consultation within 30 days of receipt of the request. If you have any questions or wish to consult on the Proposed Project, please contact the Authority's Lead Agency Point of Contact for AB 52 consultation:

Alicia Forsythe, Environmental Planning and Permitting Manager
Sites Project Authority
P.O. Box 517
Maxwell, CA 95955
Phone: (916) 880-0676
Email: aforsythe@sitesproject.org

If Cortina Indian Rancheria of Wintun Indians notifies the Authority in writing that the Proposed Project does not involve any Tribal Cultural Resources of concern, then consultation under AB 52 will be considered concluded. If the Authority does not receive a written request to consult within 30 calendar days, it will be assumed that the Tribe declines the invitation to formally consult under AB 52. However, the Authority is committed to working with Cortina Indian Rancheria of Wintun Indians to properly account for and manage resources important to the Cortina Indian Rancheria of Wintun Indians, and we welcome any recommendations regarding appropriate management or treatment of resources that occur within the Proposed Project Action Area. This notification does not limit the ability of the Tribe to submit information to the Authority (PRC § 21080.3.2(c)(1)).

Honorable Chairperson Wright
Cortina Indian Rancheria of Wintun Indians
Page 4 of 4

Thank you for giving this matter your prompt attention. Please contact Alicia Forsythe at the contact information above if you have any questions regarding this request.

Sincerely,

A handwritten signature in black ink, appearing to read "Jerry Brown". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

Jerry Brown
Executive Director

Attachment: Figure 1 – Project Location and Action Area Map



February 4, 2022

Ms. Glenda Nelson, Chairperson
Estom Yumeka Maidu Tribe of the Enterprise Rancheria
2133 Monte Vista Avenue
Orville, CA 95966

Subject: Courtesy Notification of Consultation Opportunity pursuant to Assembly Bill 52 (Public Resources Code § 21080.3.1) for the proposed Sites Geotechnical Investigations; Sites Reservoir Project in Glenn, Colusa, and Yolo Counties, California.

Dear Honorable Chairperson Nelson,

This letter is a courtesy notification to the Estom Yumeka Maidu Tribe of the Enterprise Rancheria of the opportunity to request consultation from the Sites Project Authority (Authority) regarding the proposed Sites Geotechnical Investigations (Proposed Project) under Assembly Bill 52 (AB 52), pursuant to Public Resources Code (PRC) § 21080.3.1, concerning Tribal Cultural Resources. The Proposed Project is undergoing environmental review under the California Environmental Quality Act (CEQA) for geologic, geotechnical, and geophysical exploration and testing needed to support the design of the proposed Sites Reservoir Project.¹ The proposed Sites Reservoir Project would be an approximately 1.5 million acre-foot off-stream storage reservoir with associated facilities located in Colusa, Tehama, Glenn, and Yolo Counties, California. The Authority is the lead agency under CEQA for both this Proposed Project and the Sites Reservoir Project.

Proposed Project Description

At this time, the Bureau of Reclamation (Reclamation) and the Authority are proposing additional geotechnical and geophysical investigations in Glenn, Colusa, and Yolo Counties to further inform the design and construction of the proposed Sites Reservoir and its associated facilities. The proposed work includes geologic, geotechnical, and geophysical investigations that would be implemented in various locations near Funks Reservoir in Colusa and Glenn Counties, within the proposed Sites Reservoir inundation area, and south of Dunnigan in Yolo County along the proposed Dunnigan Pipeline. Figure 1, attached, shows the Proposed Project location and the approximate areas where explorations and testing could occur, identified as the Action Area. The Action Area vicinity includes grasslands, oak woodlands, wetlands, drainages, croplands, a reservoir, dirt roads where specific access is granted by the current landowner, and developed roads, including existing county right-of-ways. The specific locations of explorations and testing activities would occur within the Action Area. Exploration and testing activities will not occur on privately held lands until access to the land has been obtained.

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P.O. Box 517
Maxwell, CA 95965
530.438.2309

Geologic mapping surveys are needed to map the existing geology of the proposed inundation area, proposed conveyance facilities, and roads and would be performed on foot within areas immediately surrounding Funks Reservoir and lands between the existing reservoir and the proposed Sites Reservoir inundation area including lands south of Hunters Creek, east and south of Funks Creek, adjacent to Maxwell Sites Road, and throughout the proposed Dunnigan Pipeline corridor. The geotechnical investigations would include up to 70 pavement cores, 258 augers and borings, and 33 cone penetration test probes throughout the proposed Sites Reservoir inundation area and associated conveyance facilities in Glenn and Yolo Counties. In addition, approximately 70 piezometers/wells are proposed at select auger or boring locations. The geophysical surveys would be comprised of up to 100 transect lines in portions of the Proposed Project area within the Sites Reservoir inundation area in Glenn and Colusa counties. Up to 16 geologic pedestrian surveys are also proposed in the Action Area. With the exception of subsurface geotechnical investigations (i.e., borings), much of the proposed field work would be minimally invasive. Equipment, vehicles, and materials would be temporarily staged at each work area. Investigation areas would be returned to existing conditions upon completion of activities. The anticipated number and types of geotechnical investigations are listed in Table 1 along with anticipated depth of disturbance.

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- Places that the Native American community continues to use for ongoing cultural practices, and
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Pursuant to PRC § 21080.3.1 (b), the Authority requests a response in writing within 30 days if Estom Yumeka Maidu Tribe of the Enterprise Rancheria would like to participate in formal AB 52 consultation concerning the Proposed Project. With the request, please provide the name and contact information of the designated lead contact person. The Authority will contact the designated person to set a meeting date to begin consultation within 30 days of receipt of the request. If you have any questions or wish to consult on the Proposed Project, please contact the Authority's Lead Agency Point of Contact for AB 52 consultation:

Alicia Forsythe, Environmental Planning and Permitting Manager
Sites Project Authority
P.O. Box 517
Maxwell, CA 95955
Phone: (916) 880-0676
Email: aforsythe@sitesproject.org

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Honorable Chairperson Nelson
Estom Yumeka Maidu Tribe of the Enterprise Rancheria
Page 4 of 4

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Sincerely,

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Jerry Brown
Executive Director

Attachment: Figure 1 – Project Location and Action Area Map



February 4, 2022

Mr. Ronald Kirk, Chairperson
Grindstone Indian Rancheria of Wintun-Wailaki
P.O. Box 63
Elk Creek, CA 95939

Subject: Courtesy Notification of Consultation Opportunity pursuant to Assembly Bill 52 (Public Resources Code § 21080.3.1) for the proposed Sites Geotechnical Investigations; Sites Reservoir Project in Glenn, Colusa, and Yolo Counties, California.

Dear Honorable Chairperson Kirk,

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Pursuant to PRC § 21080.3.1 (b), the Authority requests a response in writing within 30 days if Grindstone Indian Rancheria of Wintun-Wailaki would like to participate in formal AB 52 consultation concerning the Proposed Project. With the request, please provide the name and contact information of the designated lead contact person. The Authority will contact the designated person to set a meeting date to begin consultation within 30 days of receipt of the request. If you have any questions or wish to consult on the Proposed Project, please contact the Authority's Lead Agency Point of Contact for AB 52 consultation:

Alicia Forsythe, Environmental Planning and Permitting Manager
Sites Project Authority
P.O. Box 517
Maxwell, CA 95955
Phone: (916) 880-0676
Email: aforsythe@sitesproject.org

If Grindstone Indian Rancheria of Wintun-Wailaki notifies the Authority in writing that the Proposed Project does not involve any Tribal Cultural Resources of concern, then consultation under AB 52 will be considered concluded. If the Authority does not receive a written request to consult within 30 calendar days, it will be assumed that the Tribe declines the invitation to formally consult under AB 52. However, the Authority is committed to working with Grindstone Indian Rancheria of Wintun-Wailaki to properly account for and manage resources important to the Grindstone Indian Rancheria of Wintun-Wailaki, and we welcome any recommendations regarding appropriate management or treatment of resources that occur within the Proposed Project Action Area. This notification does not limit the ability of the Tribe to submit information to the Authority (PRC § 21080.3.2(c)(1)).

Honorable Chairperson Kirk
Grindstone Indian Rancheria of Wintun-Wailaki
Page 4 of 4

Thank you for giving this matter your prompt attention. Please contact Alicia Forsythe at the contact information above if you have any questions regarding this request.

Sincerely,

A handwritten signature in black ink, appearing to read "Jerry Brown". The signature is fluid and cursive, with a large, stylized "J" and "B".

Jerry Brown
Executive Director

Attachment: Figure 1 – Project Location and Action Area Map



February 4, 2022

Mr. Dennis Ramirez, Chairperson
Mechoopda Indian Tribe of the Chico Rancheria
125 Mission Ranch Blvd.
Chico, CA 95926

Subject: Courtesy Notification of Consultation Opportunity pursuant to Assembly Bill 52 (Public Resources Code § 21080.3.1) for the proposed Sites Geotechnical Investigations; Sites Reservoir Project in Glenn, Colusa, and Yolo Counties, California.

Dear Honorable Chairperson Ramirez,

This letter is a courtesy notification to the Mechoopda Indian Tribe of the Chico Rancheria of the opportunity to request consultation from the Sites Project Authority (Authority) regarding the proposed Sites Geotechnical Investigations (Proposed Project) under Assembly Bill 52 (AB 52), pursuant to Public Resources Code (PRC) § 21080.3.1, concerning Tribal Cultural Resources. The Proposed Project is undergoing environmental review under the California Environmental Quality Act (CEQA) for geologic, geotechnical, and geophysical exploration and testing needed to support the design of the proposed Sites Reservoir Project.¹ The proposed Sites Reservoir Project would be an approximately 1.5 million acre-foot off-stream storage reservoir with associated facilities located in Colusa, Tehama, Glenn, and Yolo Counties, California. The Authority is the lead agency under CEQA for both this Proposed Project and the Sites Reservoir Project.

Proposed Project Description

At this time, the Bureau of Reclamation (Reclamation) and the Authority are proposing additional geotechnical and geophysical investigations in Glenn, Colusa, and Yolo Counties to further inform the design and construction of the proposed Sites Reservoir and its associated facilities. The proposed work includes geologic, geotechnical, and geophysical investigations that would be implemented in various locations near Funks Reservoir in Colusa and Glenn Counties, within the proposed Sites Reservoir inundation area, and south of Dunnigan in Yolo County along the proposed Dunnigan Pipeline. Figure 1, attached, shows the Proposed Project location and the approximate areas where explorations and testing could occur, identified as the Action Area. The Action Area vicinity includes grasslands, oak woodlands, wetlands, drainages, croplands, a reservoir, dirt roads where specific access is granted by the current landowner, and developed roads, including existing county right-of-ways. The specific locations of explorations and testing activities would occur within the Action Area. Exploration and testing activities will not occur on privately held lands until access to the land has been obtained.

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P.O. Box 517
Maxwell, CA 95965
530.438.2309

Geologic mapping surveys are needed to map the existing geology of the proposed inundation area, proposed conveyance facilities, and roads and would be performed on foot within areas immediately surrounding Funks Reservoir and lands between the existing reservoir and the proposed Sites Reservoir inundation area including lands south of Hunters Creek, east and south of Funks Creek, adjacent to Maxwell Sites Road, and throughout the proposed Dunnigan Pipeline corridor. The geotechnical investigations would include up to 70 pavement cores, 258 augers and borings, and 33 cone penetration test probes throughout the proposed Sites Reservoir inundation area and associated conveyance facilities in Glenn and Yolo Counties. In addition, approximately 70 piezometers/wells are proposed at select auger or boring locations. The geophysical surveys would be comprised of up to 100 transect lines in portions of the Proposed Project area within the Sites Reservoir inundation area in Glenn and Colusa counties. Up to 16 geologic pedestrian surveys are also proposed in the Action Area. With the exception of subsurface geotechnical investigations (i.e., borings), much of the proposed field work would be minimally invasive. Equipment, vehicles, and materials would be temporarily staged at each work area. Investigation areas would be returned to existing conditions upon completion of activities. The anticipated number and types of geotechnical investigations are listed in Table 1 along with anticipated depth of disturbance.

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Pavement Cores	70	3 feet below grade
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The proposed geotechnical sample collection and testing activities are scheduled to occur between June 2022 and December 2024. Tribal monitors will be invited to be present during Geotechnical Investigations and archaeological monitors will be present during Geotechnical Investigations.

Consultation

The Authority is providing this courtesy notification to the Mechoopda Indian Tribe of the Chico Rancheria of the opportunity to request consultation regarding the potential for the Proposed Project to impact Tribal Cultural Resources. Tribal Cultural Resources, as defined under PRC § 21074, include sites, features, cultural landscapes, sacred places, and objects with cultural value to a California Native American Tribe. The purpose of tribal consultation under Section 21080.3.1 is to determine, as part of the CEQA review process, whether Tribal Cultural Resources are present within the Proposed Project Action Area, and if so, whether the Proposed Project will significantly impact those resources. If Tribal Cultural Resources may be significantly impacted, then consultation will also help to determine the most

appropriate way to avoid or mitigate those impacts. The Authority intends to prepare a CEQA initial study/mitigated negative declaration (combined with a National Environmental Policy Act environmental assessment) for the Proposed Project, unless information indicating significant impacts on cultural resources comes to light through the consultation process.

At this time, the Authority respectfully request any available information on the location and nature of Tribal Cultural Resources that may be found within or immediately adjacent to the Proposed Project Action Area. The Authority understands that locations of resources are sensitive; resource locations will not be disclosed in public documents and will be kept confidential as provided for under California Government Code § 6254.10. Specifically, we seek your input on the following types of resources so that they may be avoided or protected to the maximum extent possible:

- Prehistoric archaeological sites and features,
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Pursuant to PRC § 21080.3.1 (b), the Authority requests a response in writing within 30 days if Mechoopda Indian Tribe of the Chico Rancheria would like to participate in formal AB 52 consultation concerning the Proposed Project. With the request, please provide the name and contact information of the designated lead contact person. The Authority will contact the designated person to set a meeting date to begin consultation within 30 days of receipt of the request. If you have any questions or wish to consult on the Proposed Project, please contact the Authority's Lead Agency Point of Contact for AB 52 consultation:

Alicia Forsythe, Environmental Planning and Permitting Manager
Sites Project Authority
P.O. Box 517
Maxwell, CA 95955
Phone: (916) 880-0676
Email: aforsythe@sitesproject.org

If Mechoopda Indian Tribe of the Chico Rancheria notifies the Authority in writing that the Proposed Project does not involve any Tribal Cultural Resources of concern, then consultation under AB 52 will be considered concluded. If the Authority does not receive a written request to consult within 30 calendar days, it will be assumed that the Tribe declines the invitation to formally consult under AB 52. However, the Authority is committed to working with Mechoopda Indian Tribe of the Chico Rancheria to properly account for and manage resources important to the Mechoopda Indian Tribe of the Chico Rancheria, and we welcome any recommendations regarding appropriate management or treatment of resources that occur within the Proposed Project Action Area. This notification does not limit the ability of the Tribe to submit information to the Authority (PRC § 21080.3.2(c)(1)).

Honorable Chairperson Ramirez
Mechoopda Indian Tribe of the Chico Rancheria
Page 4 of 4

Thank you for giving this matter your prompt attention. Please contact Alicia Forsythe at the contact information above if you have any questions regarding this request.

Sincerely,

A handwritten signature in black ink, appearing to read "Jerry Brown". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

Jerry Brown
Executive Director

Cc: Kyle McHenry, Tribal Historic Preservation Officer
Mechoopda Indian Tribe of the Chico Rancheria
125 Mission Ranch Blvd.
Chico, CA 95926

Attachment: Figure 1 – Project Location and Action Area Map



February 4, 2022

Mr. Andrew Alejandre, Chairperson
Paskenta Band of Nomlaki Indians
P.O. Box 709
Corning, CA 96021

Subject: Courtesy Notification of Consultation Opportunity pursuant to Assembly Bill 52 (Public Resources Code § 21080.3.1) for the proposed Sites Geotechnical Investigations; Sites Reservoir Project in Glenn, Colusa, and Yolo Counties, California.

Dear Honorable Chairperson Alejandre,

This letter is a courtesy notification to the Paskenta Band of Nomlaki Indians of the opportunity to request consultation from the Sites Project Authority (Authority) regarding the proposed Sites Geotechnical Investigations (Proposed Project) under Assembly Bill 52 (AB 52), pursuant to Public Resources Code (PRC) § 21080.3.1, concerning Tribal Cultural Resources. The Proposed Project is undergoing environmental review under the California Environmental Quality Act (CEQA) for geologic, geotechnical, and geophysical exploration and testing needed to support the design of the proposed Sites Reservoir Project.¹ The proposed Sites Reservoir Project would be an approximately 1.5 million acre-foot off-stream storage reservoir with associated facilities located in Colusa, Tehama, Glenn, and Yolo Counties, California. The Authority is the lead agency under CEQA for both this Proposed Project and the Sites Reservoir Project.

Proposed Project Description

At this time, the Bureau of Reclamation (Reclamation) and the Authority are proposing additional geotechnical and geophysical investigations in Glenn, Colusa, and Yolo Counties to further inform the design and construction of the proposed Sites Reservoir and its associated facilities. The proposed work includes geologic, geotechnical, and geophysical investigations that would be implemented in various locations near Funks Reservoir in Colusa and Glenn Counties, within the proposed Sites Reservoir inundation area, and south of Dunnigan in Yolo County along the proposed Dunnigan Pipeline. Figure 1, attached, shows the Proposed Project location and the approximate areas where explorations and testing could occur, identified as the Action Area. The Action Area vicinity includes grasslands, oak woodlands, wetlands, drainages, croplands, a reservoir, dirt roads where specific access is granted by the current landowner, and developed roads, including existing county right-of-ways. The specific locations of explorations and testing activities would occur within the Action Area. Exploration and testing activities will not occur on privately held lands until access to the land has been obtained.

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Geologic mapping surveys are needed to map the existing geology of the proposed inundation area, proposed conveyance facilities, and roads and would be performed on foot within areas immediately surrounding Funks Reservoir and lands between the existing reservoir and the proposed Sites Reservoir inundation area including lands south of Hunters Creek, east and south of Funks Creek, adjacent to Maxwell Sites Road, and throughout the proposed Dunnigan Pipeline corridor. The geotechnical investigations would include up to 70 pavement cores, 258 augers and borings, and 33 cone penetration test probes throughout the proposed Sites Reservoir inundation area and associated conveyance facilities in Glenn and Yolo Counties. In addition, approximately 70 piezometers/wells are proposed at select auger or boring locations. The geophysical surveys would be comprised of up to 100 transect lines in portions of the Proposed Project area within the Sites Reservoir inundation area in Glenn and Colusa counties. Up to 16 geologic pedestrian surveys are also proposed in the Action Area. With the exception of subsurface geotechnical investigations (i.e., borings), much of the proposed field work would be minimally invasive. Equipment, vehicles, and materials would be temporarily staged at each work area. Investigation areas would be returned to existing conditions upon completion of activities. The anticipated number and types of geotechnical investigations are listed in Table 1 along with anticipated depth of disturbance.

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The proposed geotechnical sample collection and testing activities are scheduled to occur between June 2022 and December 2024. Tribal monitors will be invited to be present during Geotechnical Investigations and archaeological monitors will be present during Geotechnical Investigations.

Consultation

The Authority is providing this courtesy notification to the Paskenta Band of Nomlaki Indians of the opportunity to request consultation regarding the potential for the Proposed Project to impact Tribal Cultural Resources. Tribal Cultural Resources, as defined under PRC § 21074, include sites, features, cultural landscapes, sacred places, and objects with cultural value to a California Native American Tribe. The purpose of tribal consultation under Section 21080.3.1 is to determine, as part of the CEQA review process, whether Tribal Cultural Resources are present within the Proposed Project Action Area, and if so, whether the Proposed Project will significantly impact those resources. If Tribal Cultural Resources may be significantly impacted, then consultation will also help to determine the most appropriate way

to avoid or mitigate those impacts. The Authority intends to prepare a CEQA initial study/mitigated negative declaration (combined with a National Environmental Policy Act environmental assessment) for the Proposed Project, unless information indicating significant impacts on cultural resources comes to light through the consultation process.

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- Prehistoric archaeological sites and features,
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- Places that the Native American community continues to use for ongoing cultural practices, and
- Historic-era resources.

Pursuant to PRC § 21080.3.1 (b), the Authority requests a response in writing within 30 days if Paskenta Band of Nomlaki Indians would like to participate in formal AB 52 consultation concerning the Proposed Project. With the request, please provide the name and contact information of the designated lead contact person. The Authority will contact the designated person to set a meeting date to begin consultation within 30 days of receipt of the request. If you have any questions or wish to consult on the Proposed Project, please contact the Authority's Lead Agency Point of Contact for AB 52 consultation:

Alicia Forsythe, Environmental Planning and Permitting Manager
Sites Project Authority
P.O. Box 517
Maxwell, CA 95955
Phone: (916) 880-0676
Email: aforsythe@sitesproject.org

If Paskenta Band of Nomlaki Indians notifies the Authority in writing that the Proposed Project does not involve any Tribal Cultural Resources of concern, then consultation under AB 52 will be considered concluded. If the Authority does not receive a written request to consult within 30 calendar days, it will be assumed that the Tribe declines the invitation to formally consult under AB 52. However, the Authority is committed to working with Paskenta Band of Nomlaki Indians to properly account for and manage resources important to the Paskenta Band of Nomlaki Indians, and we welcome any recommendations regarding appropriate management or treatment of resources that occur within the Proposed Project Action Area. This notification does not limit the ability of the Tribe to submit information to the Authority (PRC § 21080.3.2(c)(1)).

Honorable Chairperson Alejandre
Paskenta Band of Nomlaki Indians
Page 4 of 4

Thank you for giving this matter your prompt attention. Please contact Alicia Forsythe at the contact information above if you have any questions regarding this request.

Sincerely,

A handwritten signature in black ink, appearing to read "Jerry Brown". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

Jerry Brown
Executive Director

Attachment: Figure 1 – Project Location and Action Area Map



February 4, 2022

Mr. Daniel Gomez, Tribal Chairman
Colusa Indian Community Council
3730 Highway 45
Colusa, CA 95932

Subject: Formal Notification of Consultation Opportunity pursuant to Assembly Bill 52 (Public Resources Code § 21080.3.1) for the proposed Sites Geotechnical Investigations; Sites Reservoir Project in Glenn, Colusa, and Yolo Counties, California.

Dear Honorable Chairman Gomez,

This letter is a formal invitation to the Colusa Indian Community Council to consult with the Sites Project Authority (Authority) regarding the proposed Sites Geotechnical Investigations (Proposed Project) under Assembly Bill 52 (AB 52), pursuant to Public Resources Code (PRC) § 21080.3.1, concerning Tribal Cultural Resources. The Proposed Project is undergoing environmental review under the California Environmental Quality Act (CEQA) for geologic, geotechnical, and geophysical exploration and testing needed to support the design of the proposed Sites Reservoir Project.¹ The proposed Sites Reservoir Project would be an approximately 1.5 million acre-foot off-stream storage reservoir with associated facilities located in Colusa, Tehama, Glenn, and Yolo Counties, California. The Authority is the lead agency under CEQA for both this Proposed Project and the Sites Reservoir Project.

Proposed Project Description

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Geologic mapping surveys are needed to map the existing geology of the proposed inundation area, proposed conveyance facilities, and roads and would be performed on foot within areas immediately

¹ Consultation and environmental review for the Proposed Project is separate from the Sites Reservoir Project, for which the Colusa Indian Community Council and the Authority are already consulting, and is also a separate effort from the Geotechnical Field Investigations on which the Authority and the Colusa Indian Community Council have consulted in 2019 and 2020.



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Maxwell, CA 95955
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surrounding Funks Reservoir and lands between the existing reservoir and the proposed Sites Reservoir inundation area including lands south of Hunters Creek, east and south of Funks Creek, adjacent to Maxwell Sites Road, and throughout the proposed Dunnigan Pipeline corridor. The geotechnical investigations would include up to 70 pavement cores, 258 augers and borings, and 33 cone penetration test probes throughout the proposed Sites Reservoir inundation area and associated conveyance facilities in Glenn and Yolo Counties. In addition, approximately 70 piezometers/wells are proposed at select auger or boring locations. The geophysical surveys would be comprised of up to 100 transect lines in portions of the Proposed Project area within the Sites Reservoir inundation area in Glenn and Colusa counties. Up to 16 geologic pedestrian surveys are also proposed. in the Action Area. With the exception of subsurface geotechnical investigations (i.e., borings), much of the proposed field work would be minimally invasive. Equipment, vehicles, and materials would be temporarily staged at each work area. Investigation areas would be returned to existing conditions upon completion of activities. The anticipated number and types of geotechnical investigations are listed in Table 1 along with anticipated depth of disturbance.

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The proposed geotechnical sample collection and testing activities are scheduled to occur between June 2022 and December 2024. Tribal monitors will be invited to be present during Geotechnical Investigations and archaeological monitors will be present during Geotechnical Investigations.

Consultation

The Authority appreciates the assistance from Colusa Indian Community Council to date in AB 52 consultation, as well as with other state and federal legal provisions. The Authority is providing this formal invitation to consult regarding the potential for the Proposed Project to impact Tribal Cultural Resources, as defined in PRC § 21074. The purpose of tribal consultation under Section 21080.3.1 is to determine, as part of the CEQA review process, whether Tribal Cultural Resources are present within the Proposed Project Action Area, and if so, whether the Proposed Project will significantly impact those resources. If Tribal Cultural Resources may be significantly impacted, then consultation will also help to determine the most appropriate way to avoid or mitigate those impacts. The Authority intends to prepare a CEQA initial study/mitigated negative declaration (combined with a National Environmental Policy Act environmental assessment) for the Proposed Project, unless information indicating significant

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Pursuant to PRC § 21080.3.1 (b), please respond in writing within 30 days if Colusa Indian Community Council would like to participate in formal AB 52 consultation concerning the Proposed Project. With the request, please provide the name and contact information of the designated lead contact person. The Authority will contact the designated person to set a meeting date to begin consultation within 30 days of receipt of the request. If you have any questions or wish to consult on the Proposed Project, please contact the Authority's Lead Agency Point of Contact for AB 52 consultation:

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Sites Project Authority
P.O. Box 517
Maxwell, CA 95955
Phone: (916) 880-0676
Email: aforsythe@sitesproject.org

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Honorable Chairman Gomez
Colusa Indian Community Council
Page 4 of 4

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Sincerely,

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Jerry Brown
Executive Director

Cc: Oscar Serrano, P.E.
Colusa Indian Community Council
3730 Highway 45
Colusa, CA 95932

Attachment: Figure 1 – Project Location and Action Area Map



February 4, 2022

Mr. Anthony Roberts, Chairperson
Yocha Dehe Wintun Nation
P.O. Box 18
Brooks, CA 95606

Subject: Formal Notification of Consultation Opportunity pursuant to Assembly Bill 52 (Public Resources Code § 21080.3.1) for the proposed Sites Geotechnical Investigations; Sites Reservoir Project in Glenn, Colusa, and Yolo Counties, California.

Dear Honorable Chairperson Roberts,

This letter is a formal invitation to the Yocha Dehe Wintun Nation to consult with the Sites Project Authority (Authority) regarding the proposed Sites Geotechnical Investigations (Proposed Project) under Assembly Bill 52 (AB 52), pursuant to Public Resources Code (PRC) § 21080.3.1, concerning Tribal Cultural Resources. The Proposed Project is undergoing environmental review under the California Environmental Quality Act (CEQA) for geologic, geotechnical, and geophysical exploration and testing needed to support the design of the proposed Sites Reservoir Project.¹ The proposed Sites Reservoir Project would be an approximately 1.5 million acre-foot off-stream storage reservoir with associated facilities located in Colusa, Tehama, Glenn, and Yolo Counties, California. The Authority is the lead agency under CEQA for both this Proposed Project and the Sites Reservoir Project.

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530.438.2369

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Sites Project Authority
P.O. Box 517
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Honorable Chairperson Roberts
Yocha Dehe Wintun Nation
Page 4 of 4

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Sincerely,

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Jerry Brown
Executive Director

Cc: Mr. Leland Kinter, Tribal Historic Preservation Officer
Yocha Dehe Wintun Nation
P.O. Box 18
Brooks, CA 95606

Attachment: Figure 1 – Project Location and Action Area Map

From: Alicia Forsythe [aforsythe@sitesproject.org]
Sent: 2/7/2022 12:54:28 PM
To: Joe Trapasso [jtrapasso@sitesproject.org]; Jerry Brown [jbrown@sitesproject.org]; JP Robinette [JRobinette@BrwnCald.com]; Marcia Kivett [MKivett@BrwnCald.com]; Kevin Spesert [kspesert@sitesproject.org]; Joe Trapasso [jtrapasso@sitesproject.org]; jerry brown [jerry@waterologyconsulting.com]

JP - We coordinated with the Rice Commission on discharge water quality from the reservoir. We also have some water quality monitoring in the RDEIR/SDEIS.

From: Heydinger, Erin [Erin.Heydinger@hdrinc.com]
Sent: 2/7/2022 1:01:29 PM
To: Alicia Forsythe [aforsythe@sitesproject.org]
Subject: FW: State Water Contractor Workshops
Attachments: SWC_Sites EIR Presentation_01.26.2022.doc

FYI. Note in the attachment the comment:

Non-Participants want a "thorough" Workshop on DWR/Sites operational details including Sites effect on spills from San Luis Reservoir (if any). (Ray Stokes)

Not sure we'll be able to answer questions on San Luis at this point but in the spirit of your comments on Friday I wonder if it's time to understand this better.

Erin

Erin Heydinger PE, PMP
D 916.679.8863 M 651.307.9758

hdrinc.com/follow-us

From: Rob Kunde <rkunde@wrmwsd.com>
Sent: Monday, February 7, 2022 11:39 AM
To: Heydinger, Erin <Erin.Heydinger@hdrinc.com>
Cc: Bob Tincher <bobt@sbvmwd.com>
Subject: State Water Contractor Workshops

CAUTION: [EXTERNAL] This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Erin:

I would like to setup a call among the three of us (and possibly including other Sites staff and Chandra Chilmakuri) to discuss workshops targeted for the SWC.

Attached find my notes from the January 26, 2022 meeting that Bob Tincher and I had with the SWC Non-Participants. Some of them are really focused on operational details to ensure no harm to them from Sites operations. Bob and I think this is where the Workshops should be focused.

The Statement of Charges issues, included in the attached, I envision being handled on a separate track. Rob Cooke, Jeff Davis, the Sites SOC participants and I have a meeting next week to discuss this separate track.

Please advise regarding your thoughts.

Robert J. Kunde, P.E.

Retired Annuitant
Wheeler Ridge-Maricopa Water Storage District
cell: 661-345-3719 email: rkunde@wrmwsd.com

From: Conner McDonald [conner@cmdwest.com]
Sent: 2/7/2022 1:40:01 PM
To: Kevin Spesert [kspesert@sitesproject.org]; 'Joe Feyder' [jfeyder@reyengineers.com]; 'Nielsen, Caitlin' [Caitlin.Nielsen@hdrinc.com]; jlehr@reyengineers.com; corsi@reyengineers.com; OAKintunde@reyengineers.com
CC: 'Luu, Henry' [henry.luu@hdrinc.com]; 'Rude, Pete/RDD' [Pete.Rude@jacobs.com]
Subject: Sites - Land Survey - Community Awareness Training
Attachments: Sites - Land Survey - Contact List.docx

Afternoon Folks,

A roadmap for our discussion today... Other topics and questions are welcome...

Please forward to any others who may not be on this note.

Hi Joe – there is a Land Survey Contact List attached. If your team could populate their information, that'd be great.

Sites Reservoir Project – Community Awareness Training

1. Introductions	C McDonald, All
2. Meeting Purpose	C McDonald
3. Project Background <ul style="list-style-type: none"> ▪ Locally-Led Project ▪ Sites Project Authority JPA; Local Leadership ▪ Building Trust With The Local Community Over Many Years 	Real Estate Team
4. Expectations <ul style="list-style-type: none"> ▪ Consultants Represent The Authority ▪ Courtesy, Awareness, Respect ▪ Interactions With Landowners And The Community 	Real Estate Team
5. Considerations <ul style="list-style-type: none"> ▪ Operations Within A Small Community ▪ Staying Off Private Property ▪ Avoiding Impacts To The Community • eg Cattle (Colusa County and Glenn County) 	Real Estate Team
6. Communication Protocol <ul style="list-style-type: none"> ▪ Regular Reporting ▪ Group Text ▪ Specific Incident Reporting 	Real Estate Team
7. Schedule <ul style="list-style-type: none"> ▪ Overall Schedule ▪ Specific Locations for Access Coordination 	Real Estate Team
8. Open Discussion	All

Additional Field Considerations (Yolo County / Colusa County / Glenn County) may include...

1. Public inquires what is going on
2. Landowner offers access to property
3. Landowner appears upset by survey crews presence
4. Limited Cell Reception
5. No Emergency Services – All-Volunteer Fire Department
 - a. Fire Department and Sheriff's Office will be kept aware of field operations... Communication with Kevin / Conner of where the team is at and going is key
6. Harvest / Truck Traffic
7. Getting Stuck In Mud
8. Steep Cliffs / Tough Roads / Austere Conditions

CONNER McDONALD – SR/WA / *Right-of-Way Services*



c/ 530-750-9912 e/ CONNER@CMDWEST.COM

From: Joe Feyder [jfeyder@reyengineers.com]
Sent: 2/7/2022 2:20:17 PM
To: Conner McDonald [conner@cmdwest.com]
CC: 'Luu, Henry' [henry.luu@hdrinc.com]; 'Rude, Pete/RDD' [Pete.Rude@jacobs.com]; Joel Lehr [jlehr@reyengineers.com]; Kevin Spesert [kspesert@sitesproject.org]; Cameron Orsi [corsi@reyengineers.com]; Olugbala Akintunde [OAKintunde@reyengineers.com]; 'Nielsen, Caitlin' [Caitlin.Nielsen@hdrinc.com]
Subject: RE: Sites - Land Survey - Community Awareness Training
Attachments: Sites - Land Survey - Contact List.docx

Hi Conner, the attached has been updated with names/numbers.

Joe Feyder, PLS

R.E.Y. ENGINEERS, INC.

Civil Engineers | Land Surveyors | LIDAR

(916) 934-6033 cell
(916) 850-8811 direct
www.reyengineers.com

From: Conner McDonald <conner@cmdwest.com>
Sent: Monday, February 7, 2022 2:40 PM
To: 'Kevin Spesert' <kspesert@sitesproject.org>; Joe Feyder <jfeyder@reyengineers.com>; 'Nielsen, Caitlin' <Caitlin.Nielsen@hdrinc.com>; Joel Lehr <jlehr@reyengineers.com>; Cameron Orsi <corsi@reyengineers.com>; Olugbala Akintunde <OAKintunde@reyengineers.com>
Cc: 'Luu, Henry' <henry.luu@hdrinc.com>; 'Rude, Pete/RDD' <Pete.Rude@jacobs.com>
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CONNER McDONALD – SR/WA / Right-of-Way Services



c/ 530-750-9912 e/ CONNER@CMDWEST.COM

Sites Project Authority Land Management Committee Meeting Minutes



Date: October 5, 2021

Location: Maxwell / Virtual

Time: 1:30pm – 3:00pm

Leader: Supervisor Gary Evans

Recorder: Conner McDonald

Purpose: Update on Amendment 3 Geotechnical Investigations, proposed Amendment 3 Real Estate Program Activities, and Real Estate Legal Services in support of the Real Estate Program.

Attendees:

Supervisor Gary Evans (Colusa)	Jeff Sutton (TCCA)	Conner McDonald (HDR)
Supervisor Ken Hahn (Glenn)	Thad Bettner (GCID)	Henry Luu (HDR)
Mike Azevedo (Colusa)	Logan Dennis (GCID)	Jeriann Alexander (Fugro)
	Jerry Brown (Sites)	Pete Rude (Jacobs)
	Kevin Spesert (Sites)	Derek Morley (Geosyntec)
		Jeff Herrin (AECOM)
		Michael Smith (AECOM)
		Michael Forrest (AECOM)
		Ben Aldridge (AECOM)

Agenda:

Discussion Topic	Topic Leader	Time Allotted
<ul style="list-style-type: none"> Introductory Remarks 	Evans	3 minutes
<ul style="list-style-type: none"> Meeting Minutes and Action Item Follow-Up 	Evans	2 minutes
<ul style="list-style-type: none"> Briefing on Amendment 3 Geotechnical Investigations <ul style="list-style-type: none"> Requested Action: Feedback/Direction 	Luu	50 minutes
<ul style="list-style-type: none"> Discussion on Amendment 3 Real Estate Program Activities <ul style="list-style-type: none"> Requested Action: Feedback/Direction 	Spesert	20 minutes
<ul style="list-style-type: none"> Discussion on Real Estate Legal Services <ul style="list-style-type: none"> Requested Action: Feedback/Direction 	Spesert	10 minutes
<ul style="list-style-type: none"> Action Items and Closing Comments 	Evans	5 minutes

Agenda Item #1 – Introductory Remarks – Supervisor Gary Evans

Meeting called to order at 1:30pm by Supervisor Gary Evans.

Kevin Spesert confirmed Attendees.

Attendees introduced themselves.

Agenda Item #2 – Meeting Minutes and Action Item Follow-Up – Supervisor Gary Evans

Meeting Minutes from prior meeting have been reviewed – no comments or questions on Minutes.

Logan Dennis moved to approve the Meeting Minutes; Mike Azevedo seconded – passed unanimously.

Agenda Item #3 – Briefing on Amendment 3 Geotechnical Investigations – Henry Luu

Kevin Spesert introduced the topic, and advised that the Project Team is looking to the Committee to provide feedback and direction on the proposed work. Included in the currently proposed activities are private lands and public lands – guidance is needed from the Committee on how to proceed with work on these lands.

Henry Luu provided a recap of the geotechnical presentation from the previous Land Management Committee Meeting. During the previous meeting, the discussion of scope was very high-level, and the Project Team has now narrowed down the proposed locations. Locations are pending additional discussion and approval of the Committee, and any necessary access permission. There is historical data available, and the historical data will be considered to satisfy current data needs, and refine the proposed field activities.

Jeriann Alexander presented on the Historic Data Gathering Efforts that were performed to support concept assessments and preliminary alternative evaluations. These efforts were sufficient to develop feasibility-level construction cost estimates and identify scope for future design-level investigations. These historic efforts were not sufficient to complete engineering analysis and design, garner regulatory acceptance, or refine construction cost estimates.

As proposed, the preliminary design-level field investigations are being organized to collect data to inform non-jurisdictional features; and also jurisdictional features, with the objective of advancing overall design to 30%; and certain features to 65%.

Proposed Glenn County Data Collection Locations include: GCID Headworks; County Road Improvements for Roads 68, 69, and B; North Construction Access Road; Saddle Dams; Saddle Dikes; Borrow and Quarry Areas.

Proposed Colusa County Data Collection Locations include: County Road Improvements for Delevan, McDermott, Sites Lodoga, and Maxwell Sites; Huffmaster Road; Sites Lodoga Road and Bridge; Golden Gate Dam; Sites Dam; Inlet-Outlet Structure; Quarry and Borrow Areas; Saddle Dams; TRR; TRR and Funks Pipeline and Structures.

Access to some locations poses challenges via topography and overland travel. Kevin Spesert advised that access to some locations may be through other Landowners' lands, if permission is granted. Sites Real Estate will coordinate with TCCA and GCID, as needed for any applicable proposed locations.

Jeriann Alexander advised that accessibility to the Sites Dam Area may be challenging.

Proposed Yolo County Data Collection Locations include: Dunnigan Pipeline Alignment; TCCA Intake Structure; CBD Outlet Structure; Sacramento River Discharge Structure; Access and Facility Roads.

Kevin Spesert advised that the Real Estate Team has begun discussions with Landowners to introduce the concept of these field activities. In addition, the Real Estate Team will be contacting Colusa County, Glenn County, TCCA, and GCID to discuss the contemplated field activities. The Real Estate Team is tracking the proposed activities, and will be compensating Landowners accordingly, if they allow access for the work.

The Committee asked if the Project Team will restore impacts from these activities. Kevin Spesert advised that the Project would restore any impacts, per the direction of the Landowner.

Agenda Item #4 – Discussion on Amendment 3 Real Estate Program Activities – Kevin Spesert

In 2019, the Land Management Committee and the Sites Project Authority Board approved the Real Estate Policy, which provided the foundation for engagement with Landowners regarding the geotech field activities. The Real Estate Policy of 2019 was a foundation to grow from as the Project developed further. The Compensation Protocol for field activities was built into the Real Estate Policy, and approved in 2019.

During Amendment 3, the Project Team will be working on a Right-of-Way Manual to serve the Project with regard to activities such as geotech data collection, all the way to land management. Right-of-Way Manuals are common amongst agencies. Caltrans has a very large manual. MWD has a more focused manual. Ultimately, it is a guidebook of how the agency manages its real estate process. Over the course of 2022, the Real Estate Team will be working on a draft version of the Right-of-Way Manual, and will incorporate the guidance and feedback of the Committee in the process.

In addition to the Right-of-Way Manual, the Real Estate Team will be working on a Draft Acquisition Plan. This plan will be tied to the Project's construction activities, and will be phased accordingly.

Real Estate will continue to support Geotech, Technical Teams, and provide Landowner Coordination. In the previous period, post-signing coordination with Landowners occupied a significant amount of the Real Estate Team's efforts, but was critical to ensuring that the Landowners' concerns were well taken care of, the obligations of the Project were met, and that the Project was able to execute its objectives while also maintaining the highest good neighbor relations.

During the coming Amendment, the Real Estate Team will also work on Option Agreements and Hardship Acquisitions, pending direction from the Committee.

Agenda Item #5 – Discussion on Real Estate Legal Services – Kevin Spesert

Currently, the Project has Legal Counsel in the form of General Counsel, Water Rights, and EIR. Currently, the Project Team is looking at the procurement of Real Estate Legal Counsel.

In the past, the Project Team has been able to work with General Counsel on real estate matters, but the scope and intensity of the legal services needs with regard to real estate will be growing, and the Real Estate Legal Counsel will be important to have in place during Amendment 3.

Agenda Item #6 – Action Items and Closing Comments – Supervisor Gary Evans

The Committee advised that it would be beneficial to see the proposed geotech activities broken up into phases.

Henry Luu advised that the Project Team presented the Priority 1 Phase of the proposed geotech activities. The current scope of work is based on the Engineering Team's best judgment and anticipation of what DSOD will want.

Mike Forrest advised that in early 2022, the Engineering Team will attempt to engage DSOD.

The Committee advised that the subdividing of geotech work into priorities is an Action Item for the Project Team.

Pete Rude advised that the Army Corps of Engineers and the Central Valley Flood Protection Board will dictate the scope of the geotechnical work at the levees on anything East of the Colusa Basin Drain. If the CBD is sufficient, the Project Team will not need to consider the area to the East of CBD.

The meeting was adjourned at 2:47pm.

SITES RESERVOIR MESSAGE PLATFORM

February 2022 Update

TOPIC: WATER FOR DRY YEARS

Sites Reservoir is a unique multi-benefit water storage project that provides a resilient and reliable supply of water for California’s environment, communities, and farms during dry periods.

- Sites Reservoir captures and stores water from the Sacramento River during **high flows**— after all other **water rights and regulatory requirements are met**— and is made available to California’s environment, communities, and farms when it’s most needed – especially during times of drought.
- If Sites Reservoir had been in place prior to 2021, **California would have had an additional 1 million acre-feet of water available** to the environment, communities, and farms during this drought.
- Sites Reservoir provides dedicated water specifically for the environment – creating a **flexible and reliable water supply**.

Sites Reservoir is just part of the solution – we can, are and must utilize all of the tools in our toolbox—water recycling, conservation, desalination, groundwater replenishment and more water storage.

- Water agencies, cities, counties and farmers throughout California are utilizing and exploring innovative ways to create a resilient water future.
- Our project participants are at the forefront of efforts such as water recycling and conservation—Sites Reservoir will augment these important programs.

Sites Reservoir is a 21st Century approach to water storage that prepares California for climate change, designed to work best under the most challenging climate change scenarios.

- California’s current water management system was simply not designed to accommodate our future climate realities– **but Sites Reservoir is**. Modeling shows that **Sites performs better under the most challenging climate change conditions**.

- Sites Reservoir functions as an **“insurance policy”** for future California droughts. Current climate projections indicate the majority of our future precipitation will come in the form of rain and not snow. **Sites Reservoir is specifically designed** to capture this rain and store it for use during dry periods.
- When constructed, Sites Reservoir will be **integrated** with the operations of both the State Water Project (SWP) and Central Valley Project (CVP), which will provide greater flexibility, reliability, and resiliency of our current statewide water management system.

TOPIC: BROAD STATEWIDE PARTICIPATION

Public water agencies, irrigation districts, the federal government, and the State of California have come together to advance Sites Reservoir.

- The Sites Project Authority – which is leading the planning, construction and future operations of Sites Reservoir—was **formed under California law as a Joint Powers Authority** in 2010, and functions as a **public agency** made up of several public water agencies, public irrigation districts, counties, and cities across the Sacramento Valley.
- Sites Reservoir is funded **100% by local, state, and federal public dollars**.
- Participation in Sites Reservoir is **broad and diverse**— including the Bureau of Reclamation, the State of California, public irrigation districts in the Sacramento and San Joaquin Valleys, as well as urban areas in Southern California and the Bay Area.
- These **participants represent millions of people, thousands of acres of food-producing farmland, and the environmental resource agencies** that have stewardship over rivers, fish, and habitat within the watershed.

The benefits Sites Reservoir delivers are as diverse as our participants.

- Sites Reservoir will provide significant **regional flood protection benefits** for the Sacramento Valley by storing flood flows that would normally impact the communities of Maxwell and Williams - protecting homes, businesses, and farms.
- Sites Reservoir will benefit the local and regional economy by **creating hundreds of construction-related jobs** during each year of the construction period, and long-term jobs related to operations and recreation.
- Sites Reservoir will provide additional recreational opportunities and contribute to the overall regional economy of the Sacramento Valley.

- Sites Reservoir is a **beneficiary pays** project, which means that the benefits of the project go to those paying. Each participant—including the State of California through its investment in Sites Reservoir under Proposition 1—has **full control over their portion of the storage space** and their proportionate share of the water diverted into Sites Reservoir.

TOPIC: ENVIRONMENTAL BENEFITS

Sites Reservoir is designed to be far more environmentally friendly than traditional dams.

- It is an off-stream facility that **does not dam a major river system** and would not block fish migration or spawning.
- Intakes being used for diverting water into Sites Reservoir include **state-of-the-art fish screens** that are proven to be highly effective at protecting fish.
- Sites Reservoir **does not threaten salmon** or other fish species in the Sacramento River. Sites Reservoir diversions would be **conducted under highly protective operating and permit conditions** that establish when water can be diverted.
- Numerous, substantial changes have been made to the Sites Reservoir proposal over the past several years to **ensure the project prioritizes environmental benefits and health including our State fisheries, while preserving river water supplies.**

Sites Reservoir offers many environmental benefits to support healthy fisheries and waterways.

- The State of California – through its investment in Sites Reservoir under Proposition 1 – is creating an **environmental water asset for California** that will provide water and dedicated storage for current and future environmental needs.
- Federal participation through the Bureau of Reclamation increases the environmental benefit with more water for salmon.
- The State’s **environmental water asset will be managed by state resources agency managers** who will decide how and when this water would be used—creating an **environmental water management tool for the state that does not currently exist.**
- A significant portion of Sites Reservoir’s annual water supplies will be **dedicated** to environmental uses to help improve conditions for **Delta smelt**; help preserve **cold-water pool** in Shasta Lake later into the summer months to support **salmon**

development, spawning, and rearing; and improve **Pacific Flyway habitat** for migratory birds and other native species.

- As currently proposed, Sites Reservoir includes **more cold water for salmon in the driest years** when it is needed most and provides an overall net benefit to Sacramento River salmon, Delta smelt, and the Sacramento-San Joaquin Delta estuary.

TOPIC: OPERATIONS

Integrating Sites Reservoir into the state’s existing water management system will help to restore flexibility, reliability, and resiliency to our statewide water supply

- Sites Reservoir is uniquely located in relation to other major components of the state and federal water projects like Shasta Lake, Lake Oroville, and Folsom Lake. Sites is **complementary** to these existing crucial elements of statewide water management and could act to extend the functions they serve by creating flexibility to adapt to changing river and Delta management conditions.
- Sites Reservoir would **not compete for the water resources** stored in these state and federal facilities but would increase the total amount of managed water in storage.
- **Participating agencies own their storage accounts in the Sites Reservoir.** This ownership includes storage space and a share of the project's diversions from the Sacramento River.
- Sites Reservoir could **contribute** to the increased fresh-water flow into the Delta during drier periods to assist with salinity management of this critical estuary.
- No other storage project currently under consideration in California can positively influence the **operational efficiencies of our existing statewide water system** like Sites Reservoir.

TOPIC: KEY ADVANCEMENTS

Sites Reservoir met several major milestones in 2021.

- Sites Reservoir met **several key milestones in 2021** that we are building on this year.
 - California Water Commission issued its feasibility determination, paving the way for continued State investment and project eligibility for additional funding under Proposition 1.

- Sites Reservoir received additional funding through Proposition 1 and federal investments.
- Sites Project Authority and the Bureau of Reclamation released the draft Environmental Impact Report/Draft Environmental Impact Statement for public comment.
- The achievements met in 2021 will take this project from the planning stage to final design and construction.

We are on track to deliver this vital project for California within this decade.

- Based on the substantial progress made to date, we are on track to begin construction in 2024.
- The milestones we are building towards in 2022 will bring us that much closer to the start of construction.
 - Sites Project Authority will be issuing the final Environmental Impact Report in fall of 2022.
 - Key regulatory and permitting efforts are underway as we prepare for submit the Sites Reservoir water rights application and other key permits to the State of California.

Land Management Committee

February 10, 2022



Introductory Remarks

Supervisor Gary Evans



Meeting Minutes & Action Item Follow Up

Kevin Spesert



Review/Update Committee Charter

Kevin Spesert



Questions?



Legal/Agency Agreements Legal Services RFQ

Kevin Spesert



Questions?



TRR Evaluation Results

Henry Luu & Pete Rude



Terminal Regulating Reservoir (TRR) Sizing

- TRR is currently sized at 600 ac-ft
 - Both TRR East and TRR West
 - Sized to hold volume associated with an emergency scenario (1,800 cfs diverted into Main Canal but unable to pump to Sites Reservoir) for 4 hours = 26 million cubic feet
- Staff has been working with GCID since Fall 2021 on optimizing size of TRR
 - How much water can be stored within existing Main Canal?
 - How much water can be released through local facilities (creeks/drains)?

Results of Canal Storage Calculations

- GCID provided data that was analyzed
 - Storage capacity between Stony Creek Siphon and Norman Check
- During summer there is about 11.8 million cubic feet of potential storage in the Canal
 - Can accommodate up to 46% of emergency scenario
- During winter there is about 14.9 million cubic feet of potential storage in the Canal
 - Can accommodate up to 58% of emergency scenario

Results of Local Facility Release Calculations

- Local facility releases can only occur in the **Summer**
- 7 existing locations for release of emergency water into local creeks/drains
- Total potential releases estimated at 620 cfs
 - GCID staff indicated estimate may be high based on operations and may be closer to 300 cfs. Requires validation by GCID.

Summary of Analysis

- Current TRR design emergency storage volume over 4 hours = 26 million cubic feet = 600 ac-ft
- Summer Operations
 - Canal emergency storage volume is 11.8 million cubic feet, which is about 46% of the design emergency storage volume = 270 ac-ft
 - Canal emergency releases at seven release locations can potentially accommodate about 300 cfs (requires validation) = 100 ac-ft, assuming steady state flow
 - Closing the gates at checks and opening emergency releases to local creeks and drains can potentially provide storage and release capacity within the Main Canal of up to 370 ac-ft
- Winter Operations
 - Canal emergency storage volume is 14.9 million cubic feet, which is about 58% of the design emergency storage volume.
 - Closing the gates at checks should provide storage capacity within the Main Canal of up to 340 ac-ft

Preliminary Findings and Next Steps

- TRR size for emergency storage could potentially be reduced
 - Minimum size for summer operation is about 230 ac-ft
 - Minimum size for winter operation is about 260 ac-ft
- GCID staff are reviewing analysis results and will validate potential TRR size reduction
- The engineering team will incorporate potential TRR optimization as part of preliminary engineering (30% level of design)
- For reference, a potential TRR West (400 ac-ft) concept is shown on the next slide



Questions?

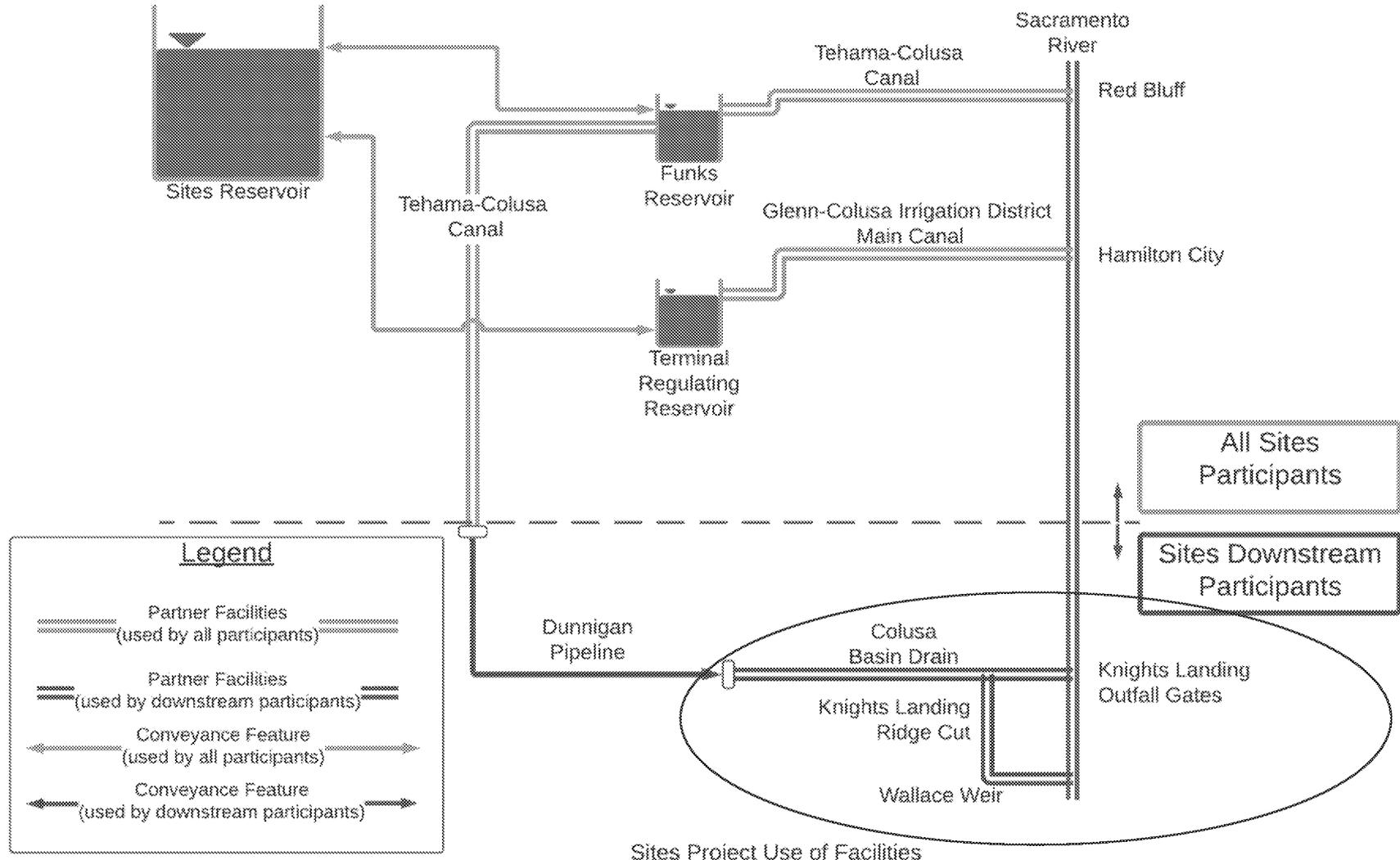


Colusa Basin Drain Agreements Overview

JP Robinette



Sites and the Colusa Basin Drain



Sites Project Use of Facilities

Draft Colusa Basin Drain Agreements for Use of Facilities

Agency / Owner	Agreement Type	Project Facility
TBD, possibly Morgan Twin Holdings LLC	Property Acquisition, Access, Flowage Easement	Sites CBD Discharge Structure
USDA	Access (conservation easement)	Sites CBD Discharge Structure
RD108	Access, Flowage Easement	Colusa Basin Drain
Knights Landing Ridgecut Drainage District	Access, Flowage Easement	Colusa Basin Drain
R & J Farms INC	Access, Flowage Easement	Colusa Basin Drain
Central Valley Flood Protection Board	Use Permit	Colusa Basin Drain East Levy
DWR	Operations	KLOG
RD108	Operations	Wallace Weir
Colusa Drain Mutual Water Company	Operations MOU	Colusa Basin Drain
Colusa Basin Drainage District	Operations MOU	Colusa Basin Drain
Yolo County	TBD	All Above

Non-comprehensive list, as part of public agency negotiations

Questions?



Geotech Priorities 1A & 1B Goals and Objectives

Henry Luu & Jeriann Alexander



Schedule Development for Priority 1 Field Efforts

OBJECTIVE 1. Develop a schedule which factors in:

- Engineering Team defined lists of data collection needs.
- Real Estate Team understanding of property owner considerations.
- Environmental Permitting Team guidance regarding the environmental permitting processes and environmental commitments.
- Project Deliverable Team Schedule.

Schedule Development for Priority 1 Field Efforts

OBJECTIVE 2. Be Flexible

Quickly learned that we needed to work within multiple constraints, which are modified to meet the current demands of each group and the project as a whole.

The following slides present the assumptions for establishing the 2022-2024 geotech investigation work schedule.

Schedule Development for Priority 1 Field Efforts

- Engineering goals include:
 - Complete 30% design by the end of 2023, and
 - Prepare Class 3 Cost Estimate early 2024.
- Initial development of the field investigation work plan was based on project design features and had limited considerations for property ownership and access challenges.
- Real Estate Team identified that owners may not want large excavations and/or permanent features like piezometers on their properties – this will require coordination as part of engagement with landowners.

Schedule Development for Priority 1 Field Efforts

- The engineering team re-evaluated and developed a critical path schedule of data collection, based on current understanding of landowner and access challenges, in support of engineering goals.
- All excavations (Test Pits, Fault Trenches, Dozer Lines) were removed from the P1 Geotechnical Permit documents to avoid a delay in receiving approval from the reviewing agency.
 - Excavation activities may occur after the completion of the final environmental document – estimated to begin within 2023.
- Eagle survey from the recent first phase of data collection will have an impact on the schedule shared today.

Priority 1 Working Schedule

The working schedule is:

- based on KNOWN constraints, and
- will allow gathering the most relevant ACCESSIBLE DATA to support advancement of engineering activities.

Location of work and property owners are identified alongside potential access routes through properties.

Obtaining landowner approval AND securing access routes are equally critical steps in planning field activities.

Priority 1 Working Schedule - 2022

Summary of Planned P1A and P1B Geotechnical Investigation - Sites Reservoir Project - Rev. 02082022

2022 Scope of Work				
Q1			Work Area	Routes
TRRW Early Evaluation	14 Borings/CPTs, 4 Piezometers		Holthouse	Colusa County Roads, TCCA, Holthouse
Q2				
Planning for Q3/Q4 and Awaiting for Environmental Permit Approval				
Q3				
Geologic Research/Mapping	GCID		GCID	Glenn County Roads
	GG Dam		Jensen, Wells	Not identified
	Sites Dam - Northern Areas		Cody Arnold	Not identified
	Sites Dam - Southern Areas		Banyan Transport	Not identified
	Saddle Dams 3, 5, 8		Owens	Owens, Glenn Co Roads, Logan
	Saddle Dams 3		Unknown Owner	LaGrande?, or Owens, Glenn Co Roads, Logan
GCID	2 Borings		GCID	Glenn County Roads
TRRW	21 Borings/CPTs/6 Piezometers, 1RES		Holthouse	Colusa County Roads, TCCA, Holthouse
Seismic Refraction	GG Dam - 3		Jensen	Not identified
	GG Quarry - 1		Jensen	Not identified
	GG Quarry - 1		LaGrande	Not identified
	Sites Dam - 1		Banyan Transport	Not identified
	Sites Dam - 2		Cody Arnold	Not identified
	Sites Dam - 2		Colusa County	Colusa County Roads
	Sites Quarry - 3		Red Stick	Not identified
	Sites Quarry - 2		Cody Arnold	Not identified
	Saddle Dams - 3,5,8		Owens	Glenn County Roads, Logan, Owens,
	Saddle Dams - 3		Unknown Owner	Glenn County Roads, Logan, Owens, Unknown Owner
	Saddle Dam Quarry - 4		Owens	Glenn County Roads, Logan, Owens

Priority 1 Working Schedule - 2022

Q4		Work Area	Routes
Geologic Research/Mapping	Dunnigan Funks	Ritchie Bros, P Doherty and many others Govt, LaGrande, Tays	Yolo County Roads Not identified
Dunnigan	7 Borings/CPTs/1 Piezometers	Govt, Ritchie Bros, P Doherty	Govt, Ritchie Bros, P Doherty
Funks	5 Borings/2 Piezometers, 1RES	Govt	Colusa County Roads, Govt, TCCA
IO Tower	1 Boring	Banyan Transport	Colusa County Roads and Banyan?
Saddle Dam 3	5 Borings/2 Piezometers	Owens	Glenn County Roads, Logan, Owens
Saddle Dam 5	4 Borings/1 Piezometers	Owens	Glenn County Roads, Logan, Owens
Saddle Dam Quarry	3 Borings/1 Piezometers	Owens	Glenn County Roads, Logan, Owens
Roads	8 Borings/Pavement Cores	Owens, Glenn County and Colusa County	North Access, Sites Ladoga, Maxwell Sites, Road D, McDermott

Priority 1 Working Schedule - 2023

2023 Scope of Work			
Q1 & Q2		Work Area	Routes
GG Dam	11 Borings/1 Piezometer	Jensen	Not identified
GG Dam Quarry	2 Borings/1 Piezometer	Jensen	Not identified
GG Dam Quarry	2 Borings/1 Piezometer	LaGrande	Not identified
Sites Dam - Northern Areas	2 Borings	Cody Arnold	Not identified
Sites Dam - Southern Areas	6 Borings/1 Piezometer	Banyan Transport, Colusa County	Not identified
Sites Dam Quarry	2 Borings/1 Piezometer	Red Stick Farms	Not identified
Sites Dam Quarry	1 Borings/1 Piezometer	Cody Arnold	Not identified
IO Tower	1 Boring	Wells	Not identified
IO Tower	2 Borings	Cody Arnold	Not identified
Borrow Areas	6 P2 Borings	GGB, SB, SOB	Not identified
Dunnigan	1 Boring	Brothers Doherty	Not identified
Dunnigan	1 Boring	Mountanos	Not identified
Dunnigan	3 Borings/CPTs/1 Piezometers	Unknown Owner	Not identified
TRRW	4 Borings/CPTs	Holthouse	Colusa County Roads, TCCA, Holthouse
TBR Pipeline	3 Borings/CPTs	Unknown Owner along GCID canal road	Not identified
Funks	4 Borings	Jensen (1) and Govt (3)	Colusa County Roads, TCCA, Govt and Jensen
Roads/Bridges	15 Borings	Mathis, Parker, Johnson, Colusa and Glenn County Unknown Owners	Not identified
GG Dam Borrow	2 TP/Boring	Wells	Not identified
Sites Dam Borrow	1 TP/Boring	Debra Kellogg	Not identified
Sites Dam Borrow	1 TP/Boring	Colusa County Owner Unknown, Town of Sites Area	Not identified
Saddle Dam Borrow	2 TP/Boring	Glenn County Owner Unknown	Not identified
IO Tower	2 Fault Trenches	Wells	Not identified
IO Tower	1 Fault Trenches	Red Stick Farms	Not identified

Priority 1 Working Schedule - 2023

Q3 & Q4		Work Area	Routes
Sites Dam	2 Borings/1 Piezometer	Colusa County Road	Not identified
Saddle Dam 3	1 Boring	Owens	Glenn County Roads, Logan and Owens
Saddle Dam 3	1 Boring/1 Piezometer	Glenn County Owner Unknown	Glenn County Roads, Logan and Owens, La Grande?
Saddle Dam 8	2 Borings	Owens	Glenn County Roads, Logan and Owens
GG Dam Quarry	2 Borings	Jensen	Not identified
GG Dam Quarry	2 Borings/1 Piezometer	LaGrande	Not identified
Sites Dam Quarry	1 Boring	Red Stick Farms	Red Stick?
IO Tower	1 Boring	Banyan Transport	Colusa County Roads, Banyan, Jensen, Red Stick
IO Tower	1 Boring	Wells	Colusa County Roads, Banyan, Jensen, Red Stick
GG Dam	4 Borings/2 Piezometers	Jensen	Colusa County Roads, Govt, TCCA, Jensen?
TRR Pipeline	6 Borings	Govt (5), Holthouse (1)	Colusa County Roads, Govt, TCCA, Holthouse
Roads	18 Pavement Cores	Owens, Glenn County and Colusa County	Rd 68, Rd 69, Sites Ladoga, Maxwell Sites, North Access, McDermott, Road D
Roads	1 Pavement Cores	Johnson	Rd 68
Roads	1 Pavement Cores	Red Stick Farms	Sites Ladoga
Geologic Research/Mapping	Saddle Dam 1	LaGrande	Not identified
	Saddle Dam 2	LaGrande	Not identified
	Saddle Dam 5	Owens	Glenn County Roads, Logan and Owens
	GG Mapping 2	Wells, Jensen	Not identified
	IO Mapping	Wells	Not identified

Priority 1 Working Schedule - 2023

Q3 & Q4		Work Area	Routes
Seismic Refraction	GG Dam - 4	Jensen (3), Wells (1)	Not identified
	GG Quarry - 2	Jensen	Not identified
	GG Quarry - 1	LaGrande	Not identified
	Site Dam - Northern Areas - 2	Cody Arnold	Not identified
	Site Dam - Southern Areas - 3	Banyan Transport	Not identified
	Saddle Dam 3 - 3	Owens	Glenn County Roads, Logan, Owens
	Saddle Dam 5 - 2	Owens	Glenn County Roads, Logan, Owens
	Saddle Dam 8 -1	Owens	Glenn County Roads, Logan, Owens
	Saddle Dam Quarry - 2	Owens	Glenn County Roads, Logan, Owens
	Saddle Dam Quarry - 1	Glenn County Owner Unknow	Glenn County Roads, Logan, Owens, Unknown, LaGrande?
	Sites Dam Quarry-2	Red Stick Farms	Red Stick?
Golden Gate Dam	HM Road-5	Mathis, M Doherty, Parker	Not identified
	1 Fault Trench	Jensen	Not identified
Saddle Dam 2	1 Fault Trench	LaGrande	Not identified
Saddle Dam 5	1 Fault Trench	Owens	Glenn County Roads, Logan, Owens
Sites Dam	2 Fault Trench	Banyan Transport	Not identified
GG Dam	3 Fault Trenches	Jensen	Not identified
GG Dam Quarry	3 Dozer Lines	LaGrande	Not identified
Saddle Dam Quarry	3 Dozer Lines	Owens	Glenn County Roads, Logan, Owens
Sites Dam Quarry	1 Dozer Line	Red Stick Farms	Red Stick?

Features which Involve Parcels w/ Multiple Owners

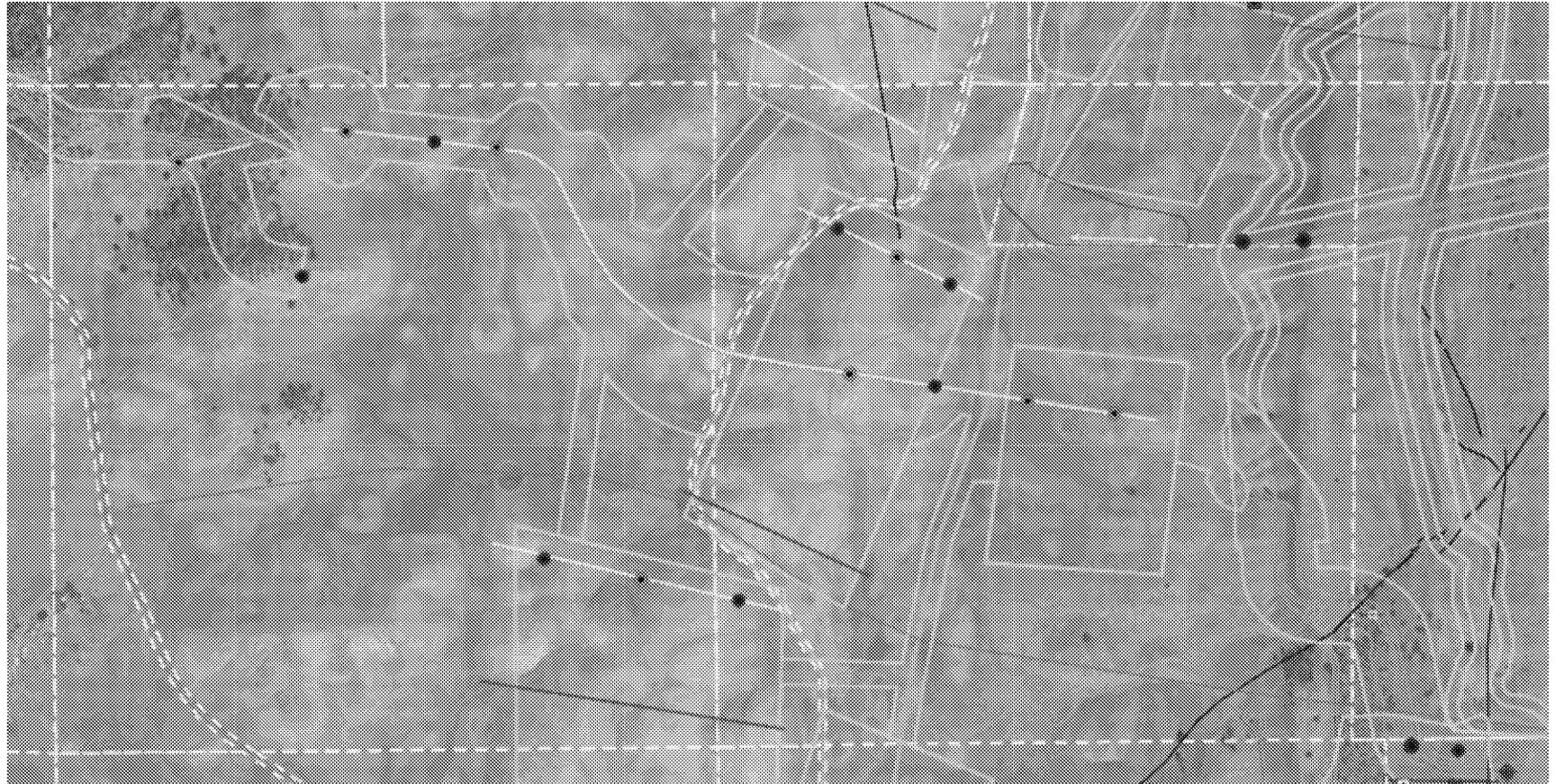
Sites Dam



Critical Features which Are Located on Parcels with Owners who Have Concerns

Sites Ladoga Road Re-alignment

IO Tower



Critical Features which Are Located on Parcels with Owners who Have Concerns

TRR West tie-in to GCID Canal



Priority 1 Working Schedule - 2024

2024 Scope of Work		Work Area	Routes
Sites Dam Borrow	1 Test Pits	Christy Lee Snelgrove	Not Identified
Saddle Dam Borrow	5 Test Pits	Owens	Glenn County Roads, Logan and Owens
Saddle Dam Borrow	2 Test Pits	Glenn County Unknown Owner	Glenn County Roads, Logan ,Owens, Unknown, LaGrande?
Saddle Dam Borrow	2 Test Pits	LaGrande	Not Identified
GG Dam Borrow	5 Test Pits	Wells	Not Identified
Saddle Dam Quarries	5 Test Pits	Owens	Glenn County Roads, Logan and Owens
Saddle Dam Quarries	1 Test Pit	Glenn County Unknown Owner	Glenn County Roads, Logan, Owens, Unknown, LaGrande?
GG Dam Quarry	2 Test Pits	Jensen	Not Identified
GG Dam Quarry	6 Test Pits	LaGrande	Not Identified
Sites Dam Quarry	3 Test Pits	Cody Arnold	Not Identified
Sites Dam Quarry	2 Test Pits	Red Stick Farms	Not Identified
TRR Pipeline	4 Test Pits	Holthouse	Colusa County Roads, TCCA, Holthouse
Funks	2 Test Pits	Jensen	Not Identified
Funks	1 Test Pits	Red Stick Farms	Not Identified
Dunnigan	1 Test Pit	Auiman LLC	Not Identified
Dunnigan	1 Test Pit	Morgan Twin Holdings LLC	Not Identified
Saddle Dam 3	1 Boring	Glenn County Unknown Owner	Glenn County Roads, Logan , Owens, Unknown, LaGrande?
Roads	1 Boring	Red Stick Farms	Sites Lagoda
Roads	1 Boring	B&G Ranches	Sites Lagoda
Roads	5 Borings	Mathis, Parker, M Doherty	HM

Priority 1 Working Schedule - 2024

2024 Scope of Work		Work Area	Routes
Currently Inaccessible - Higher Priority Listed Locations	Test Pits (2) Pavement Cores (2) Borings (11) Seismic Refraction (5) Geologic Mapping Area	Jennings, Glide, Logan Land and Stock, Etchepare	Not Identified
		Sites Dam - Jennings	Not Identified
Currently Inaccessible - Other P1A and P1B Requested Locations	Test Pits (1) Pavement Cores (2) Borings (2) Seismic Refraction (10) Geologic Mapping Area	Jennings, Glide, Logan Land and Stock	Not Identified
		Saddle Dam 1 - Logan Land & Stock	Not Identified
Other P1 Locations if funding made available			

Questions?



Engineering Survey/Mapping Activities Overview

Conner McDonald



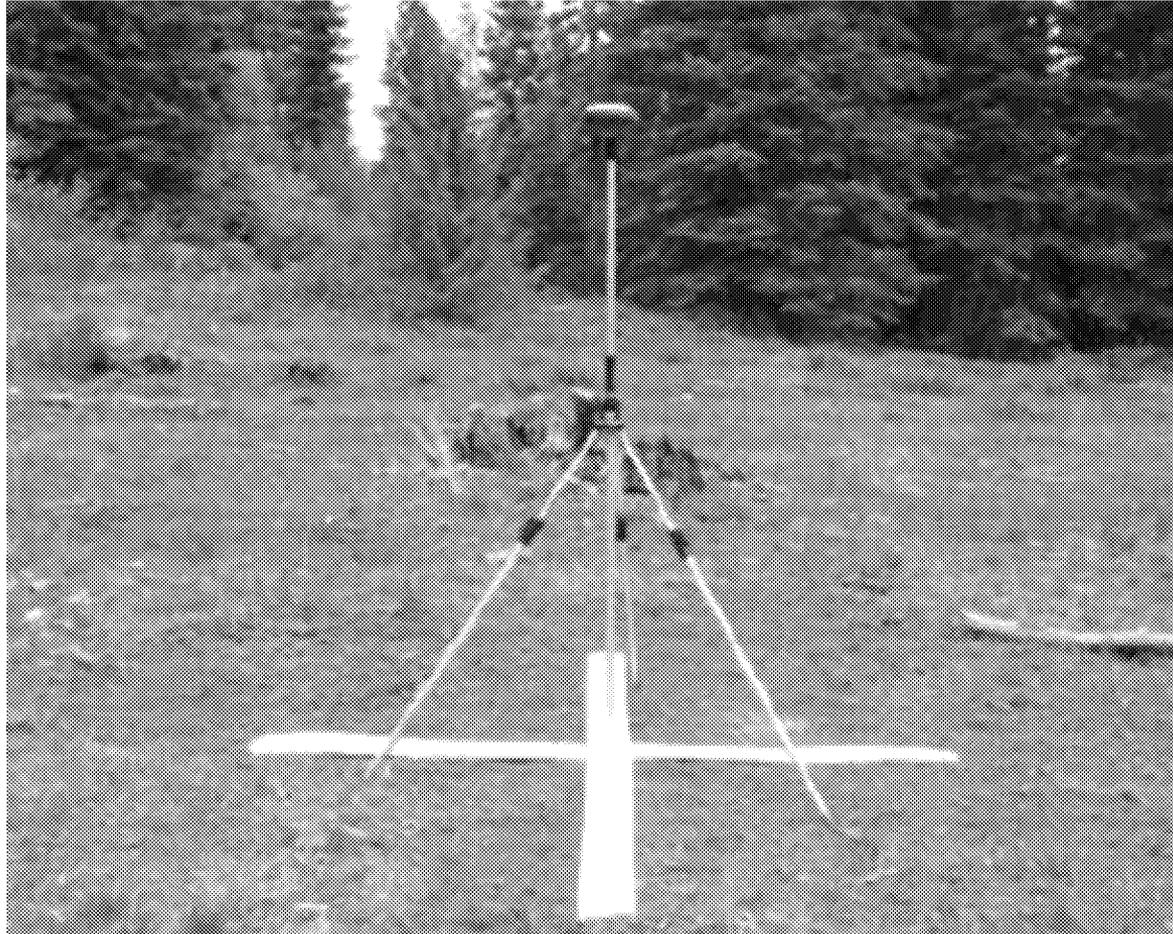
Process for Land Survey & Mapping

- Primary Control GPS Observations at Set Points
 - Dunnigan and CBD area (20 locations) – Week of Feb 7
 - Sites Area (20 locations) – Week of Feb 14 or Feb 21
 - Requires access to private properties to get to and set Primary Control Points
- Set Aerial Control Survey/targets
 - Sites Area – Feb 21 through March 11
 - Dunnigan and CBD area – March 14 – March 28
 - Requires access to private properties to get to and set Aerial Targets

Process for Land Surveying and Mapping

- Fly LiDAR by week of Feb 7th or Feb 14th
- Fly Aerial Photography by April 1
 - Once Aerial targets in place (depends on private property access)
 - Ideally prior to leaf out
 - Need by April 1 to meet schedule
- Process data and create topographic mapping
 - HR Reservoir & Roads: April through July
 - HC Conveyance: April through July

Aerial Target with GPS unit 6-ft tall



Questions?



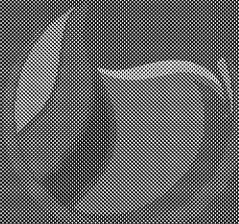
Action Items & Closing Comments



Thank You!

Next Meeting: TBD





Sites

Sites Project Authority

Land Management Committee Meeting Minutes



Date: October 5, 2021

Location: Maxwell / Virtual

Time: 1:30pm – 3:00pm

Leader: Supervisor Gary Evans

Recorder: Conner McDonald

Purpose: Update on Amendment 3 Geotechnical Investigations, proposed Amendment 3 Real Estate Program Activities, and Real Estate Legal Services in support of the Real Estate Program.

Attendees:

Supervisor Gary Evans (Colusa)	Jeff Sutton (TCCA)	Conner McDonald (HDR)
Supervisor Ken Hahn (Glenn)	Thad Bettner (GCID)	Henry Luu (HDR)
Mike Azevedo (Colusa)	Logan Dennis (GCID)	Jeriann Alexander (Fugro)
	Jerry Brown (Sites)	Pete Rude (Jacobs)
	Kevin Spesert (Sites)	Derek Morley (Geosyntec)
		Jeff Herrin (AECOM)
		Michael Smith (AECOM)
		Michael Forrest (AECOM)
		Ben Aldridge (AECOM)

Agenda:

Discussion Topic	Topic Leader	Time Allotted
<ul style="list-style-type: none"> Introductory Remarks 	Evans	3 minutes
<ul style="list-style-type: none"> Meeting Minutes and Action Item Follow-Up 	Evans	2 minutes
<ul style="list-style-type: none"> Briefing on Amendment 3 Geotechnical Investigations <ul style="list-style-type: none"> Requested Action: Feedback/Direction 	Luu	50 minutes
<ul style="list-style-type: none"> Discussion on Amendment 3 Real Estate Program Activities <ul style="list-style-type: none"> Requested Action: Feedback/Direction 	Spesert	20 minutes
<ul style="list-style-type: none"> Discussion on Real Estate Legal Services <ul style="list-style-type: none"> Requested Action: Feedback/Direction 	Spesert	10 minutes
<ul style="list-style-type: none"> Action Items and Closing Comments 	Evans	5 minutes

Agenda Item #1 – Introductory Remarks – Supervisor Gary Evans

Meeting called to order at 1:30pm by Supervisor Gary Evans.

Kevin Spesert confirmed Attendees.

Attendees introduced themselves.

Agenda Item #2 – Meeting Minutes and Action Item Follow-Up – Supervisor Gary Evans

Meeting Minutes from prior meeting have been reviewed – no comments or questions on Minutes.

Logan Dennis moved to approve the Meeting Minutes; Mike Azevedo seconded – passed unanimously.

Agenda Item #3 – Briefing on Amendment 3 Geotechnical Investigations – Henry Luu

Kevin Spesert introduced the topic, and advised that the Project Team is looking to the Committee to provide feedback and direction on the proposed work. Included in the currently proposed activities are private lands and public lands – guidance is needed from the Committee on how to proceed with work on these lands.

Henry Luu provided a recap of the geotechnical presentation from the previous Land Management Committee Meeting. During the previous meeting, the discussion of scope was very high-level, and the Project Team has now narrowed down the proposed locations. Locations are pending additional discussion and approval of the Committee, and any necessary access permission. There is historical data available, and the historical data will be considered to satisfy current data needs, and refine the proposed field activities.

Jeriann Alexander presented on the Historic Data Gathering Efforts that were performed to support concept assessments and preliminary alternative evaluations. These efforts were sufficient to develop feasibility-level construction cost estimates and identify scope for future design-level investigations. These historic efforts were not sufficient to complete engineering analysis and design, garner regulatory acceptance, or refine construction cost estimates.

As proposed, the preliminary design-level field investigations are being organized to collect data to inform non-jurisdictional features; and also jurisdictional features, with the objective of advancing overall design to 30%; and certain features to 65%.

Proposed Glenn County Data Collection Locations include: GCID Headworks; County Road Improvements for Roads 68, 69, and B; North Construction Access Road; Saddle Dams; Saddle Dikes; Borrow and Quarry Areas.

Proposed Colusa County Data Collection Locations include: County Road Improvements for Delevan, McDermott, Sites Lodoga, and Maxwell Sites; Huffmaster Road; Sites Lodoga Road and Bridge; Golden Gate Dam; Sites Dam; Inlet-Outlet Structure; Quarry and Borrow Areas; Saddle Dams; TRR; TRR and Funks Pipeline and Structures.

Access to some locations poses challenges via topography and overland travel. Kevin Spesert advised that access to some locations may be through other Landowners' lands, if permission is granted. Sites Real Estate will coordinate with TCCA and GCID, as needed for any applicable proposed locations.

Jeriann Alexander advised that accessibility to the Sites Dam Area may be challenging.

Proposed Yolo County Data Collection Locations include: Dunnigan Pipeline Alignment; TCCA Intake Structure; CBD Outlet Structure; Sacramento River Discharge Structure; Access and Facility Roads.

Kevin Spesert advised that the Real Estate Team has begun discussions with Landowners to introduce the concept of these field activities. In addition, the Real Estate Team will be contacting Colusa County, Glenn County, TCCA, and GCID to discuss the proposed field activities. The Real Estate Team is tracking the proposed activities, and will be compensating Landowners accordingly, if they allow access for the work.

The Committee asked if the Project Team will restore impacts from these activities. Kevin Spesert advised that the Project would restore any impacts, per the direction of the Landowner and as provided for in the access agreement.

Agenda Item #4 – Discussion on Amendment 3 Real Estate Program Activities – Kevin Spesert

In 2019, the Land Management Committee and the Sites Project Authority Board approved the Real Estate Policy, which provided the foundation for engagement with Landowners regarding the geotech field activities. The Real Estate Policy of 2019 was a foundation to grow from as the Project developed further. The Compensation Protocol for field activities was built into the Real Estate Policy, and approved in 2019.

During Amendment 3, the Project Team will be working on a Right-of-Way Manual to serve the Project with regard to activities such as geotech data collection, all the way to land management. Right-of-Way Manuals are common amongst agencies. Caltrans has a very large manual. MWD has a more focused manual. Ultimately, it is a guidebook of how the agency manages its real estate process. Over the course of 2022, the Real Estate Team will be working on a draft version of the Right-of-Way Manual, and will incorporate the guidance and feedback of the Committee in the process.

In addition to the Right-of-Way Manual, the Real Estate Team will be working on a Draft Acquisition Plan. This plan will be tied to the Project's construction activities, and will be phased accordingly.

Real Estate will continue to support Geotech, Technical Teams, and provide Landowner Coordination. In the previous period, post-signing coordination with Landowners occupied a significant amount of the Real Estate Team's efforts, but was critical to ensuring that the Landowners' concerns were well taken care of, the obligations of the Project were met, and that the Project was able to execute its objectives while also maintaining the highest good neighbor relations.

During the coming Amendment, the Real Estate Team will also work on Option Agreements and Hardship Acquisitions, pending direction from the Committee.

Agenda Item #5 – Discussion on Real Estate Legal Services – Kevin Spesert

Currently, the Project has Legal Counsel in the form of General Counsel, Water Rights, and EIR. Currently, the Project Team is looking at the procurement of Real Estate Legal Counsel.

In the past, the Project Team has been able to work with General Counsel on real estate matters, but the scope and intensity of the legal services needs with regard to real estate will be growing, and the Real Estate Legal Counsel will be important to have in place during Amendment 3.

Agenda Item #6 – Action Items and Closing Comments – Supervisor Gary Evans

The Committee advised that it would be beneficial to see the proposed geotech activities broken up into phases.

Henry Luu advised that the Project Team presented the Priority 1 Phase of the proposed geotech activities. The current scope of work is based on the Engineering Team's best judgment and anticipation of what DSOD will want.

Mike Forrest advised that in early 2022, the Engineering Team will attempt to engage DSOD.

The Committee advised that the subdividing of geotech work into priorities is an Action Item for the Project Team.

Pete Rude advised that the Army Corps of Engineers and the Central Valley Flood Protection Board will dictate the scope of the geotechnical work at the levees on anything East of the Colusa Basin Drain. If the CBD is sufficient, the Project Team will not need to consider the area to the East of CBD.

The meeting was adjourned at 2:47pm.

From: Alicia Forsythe [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=A6CDF06A7E904B65BAA21702A82AD329-AFORSYTHE]
Sent: 2/8/2022 12:47:17 PM
To: Heydinger, Erin [Erin.Heydinger@hdrinc.com]; JP Robinette [JRobinette@BrwnCald.com]; Jerry Brown [jbrown@sitesproject.org]
Subject: RE: Sites Reservoir Release/Fill Cycles

Erin – I am wondering if we send over the following three items to see if these might work:

1. Annual diversions to fill (the one graphic that shows months and average diversions by month)
2. Annual releases (same as above, but for releases – long-term average)
3. Reservoir elevations over the 82 year CALSIM record. The long one that shows the reservoir going up and down over the model timeframe by year (year is on the x axes and storage amount on the Y axis)

The request is a little confusing, but I am wondering if its one of these as we more typically show these to members.

Ali

Alicia Forsythe | Environmental Planning and Permitting Manager | Sites Project Authority | 916.880.0676 |
aforsythe@sitesproject.org | www.SitesProject.org

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From: Heydinger, Erin <Erin.Heydinger@hdrinc.com>
Sent: Tuesday, February 8, 2022 9:51 AM
To: JP Robinette <JRobinette@BrwnCald.com>; Jerry Brown <jbrown@sitesproject.org>
Cc: Alicia Forsythe <aforsythe@sitesproject.org>
Subject: RE: Sites Reservoir Release/Fill Cycles

I wonder if this is the assumed diversions/deliveries that are included in the proforma? We don't have any graphs on the ops side that look at the future, everything is based on the past (even the climate change hydrology models).

Erin

Erin Heydinger PE, PMP
D 916.679.8863 M 651.307.9758

hdrinc.com/follow-us

From: JP Robinette <JRobinette@BrwnCald.com>
Sent: Tuesday, February 8, 2022 8:41 AM
To: Jerry Brown <jbrown@sitesproject.org>; Heydinger, Erin <Erin.Heydinger@hdrinc.com>
Cc: Alicia Forsythe <aforsythe@sitesproject.org>
Subject: RE: Sites Reservoir Release/Fill Cycles

CAUTION: [EXTERNAL] This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

I am not, sounds like an Erin graph, possibly :)

JP Robinette, PE*

Brown and Caldwell

JRobinette@brwnald.com

T 916.853.5312 | C 801.819.4306

*Professional Registration in Specific States

From: Jerry Brown <jbrown@sitesproject.org>
Sent: Tuesday, February 08, 2022 8:10 AM
To: Heydinger, Erin <Erin.Heydinger@hdrinc.com>; JP Robinette <JRobinette@BrwnCald.com>
Cc: Alicia Forsythe <aforsythe@sitesproject.org>
Subject: FW: Sites Reservoir Release/Fill Cycles

Are either of you familiar with what Steve is asking about?

From: Steve Johnson <SJohnson@dwa.org>
Date: Tuesday, February 8, 2022 at 7:58 AM
To: Jerry Brown <jbrown@sitesproject.org>
Subject: Sites Reservoir Release/Fill Cycles

Hi Jerry – I am assisting Mark with a PowerPoint for our Board and I wanted to show the Board the anticipated water year cycle that the model is based on. Mark believes that there is a graph that shows the anticipated water year cycle for the next 40 or 50 years. Is this something you are familiar with?

Thanks,

Steve L. Johnson, P.E.
Assistant General Manager
Desert Water Agency
(760) 323-4971 ext. 140

www.dwa.org



Land Management Committee

February 10, 2022



2.06 - Production Meeting Document - For Discussion Purposes Only

Introductory Remarks

Supervisor Gary Evans



2.46 - Production Meeting Document - For Discussion Purposes Only

Meeting Minutes & Action Item Follow Up

Kevin Spesert



2016 - Produced Meeting Documents - For Discussion Purposes Only

Review/Update Committee Charter

Kevin Spesert



2.06 - Production/Marketing Document - For Discussion Purposes Only

Questions?



2.46 - Production Marketing Document - For Consultant Use Only

Legal/Agency Agreements Legal Services RFQ

Kevin Spesert



2.96 - Production/Marketing Document - For Discussion Purposes Only

Questions?



2.46 - Production Marketing Document - For Consultant Use Only

TRR Evaluation Results

Henry Luu & Pete Rude



2.46 - Production Meeting Document - For Consultant Review Only

Terminal Regulating Reservoir (TRR) Sizing

- TRR is currently sized at 600 ac-ft
 - Both TRR East and TRR West
 - Sized to hold volume associated with an emergency scenario (1,800 cfs diverted into Main Canal but unable to pump to Sites Reservoir) for 4 hours = 26 million cubic feet
- Staff has been working with GCID since Fall 2021 on optimizing size of TRR
 - How much water can be stored within existing Main Canal?
 - How much water can be released through local facilities (creeks/drains)?

Draft - Predecisional Working Document - For Discussion Purposes Only

Results of Canal Storage Calculations

- GCID provided data that was analyzed
 - Storage capacity between Stony Creek Siphon and Norman Check
- During summer there is about 11.8 million cubic feet of potential storage in the Canal
 - Can accommodate up to 46% of emergency scenario
- During winter there is about 14.9 million cubic feet of potential storage in the Canal
 - Can accommodate up to 58% of emergency scenario

Results of Local Facility Release Calculations

- Local facility releases can only occur in the **Summer**
- 7 existing locations for release of emergency water into local creeks/drains
- Total potential releases estimated at 620 cfs
 - GCID staff indicated estimate may be high based on operations and may be closer to 300 cfs. Requires validation by GCID.

Draft - Preliminary Working Document - For Discussion Purposes Only

Summary of Analysis

- Current TRR design emergency storage volume over 4 hours = 26 million cubic feet = 600 ac-ft
- Summer Operations
 - Canal emergency storage volume is 11.8 million cubic feet, which is about 46% of the design emergency storage volume = 270 ac-ft
 - Canal emergency releases at seven release locations can potentially accommodate about 300 cfs (requires validation) = 100 ac-ft, assuming steady state flow
 - Closing the gates at checks and opening emergency releases to local creeks and drains can potentially provide storage and release capacity within the Main Canal of up to 370 ac-ft
- Winter Operations
 - Canal emergency storage volume is 14.9 million cubic feet, which is about 58% of the design emergency storage volume.
 - Closing the gates at checks should provide storage capacity within the Main Canal of up to 340 ac-ft

Draft - Preliminary Working Document - For Discussion Purposes Only

Preliminary Findings and Next Steps

- TRR size for emergency storage could potentially be reduced
 - Minimum size for summer operation is about 230 ac-ft
 - Minimum size for winter operation is about 260 ac-ft
- GCID staff are reviewing analysis results and will validate potential TRR size reduction
- The engineering team will incorporate potential TRR optimization as part of preliminary engineering (30% level of design)
- For reference, a potential TRR West (400 ac-ft) concept is shown on the next slide

Draft - Preliminary Working Document - For Discussion Purposes Only



Draft - Preliminary Working Document - For Discussion Purposes Only

Questions?



2.46 - Production Marketing Document - For Consultant Use Only

Colusa Basin Drain Agreements Overview

JP Robinette



2.46 - Production of the Document - For Consultant Purposes Only

Questions?



2.46 - Production Marketing Document - For Consultant Use Only

Geotech Priorities 1A & 1B Goals and Objectives

Henry Luu & Jeriann Alexander



2.46 - Production of the Final Document - For Consultant Review Only

Schedule Development for Priority 1 Field Efforts

OBJECTIVE 1. Develop a schedule which factors in:

- Engineering Team defined lists of data collection needs.
- Real Estate Team understanding of property owner considerations.
- Environmental Permitting Team guidance regarding the environmental permitting processes and environmental commitments.
- Project Deliverable Team Schedule.

Schedule Development for Priority 1 Field Efforts

OBJECTIVE 2. Be Flexible

Quickly learned that we needed to work within multiple constraints, which are modified to meet the current demands of each group and the project as a whole.

The following slides present the assumptions for establishing the 2022-2024 geotech investigation work schedule.

Schedule Development for Priority 1 Field Efforts

- Engineering goals include:
 - Complete 30% design by the end of 2023, and
 - Prepare Class 3 Cost Estimate early 2024.
- Initial development of the field investigation work plan was based on project design features and had limited considerations for property ownership and access challenges.
- Real Estate Team identified that owners may not want large excavations and/or permanent features like piezometers on their properties – this will require coordination as part of engagement with landowners.

Schedule Development for Priority 1 Field Efforts

- The engineering team re-evaluated and developed a critical path schedule of data collection, based on current understanding of landowner and access challenges, in support of engineering goals.
- All excavations (Test Pits, Fault Trenches, Dozer Lines) were removed from the P1 Geotechnical Permit documents to avoid a delay in receiving approval from the reviewing agency.
 - Excavation activities may occur after the completion of the final environmental document – estimated to begin within 2023.
- Eagle survey from the recent first phase of data collection will have an impact on the schedule shared today.

Priority 1 Working Schedule

The working schedule is:

- based on KNOWN constraints, and
- will allow gathering the most relevant ACCESSIBLE DATA to support advancement of engineering activities.

Location of work and property owners are identified alongside potential access routes through properties.

Obtaining landowner approval AND securing access routes are equally critical steps in planning field activities.

Priority 1 Working Schedule - 2022

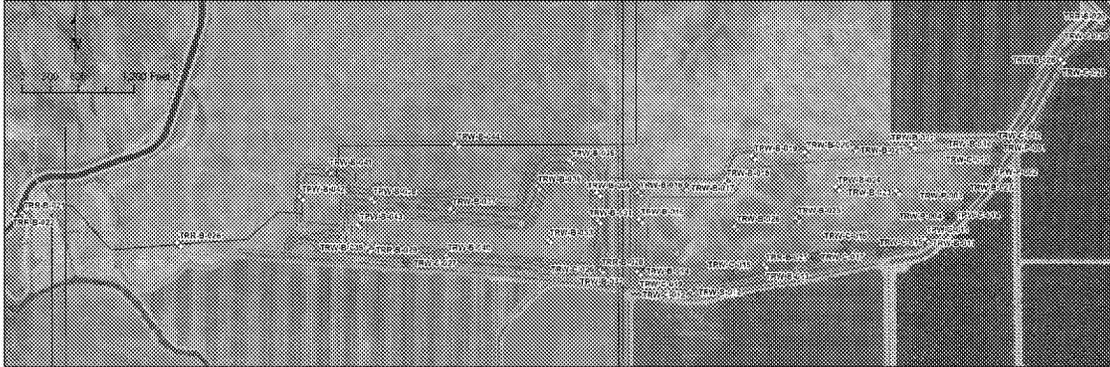
Summary of Planned P1A and P1B Geotechnical Investigation - Sites Reservoir Project - Rev. 02082022

2022 Scope of Work			
Q1			
TRRW Early Evaluation	14 Borings/CPTs, 4 Piezometers	Work Area Holthouse	Routes Cotusa County Roads, TOCA, Holthouse
Q2			
Planning for Q3/Q4 and Awaiting for Environmental Permit Approval			
Q3			
Geologic Research/Mapping	GCID	GCID	Glenn County Roads
	GG Dam	Jensen, Wells	Not Identified
	Sitas Dam - Northern Areas	Cody Arnold	Not Identified
	Sitas Dam - Southern Areas	Banyan Transport	Not Identified
	Saddle Dams 3, 5, 8	Owens	Owens, Glenn Co Roads, Logan
	Saddle Dams 3	Unknown Owner	LaGrande?, or Owens, Glenn Co Roads, Logan
GC-D	2 Borings	GCID	Glenn County Roads
TRRW	21 Borings/CPTs/6 Piezometers, IRES	Holthouse	Cotusa County Roads, TOCA, Holthouse
Seismic Refraction	GG Dam - 3	Jensen	Not Identified
	GG Quarry - 1	Jensen	Not Identified
	GG Quarry - 1	LaGrande	Not Identified
	Sitas Dam - 1	Banyan Transport	Not Identified
	Sitas Dam - 2	Cody Arnold	Not Identified
	Sitas Dam - 2	Cotusa County	Cotusa County Roads
	Sitas Quarry - 3	Ped Stock	Not Identified
	Sitas Quarry - 2	Cody Arnold	Not Identified
	Saddle Dams - 3,5,8	Owens	Glenn County Roads, Logan, Owens,
	Saddle Dams - 3	Unknown Owner	Glenn County Roads, Logan, Owens, Unknown Owner
	Saddle Dam Quarry - 4	Owens	Glenn County Roads, Logan, Owens

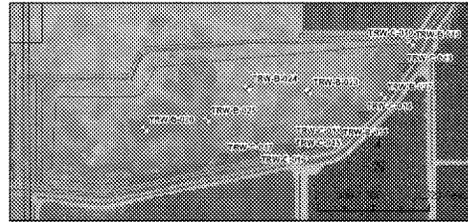
Priority 1 Working Schedule - 2022

Q4	Work Area		Routes
Geologic Research/Mapping	Dunnigan Funks	Ritchie Bros, P Doherty and many others Govt, LaGrande, Teys	Yolo County Roads Not identified
Dunnigan	7 Borings/CFTs/1 Piezometers	Govt, Ritchie Bros, P Doherty	Govt, Ritchie Bros, P Doherty
Funks	5 Borings/2 Piezometers, IRES	Govt	Colusa County Roads, Govt, TCCA
HO Tower	1 Boring	Banyan Transport	Colusa County Roads and Banyan?
Saddle Dam 3	5 Borings/2 Piezometers	Owens	Glenn County Roads, Logan, Owens
Saddle Dam 5	4 Borings/1 Piezometers	Owens	Glenn County Roads, Logan, Owens
Saddle Dam Quarry	3 Borings/1 Piezometers	Owens	Glenn County Roads, Logan, Owens
Roads	8 Borings/Pavement Cores	Owens, Glenn County and Colusa County	North Access Sites Ladoga, Maxwell Sites, Road D, McDermott

Early Evaluation of TRR West



TRR West Early Evaluation Area



Priority 1 Working Schedule - 2023

2023 Season of Work		Work Area	Notes
GG Dam	11 Borings/1 Piezometer	Jensen	Not identified
GG Dam Quarry	2 Borings/1 Piezometer	Jensen	Not identified
GG Dam Quarry	2 Borings/1 Piezometer	LaGrande	Not identified
Sites Dam - Northern Areas	2 Borings	Cody Arnold	Not identified
Sites Dam - Southern Areas	6 Borings/1 Piezometer	Banyan Transport, Colusa County	Not identified
Sites Dam Quarry	2 Borings/1 Piezometer	Red Stick Farms	Not identified
Sites Dam Quarry	1 Boring/1 Piezometer	Cody Arnold	Not identified
HO Tower	1 Boring	Wells	Not identified
HO Tower	2 Borings	Cody Arnold	Not identified
Borrow Areas	6 PI Borings	GGB, SB, SDB	Not identified
Dunnigan	1 Boring	Brothers Doherty	Not identified
Dunnigan	1 Boring	Mountanos	Not identified
Dunnigan	3 Borings/CPTs/1 Piezometers	Unknown Owner	Not identified
TRRW	4 Borings/CPTs	Helthouse	Colusa County Roads, TCCA, Helthouse
TRR Pipeline	5 Borings/CPTs	Unknown Owner along GCO canal road	Not identified
Funks	4 Borings	Jensen(E) and Govt (S)	Colusa County Roads, TCCA, Govt and Jensen
Roads/Bridges	15 Borings	Moeths, Parker, Johnson, Colusa and Glenn County Unknown Owners	Not identified
GG Dam Borrow	2 TP/Boring	Wells	Not identified
Sites Dam Borrow	1 TP/Boring	Debra Kelllogg	Not identified
Sites Dam Borrow	1 TP/Boring	Colusa County Owner Unknown, Town of Sites Area	Not identified
Saddle Dam Borrow	2 TP/Boring	Glenn County Owner Unknown	Not identified
HO Tower	2 Flash Trenches	Wells	Not identified
HO Tower	1 Flash Trenches	Red Stick Farms	Not identified

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Priority 1 Working Schedule - 2023

Q3 & Q4		Work Area	Routes
Sites Dam	2 Borings/1 Piezometer	Colusa County Road	Not identified
Saddle Dam 3	1 Boring	Owens	Glenn County Roads, Logan and Owens
Saddle Dam 5	1 Boring/1 Piezometer	Glenn County Owner Unknown	Glenn County Roads, Logan and Owens, La Grande?
Saddle Dam 8	2 Borings	Owens	Glenn County Roads, Logan and Owens
GG Dam Quarry	2 Borings	Jensen	Not identified
GG Dam Quarry	2 Borings/1 Piezometer	LaGrande	Not identified
Sites Dam Quarry	1 Boring	Red Stick Farms	Red Stick?
IO Tower	1 Boring	Banyan Transport	Colusa County Roads, Banyan, Jensen, Red Stick
IO Tower	1 Boring	Wells	Colusa County Roads, Banyan, Jensen, Red Stick
GG Dam	4 Borings/2 Piezometers	Jensen	Colusa County Roads, Govt, TCCA, Jensen?
TRR Pipeline	6 Borings	Govt (5), Halthouse (1)	Colusa County Roads, Govt, TCCA, Halthouse
Roads	18 Pavement Cores	Owens, Glenn County and Colusa County	Rd 68, Rd 69, Sites Ladoga, Maxwell Sites, North Access, McDemott, Road D
Roads	1 Pavement Cores	Johnson	Rd 68
Roads	1 Pavement Cores	Red Stick Farms	Sites Ladoga
Geologic Research/Mapping	Saddle Dam 1	LaGrande	Not identified
	Saddle Dam 2	LaGrande	Not identified
	Saddle Dam 6	Owens	Glenn County Roads, Logan and Owens
	GG Mapping 2	Wells, Jensen	Not identified
	IO Mapping	Wells	Not identified

Priority 1 Working Schedule - 2023

Q3 & Q4		Work Area	Routes
Seismic Refraction	GG Dam - 4	Jensen (3), Wells (1)	Not identified
	GG Quarry - 2	Jensen	Not identified
	GG Quarry - 1	LaGrande	Not identified
	Site Dam - Northern Areas - 2	Cody Arnold	Not identified
	Site Dam - Southern Areas - 3	Banyan Transport	Not identified
	Saddle Dam 3 - B	Owens	Glenn County Roads, Logan, Owens
	Saddle Dam 5 - 2	Owens	Glenn County Roads, Logan, Owens
	Saddle Dam 8 - 1	Owens	Glenn County Roads, Logan, Owens
	Saddle Dam Quarry - 2	Owens	Glenn County Roads, Logan, Owens
	Saddle Dam Quarry - 1	Glenn County Owner Unknown	Glenn County Roads, Logan, Owens, Unknown, LaGrande?
	Sites Dam Quarry-2	Red Stick Farms	Red Stick?
	HM Road-5	Mathis, M Dcherty, Parker	Not identified
	Golden Gate Dam	1 Fault Trench	Jensen
Saddle Dam 2	1 Fault Trench	LaGrande	Not identified
Saddle Dam 5	1 Fault Trench	Owens	Glenn County Roads, Logan, Owens
Sites Dam	2 Fault Trench	Banyan Transport	Not identified
GG Dam	3 Fault Trenches	Jensen	Not identified
GG Dam Quarry	3 Dozer Lines	LaGrande	Not identified
Saddle Dam Quarry	3 Dozer Lines	Owens	Glenn County Roads, Logan, Owens
Sites Dam Quarry	1 Dozer Line	Red Stick Farms	Red Stick?

Features which Involve Parcels w/ Multiple Owners

Sites Dam

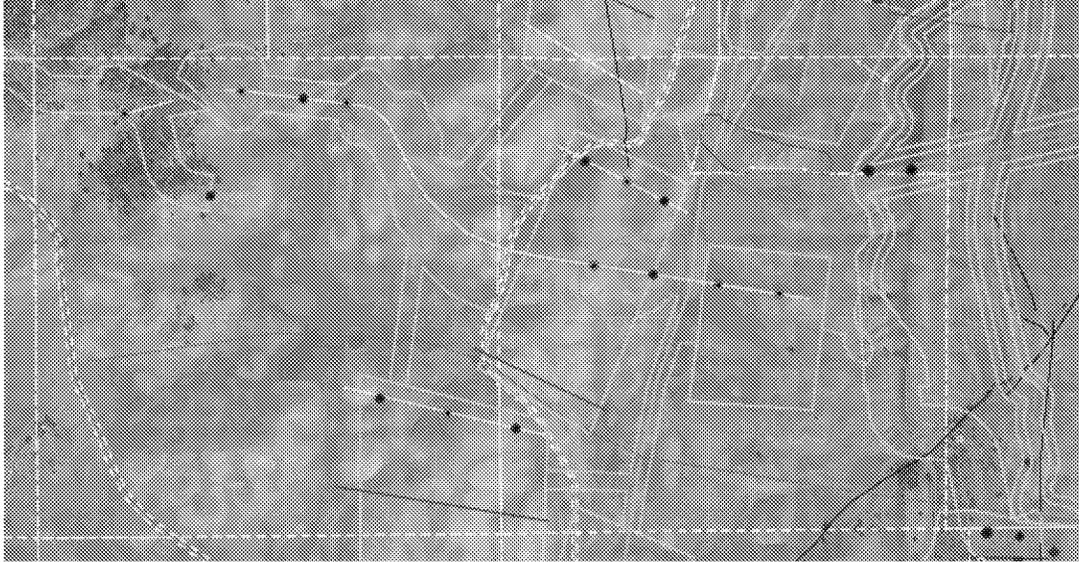


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Critical Features which Are Located on Parcels with Owners who Have Concerns

Sites Ladoga Road Re-alignment

IO Tower



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Critical Features which Are Located on Parcels with Owners who Have Concerns

TRR West tie-in to GCID Canal



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Priority 1 Working Schedule - 2024

2024 Scope of Work		Work Area	Routes
Sites Dam Borrow	1 Test Pits	Christy Lee Shelgrove	Not Identified
Saddle Dam Borrow	5 Test Pits	Owens	Glenn County Roads, Logan and Owens
Saddle Dam Borrow	2 Test Pits	Glenn County Unknown Owner	Glenn County Roads, Logan, Owens, Unknown, LaGrande?
Saddle Dam Borrow	2 Test Pits	LaGrande	Not Identified
GG Dam Borrow	5 Test Pits	Wells	Not Identified
Saddle Dam Quarries	5 Test Pits	Owens	Glenn County Roads, Logan and Owens
Saddle Dam Quarries	1 Test Pit	Glenn County Unknown Owner	Glenn County Roads, Logan, Owens, Unknown, LaGrande?
GG Dam Quarry	2 Test Pits	Jensen	Not Identified
GG Dam Quarry	6 Test Pits	LaGrande	Not Identified
Sites Dam Quarry	5 Test Pits	Cody Arnold	Not Identified
Sites Dam Quarry	2 Test Pits	Red Stick Farms	Not Identified
TAR Pipeline	4 Test Pits	Holthouse	Colusa County Roads, TCCA, Holthouse
Funks	2 Test Pits	Jensen	Not Identified
Funks	1 Test Pits	Red Stick Farms	Not Identified
Dunnigan	1 Test Pit	Aulman LLC	Not Identified
Dunnigan	1 Test Pit	Morgan Twin Holdings LLC	Not Identified
Saddle Dam B	1 Boring	Glenn County Unknown Owner	Glenn County Roads, Logan, Owens, Unknown, LaGrande?
Roads	1 Boring	Red Stick Farms	Sites Lagoda
Roads	1 Boring	B&G Ranches	Sites Lagoda
Roads	5 Borings	Machis, Parker, M Cooherty	HM

Priority 1 Working Schedule - 2024

2024 Scope of Work	Work Area	Routes
Currently inaccessible Higher Priority Listed Locations	Test Pits (2) Pavement Cuts (2) Barings (12) Seismic Retractor (5) Geologic Mapping Area	Jennings, Glade, Logan Land and Stock, Etchepare Not identified Slick Dam, Jennings, Not identified
Currently accessible Other P1A and P1B Requested Locations	Test Pits (1) Pavement Cuts (2) Barings (2) Seismic Retractor (12) Geologic Mapping Area	Jennings, Glade, Logan Land and Stock, Not identified Slick Dam, Logan Land & Stock, Not identified
Other P1 locations if funding made available		

Questions?



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Engineering Survey/Mapping Activities Overview

Conner McDonald



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Process for Land Survey & Mapping

- Primary Control GPS Observations at Set Points
 - Dunnigan and CBD area (20 locations) – Week of Feb 7
 - Sites Area (20 locations) – Week of Feb 14 or Feb 21
 - Requires access to private properties to get to and set Primary Control Points
- Set Aerial Control Survey/targets
 - Sites Area – Feb 21 through March 11
 - Dunnigan and CBD area – March 14 – March 28
 - Requires access to private properties to get to and set Aerial Targets

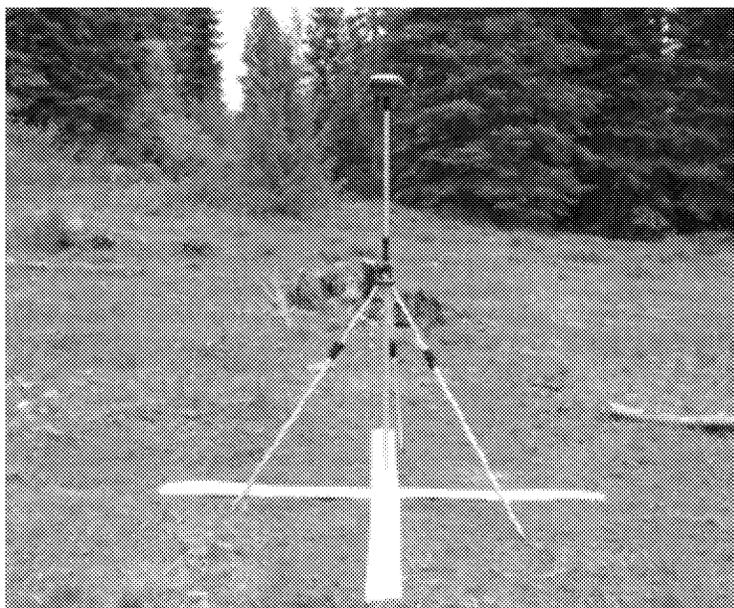
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Process for Land Surveying and Mapping

- Fly LiDAR by week of Feb 7th or Feb 14th
- Fly Aerial Photography by April 1
 - Once Aerial targets in place (depends on private property access)
 - Ideally prior to leaf out
 - Need by April 1 to meet schedule
- Process data and create topographic mapping
 - HR Reservoir & Roads: April through July
 - HC Conveyance: April through July

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Aerial Target with GPS unit 6-ft tall



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Questions?



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Action Items & Closing Comments



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Thank You!

Next Meeting: TBD

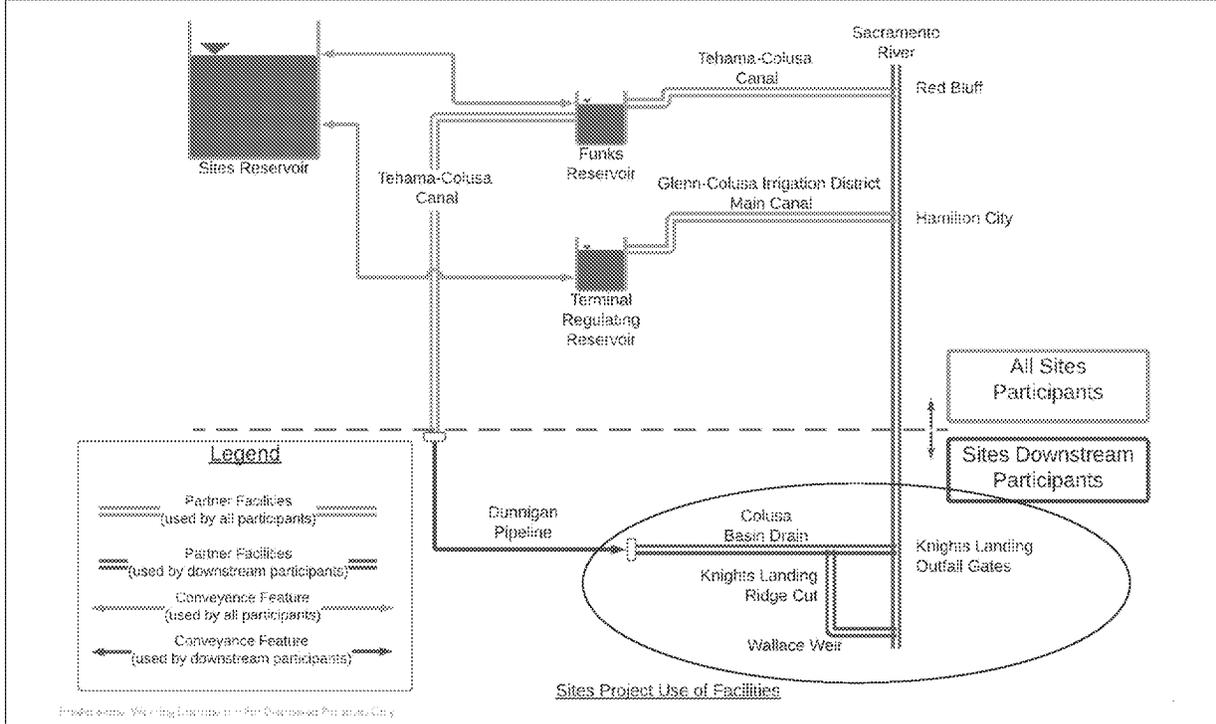


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Sites and the Colusa Basin Drain



Highlighting some of the areas we will be discussing today.

Draft Colusa Basin Drain Agreements for Use of Facilities

Agency / Owner	Agreement Type	Project Facility
TBD, possibly Morgan Twin Holdings LLC	Property Acquisition, Access, Flowage Easement	Sites CBD Discharge Structure
USDA	Access (conservation easement)	Sites CBD Discharge Structure
RD108	Access, Flowage Easement	Colusa Basin Drain
Knights Landing Ridgecut Drainage District	Access, Flowage Easement	Colusa Basin Drain
R & J Farms INC	Access, Flowage Easement	Colusa Basin Drain
Central Valley Flood Protection Board	Use Permit	Colusa Basin Drain East Levy
DWR	Operations	KLOG
RD108	Operations	Wallace Weir
Colusa Drain Mutual Water Company	Operations MOU	Colusa Basin Drain
Colusa Basin Drainage District	Operations MOU	Colusa Basin Drain
Yolo County	TBD	All Above

Non-comprehensive list, as part of public agency negotiations

Validating this week with RD108 and the Land Management Committee, but this will be a living document.

The vast majority of the in-drain underlying land is owned by RD108 or Knights Landing Ridgecut Drainage District

Important items of note:

Engineering is working on the hydraulic modeling of the drain. The O&E WG has discussed improvements to the R&J Farms Property and the owner is very cooperative, supportive, and practical.

Initial conversations with DWR were limited in progress. Our use of the drain requires them to change the setpoint of the KLOG, which controls flow from the drain into the river. Discussing with RD108 how to proceed. Wallace weir is a potential model: operated by RD108, funded by state water contractors.

The California Rice Commission has done significant work modeling water quality on the CBD. Sites impact will be positive, and the commission is interested in working with us to quantify.

From: Andrew Garcia [AndrewGarcia@valleywater.org]
Sent: 2/9/2022 12:46:37 PM
To: Heydinger, Erin [erin.heydinger@hdrinc.com]
CC: Alicia Forsythe [aforsythe@sitesproject.org]
Subject: RE: Confirmation of Dry/Critical Year Annual Yield Info

This is very helpful, thank you for the prompt response!

ANDREW GARCIA, PE

Senior Engineer
Imported Water Unit
Tel. (408) 630-2817 / Cell (408) 390-5569
AndrewGarcia@valleywater.org



SANTA CLARA VALLEY WATER DISTRICT
5750 Almaden Expressway, San Jose CA 95118
www.valleywater.org

Clean Water • Healthy Environment • Flood Protection

From: Heydinger, Erin <Erin.Heydinger@hdrinc.com>
Sent: Wednesday, February 9, 2022 10:13 AM
To: Andrew Garcia <AndrewGarcia@valleywater.org>
Cc: Alicia Forsythe <aforsythe@sitesproject.org>
Subject: RE: Confirmation of Dry/Critical Year Annual Yield Info

Hi Andrew,

When you say total average annual yield, is that the average for years when water is released? The 234 TAF/year is correct with the latest modeling for Alternative 1B over all year types.

The releases are 449 TAF for dry years and 338 TAF for critical years under Alt 1B. I am not sure the source of the original numbers (e.g. 385 TAF, 235 TAF) so I did not double check those.

Hope that helps – feel free to give me a call if anything I provided is unclear.

Thanks,
Erin

Erin Heydinger PE, PMP
D 916.679.8863 M 651.307.9758

hdrinc.com/follow-us

From: Andrew Garcia <AndrewGarcia@valleywater.org>
Sent: Wednesday, February 9, 2022 9:54 AM
To: Heydinger, Erin <Erin.Heydinger@hdrinc.com>

Cc: Alicia Forsythe <aforsythe@sitesproject.org>

Subject: Confirmation of Dry/Critical Year Annual Yield Info

CAUTION: [EXTERNAL] This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Good Morning Erin –

Working on our upcoming Board/Committee PowerPoint presentations...

Can you please confirm the estimated average dry/critical year annual yield? I will be presenting an average annual yield of 390 TAF based on the below information I located in Eric's notes:

- Results Summary (not including carriage loss)
- Average total project yield down from 243 TAF/yr to 234 TAF/yr
- Dry year average up from 385 TAF/yr to 427 TAF/yr
- Critical year average up from 235 TAF/yr to 348 TAF/yr

ANDREW GARCIA, PE

Senior Engineer

Imported Water Unit

Tel. (408) 630-2817 / Cell (408) 390-5569

AndrewGarcia@valleywater.org



SANTA CLARA VALLEY WATER DISTRICT

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SITES PROJECT AUTHORITY

February 1, 2022

Tribal Council

Anthony Roberts
Chairman

James Kinter
Secretary

Mia Durham
Treasurer

Diamond Lomeli
Member

Yvonne Perkins
Member

Via Email to: EIR-EIS-Comments@SitesProject.org

Sites Project Authority
P.O. Box 517
Maxwell, CA 95955

United States Bureau of Reclamation
2800 Cottage Way, W-2830
Sacramento, CA 95825

RE: Comments of the Yocha Dehe Wintun Nation on the Revised Draft Environmental Impact Report/Supplemental Draft Environmental Impact Statement for the Sites Reservoir Project

Dear Sir or Madam:

I write on behalf of the Yocha Dehe Wintun Nation, a federally recognized tribal government whose ancestral territory includes the land now known as Yolo County and Colusa County, to provide Yocha Dehe's initial comments on the Revised Draft Environmental Impact Report/Supplemental Draft Environmental Impact Statement ("REIR/SDEIS") for the Sites Reservoir Project.

As the Yocha Dehe Cultural Resources Department explained to Janis Offermann in early January, the REIR/SDEIS appears to have omitted important information about Tribal Cultural Resources – including village sites – within the Project footprint. Without that information, meaningful review and comment on the REIR/SDEIS – and the Project itself – is simply not possible.

We also explained to Ms. Offermann that Yocha Dehe will require a few weeks to identify, compile, and review the specific information omitted from the REIR/SDEIS, at which point the Tribe intends to submit further comments. We trust no action on the Project will be taken in the interim.

Please contact Director of Cultural Resources Laverne Bill at lbill@yochadehe-nsn.gov or Attorney General Paula Yost at pyost@yochadehe-nsn.gov if you have any questions.

Wile bo,

Anthony Roberts
Tribal Chairman

Yocha Dehe Wintun Nation

PO Box 18 Brooks, California 95606 p) 530.796.3400 f) 530.796.2143 www.yochadehe.org

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Project Status Briefing – Rep. Thompson’s Staff
February 22, 2022
11:00 am Pacific/2:00 pm Eastern

AGENDA

1. Introductions
2. Update on State Permitting Activities
 - a. CWC Prop 1 Feasibility Determination
 - b. CDFW Permitting Discussions
 - i. Diversion Criteria
3. 2021 RDEIR/SDEIS Comments
 - a. Overall Stats
 - b. Opposition Summary
 - c. Action Needed - Encourage parties to fix vs fight
4. Reclamation Participation
 - a. Moving to Increased Reclamation Investment – federal funding picture improved substantially
 - b. Coordination with other significant statewide water mgmt. – interim Ops, VA’s, Other Prop 1 projects
 - c. Action Needed – Encourage additional Reclamation participation
5. WIFIA LOI
 - a. EPA and Reclamation Support
 - b. OMB Review
 - c. WIFIA savings to project beneficiaries – ag, M&I, and the environment
 - d. Action Needed – Encourage approval of pending WIFIA LOI
6. Major Upcoming Activities
 - a. Water Rights Application
 - b. BA/ITP Permit Applications
 - c. Final EIR/EIS
 - d. Overall Schedule Challenges



P.O. Box 517
Maxwell, CA 95955
530.438.2309

Draft Hydropower Flow Release Assessment

Technical Memorandum



To: Sites Project Authority
CC: Henry Luu, P.E., HDR
Date: June 14, 2021
From: Christine Vangelatos, ZGlobal
Wayne Dyok, H2O EcoPower
Quality Review by: Peter Rude, P.E., Jacobs
Authority Agent Review by: Henry Luu, P.E., HDR
Subject: Sites Hydropower Flow Release Assessment

1.0 Introduction

1.1 Project Description and Objectives

The Sites Reservoir Project is a water supply project. The Sites Reservoir is a 1.5 million acre-feet (MAF), offstream storage reservoir. The project requires water to be pumped from the Sacramento River during periods of high flow to two smaller reservoirs (Funks and the Terminal Regulating Reservoir [TRR]) via two canals. From Funks and the TRR, water will be pumped into the Sites Reservoir. The Sites Project Authority (SPA) desires to recapture the pumping energy during periods of water supply release. The objectives of the current hydropower task are to: (1) update and quantify energy and capacity values based on CAL SIM II flow modeling, and (2) reassess turbine specifications.

1.2 Background

Over the past 2 years, the Sites Project has been reconfigured to provide 1.5 MAF of water supply storage. Previously, the SPA had considered a 1.8 MAF Sites Reservoir, but determined that a 1.5 MAF reservoir or smaller size better meets their needs.

In the previous studies for the 1.8 MAF Sites Reservoir, it was presumed that there would be both energy recovery facilities at Funks and TRR, and additional pumped storage capability either at Funks or an alternative reservoir named Fletcher. The generation capacity was estimated to be on the order of 120 megawatts (MW). However, studies conducted for the U.S. Bureau of Reclamation (Reclamation) and the SPA indicated that the pumped storage component was marginal based on capacity and energy values

Status:	Draft [Template]	Preparer:	Phase:	2	Revision:
Filename:	Appendix G Sites Hydropower Flow Release Tech Memo clean.docx	Reviewer:	Date:	June 22, 2021	
Notes:		Authority Agent:	Page:	1	of 10

assumed at the time.¹ Pumped storage is not currently considered a component of the project. However, as described in this technical memorandum (TM), there are potential opportunities for the SPA to make adjustments to project operations to earn significant additional revenue without compromising pumping or water supply releases.

Studies for the 1.8 MAF Sites Reservoir assumed a maximum pumping rate of 5,900 cubic feet per second (cfs) and a maximum generation rate of 5,100 cfs. For the 1.5 MAF Sites Reservoir, the maximum pumping rate is set at 3,900 cfs (2,100 cfs from Funks Reservoir and 1,800 cfs from the TRR). The maximum Sites Reservoir elevation is 497.6 feet (mean sea level), which corresponds to 1.5 MAF of total storage. The minimum reservoir level is at about elevation 340 feet, corresponding to a capacity of about 120,000 acre-feet (ac-ft).² Maximum release flows are established at 2,000 cfs to Funks Reservoir and 1,000 cfs to the TRR. Two 12-foot-diameter pipes connect Sites Reservoir with Funks; two additional 12-foot-diameter pipes connect Sites Reservoir with the TRR.

Funks Reservoir has a usable capacity of 1,170 ac-ft between elevations 199.5 and 205.2 feet and a dead storage of 1,080 ac-ft below elevation 199.5 feet.³ The TRR has a maximum water level of 124 feet. Typically, the TRR is operated between elevation 123 and 123.2 feet in the summer and 121.8 feet in the winter. It is assumed to have a storage capacity of 446 ac-ft. The SPA is considering relocating the TRR because of geotechnical concerns. The live storage volume may be adjusted. For this TM, the TRR storage is assumed to be sufficient to operate the TRR project in a manner that maximizes the value of the flow release energy.

Each of the two 12-foot-diameter pipes connecting Sites to Funks will have a maximum release flow of 1,000 cfs. Jacobs has calculated the total head loss at 18.1 feet during periods of maximum head and maximum release flow. The head loss between Sites and the TRR is estimated to be 14.1 feet at maximum head and maximum release flow. Release flows from Funks and the TRR will be discharged to the Tehama-Colusa Canal and the Glenn-Colusa Irrigation District (GCID) Main Canal, respectively. These flows will be continuously released to meet release targets.

2.0 Initial Turbine Sizing

Based on the head differential at Funks and TRR, maximum pipeline flows and associated head loss, two 21.4 MW turbines (totaling 42.8 MW) were preliminarily sized for Funks energy recovery. At the TRR, two 13.8 MW turbines (totaling 27.6 MW) could be installed for an approximate total maximum generating capacity of about 70 MW.⁴

Three turbine suppliers provided technical assistance on turbine design details and cost information: Mavel, General Electric, and Voith. Other suppliers will be contacted as the design progresses. Table 1 provides the information on which the turbine suppliers were asked to size the turbines.

At Funks early in the analysis, it was determined that one turbine cannot operate over the full range of Sites Reservoir fluctuations. Therefore, either two different turbines will be needed at Funks with an overlap in operating heads, or two identical turbines will need to be selected and energy recovery unavailable at Sites

¹ The results of the pumped storage study were based upon capacity valuation requirements adopted by California Independent Service Operators (CAISO) at the time the study was conducted. Considerable literature now exists suggesting capacity values are substantial under existing regulations and could become even higher in the future.

² Monthly and daily flow modeling by Jacobs indicates that there are times when the Sites Reservoir is drawn below elevation 340 feet.

³ The storage at Funks may be further adjusted as the design process unfolds.

⁴ The turbine design head is normally set at the head at which the project most frequently operates and provides the best operational efficiency. However, the turbine design also includes the maximum and minimum operating parameters.

Reservoir levels below the turbine operating range. For the former case, if releases are greater than 1,000 cfs and outside the head overlap band, then some energy may not be recaptured.⁵

TABLE 1. PROJECT OPERATION DATA⁶

	Funks Reservoir	TRR
Max. Sites Water Elev. (ft)	497.6	497.6
Min. Sites Water Elev. (ft)	340	340
Max Water Lower Res. Elev. (ft)	205	124
Min Water Lower Res. Elev. (ft)	199.5	119
Max Static Head (ft)	298.1	378.6
Min Static Head (ft)	135	216
No. Inflow Pipelines (12-ft diam.)	2	2
Total Generation Flow (cfs)	2,000	1,000
Flow per Turbine (cfs)	1,000	500
Pipe and Minor Head Loss (ft)	18.5	18
Turbine efficiency (percent)	90	90
Max Generation (MW)	42.8	27.6
Max Generation at Min Head (MW)	17.7	15.0
Design Head (ft)	210	290

The suppliers provided turbine design data for both Funks and TRR based on operation at the maximum head and maximum generation flow (that is, identical units at Funks and identical units at TRR). Two additional cases were also examined: (1) a turbine that would operate at a lower head most of the time⁷, and (2) a turbine that would operate down to the lowest Sites Reservoir level of 340 feet. The latter design indicates how much overlap would be between units. These two cases were identified to recover as much of the pumping energy as possible without adding a third turbine. Suppliers also provided information on generators, controls, electrical interconnections, turbine submergence for civil design, and cost.

This TM provides information necessary to update turbine designs of the units at both Funks Reservoir and TRR. This information includes monthly water level exceedance curves during the primary release period and potential capacity values based on existing California Independent Systems Operations (CAISO) regulations. Both the Funks and TRR turbines are expected to operate at their maximum hydraulic capacities during flow releases to maximize energy and capacity revenues. This operational strategy maximizes daily revenue because the energy price differential during the peak demand hours is much greater than at other times of the

⁵ Jacobs has contacted the turbine suppliers and requested that they incorporate updated energy and capacity modeling information at different operational heads to optimize turbine sizes. A revised TM may be provided in July 2021 if the turbine suppliers recommend slightly different sizes based on updated modeling information.

⁶ The head loss values at full capacity flows for both Funks and TRR in Table 1 have since been slightly modified to 18.1 and 14.1 feet, respectively.

⁷ Based on review of the modeling results for the 1.8 MAF Sites Reservoir alternative, the water level in Sites Reservoir appeared to be well above the minimum water level for most years most of the time. Therefore, the period when the energy would not be recoverable is expected to be small.

day, despite higher energy losses resulting from the higher flows (such as, during the month of August, when energy prices vary from a maximum of \$93.93 per megawatt-hour [MWh] to a minimum of \$7.86 per MWh). For example, providing 1,000 cfs for 2 hours is better than providing 500 cfs for 4 hours (or lower flows for longer periods) because the average price for 2 hours multiplied by the amount of energy generated exceeds the average price for 4 hours multiplied by the amount of energy generated. During the detailed design phase, operations may be adjusted somewhat, but the primary operating premise generally will be to operate at maximum flow capacity.

For TRR operations, the maximum generation at the maximum 1,000 cfs flow capacity and maximum net head will be about 27.6 MW. The design head will be selected to provide about 1,000 cfs of flow over a large range of heads. Therefore, the design capacity for each unit is likely to be 10 to 12 MW at the rated design head.

At Funks, because the maximum capacity for a conduit exemption is 40 MW, the two turbines will have a maximum total design capacity no greater than 40 MW. The maximum output of either turbine will be about 21.4 MW (that is, 1,000 cfs at a head of 278 feet). (Note that these units can produce more than the unit design capacity at maximum head and maximum flow.) Therefore, the total capacity for the 4 turbines could vary between 64 and 58.5 MW. For the 58.5 MW option, energy could be recaptured over the entire head range, but when release flows exceed 1,000 cfs at Funks the energy associated with the excess release might not be recoverable.

The suppliers should provide updated design drawings in July 2021. Previously provided dimensions for the initial sizing of turbines should be reasonably close to the final design dimensions for the turbines and generators.

Available literature for turbines, generators, and controls suggests that costs for the electromechanical components can vary significantly. Price data provided by the suppliers included only costs for specific components. At this stage of design, a wide price band with an upper limit cost of \$2,000 per kilowatt was established for the turbines, generators, controls, civil works costs for the turbine/generator installation and other related costs. The resulting upper limit capital cost would be \$128 million. Based on Jacobs' experience, the costs could be as low as \$60 million (that is, \$1,000 per kilowatt). For the economic analysis, the higher cost was used, so as to be conservative.

Suppliers generally agreed that a 2-year schedule for manufacture and delivery of the turbines and generators was reasonable. The procurement schedule will be refined as the design proceeds.

3.0 Methodology

In 2020 and the first quarter of 2021, Jacobs conducted a detailed modeling assessment of pumping and water conveyance through the feeder canals into and out of Funks, TRR, and Sites Reservoir. Initial results of the modeling were a monthly array of inflows and outflows in the canals and reservoirs, and a monthly Sites Reservoir level. Jacobs then converted the monthly data into daily data for the 82 years modeled. This information was provided to H2O EcoPower to estimate the energy and revenue.

H2O EcoPower used and expanded the Jacobs spreadsheet. In addition to the daily flow releases to Funks and TRR, and the end of day Sites Reservoir elevations, columns were added for turbine efficiencies, Funks reservoir levels, TRR reservoirs level, net heads, the average daily Sites Reservoir level, power and energy, power at full flow capacity, hours of operation at full flow capacity, average price for the daily hours of operation, and revenue. Turbine efficiency was assumed at 90 percent.⁸ Although not used for the initial energy and revenue calculations or exceedance values, Table 2 provides Jacobs' estimates for efficiency at Funks and TRR PGP's at different heads. For this analysis, because the Funks turbines have not been

⁸ Modern turbines have efficiencies greater than 90 percent at best gate and design head, but efficiencies will vary with head. Based on available design information, preliminary turbine sizing was undertaken to estimate energy and capacity and to develop turbine/generator cost estimates. Turbine sizes may be modified in consultation with turbine suppliers based on the results in this TM.

optimized and the second turbine might have a lower design head, estimating an approximate upper limit for energy generation was determined to be useful; this estimate also enables turbine alternatives to be evaluated against this maximum. At TRR, the turbines can cover the entire head range. However, because of the lower efficiency between heads of 116 and 188 feet, it may be advantageous to use a lower design head for the second turbine, if the flow releases during the lower operating heads justify the change. Also, the capacity values for which Funks and TRR power generation might qualify will also influence the turbine selection.

TABLE 2. TURBINE EFFICIENCY VERSUS NET HEAD AT FUNKS AND TRR PGPs

Funks Head (feet)	Efficiency	TRR Head (feet)	Efficiency
84	47%	116	47%
94.5	61%	130.5	61%
105	75%	145	74%
115.5	80%	159.5	80%
126	86%	174	85%
136.5	88%	188.5	87%
147	90%	203	89%
157.5	91%	217.5	90%
168	92%	232	91%
178.5	92%	246.5	91%
189	93%	261	92%
199.5	92%	275.5	91%
210	91%	290	90%
220.5	89%	304.5	89%
231	88%	319	87%
246.75	87%	340.75	86%
262.5	86%	362.5	85%

The net heads at Funks and TRR were calculated by subtracting: (1) the average daily water level at Funks and TRR from the Sites water level; and (2) the energy losses at maximum flow. Funks Reservoir elevation and head losses were assumed to be 202 feet and 18.1 feet, respectively, and at TRR the elevation and head losses were assumed to be 121.5 feet and 14.1 feet.

Several project operational strategies were considered. Often, flow releases are below the operating limits of the turbines. One operational strategy is to operate the turbines at the minimum operational flow level, when that level is greater than the flow release, and at the flow release level, when the flow release is greater than the minimal turbine operating flow level. Under this strategy, when the daily flow release (in cfs) is less than the minimum turbine flow, the hours of operation would be less than 24 hours. Accordingly, operations would occur over the higher-value energy hours. This strategy would minimize the head losses between Sites and Funks or TRR, and require a minimal storage amount in Funks and TRR reservoirs.

A second strategy is to operate at the full hydraulic capacity of the turbines during the highest-value hours. Because average hourly energy values vary significantly over the course of a day, more revenue is likely to be

derived from this approach, despite the higher energy losses associated with the higher flows. This approach would require the most storage in both Funks and TRR. A third approach is to consider incremental energy values and associated energy losses at lesser generation flows in the 24-hour period, and then maximize the total revenue. If the net revenue is greater for the successive hour (that is, less average flow and less energy loss, but lower average energy rates), then the following hour would be included for scheduled generation. The next hour would then be included, and so on, until the net revenue is maximized. It is likely that this will be the strategy contemplated for real time operations. However, through simple inspection of the hourly changes in revenue, it appears that operating at maximum flows provides close to the maximum revenue.

For this analysis, both the Funks and TRR turbines were assumed to operate at their maximum hydraulic capacities during flow releases, to maximize energy and capacity revenues. This operational strategy maximizes daily revenue because the energy price differential during the peak demand hours is much greater than at other times of the day, despite higher energy losses resulting from the higher flows. For example, providing 1,000 cfs for 2 hours is better than 500 cfs for 4 hours (or lower flows for longer periods) because the average price for 2 hours multiplied by the amount of energy generated exceeds the average price for 4 hours multiplied by the amount of energy generated.

Power and energy calculations were based on daily flows, net heads, and efficiency. The hours of operation were estimated by taking the daily flow and prorating it to the maximum release flow, then multiplying by 24 hours. For example, a Funks flow of 500 cfs would equate to 6 hours of operation at full capacity.

ZGlobal provided projected 2030 energy prices for each hour of the day, for each month. These prices were averaged for each successional hour to provide average prices for hours of operation from 1 to 24 hours. The average price of energy for the hours of generation was determined. For fractional hours of generation, the average price determined by the lesser hours of operation. For example, under 2.4 hours of operation, the average price was for 2 hours of operation. This resulted in a slight overestimation in revenue for that increment of an hour. Revenue was estimated by multiplying the power at maximum flow (MW) by the number of hours of generation (hours), by the average price for those hours.

The next step was to partition the 82 years of data for each month of the year (for example, 2,642 data rows for a 31-day month). This enabled the data to be sorted by parameter (such as, flow, head, power, hours of generation, energy, and revenue) and exceedance curves to be developed to better understand the sequence, timing, and value of the energy, as well as to use for refining the turbine sizes. Note that the exceedances are not coincidental. Flow and hours of operation are directly correlated, but head and flow have little correlation. The average price of energy is inversely proportional to number of hours of operation. This inverse proportion is logical because as the number of hours of operation are increased, the generation spans more lower priced hours. It is also worth noting that head and flow do not correlate well. Flow releases can be required at virtually any head. Therefore, being able to maintain high flows at lower heads may be important.

4.0 Results

Table 3 summarizes the monthly and annual energy and revenue for the 82-year hydrological sequence. On average, the project generates about 49,200 MWh of release energy annually and an annual revenue of about \$2,525,000 (2020 dollars) based on the 2030 price forecast. If a 40 MW capacity is assumed at Funks and 24 MW at TRR, the annual capacity factor would be less than 10 percent. By itself, this revenue would not be enough to justify installing the turbines. To justify installing turbines, capacity payments would also need to be included. ZGlobal has investigated the capacity value of the project, considering the potential power generation during critical times and the associated availability of providing this power when it is needed. ZGlobal's *TM, Resource Adequacy (RA) Valuation for Sites*, dated May 11, 2021, indicates that the Sites capacity value would vary between \$1.98 and \$2.28 million annually. This value suggests that annual energy and capacity values under current CAISO capacity rules would be about \$4.5 million.

In a June 2, 2021, conference call with the National Hydropower Association, Mr. Milos Basanac of the CAISO summarized the California Public Utility Commission's recent methodology for qualifying capacity for hydropower. In June 2020, the Commission adopted two options for counting hydropower:

- **OPTION 1** – Historical data. Using 10 years of historical bid data, the qualifying capacity amount is calculated monthly for the 50 and 10 percent exceedance values. The 50 percent value is weighed at 80 percent, and the 10 percent value is weighed at 20 percent. Using these weightings is the default, voluntary methodology. This approach is intended to provide flexibility to hydro owners and account for the various constraints of hydro facilities.
- **OPTION 2** – Nameplate capacity with penalties. Alternatively, dispatchable hydro generators can set their qualifying capacities to the nameplate capacity and must offer obligations in the day-ahead market. But in selecting this option, generators would be subject penalties for non-performance during shortage events.

TABLE 3 - MONTHLY AND ANNUAL ENERGY AND REVENUE

	Energy (MWh)			Revenue (\$)		
	Funks	TRR	Total	Funks	TRR	Total
January	46.04114	35.73141	81.77255	3,800	3,071	6,872
February	64.19736	20.84716	85.04452	4,975	1,699	6,674
March	235.8581	13.78262	249.6408	17,568	1,138	18,706
April	1,821.974	200.3905	2,022.364	68,773	9,028	77,802
May	3,086.779	1,338.98	4,425.759	99,740	32,791	132,531
June	6,251.923	1,325.525	7,577.448	216,671	47,248	263,920
July	6,416.295	3,078.12	9,494.415	283,635	112,917	396,553
August	7,588.822	2,374.908	9,963.73	438,139	115,452	553,592
September	5,820.043	960.2757	6,780.318	375,685	76,053	451,739
October	3,558.847	1,514.645	5,073.493	253,221	114,680	367,902
November	1,515.23	1,031.521	2,546.751	98,117	67,538	165,656
December	606.1835	291.9818	898.1653	54,228	28,563	82,791
Totals	37,012.19	12,186.71	49,198.9	1,914,560	610,184	2,524,744

Mr. Basanac also noted that in May 2021, California Public Utility Commission deferred the June 2020 resource adequacy (RA) rule changes to the existing RA methodology to further evaluate the impact of the changes. As CAISO obtains additional information, the changed RA rules may be implemented.

Since the Sites Project is not yet constructed, 10 years of historical data do not exist. However, in response to a generic question from H2O EcoPower, Mr. Basanac responded that for a new project, a project developer could propose a methodology that CAISO would consider. H2O EcoPower believes that for the initial RA valuation, CAISO would accept Sites' 82 years of modeled data to determine RA values.

At this time, Sites has elected not to pursue the project as a pump storage project. However, based on the hours of operation for pumping and releases, there is a great opportunity for energy arbitrage. If a decision is made to pursue energy arbitrage, Sites could earn significant additional revenue. Although the net heads at Funks and TRR are lower than other proposed pump storage projects in California, Sites has a huge advantage over these other projects: only infrastructure for the Sites turbines and generators is needed, whereas the other proposed pump storage projects typically require construction of upper and lower reservoirs, transmission lines, and associated facilities, all of which are already included in the non-hydropower cost for

the Sites Project. Because these projects appear to be economic, some type of pump storage operation that is consistent with water supply releases makes economic sense.

The energy arbitrage can easily be calculated based on the number of hours that are not needed for release flows or pumping, as occurred for the 1.8 MAF Sites Reservoir alternative. Once updated turbine sizes are available from the turbine suppliers, Jacobs recommend that Sites investigate the opportunity to maximize revenue from capacity and energy operations that are not part of the pumping or flow release schedules for water supply, and do not interfere with the base purpose of the project.⁹ H2O EcoPower's analysis also does not include additional dynamic benefits that might be obtained by the project. These dynamic benefits can be incorporated in a future phase of the project.

Jacobs conducted a recent analysis that indicates the average annual pumping is 81,100 MWh. In comparing the average annual generation of 49,200 MW, the overall system efficiency is about 61 percent. Given there is significant net evaporation and friction losses, the round-trip efficiency appears to reasonable.

Release flows in June through October period would account for over 80 percent of the annual project revenue (see Attachment 1). Of this, 21.9 percent of the revenue is generated in August, 17.9 percent in September, 15.7 percent in July, 14.6 percent in October, and 10.5 percent in June. The remaining seven months account for slightly less than 20 percent of the annual revenue.

Attachment 1 presents the exceedances for each month, ranging from the maximum to minimum values and 10 percent increments for the following parameters for both Funks and TRR: (1) average daily release in cfs; (2) generation hours at the maximum generation level; (3) net head on the turbines after subtracting pipeline energy losses; (4) power generated; (5) daily energy in MWh; (6) the 2030 average daily energy price for the number of generation hours; and (7) the daily revenue. Note that these values were sorted from largest to smallest and are not coincidental, except for releases and generation hours. The energy price is inversely proportional to the number of hours of generation because with 1 hour or less of generation, the price is the peak hour price, whereas for 24 hours of operation, the price is the energy price for each hour averaged over the entire day, including off-peak energy prices. Of particular importance for capacity value calculations are the 50 percent and 10 percent exceedance levels for power generation.

For the month of August, the maximum release flow at Funks is 1,480 cfs, well below the 2,000 cfs capacity of the turbines. Therefore, the project would generate for about 17.8 hours on that day. Twenty percent of the time, the release flow is less than 296 cfs, or less than 3.55 hours of operation. This suggests that, even in the highest revenue month, about 20 percent of the time, an opportunity exists to pump water up to the Sites Reservoir for about 5 hours and then release that water during the higher value hours.

The Funks head ranges from 277.7 to 107 feet; however, 90 percent of the time, the head is greater than 135 feet. At 262 feet, the efficiency is less than 86 percent, so at the maximum head, efficiency would be less. At a head of 135 feet the efficiency would be 88 percent, but at 107 feet, it would only be 75 percent; at the design head of 189 feet, the efficiency would be 93 percent. Thus, for this analysis an average efficiency of 90 percent is a reasonable estimate until the suppliers provide the actual efficiencies.

The combination of head and flow is critical for the turbine design. Because there is little correlation between head and flow (that is, significant releases can occur at any head within the flow range and the project is likely to operate at or near maximum flow for the hours of operation), the head duration curve will be the primary parameter used by the manufacturers to size the turbines. In August, 50 percent of the time the head is greater than 229 feet. The initial design contemplated a design head of 210 feet, which may be a reasonable head because decreasing head corresponds to decreasing maximum flow through the turbines. It is important to obtain as much power as possible for the capacity payments; the key to doing so is selecting turbine sizes that maximize project revenues within the pumping and flow release constraints.

In assessing the turbine heads for Funks, two different turbine sizes appear to make sense, but considering how capacity values change if the second unit is sized for a lower head (and generation) is important. Because

⁹ This analysis can be undertaken in subsequent phases of the project.

flows and heads are not correlated, design of the second unit head may require an iterative process to firm the design head. It will depend on how existing and future capacity payments are derived (that is, will future RA values be based on 50 percent and 10 percent exceedance levels) and what energy revenue can be derived from the project based on only recovering the pumping energy or including some component of pumped storage operations.

In August, Funks power ranges from a maximum of about 42 MW to a minimum of 16 MW, but 50 percent of the time it is about 35 MW. Therefore, 80 percent of the August capacity payment will be based on 35 MW and 20 percent will be based on 42 MW (the 10 percent exceedance value).

The August energy prices vary from \$46 to a maximum of \$91 per MWh. The \$46 price is the average price over the maximum of 17.8 hours of operation. This range shows the large disparity in energy prices over a day. The average for the top 5 hours in August is \$69.51, while the average price for the lowest off-peak hours is \$10.14. To pump water into Sites Reservoir for 5 hours would require about 50.5 MW at the median head of 229 feet, and pumping rate of 2,000 cfs. The equivalent generation would be 34.5 MW, for an overall system efficiency of 68 percent. However, pumping cost would only be \$2,535, and generation revenue would be \$11,990, for a daily net revenue of about \$9,455 for those days when there are no flow releases scheduled. Because this happens on average about 6 days per month in August, revenue for those 5 hours would be about \$57,000. Given the price differentials in hourly energy, pumping and releasing for more than 5 hours per day would be most cost effective. For example, in looking at the average price for the highest 10 hours of generation, the average price would be \$55.51, whereas for the lowest-priced, off-peak hours, the average price would be \$18.63. It continues to make sense if flow releases are less than 8 hours to pump and release for those extra hours. For example, if no releases are scheduled (as occurs for 6 days per month on average), the cost of pumping for 8 hours would be \$6,060 and the revenue would be \$16,648 per day, for a total net revenue ($\$10,588 \times 6$) of \$63,630. More days would occur when less than 8 hours of flow are released.

In Attachment 1, the last column for Funks shows that the daily release energy revenue varies from \$0 to a maximum of \$31,019, with a median of \$15,059 per day. For those days with 0 leases, pump storage operations could yield additional daily revenue of over \$10,000.

At Funks Reservoir, flow releases vary from 0 to a maximum of 972 cfs (that is, close to the hydraulic maximum of 1,000 cfs). Importantly, over 40 percent of the time, there are no flow releases, making pump storage more valuable for TRR in August. The head varies from 362 feet down to 192 feet. Corresponding efficiencies are 85 percent and 87 percent, with a maximum efficiency of 92 percent at a head of 261 feet. Power varies from 14.7 MW at the lowest head to 27.6 MW at the high heads. Because there are more hours of operation, the minimum average daily price for the energy is \$39, or less than at Funks. Similarly, there is less daily revenue at TRR because the flow releases are less than at Funks.

The months of July, July, September, and October show similar patterns as August, except for the following. The maximum and minimum releases are similar, but the percent of time in which there are no releases is greater in these months. For example in June, there is little or no flow for about 40 percent of the days, making pump storage operations more valuable. The head and power generation variations exhibit little differences between the months. However, energy prices for the months vary significantly, along with large variances in hourly energy values. For example, the energy price in June varies from a maximum of \$56.40 per MWh during the peak hour to almost 0 during the lowest off-peak time. Maximum prices increase through September, when they reach their maximum of \$113 per MWh before falling in October.

5.0 Comparing this TM to August 2020 Analysis

In August, H2O EcoPower analyzed the energy and revenue using 2030 prices as forecast at that time for the years 1930, 1993, and 1971. These years were selected as dry, average, and wet years. The average release during these three years was the equivalent of about 764 cfs per day based on assumptions made at the time. Annual energy varied from a low of 33,723 MWh to 191,403 MWh. The current modeling effort resulted in an average daily release flow of 320 cfs from Sites Reservoir, with an annual generation of 49,200 MWh for all 82 years simulated. ZGlobal updated the 2030 energy price forecasts, which were used in the current analysis. Therefore, the annual value of energy is significantly less than in the previous analysis, which accounted for

only three years. Also, some of the assumptions of pumping rates were optimistic when compared to the current modeling effort conducted by Jacobs. The driver in the revenue analysis is the total average annual release. In essence, this is the pumping volume less the net evaporation.

6.0 Permitting

Through informal communications with Federal Energy Regulatory Commission staff, the SPA was advised that the Sites Project would qualify for 40 MW conduit exemptions at both Funks and TRR because they operate independently and are separated by more than 1 mile. Federal Energy Regulatory Commission staff also stated the Sites Project would be jurisdictional, most likely because of interstate commerce and possibly because of the project's dependence on Sacramento River (that is, a navigable water way) flow for its existence. Because the Sites Project is an off-stream project, the conduit exemption process is straightforward and can be completed in a matter of months. The application itself can be prepared in a matter of days.

7.0 Recommendations

Based on energy recovery alone, neither the Funks nor TRR generation would justify recovering the pumped energy because the capacity factor of less than 10 percent indicates that energy recovery would not be economic. This differs from the analysis with the larger 1.8 MAF Sites Reservoir, where heads were higher and the flow releases much greater. Despite this, the hydropower portion of the project seems to be cost effective when capacity values are included, especially if pumped storage operations are included.

Jacobs has remained in contact with turbine suppliers. The suppliers are in the process of updating the turbine designs based on the exceedance values (particularly head) resulting from the current energy modeling. As part of the turbine selection process, the capacity values also will be integrated into the design.

Jacobs also recommends that the SPA strongly consider including energy arbitrage and associated capacity values in the analysis, once the updated turbine characteristics become available. It will take some effort to include a pump storage component into the spreadsheet, but that process is straightforward. The spreadsheet has been set up to include specific turbine characteristics in the energy model. Once these efficiencies are received from the suppliers, the energy model can be re-run and the economics re-evaluated.

As part of the current communications with the suppliers, updated cost information is also being sought. The updated costs should be factored into the project economics.

Storage at Funks and TRR is important for both pumping and flow releases to minimize pumping costs and maximize revenue from generation. Before final decisions are made on sizing of Funks and TRR, the effect of storage changes on pumping costs and generation revenue, if any, should be determined.

Energy prices beyond 2030 have not been forecast because of uncertainty. If batteries and electric cars become a big part of the California electric system, that could increase the value of the off-peak energy, reducing the spread in hourly costs for each day. However, if solar energy continues to grow as it has, this could exacerbate the spread in hourly energy prices making it more valuable to pump as much as possible in off-peak hours and generate during the peak hours. Jacobs recommends that a sensitivity analysis be conducted to assist SPA in their decision-making with respect to energy recovery.

Sites should continue to monitor and work with CALISO to ensure that its interests are integrated in any future decision on how capacity is valued. Further, the energy generation and capacity values from the flow releases and possibly pump storage operations should be factored into discussions, with coordinated operations with solar projects and utilities like PG&E.

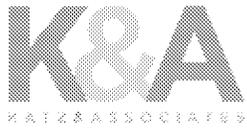
Once SPA completes its National Environmental Policy Act analysis, SPA should submit the exemption application to the Federal Energy Regulatory Commission.

From: Emily Fan Michaelson [emichaelson@katzandassociates.com]
Sent: 2/11/2022 5:27:16 PM
To: Alicia Forsythe [aforsythe@sitesproject.org]
Subject: FOR REVIEW: Sites E-blast
Attachments: Sites Reservoir_E-Blast Text_Env Review Process.docx

Hi Ali,

Attached for your review is the e-blast article. Please let me know any edits. Once finalized, the article will be inserted into an e-blast Sarah developed and plans to distribute next week.

Thanks and have a great weekend,



Emily Fan Michaelson
Senior Account Supervisor
d: [858.926.4019](tel:858.926.4019) · o: [858.452.0031](tel:858.452.0031)
[San Diego](#) · [Los Angeles](#) · [San Francisco](#)

From: Emily Fan Michaelson
Sent: Wednesday, February 9, 2022 9:06 AM
To: Alicia Forsythe <aforsythe@sitesproject.org>
Subject: RE: Sites E-blast

Hi Ali,

Thank you for confirming! I'll draft the article and send to you for review.

Thanks,



Emily Fan Michaelson
Senior Account Supervisor
d: [858.926.4019](tel:858.926.4019) · o: [858.452.0031](tel:858.452.0031)
[San Diego](#) · [Los Angeles](#) · [San Francisco](#)

From: Alicia Forsythe <aforsythe@sitesproject.org>
Sent: Tuesday, February 8, 2022 7:44 PM
To: Emily Fan Michaelson <emichaelson@katzandassociates.com>
Subject: Re: Sites E-blast

This sounds good Emily. And I agree with your approach and level of detail. Thanks for keeping this moving!

Ali

Alicia Forsythe | Environmental Planning and Permitting Manager | Sites Reservoir Project | 916.880.0676 |
aforsythe@sitesproject.org | www.SitesProject.org

From: Emily Fan Michaelson <emichaelson@katzandassociates.com>

Sent: Tuesday, February 8, 2022 6:29:10 PM

To: Alicia Forsythe <aforsythe@sitesproject.org>

Subject: Sites E-blast

Hi Ali,

Sarah Rossetto is coordinating a Sites e-blast that she plans to distribute next week. She asked me if there is an environmental review process "wrap-up" article she could include in the e-blast that summarizes the notifications and meetings, and quantifies comments received. I wanted to check with you first before drafting something for you to review.

Instead of providing detailed information like the number of comments received, which is not often provided at this stage and may not even be information that is available yet, I envisioned including a short, high-level summary of this phase of the environmental review process, touching on the comment period and virtual public meeting dates, as well as maybe directing people to the virtual public meeting presentation. The FAQ I developed regarding notifications is up on the website, and I think it provides a good summary if people are interested in that topic.

Please let me know if you'd like to move forward with including an environmental review process wrap-up article in the e-blast, and if so, please confirm if what I proposed for the article aligns with your preferred level of detail or if you have any other input regarding the article.

Thank you,



Emily Fan Michaelson

Senior Account Supervisor

d: [858.926.4019](tel:858.926.4019) - o: [858.452.0031](tel:858.452.0031)

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E-BLAST DRAFT TEXT – NOT IN LAYOUT FORM

E-Blast Text:

ENVIRONMENTAL REVIEW PROCESS

In accordance with the California Environmental Quality Act and the National Environmental Policy Act, the Sites Project Authority (Authority) and U.S. Bureau of Reclamation (Reclamation) released a Revised Draft Environmental Impact Report/Supplemental Draft Environmental Impact Statement (RDEIR/SDEIS) and initiated a public review and comment period on Nov. 12, 2021.

Public input is an essential part of the environmental review process. During the 77-day public review and comment period, the Authority and Reclamation held two virtual public meetings and accepted comments on the environmental analysis presented in the RDEIR/SDEIS. All substantive comments received during the public comment period will be considered in the development of the Final EIR/EIS.

Visit sitesproject.org/environmental-review for additional information and to view the virtual public meeting presentation.

From: Alicia Forsythe [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=A6CDF06A7E904B65BAA21702A82AD329-AFORSYTHE]
Sent: 2/14/2022 8:24:12 AM
To: King, Vanessa M [vking@usbr.gov]
Subject: RE: mystery snails

Thanks. It looks like Cesar's mapping may be off as you are correct – there is no Holthouse Reservoir that currently exists (or is planned to exist in the future anymore).

I will pass this onto the team.

Ali

Alicia Forsythe | Environmental Planning and Permitting Manager | Sites Project Authority | 916.880.0676 |
aforsythe@sitesproject.org | www.SitesProject.org

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From: King, Vanessa M <vking@usbr.gov>
Sent: Friday, February 11, 2022 3:09 PM
To: Alicia Forsythe <aforsythe@sitesproject.org>
Subject: Fw: mystery snails

FYI

Vanessa King
Hydrologist and Interim Project Manager for Sites Reservoir Project
Bureau of Reclamation, Interior Region 10 · California-Great Basin, Division of Planning
Office: 916-978-5077

From: King, Vanessa M <vking@usbr.gov>
Sent: Friday, February 11, 2022 3:03 PM
To: Deeds, Daniel A <ddeeds@usbr.gov>; Mosley, Michael I <mmosley@usbr.gov>
Subject: Re: mystery snails

Hi Dan,

Thanks for the update, although I'm a little confused now - I'm not aware of an existing Holthouse reservoir; Holthouse was a proposed forebay/afterbay for Sites Reservoir that has been eliminated from the design. I'll pass this info on to the Sites Authority though.

Vanessa

Vanessa King

Hydrologist and Interim Project Manager for Sites Reservoir Project

Bureau of Reclamation, Interior Region 10 · California-Great Basin, Division of Planning

Office: 916-978-5077

From: Deeds, Daniel A <ddeeds@usbr.gov>

Sent: Friday, February 11, 2022 2:37 PM

To: Mosley, Michael I <mmosley@usbr.gov>; King, Vanessa M <vking@usbr.gov>

Subject: Fwd: mystery snails

FYI. Also, apparently I meant Holthouse Reservoir, although I swear I've heard people call it Funks Reservoir...

Dan

From: Blanco, Cesar <cesar_blanco@fws.gov>

Sent: Friday, February 11, 2022 2:03 PM

To: Deeds, Daniel A

Cc: Sanders, Shawn H

Subject: Re: mystery snails

Dan,

We were conducting a survey not just in Holthouse (not Funks) Reservoir, but in the Sacramento River since Funks Creek ultimately dumps out into the Sacramento River at Knights Landing. In general, threats from an exotic species can include, competition with native mollusks for food and habitat, changes in energy dynamics of the system in large numbers, and die-offs in large numbers that can effect water quality. CMS in Asia have been known to transmit human intestinal flukes and are also a carrier of trematode parasites found in native mussels. Shawn Sanders and his team are still collecting information about CMS's relative risk to the native biota and ecosystem, but if they are contained in Holthouse Reservoir the risk would be fairly minimal.

Cesar Cadena Blanco, PhD

Regional Aquatic Invasive Species Coordinator

U.S. Fish & Wildlife Service, Pacific Southwest Region (LR8)

2800 Cottage Way Sacramento, CA 95825

916-978-6190 (desk)

916-335-7817 (mobile)

*I am working remotely during the COVID-19 pandemic. All calls to my office phone are forwarding to my cell phone during this time.

From: Deeds, Daniel A <ddeeds@usbr.gov>

Sent: Thursday, February 10, 2022 4:40 PM

To: Blanco, Cesar <cesar_blanco@fws.gov>

Subject: mystery snails

Hi Cesar

I'm not very learned on the subject of mystery snails (well, any snails, really) and I was curious: what are the impacts of having them in Funks? Is there a threat to ESA-listed species or to the aquatic ecosystem? Any pipe clogging like zebra/quagga mussels? Something else?

Thanks!

Dan

Daniel Deeds, PhD
(he/him)

Branch Chief, Environmental Monitoring and Assessment (CGB-157)
United States Bureau of Reclamation | Interior Region 10 · California-Great Basin
2800 Cottage Way, Sacramento CA 95825

Office: 916-978-4467

I can be reached on my cell during the pandemic: (916) 539-6512

From: Alicia Forsythe [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=A6CDF06A7E904B65BAA21702A82AD329-AFORSYTHE]
Sent: 2/14/2022 9:51:46 AM
To: Heydinger, Erin [Erin.Heydinger@hdrinc.com]
Subject: RE: Discussion on Sites/Woodland-Davis
Attachments: A030358_Woodland Davis.pdf

Yes. Both diversion facilities and service area. Want to make sure that all diversion facilities are on the map and all of the service area is within the Place of Use. Just in case they become a member down the road or possibly buy water from a member.

I just sent you the email that I send to Tim. It is the winter water right term. They have an appropriate water right dated 1994, post our anticipated 1977 date.

Ali

Alicia Forsythe | Environmental Planning and Permitting Manager | Sites Project Authority | 916.880.0676 | aforsythe@sitesproject.org | www.SitesProject.org

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From: Heydinger, Erin <Erin.Heydinger@hdrinc.com>
Sent: Monday, February 14, 2022 9:41 AM
To: Alicia Forsythe <aforsythe@sitesproject.org>
Subject: RE: Discussion on Sites/Woodland-Davis

Sounds good, no problem – I can cover it. Which is the term he is reviewing? The diversion criteria term? Yes – if you could send me the current KMZ that'd be great. It's both diversion facilities as well as service area towards the west, right?

Erin

Erin Heydinger PE, PMP
D 916.679.8863 M 651.307.9758

hdrinc.com/follow-us

From: Alicia Forsythe <aforsythe@sitesproject.org>
Sent: Monday, February 14, 2022 9:39 AM
To: Heydinger, Erin <erin.heydinger@hdrinc.com>
Subject: RE: Discussion on Sites/Woodland-Davis

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Erin – John ended up scheduling the pulse flow protection meeting at this same time. I feel like I need to attend that one.

Can you take this without me? I can send the current KMZ files for the POU. We're just looking to make sure that Woodland Davis and all of their diversion facilities are on the map.

I did speak with Tim Busch with Woodland Davis late on Friday about the water right term. He returned a call I left for him a few weeks ago. I also emailed it to him. So he is looking at the term. He didn't indicate any concerns on our call but wanted to check in with his legal counsel.

Let me know if you would prefer I join and I can try to come in late or we can reschedule.

Ali

Alicia Forsythe | Environmental Planning and Permitting Manager | Sites Project Authority | 916.880.0676 | aforsythe@sitesproject.org | www.SitesProject.org

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-----Original Appointment-----

From: Heydinger, Erin <Erin.Heydinger@hdrinc.com>

Sent: Thursday, February 10, 2022 1:11 PM

To: Heydinger, Erin; ismith@westvost.com; Alicia Forsythe

Subject: Discussion on Sites/Woodland-Davis

When: Monday, February 14, 2022 1:00 PM-2:00 PM (UTC-08:00) Pacific Time (US & Canada).

Where: Microsoft Teams Meeting

To discuss Woodland-Davis' needs with respect to the Sites project and begin to understand water rights considerations for Woodland-Davis.

Microsoft Teams meeting

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[\(833\) 255-2803,,773343847#](tel:(833)255-2803773343847) United States (Toll-free)

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From: Marcia Kivett [MKivett@sitesproject.org]
Sent: 2/14/2022 2:16:48 PM
To: barry@westernwaterstrategies.com
Subject: Re: Environmental Block of Water

Good Morning,

Are you available for the follow-up discussion with Jerry during any of the below times?

Tuesday, Feb 15 - 9:00
Friday, Feb 18 - 3:00, 4:00
Monday, Feb 21 - 2:00, 3:00
Tuesday, Feb 22 - 9:00, 2:00

Let me know if you need additional options.

Thank you,

Marcia Kivett
Sites Project Admin
Phone: 561.843.9740
Email: mkivett@sitesproject.org
Web: www.SitesProject.org
P.O. Box 517
122 Old Hwy 99W
Maxwell, CA 95955

-----Original Message-----

On 1/28/22, 9:01 AM, "Barry Nelson" <barrynelsonwws@gmail.com on behalf of barry@westernwaterstrategies.com> wrote:

Thanks Jerry - This is quite helpful. And, of course, we will share the final document.

Sure - I'd be happy to schedule a cal in Feb. However, I'll be out of town - for scheduling purposes - until the 7th.

Barry Nelson
Western Water Strategies
510 340 1685

> On Jan 28, 2022, at 7:33 AM, Jerry Brown <jbrown@sitesproject.org> wrote:

>

> Hi Barry - sure thing. Here's what was included in our Dec 2021 state feasibility report. However it should be noted that:

>

> 1. while this was the basis for the Commission's determination of feasibility and continued eligibility for Prop 1 funds, the final plans will be incorporated into the executed benefits agreement with CDFW.

> 2. there is about 250TAF of storage space being planned for in the reservoir for the public benefits so this provides great flexibility in how, when and where the environmental block of water is used. The figures shown in the attached table are annual averages. Theoretically the State could save up their water to fill their space, and hold their water for use during the driest periods when and where its needed most. I believe this is a significant value to the water that gets lost in the annual averages.

>
> Happy to help if you need anything else. Can you send the report when available?
>
> Also, with the EIR public comment period coming to an end, can I have Marcia get in touch with you to get a meeting time on our schedules for mid Feb?

>
> Jerry

>
> On 1/27/22, 8:49 PM, "Barry Nelson" <barrynelsonwvs@gmail.com on behalf of barry@westernwaterstrategies.com> wrote:

>
> Jerry - I know that, as you have changed the size of the project, the volume of the block of environmental water has also changed. I'm editing a nearly final version of our Block of Water white paper. Can you tell me the size of your current environmental block of water for the project?

>
> Barry Nelson
> Western Water Strategies
> 510 340 1685

>
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>
>
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>
> <Screen Shot 2022-01-28 at 6.56.19 AM.png><Screen Shot 2022-01-28 at 6.56.38 AM.png>

From: Marcia Kivett [MKivett@sitesproject.org]
Sent: 2/14/2022 2:16:48 PM
To: barry@westernwaterstrategies.com
BCC: Marcia Kivett [MKivett@sitesproject.org]
Subject: Re: Environmental Block of Water

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Let me know if you need additional options.

Thank you,

Marcia Kivett
Sites Project Admin
Phone: 561.843.9740
Email: mkivett@sitesproject.org
Web: www.SitesProject.org
P.O. Box 517
122 Old Hwy 99W
Maxwell, CA 95955

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> Jerry

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>

> Barry Nelson

> Western Water Strategies

> 510 340 1685

>

>

>

>

>

> <Screen Shot 2022-01-28 at 6.56.19 AM.png><Screen Shot 2022-01-28 at 6.56.38 AM.png>

From: Spranza, John [John.Spranza@hdrinc.com]
Sent: 2/15/2022 8:26:15 AM
To: Hassrick, Jason (Jason.Hassrick@icf.com) [Jason.Hassrick@icf.com]; Lecky, Jim [jim.lecky@icf.com]; Hendrick, Mike [Mike.Hendrick@icf.com]; Greenwood, Marin [Marin.Greenwood@icf.com]
CC: Briard, Monique [monique.briard@icf.com]; Alicia Forsythe [aforsythe@sitesproject.org]; Heydinger, Erin [erin.heydinger@hdrinc.com]; steve.micko@jacobs.com
Subject: FW: Sites Reservoir & TUFLOW
Attachments: DWR-YoloBypass_BNP_SitesRes_impact_modeling_2022-02-02_w_figures.pdf

Team,

Attached is a document that Josh Martinez shared with us yesterday during a coordination call on Tuflow and Site's effects to the big notch. The document includes an analysis quantifying the potential hydraulic impact of Sites on the big notch entrainment for various scenarios and seems to be an update/revision of the December analysis they performed.

Although I missed the first half of the meeting

it seemed to me like Josh was not up to speed on the project or our history/coordination with CDFW and that he wanted to revisit and expand the previous analysis that DWR did for CDFW last December that triggered the relaxation of the Fremont weir protection. I'd like to chat about this during our aquatics call tomorrow and maybe set up a call with Steve and Erin to discuss the findings and the expanded Tuflow modeling DWR is looking to do.

Thanks.

John

John Spranza

D 916.679.8858 M 818.640.2487

From: Martinez, Josh@DWR <Joshua.Martinez@water.ca.gov>
Sent: Monday, February 14, 2022 4:44 PM
To: Heydinger, Erin <erin.heydinger@hdrinc.com>; Heydinger, Erin <erin.heydinger@hdrinc.com>; Paccassi, Michael@Wildlife <Michael.Paccassi@Wildlife.ca.gov>; Sherrick, Robert@Wildlife <Robert.Sherrick@Wildlife.ca.gov>; Micko, Steve/SAC <Steve.Micko@jacobs.com>; Serup, Bjarni@Wildlife <Bjarni.Serup@wildlife.ca.gov>
Cc: Spranza, John <John.Spranza@hdrinc.com>; Alicia Forsythe <aforsythe@sitesproject.org>; Whittington, Chad/SAC <Chad.Whittington@jacobs.com>; Leaf, Rob/SAC <Rob.Leaf@jacobs.com>
Subject: RE: Sites Reservoir & TUFLOW

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Hi all,

Thank you for taking the time to get me up to speed on this effort. I've put a request in with our modeling team to:

1. Re-run the model with a revised Scenario 1; and
2. Run the model for an extended range of years
 - a. Through 2018 using available Sites data; or
 - b. 1997-2008 if Sites data can be made available (preferred option)

Attached is a copy of the latest TUFLOW report.

-Josh



Joshua Martinez
Restoration Ecology Unit
Division of Integrated Science and Engineering
Office: (916) 376-9725
Mobile: (916) 835-8778
Joshua.Martinez@water.ca.gov

-----Original Appointment-----

From: Heydinger, Erin <Erin.Heydinger@hdrinc.com>

Sent: Thursday, February 3, 2022 11:18 AM

To: Heydinger, Erin; Paccassi, Michael@Wildlife; Sherrick, Robert@Wildlife; steve.micko@jacobs.com; Serup, Bjarni@Wildlife; Martinez, Josh@DWR

Cc: John Spranza; Alicia Forsythe; Whittington, Chad/SAC; Leaf, Rob/SAC

Subject: Sites Reservoir & TUFLOW

When: Monday, February 14, 2022 3:30 PM-4:30 PM (UTC-08:00) Pacific Time (US & Canada).

Where: Microsoft Teams Meeting

To discuss use of TUFLOW for evaluating the Sites project. Please forward this meeting invite to anybody I may have missed.

Thanks!

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EVALUATION OF SITES RESERVOIR POTENTIAL IMPACT ON YOLO BYPASS BNP

TUFLOW MODELING APPROACH

FEBRUARY 2, 2022

Situation

The California Department of Water Resources (DWR) recently completed the 95% design of the Yolo Bypass Big Notch Project (BNP). The purpose of the BNP is to provide floodplain rearing habitat and entrainment for young salmon and upstream fish passage for adult salmon and sturgeon. To support the BNP Environmental Impact Report/Environmental Impact Statement (EIR/EIS), DWR developed a 1D/2D TUFLOW hydraulic model. The EIR/EIS TUFLOW model includes the Yolo Bypass, a portion of the Sutter Bypass, and adjacent rivers and streams. The TUFLOW model was originally developed in 2017 to evaluate the ability of BNP alternatives to create floodplain habitat and improve fish passage within the Yolo Bypass, and to evaluate the relative differences between the alternatives' impacts to the environment (DWR, 2017a). Recently, the TUFLOW model was updated to the latest version (2020-10-AB-Beta1) and modified to take advantage of new functionality within the software.

Sites Reservoir is a planned reservoir approximately 10 miles west of Maxwell, California in Glenn and Colusa Counties. Sites would be an off-river reservoir that will capture excess water and reserve it for periods of drier weather. Flows from the Sacramento River would be diverted at Red Bluff and Hamilton City and conveyed to Sites Reservoir. Releases from Sites would enter into the Colusa Basin Drain near Dunnigan and re-enter the Sacramento River at Knights Landing or south of the Yolo Bypass near Rio Vista. It would create an additional 1.3 to 1.5 million acre-feet of storage (Sites Reservoir Authority, 2021a).

Task

DWR requested modeling and analysis to quantify the potential hydraulic impact of Sites Reservoir Diversions on Yolo Bypass Big Notch Project (BNP) entrainment for various scenarios, as shown in Table 1. Diversion discharges were specified from the Daily Divertible and Storable Flow Tool, developed as part of the Sites Reservoir Environment Impact Report (Sites Reservoir Authority, 2021b). Scenario 1 includes the full Sites Reservoir diversions without any decreases to protect the BNP. The other scenarios decrease Sites Reservoir diversions to limit the impact on the BNP.

Estimated changes in entrainment were predicted using insights from the fish entrainment modeling performed for the EIR/EIS (DWR, 2017b).

Table 1. TUFLOW Evaluation Scenarios

Scenario	Description	Time Window	Specifications*
Baseline	Unmodified TUFLOW baseline scenario	No Diversions	No Diversions
1	Full Sites Reservoir Diversions without BNP Protection	November to March 15	Sites Reservoir diversions are restricted by Bend Br. Pulse Protection, Wilkins Minimum Bypass (10,700 Mar-May), and Delta Conditions.
2	Sites-Proposed Percent Impact Limits	November to March 15	If predicted BNP flows 0-600 cfs, Sites diversion must decrease BNP flow less than 1%
			If predicted BNP flows 600-6,000 cfs, Sites diversion must decrease BNP flow less than 10%
3	CDFW**-Proposed Stage/Percent of Verona Flow	November to March 15	FRE*** stage 15-21 ft, no diversions
			FRE stage 21-28 ft, allow diversion up to 2% of Verona flow
			FRE stage 28-32 ft, allow diversion up to 5% of Verona flow
			FRE stage 32-33.25 ft, pause diversion for up to 7 days
4	CDFW-Proposed Stage, up to 29 ft	November to March 15	FRE stage 15-21 ft, no diversions
			FRE stage 21-28 ft, allow diversion up to 2% of Verona flow
			FRE stage 28-29 ft, allow diversion up to 5% of Verona flow
			FRE stage 29-32 ft, no restrictions on diversions
			FRE stage 32-33.25 ft, pause diversion for up to 7 days

*All references to stages and water surface elevations (WSE) are referenced to the North American Vertical Datum of 1988 (NAVD88).

**California Department of Fish and Wildlife

***FRE = Sacramento River channel stage at Fremont Weir

Analysis

Sites Reservoir discharges from the Daily Divertible and Storable Flow Tool include water years 2009-2018. These data could be used as input to the TUFLOW model for this analysis. However, the TUFLOW model is currently setup for water years 1997-2012, therefore, only the subset of water years where Sites Reservoir discharges were available (2009-2012) were used as input. The baseline scenario was run for the original TUFLOW modeling period (October 2 through June 30). Sites Reservoir planned diversions would only occur in limited periods of each water year because of all the constraints that must be met. The alternatives were only modeled for periods when diversions occur because the model is identical when no diversions are occurring.

The periods in each water year modeled for the alternatives simulation include.

- 2009 – February 1 through April 1
- 2010 – January 1 through April 1
- 2011 – Full modeled period (October 2 through June 30)
- 2012 – October 2 through April 15

The baseline scenario for this analysis is consistent with the baseline scenario used in evaluation of the BNP. The baseline scenario includes other projects in the Yolo Bypass region, such as the Adult Fish Passage project at the Fremont Weir, constructed in 2019; the Lower Elkhorn Basin Levee Setback (LEBLS) project, currently under construction; and the Sacramento Weir Widening and Fish Passage projects, currently going through 95% design and slated for construction in 2022. To model the other scenarios, the TUFLOW boundary conditions were modified to reflect the Sites Reservoir discharges. The Sacramento River change at Wilkins Slough was used to modify the TUFLOW inflow boundary on the Sacramento River. The inflow boundary condition for the Sutter Bypass was decreased by total discharge of the diversions at the Moulton, Colusa, and Tisdale weirs delayed 1 day for travel time similar to what was used when deriving the original TUFLOW boundary conditions. Figure 1 shows the Sites Diversions and Yolo Bypass Model inflow boundaries.

Figures 2 through 5 show the discharges at the TUFLOW Sacramento River Boundary for each scenario in the top pane and the discharge difference for each of the scenarios in the bottom pane. Figures 6 through 9 show the same information for the Sutter Bypass boundary condition.

TUFLOW model results were evaluated by comparing the WSE for the baseline to each evaluation scenario at three locations within the Sacramento River:

- Near Knights Landing
- Near the west side of the Fremont Weir
- Near the BNP

Entrainment percentages were predicted using WSE results from TUFLOW at Sacramento River near the BNP and a rating curve developed for the EIR/EIS (DWR, 2017b). The entrainment percentage was linearly interpolated from the rating curve. For WSEs below the rating curve, a value of 0.0% entrainment was used. For values above the rating curve, a value of 13.8%, which is the highest value in the rating curve, was used. The entrainment rating curve

was applied to the full model simulation window and did not consider BNP gate closures. As such, the entrainment best represents the adaptive management scenario where gates are left open. Incorporating gate closures into the entrainment analysis, would make entrainment 0% for non-overtopping periods when the gates are closed and there is no flow through the BNP. Because this change would affect both baseline and alternative scenarios, the overall impact on the results is likely small. Figure 10 shows the Entrainment percent vs WSE.

Daily catch data was analyzed from Acierto et al. Juvenile Knights Landing Rotary Screw Trap Salmon catch data. The California Department of Fish and Wildlife (CDFW) operates two rotary screw traps at this location, which they check for juvenile salmon every one to six days. As with any sampling regime, the number of fish caught in these traps is not representative of the entire population of juvenile salmon in the Sacramento River and should be considered a sample. Additionally, the traps may have reduced efficiency during high flow events when juvenile salmon are most likely to be present. The fish count data only included water years 2009-2011, so TUFLOW results for 2012 are not used to estimate entrainment. As CDFW would often fish the traps for multiple days, sample hours varied widely from day to day which made a simple daily fish count comparison impossible. For this reason, fish counts were standardized as a daily catch per unit effort (CPUE). Because of this, fish CPUE was not provided for every day of the simulation period, and these data were only used for the dates provided (gaps were not filled). However, there were likely juvenile salmon present on these gap days, which means entrainment is underestimated in this analysis.

For periods that were not modeled for the alternatives (No Sites Reservoir diversions), the baseline discharges and entrainment were used for the alternatives.

Results

Figures 11 through 22 show the WSE results through time near Knight's Landing, the west side of Fremont Weir, and the Sacramento River near BNP for the water years modeled.

Figures 23 through 26 show the predicted entrainment percentage for water years 2009, 2010, and 2011 respectively.

Table 2 Shows the overall change in entrainment between the baseline and scenarios utilizing fish count data. The change in entrainment is weighted based upon the fish count data so the results are relative to when fish are in the river.

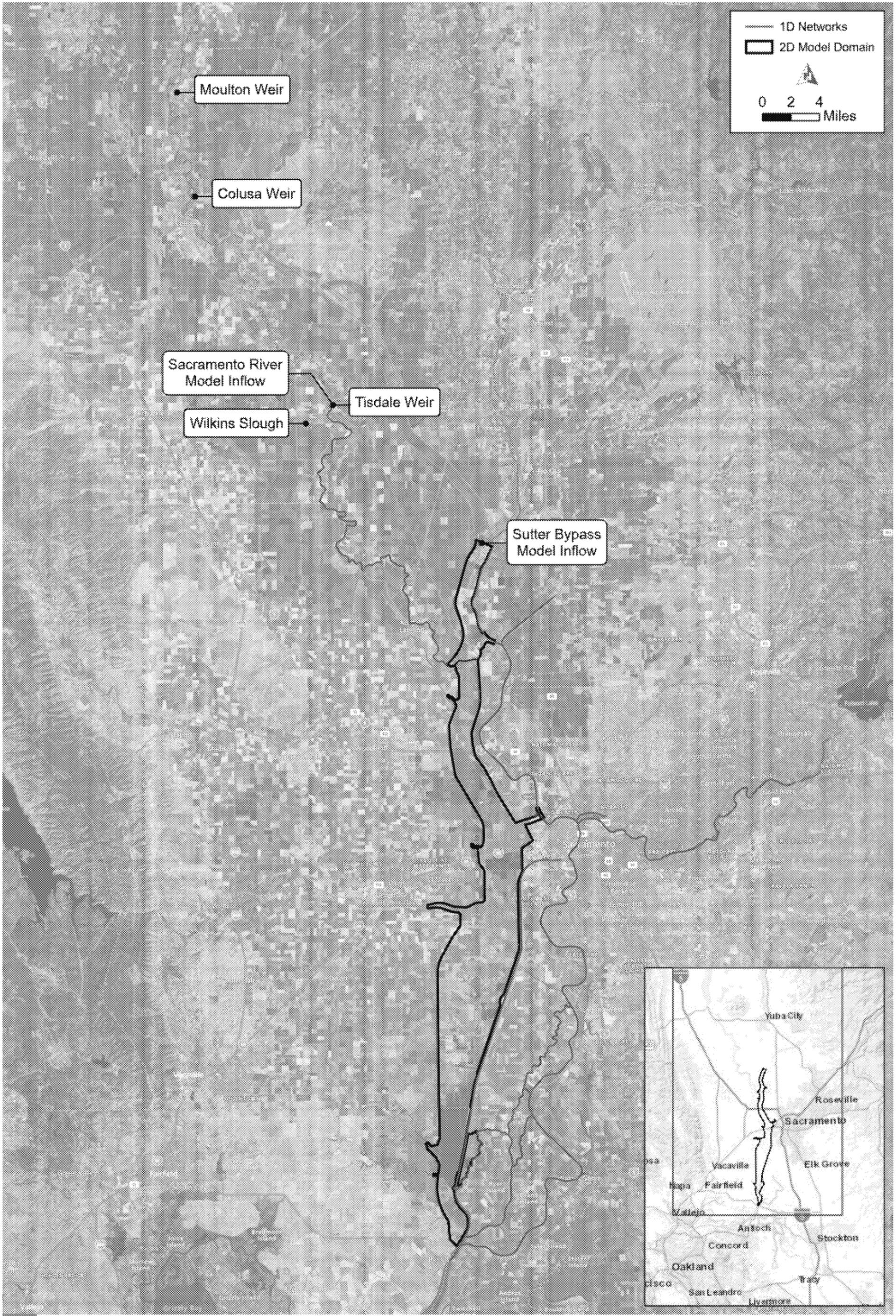
Table 2. Change in Entrainment from Baseline Scenario under Adaptive Management Operations Based upon Fish Counts

Water Year	Change in Spring Run Percent Entrained				Change in Winter Run Percent Entrained			
	Scenario 1	Scenario 2	Scenario 3	Scenario 4	Scenario 1	Scenario 2	Scenario 3	Scenario 4
2009	-41%	-21%	-19%	-20%	-42%	-21%	-19%	-20%
2010	-14%	-6%	-5%	-5%	-7%	-3%	-3%	-3%
2011	-5%	-2%	-2%	-2%	-16%	-5%	-3%	-3%

References

- California Department of Water Resources. 2017a. Yolo Bypass Salmonid Habitat Restoration and Fish Passage Hydrodynamic Modeling Report. Prepared by HDR and cbec. June 2017.
- California Department of Water Resources. 2017b. Yolo Bypass Salmonid Habitat Restoration and Fish Passage Environmental Impact Report/ Environmental Impact Statement, Appendix G1 Scenario Analysis of Fremont Weir Notch – integration of engineering designs, telemetry, and flow fields.
- Sites Reservoir Authority. 2021a. Sites Reservoir Project Preliminary Project Description and Alternatives. Maxwell, CA.
- Sites Reservoir Authority. 2021b. Sites Reservoir Project Revised Draft Environment Impact Report/Supplemental Draft Environmental Impact Statement. Appendix 11P, Attachment 11P-1.

Figures

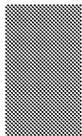
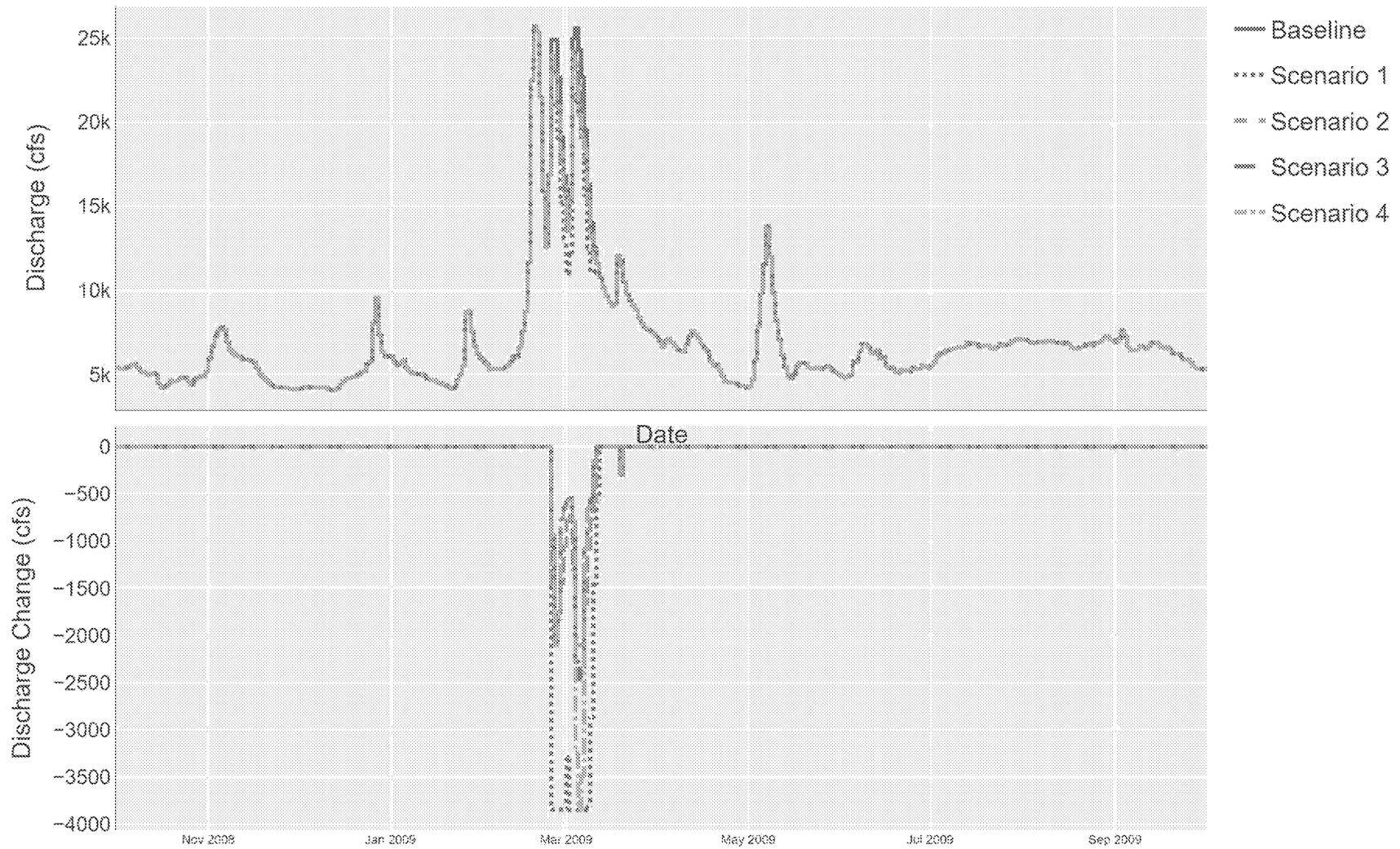


SITES DIVERSION LOCATIONS AND TUFLOW INFLOW BOUNDARY LOCATIONS
 MODEL 2D AREA AND 1D CHANNELS ALSO SHOWN

FIGURE 1



Boundary Condition Discharge Sacramento River at Wilkins 2009

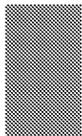
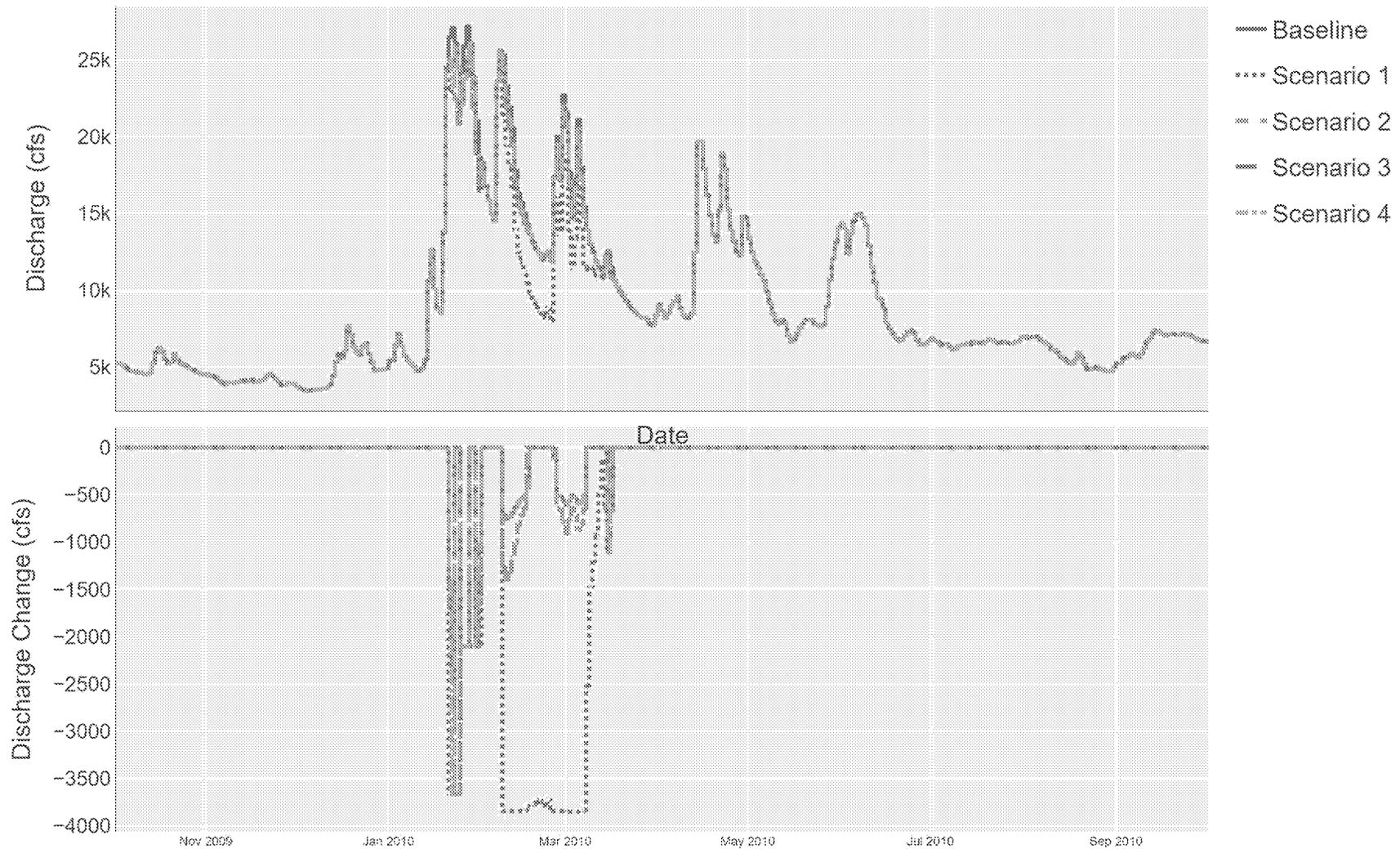


TUFLOW BC DISCHARGES
SACRAMENTO RIVER NEAR WILKINS SLOUGH 2009

FIGURE 2

YOLO BYPASS BNP SITES RESERVOIR IMPACT

Boundary Condition Discharge Sacramento River at Wilkins 2010

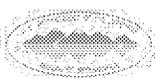
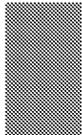
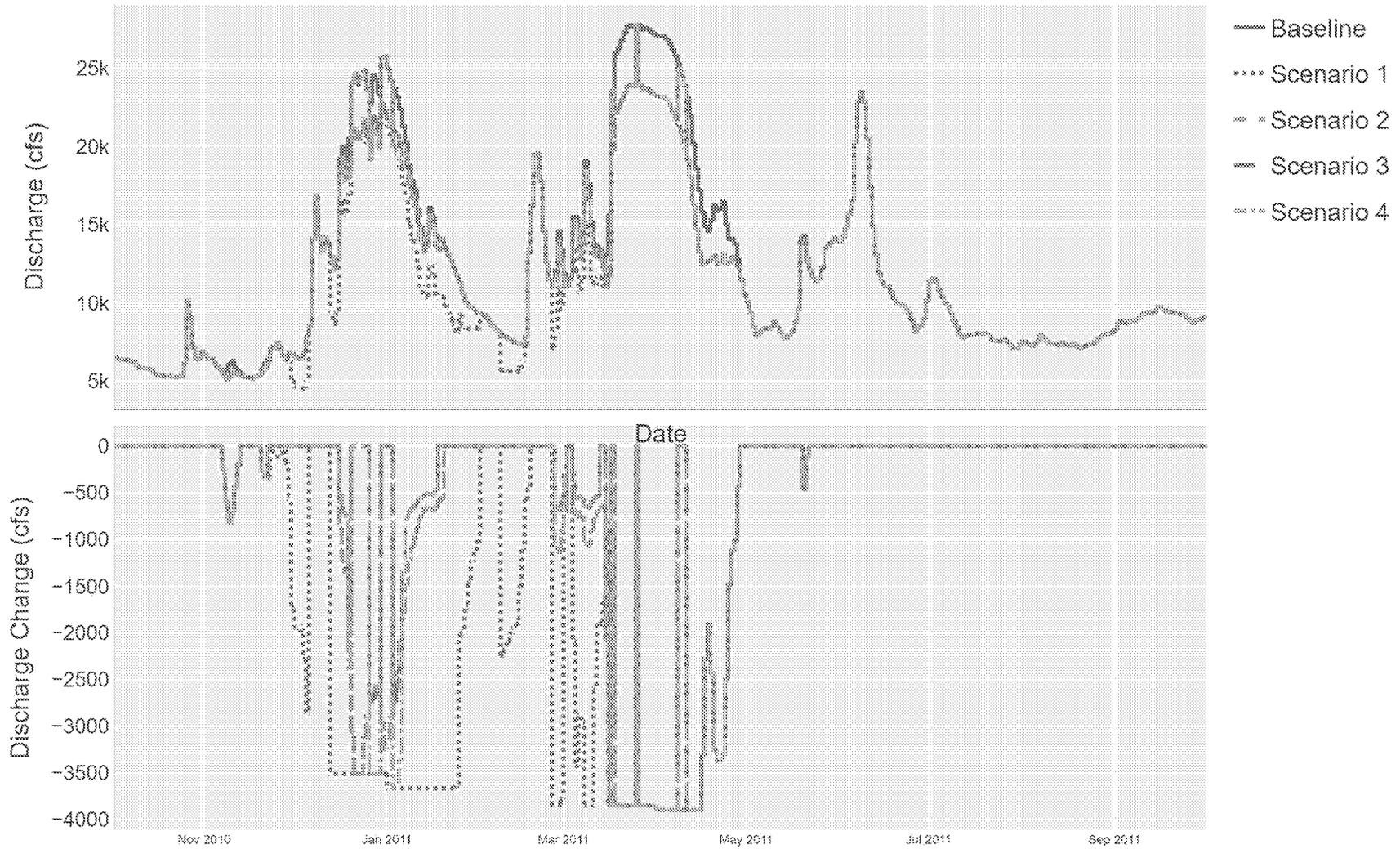


TUFLOW BC DISCHARGES
SACRAMENTO RIVER NEAR WILKINS SLOUGH 2010

FIGURE 3

YOLO BYPASS BNP SITES RESERVOIR IMPACT

Boundary Condition Discharge Sacramento River at Wilkins 2011

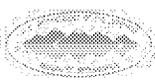
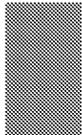
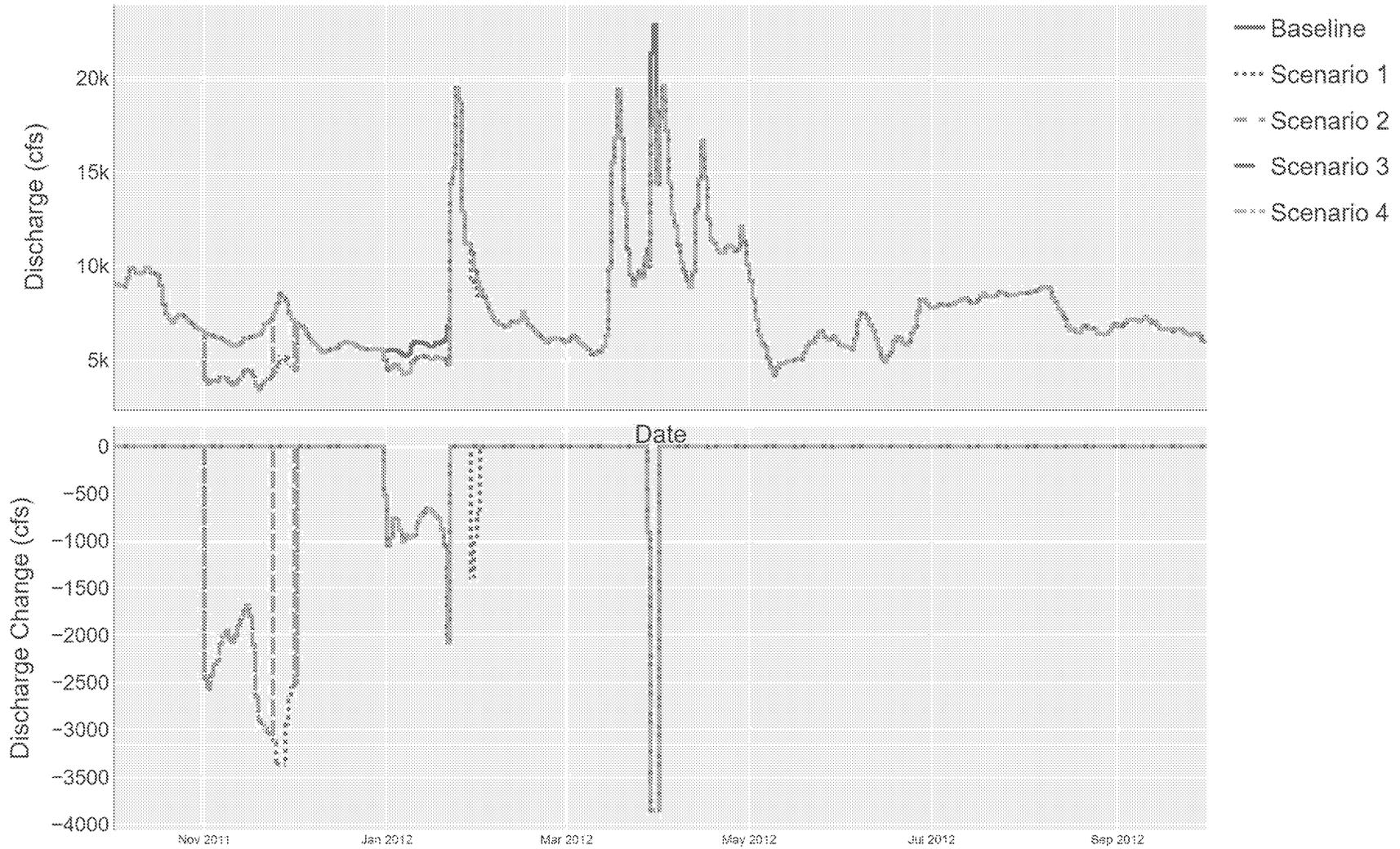


TUFLOW BC DISCHARGES
SACRAMENTO RIVER NEAR WILKINS SLOUGH 2011

FIGURE 4

YOLO BYPASS BNP SITES RESERVOIR IMPACT

Boundary Condition Discharge Sacramento River at Wilkins 2012

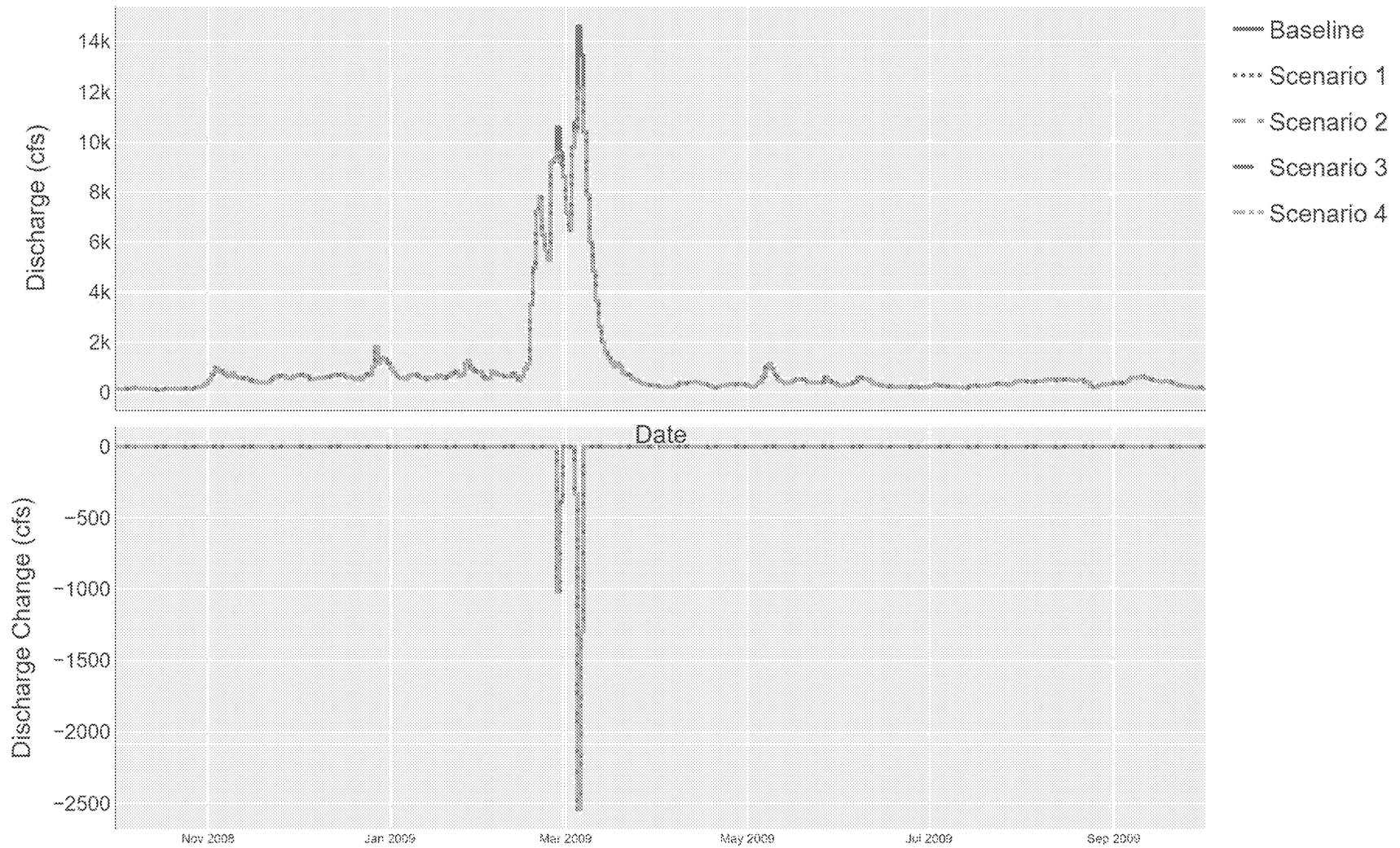


TUFLOW BC DISCHARGES
SACRAMENTO RIVER NEAR WILKINS SLOUGH 2012

FIGURE 5

YOLO BYPASS BNP SITES RESERVOIR IMPACT

Boundary Condition Discharge Sutter Bypass 2009

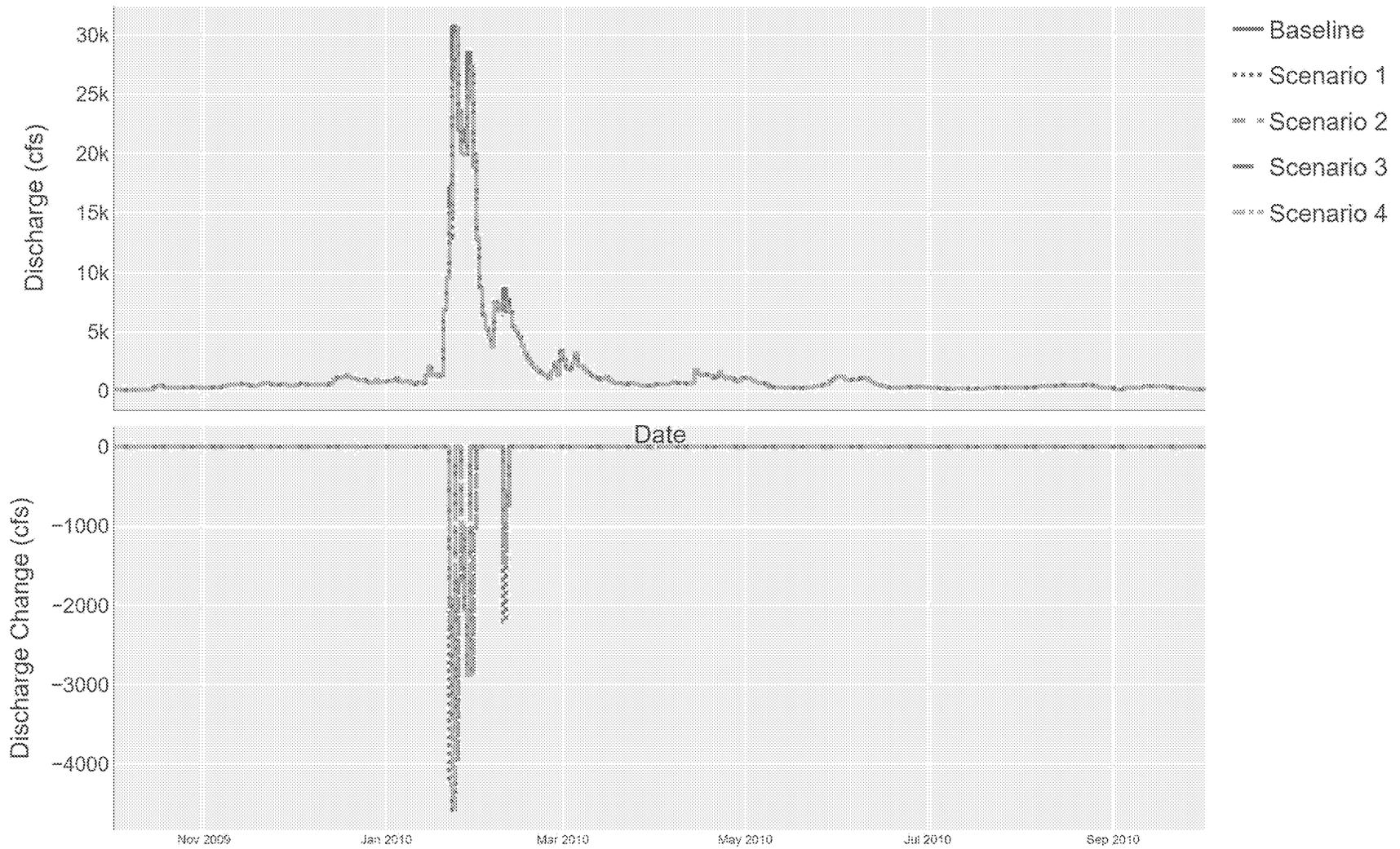


TUFLOW BC DISCHARGES
SUTTER BYPASS INFLOW 2009

FIGURE 6

YOLO BYPASS BNP SITES RESERVOIR IMPACT

Boundary Condition Discharge Sutter Bypass 2010

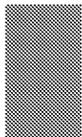
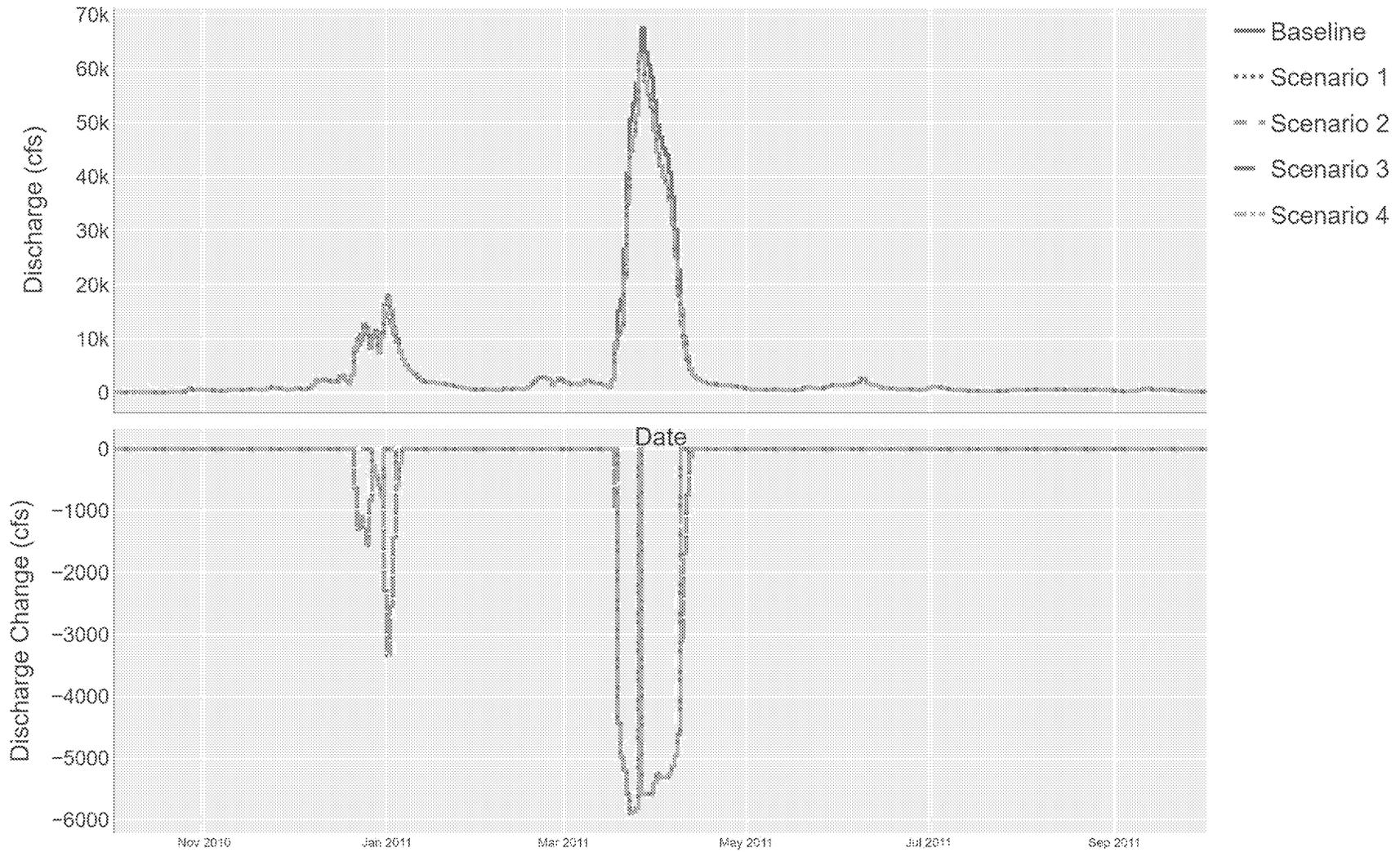


**TUFLOW BC DISCHARGES
SUTTER BYPASS INFLOW 2010**

FIGURE 7

YOLO BYPASS BNP SITES RESERVOIR IMPACT

Boundary Condition Discharge Sutter Bypass 2011

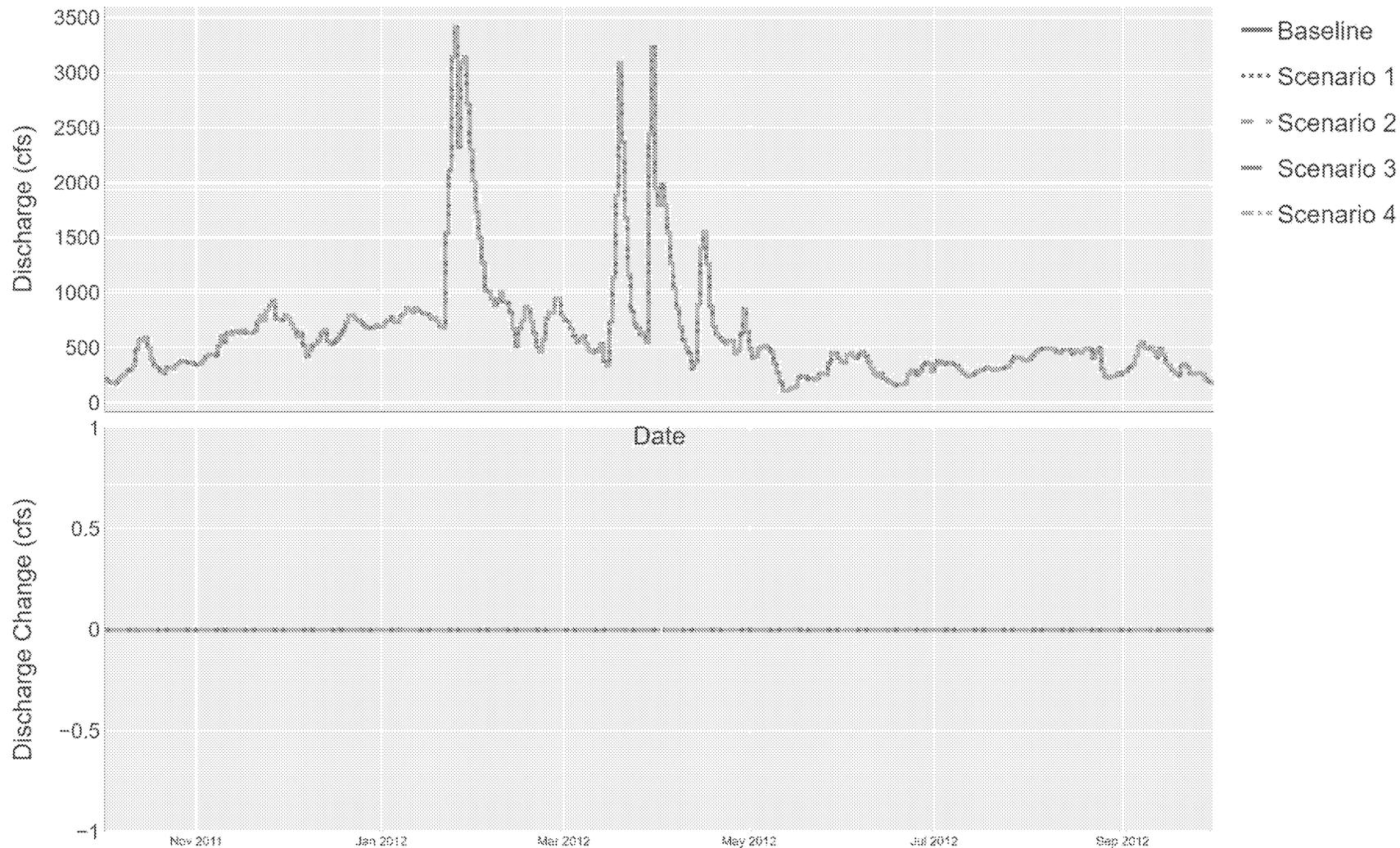


TUFLOW BC DISCHARGES
SUTTER BYPASS INFLOW 2011

FIGURE 8

YOLO BYPASS BNP SITES RESERVOIR IMPACT

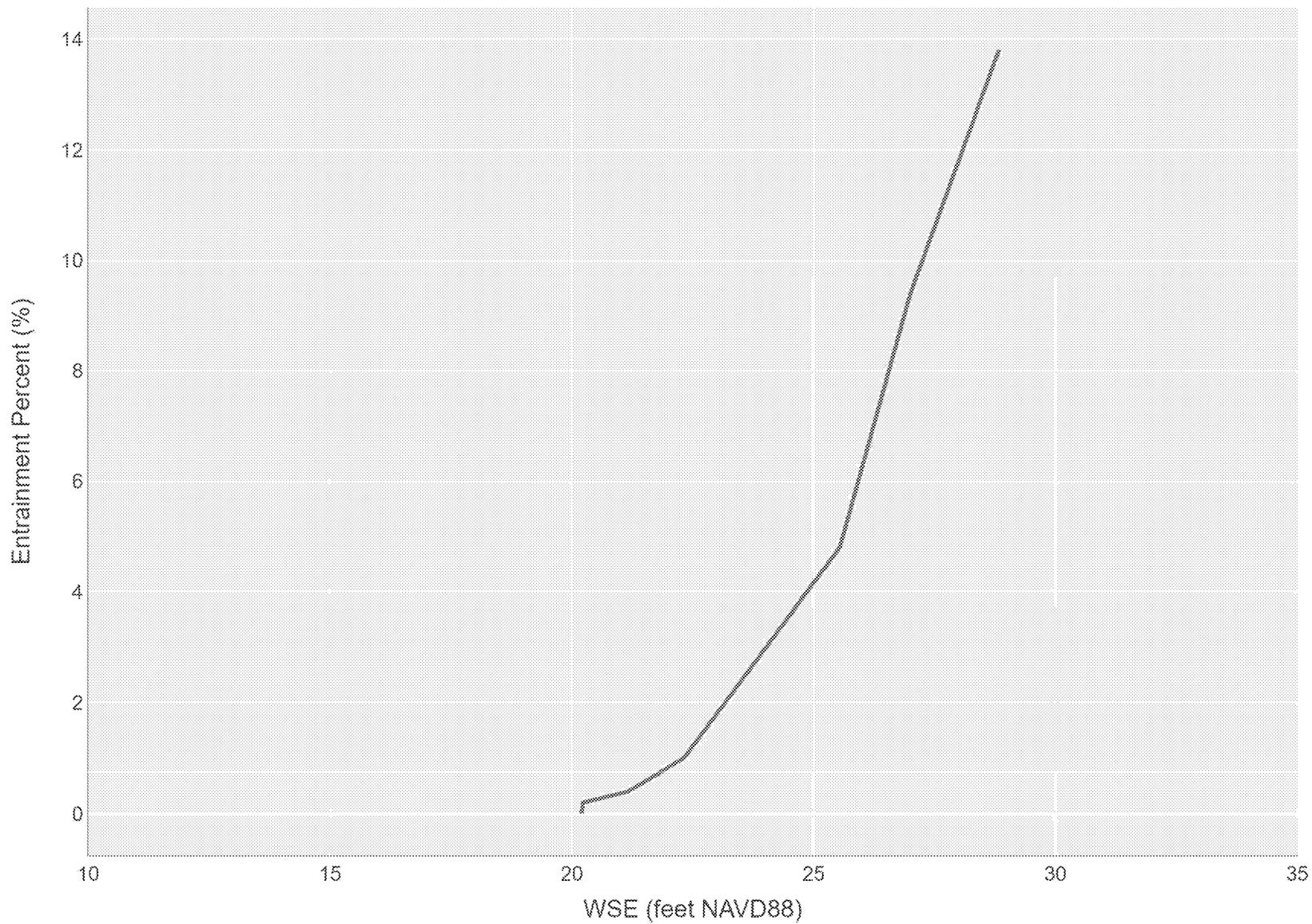
Boundary Condition Discharge Sutter Bypass 2012



TUFLOW BC DISCHARGES
SUTTER BYPASS INFLOW 2012

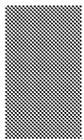
FIGURE 9

YOLO BYPASS BNP SITES RESERVOIR IMPACT

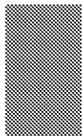
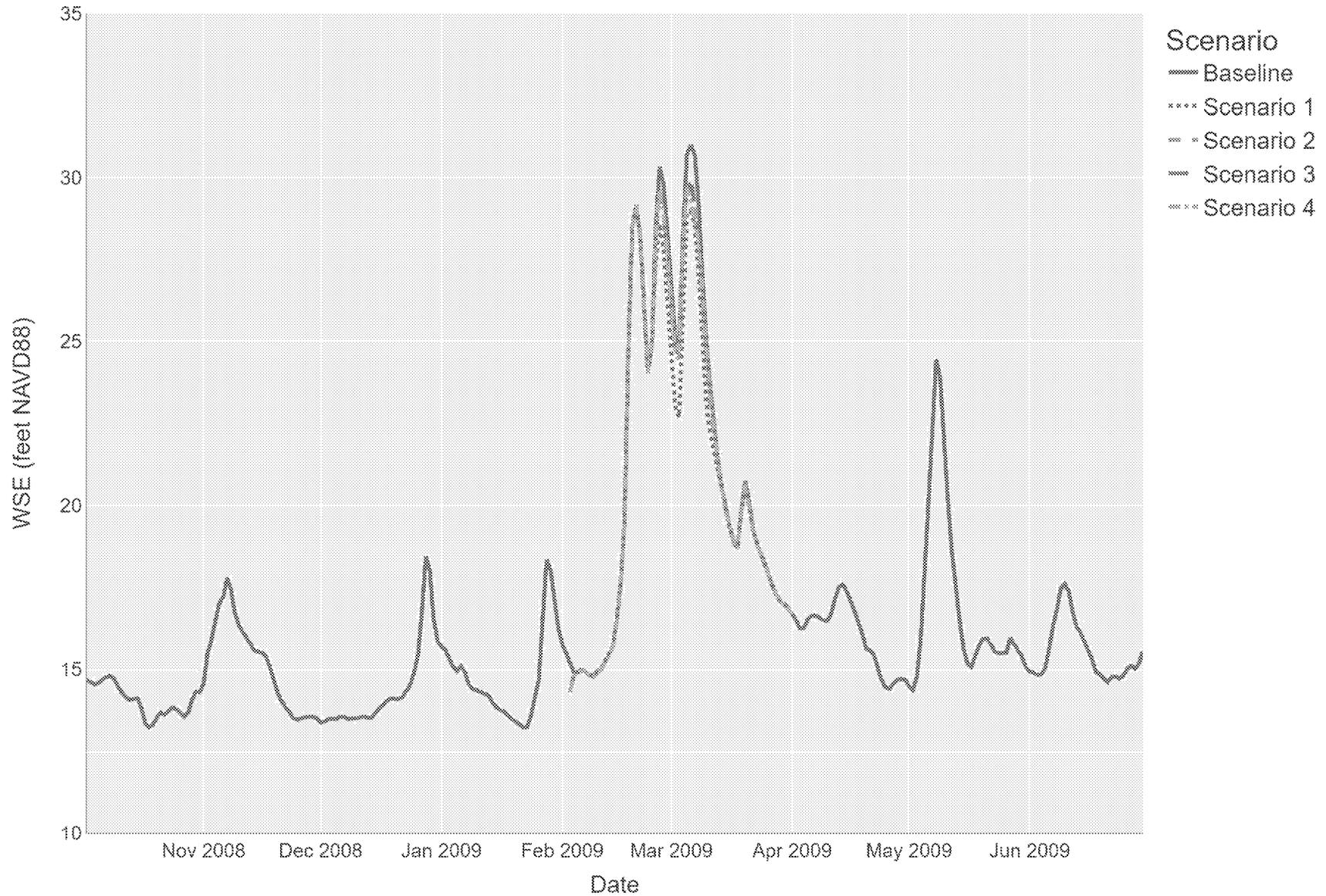


**ENTRAINMENT PERCENTAGE VS WSE FOR BNP
FROM BNP EIR/EIS ANALYSIS**

FIGURE 10



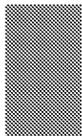
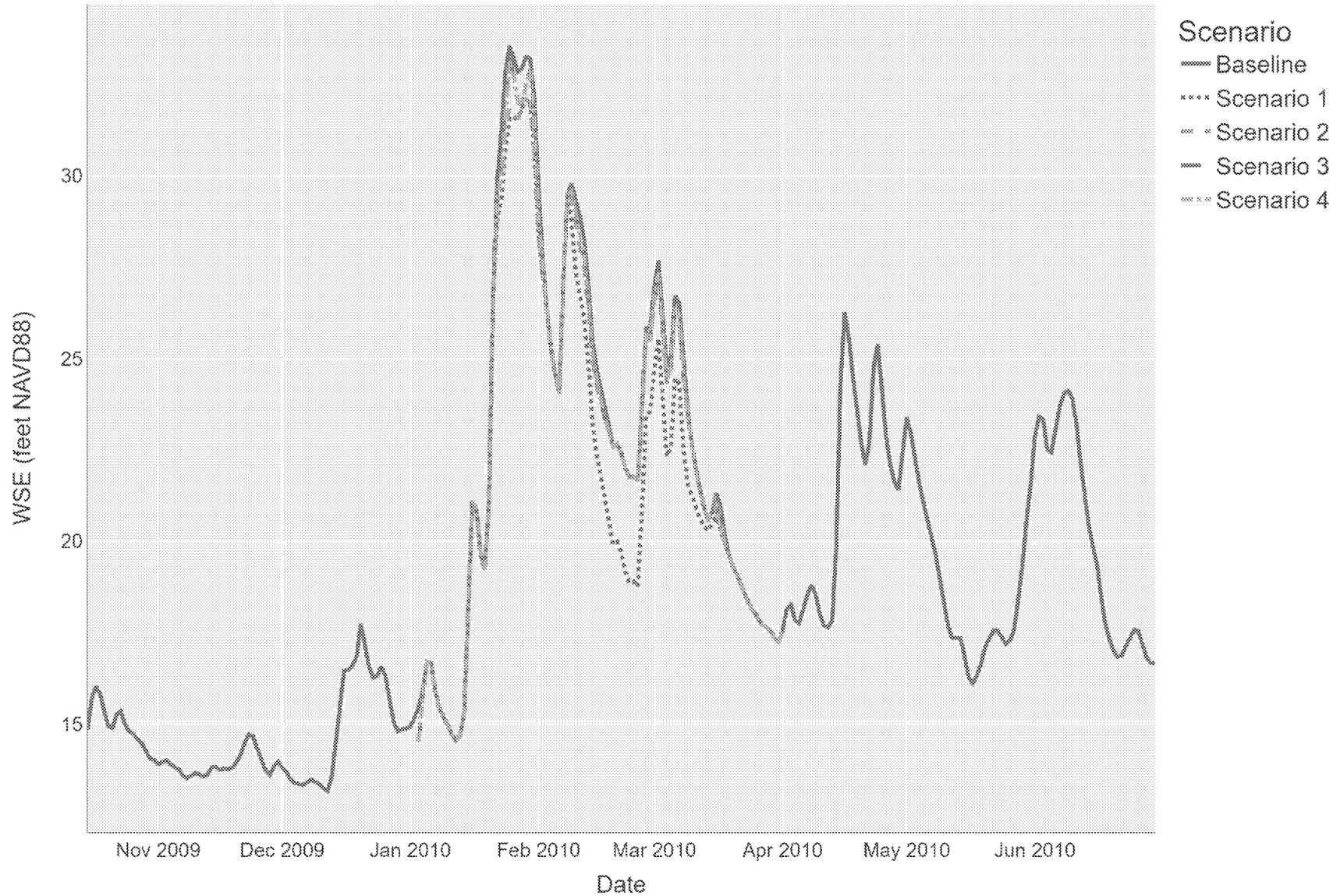
WSE Time-series 2009 Near Knights Landing



TUFLOW WSE VS TIME
SACRAMENTO RIVER NEAR KNIGHTS LANDING 2009

FIGURE 11

WSE Time-series 2010 Near Knights Landing

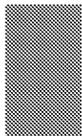
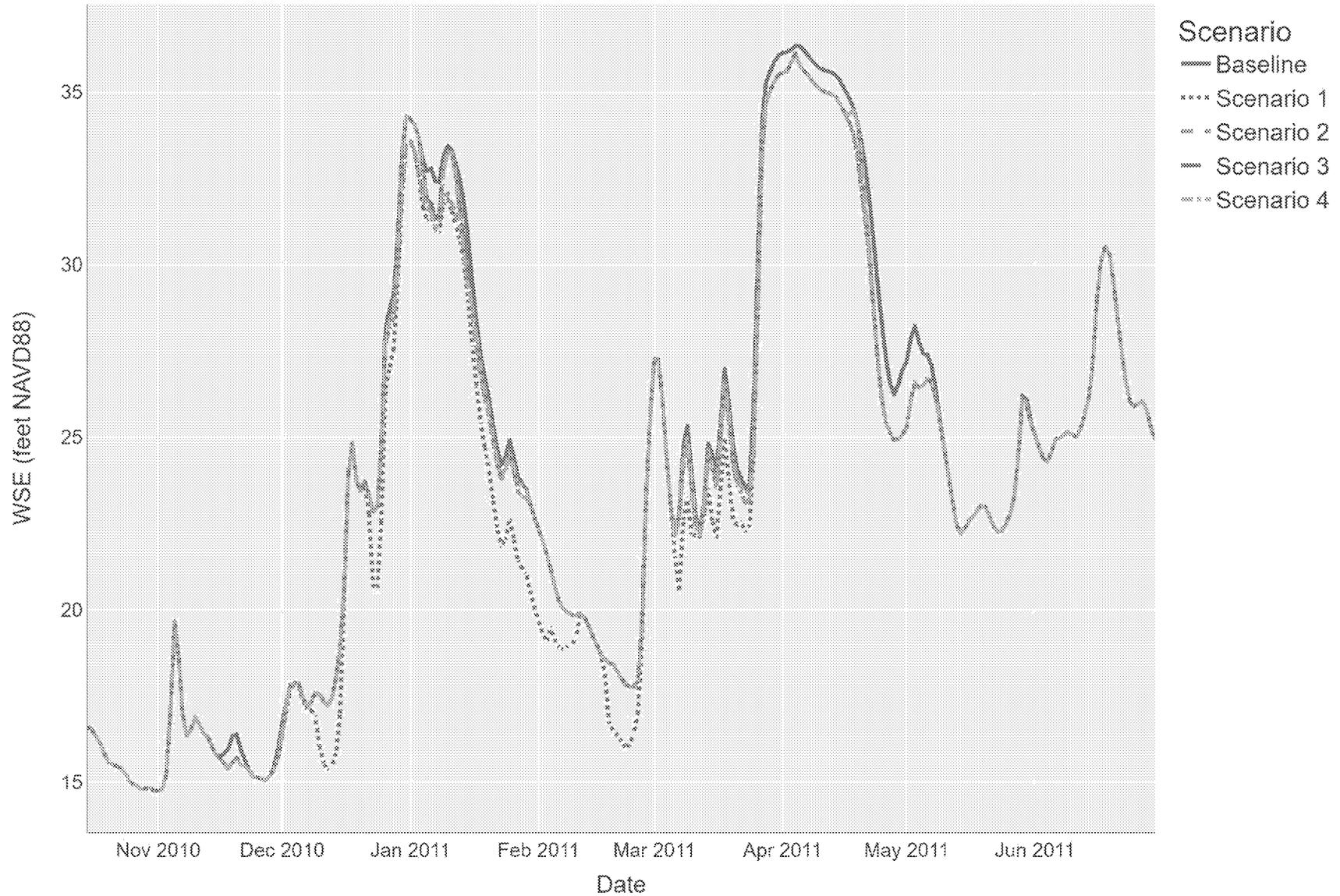


TUFLOW WSE VS TIME
SACRAMENTO RIVER NEAR KNIGHTS LANDING 2010

FIGURE 12

YOLO BYPASS BNP SITES RESERVOIR IMPACT

WSE Time-series 2011 Near Knights Landing

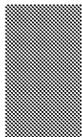
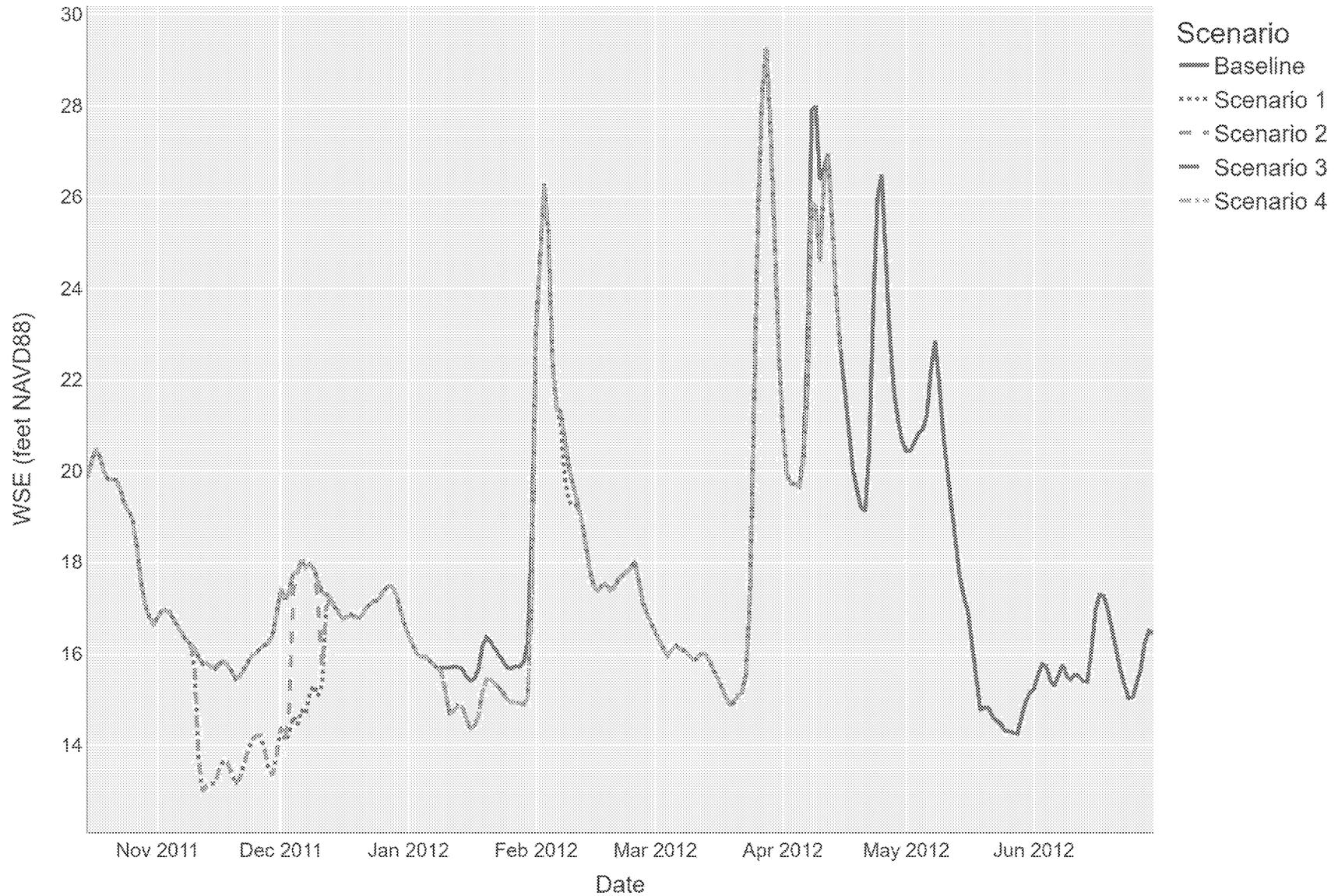


TUFLOW WSE VS TIME
SACRAMENTO RIVER NEAR KNIGHTS LANDING 2011

FIGURE 13

YOLO BYPASS BNP SITES RESERVOIR IMPACT

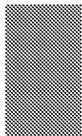
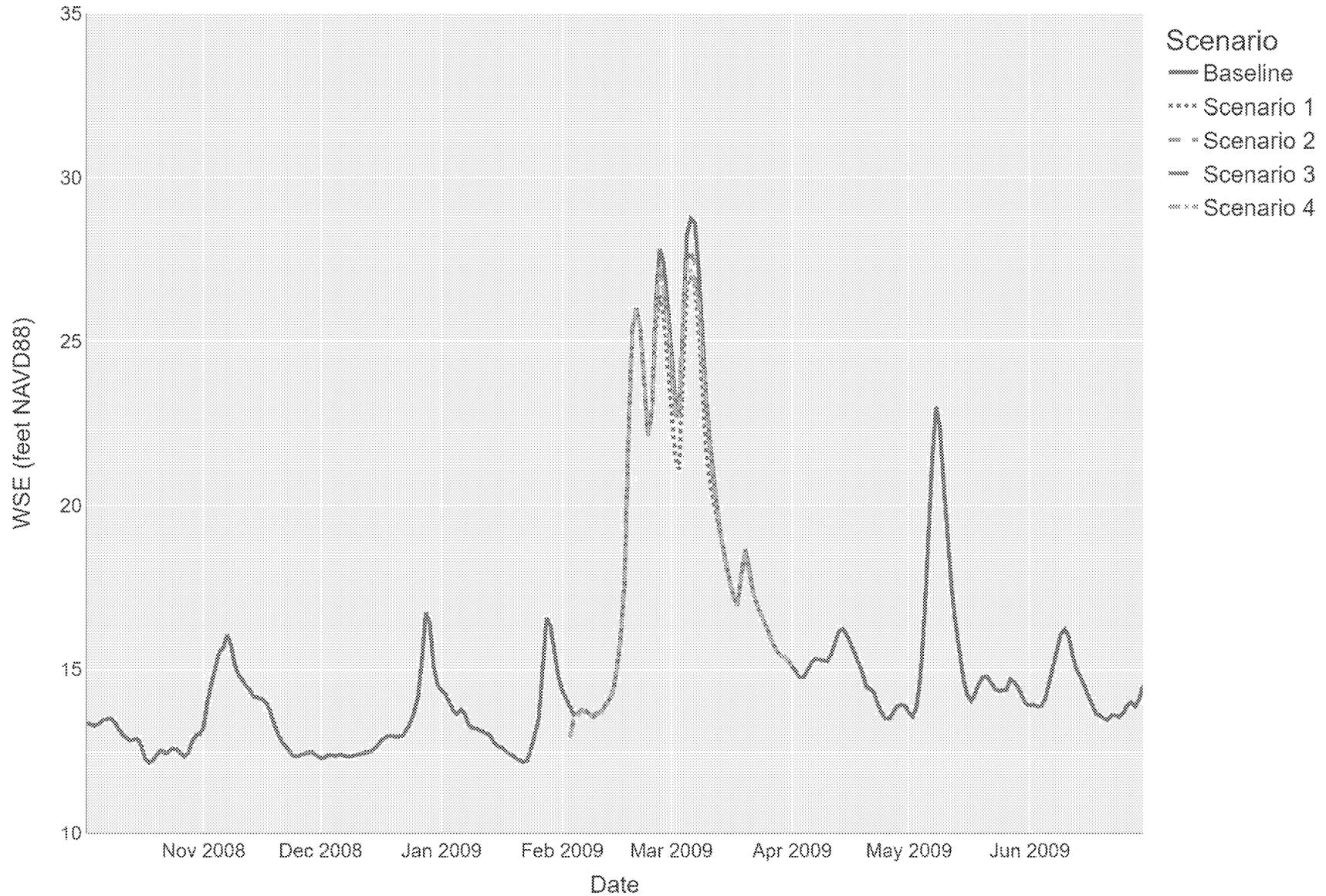
WSE Time-series 2012 Near Knights Landing



TUFLOW WSE VS TIME
SACRAMENTO RIVER NEAR KNIGHTS LANDING 2012

FIGURE 14

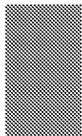
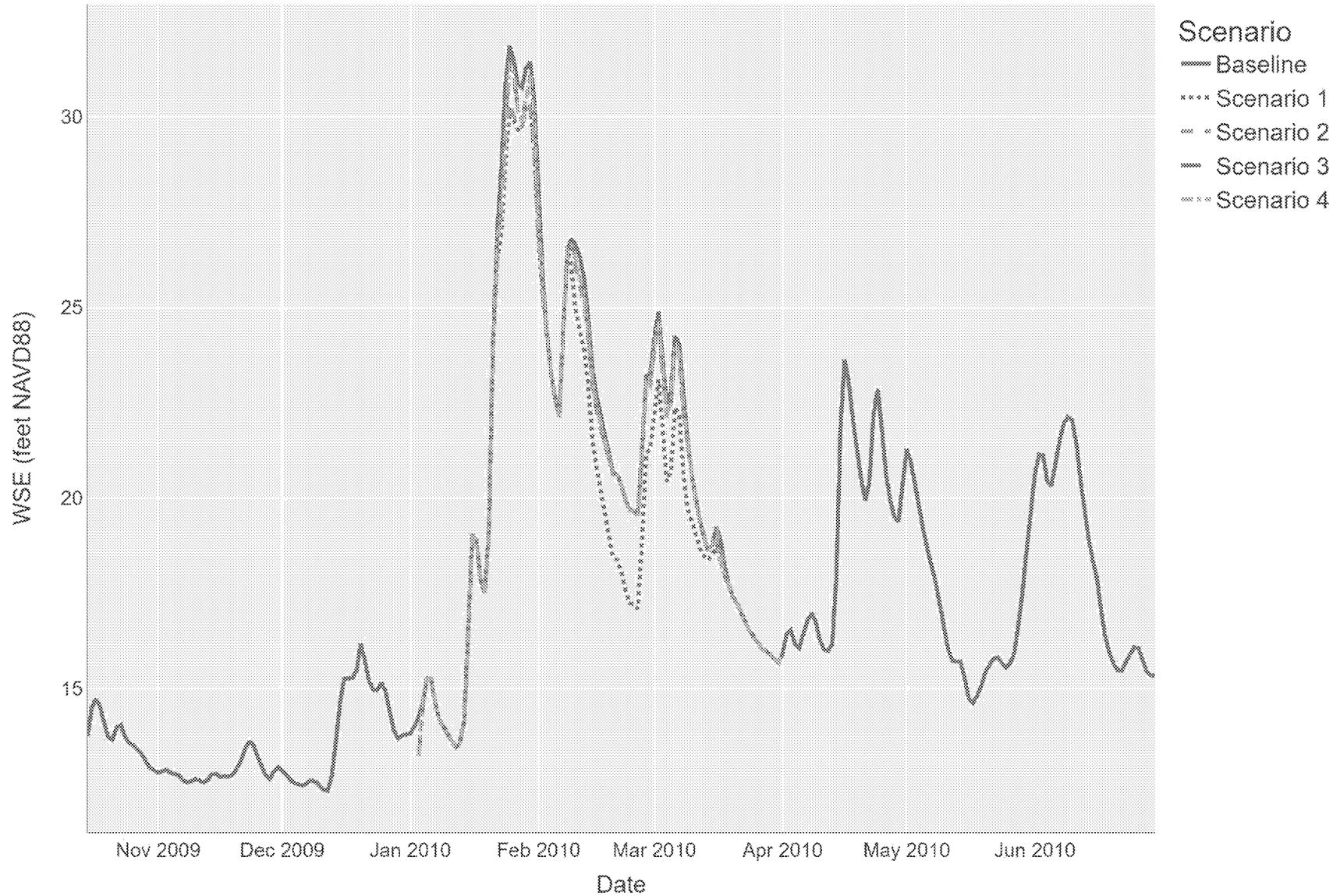
WSE Time-series 2009 West side of Fremont Weir



TUFLOW WSE VS TIME
SACRAMENTO RIVER NEAR WEST SIDE OF FREMONT WEIR 2009

FIGURE 15

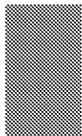
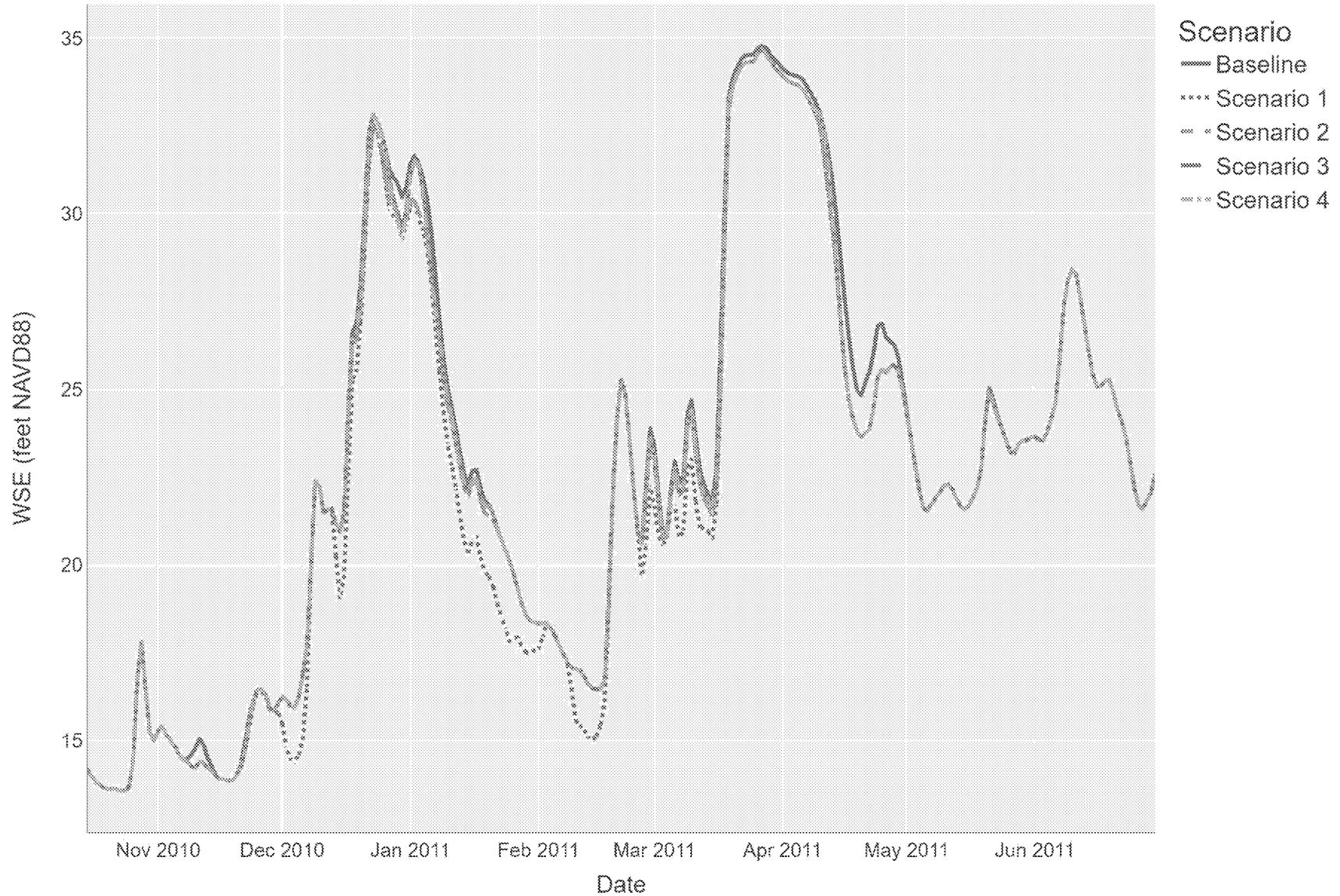
WSE Time-series 2010 West side of Fremont Weir



TUFLOW WSE VS TIME
SACRAMENTO RIVER NEAR WEST SIDE OF FREMONT WEIR 2010

FIGURE 16

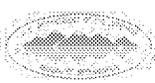
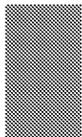
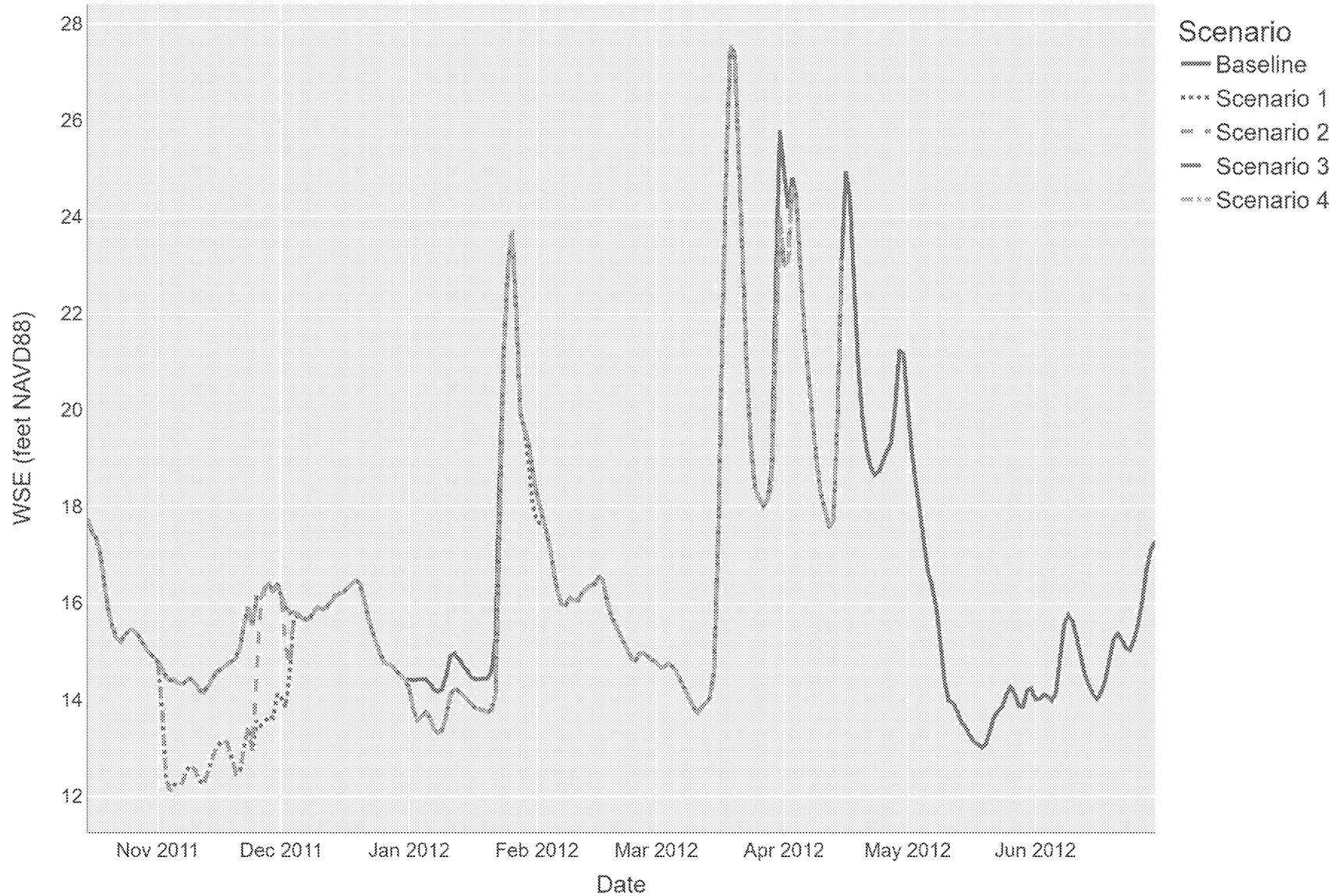
WSE Time-series 2011 West side of Fremont Weir



TUFLOW WSE VS TIME
SACRAMENTO RIVER NEAR WEST SIDE OF FREMONT WEIR 2011

FIGURE 17

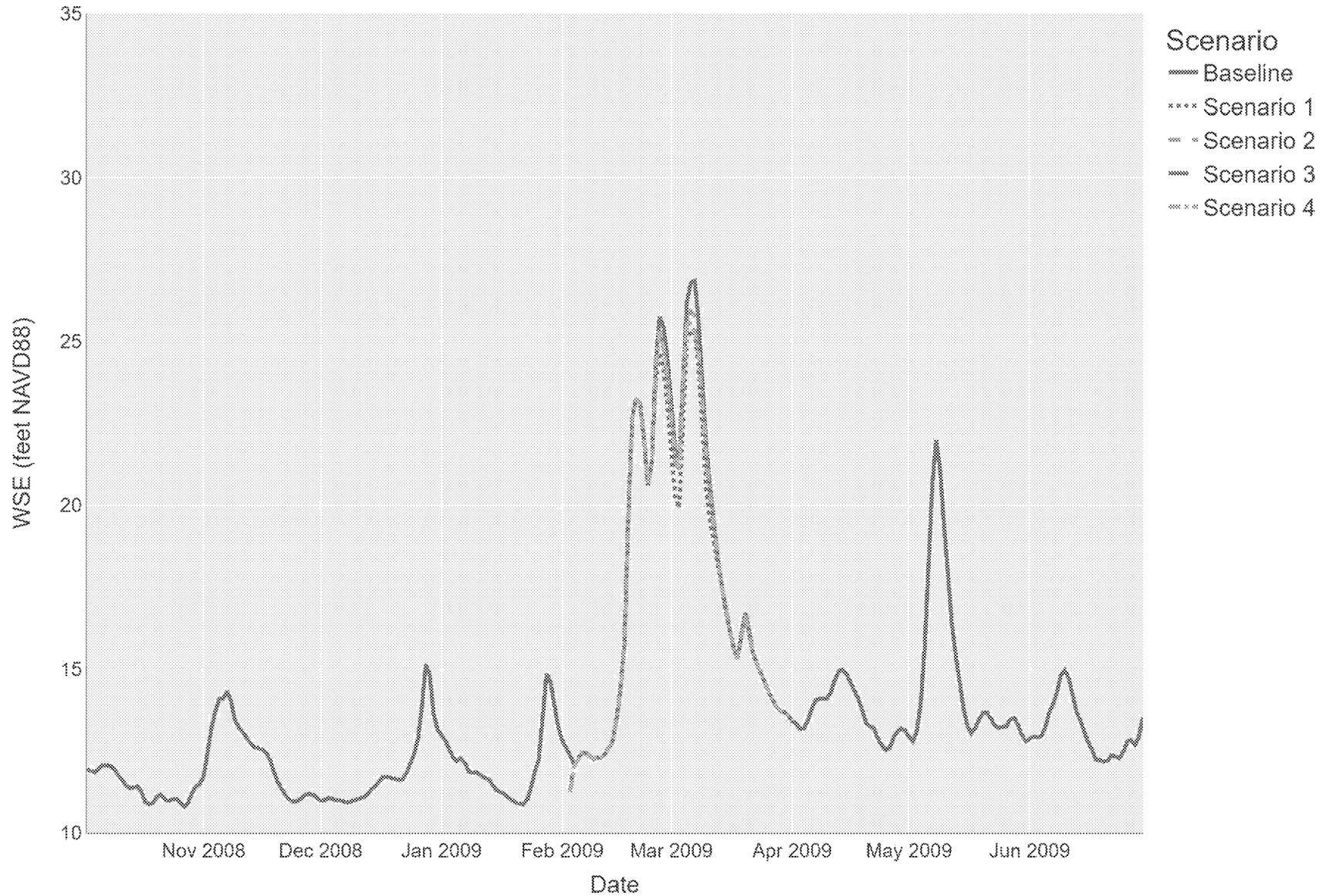
WSE Time-series 2012 West side of Fremont Weir



TUFLOW WSE VS TIME
 SACRAMENTO RIVER NEAR WEST SIDE OF FREMONT WEIR 2012

FIGURE 18

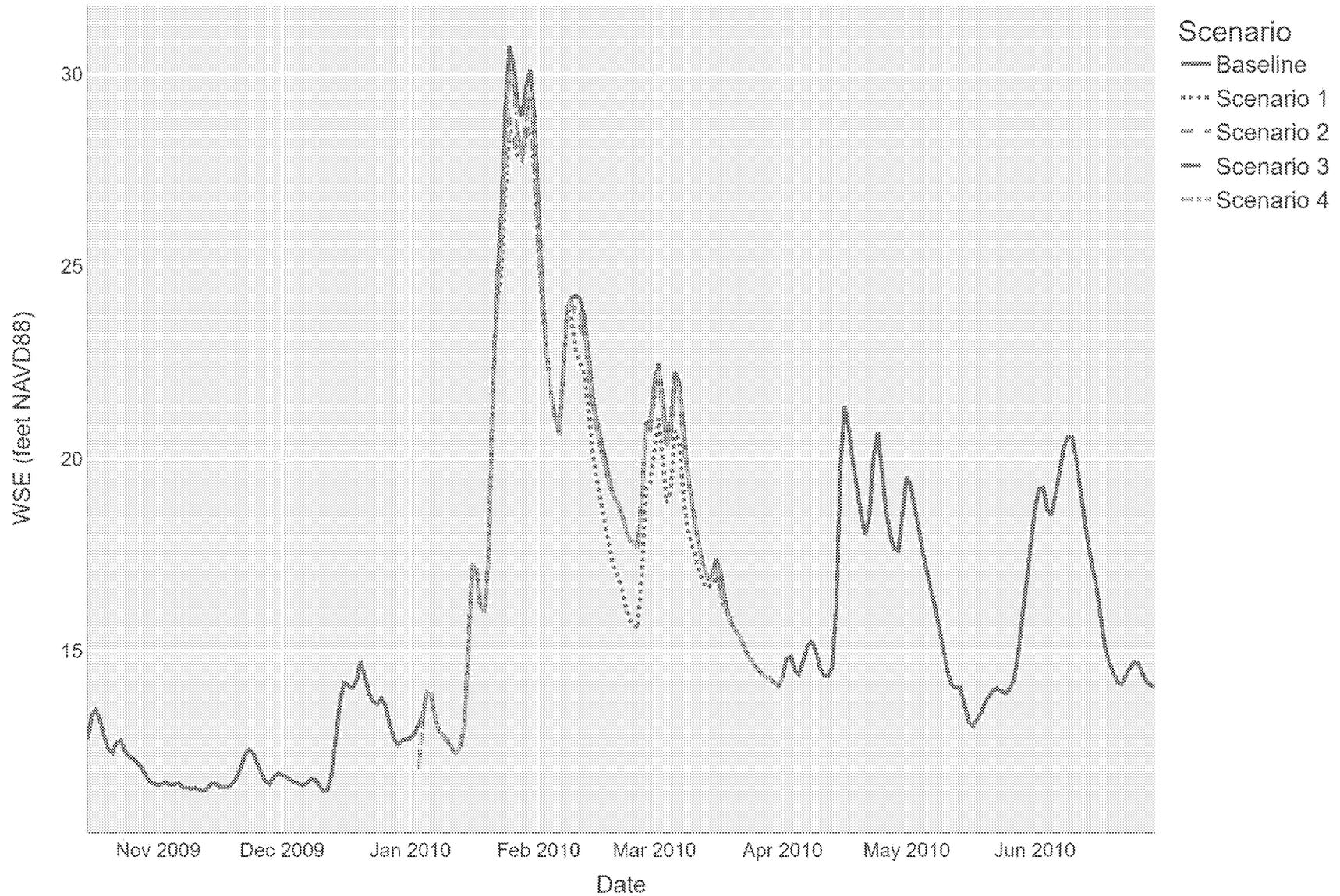
WSE Time-series 2009 Near BNP



TUFLOW WSE VS TIME
SACRAMENTO RIVER NEAR BNP 2009

FIGURE 19

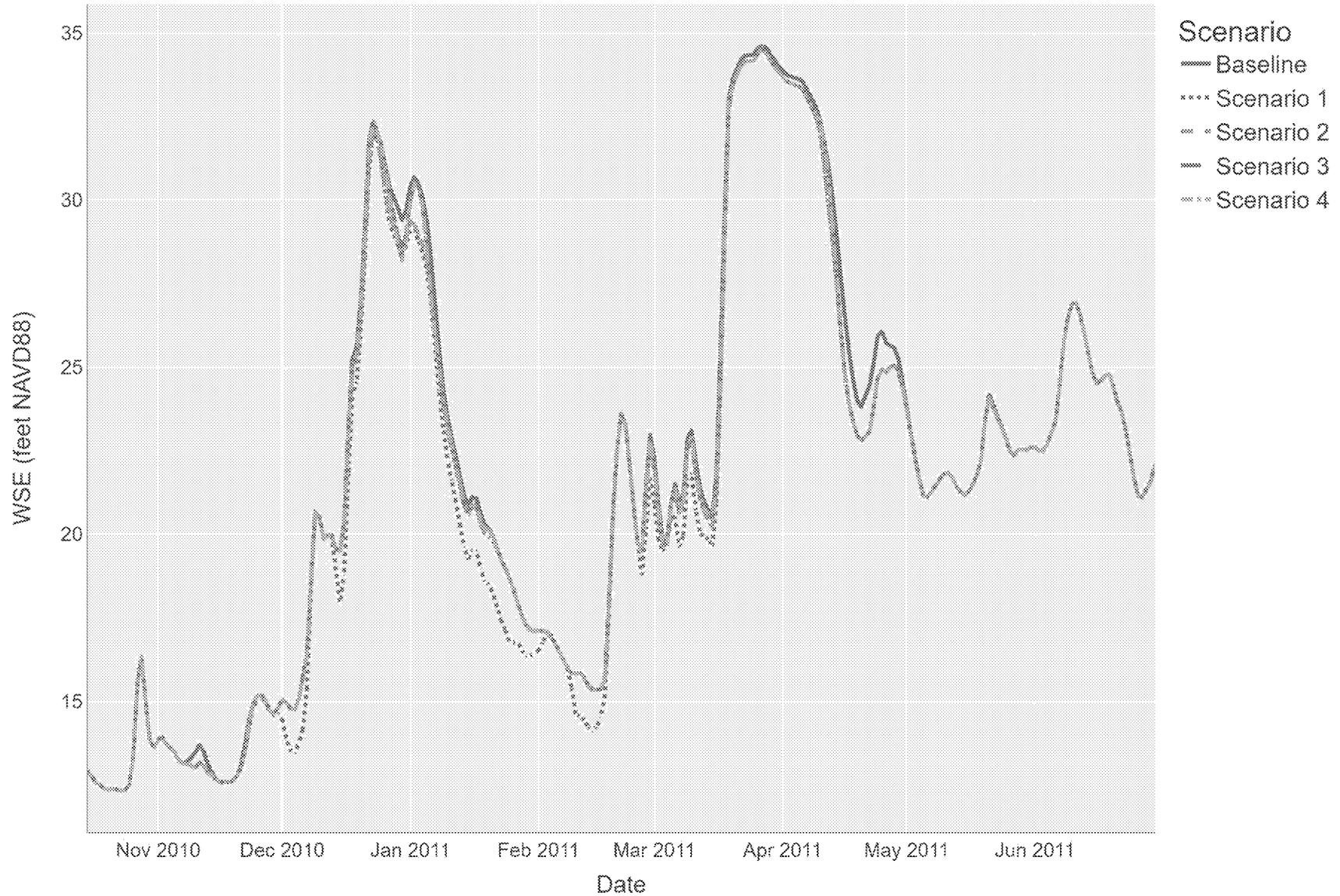
WSE Time-series 2010 Near BNP



TUFLOW WSE VS TIME
SACRAMENTO RIVER NEAR BNP 2010

FIGURE 20

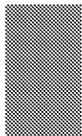
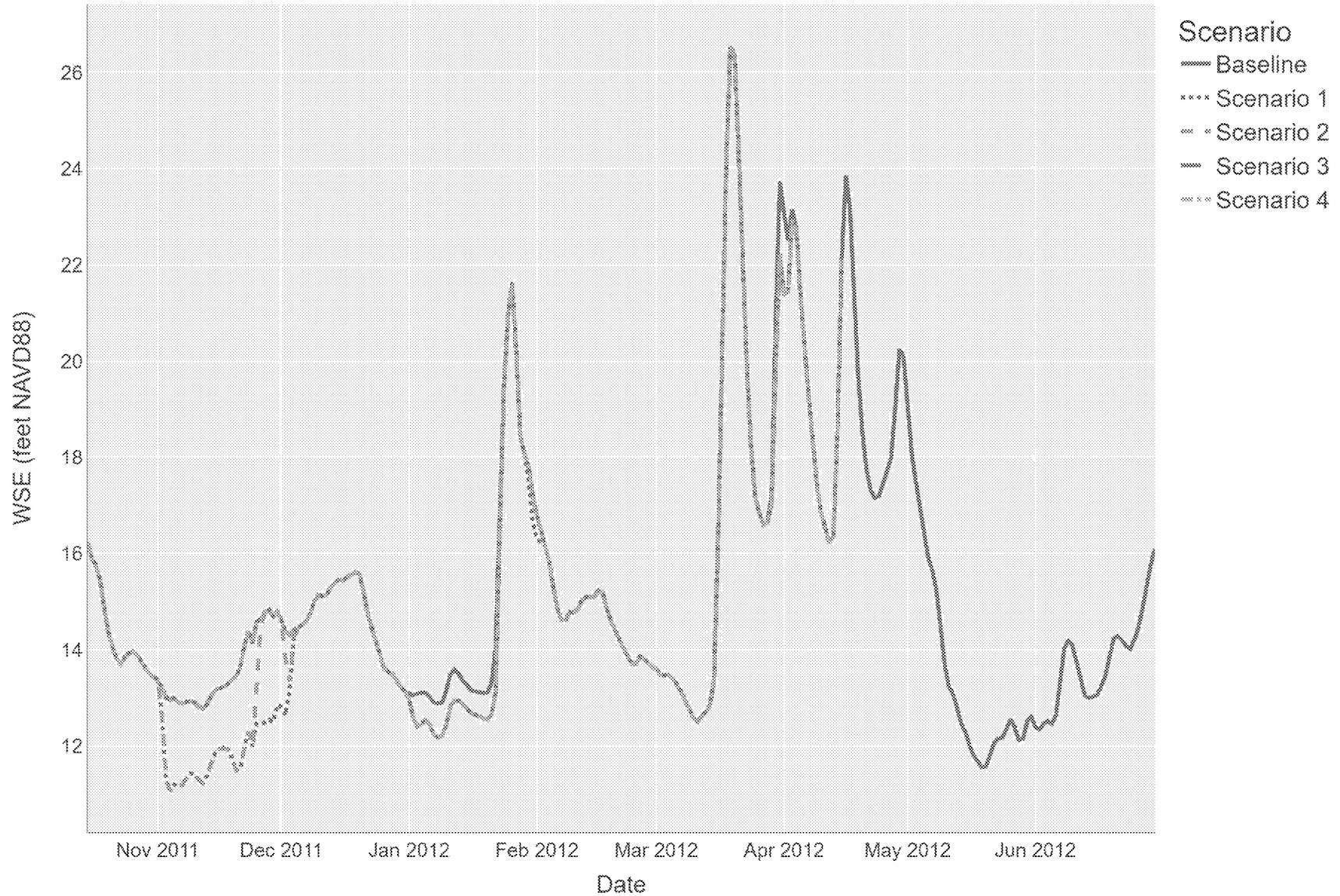
WSE Time-series 2011 Near BNP



TUFLOW WSE VS TIME
SACRAMENTO RIVER NEAR BNP 2011

FIGURE 21

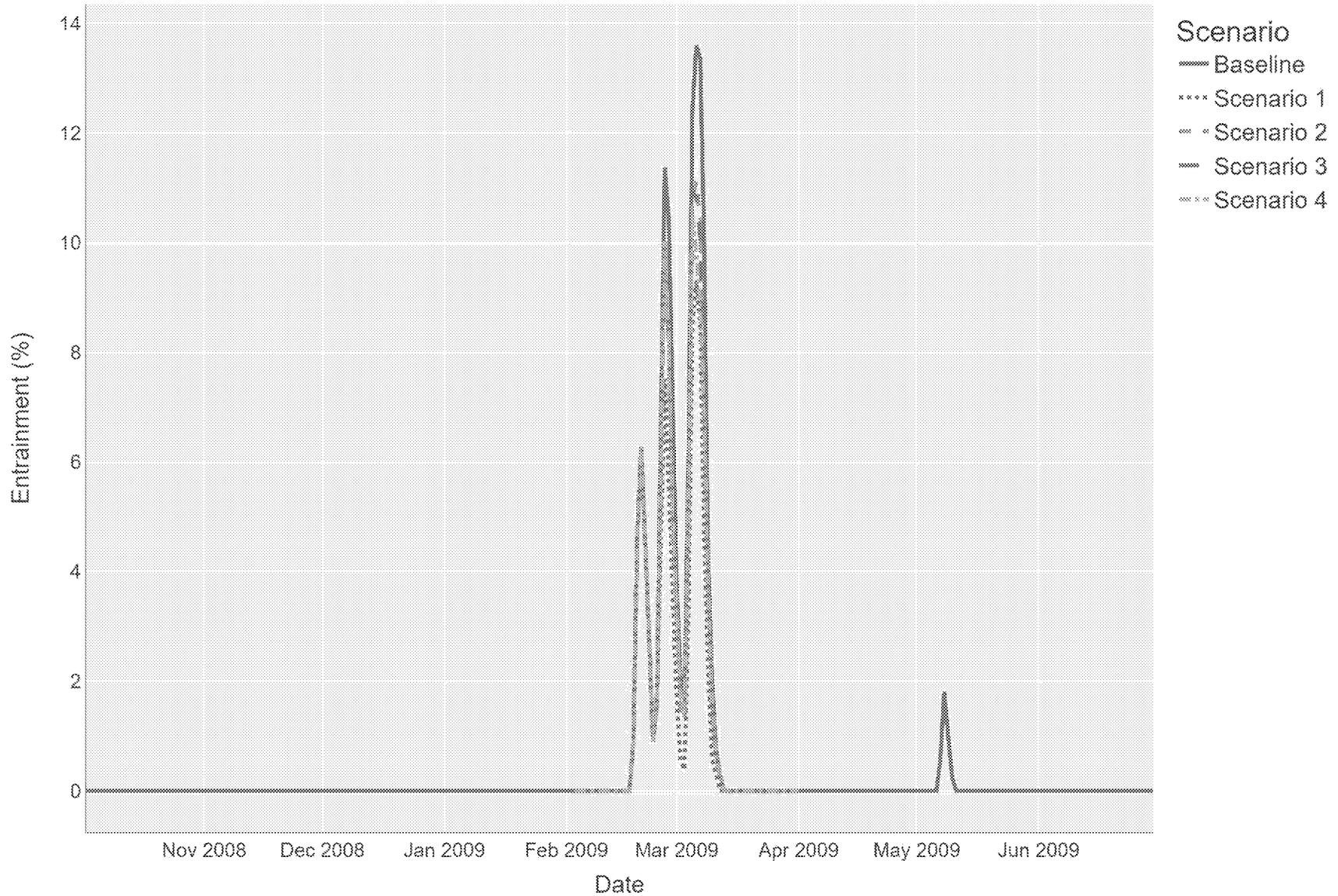
WSE Time-series 2012 Near BNP



TUFLOW WSE VS TIME
SACRAMENTO RIVER NEAR BNP 2012

FIGURE 22

WSE Time-series 2009 Entrainment

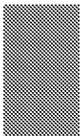


BNP ENTRAINMENT PERCENT VS TIME

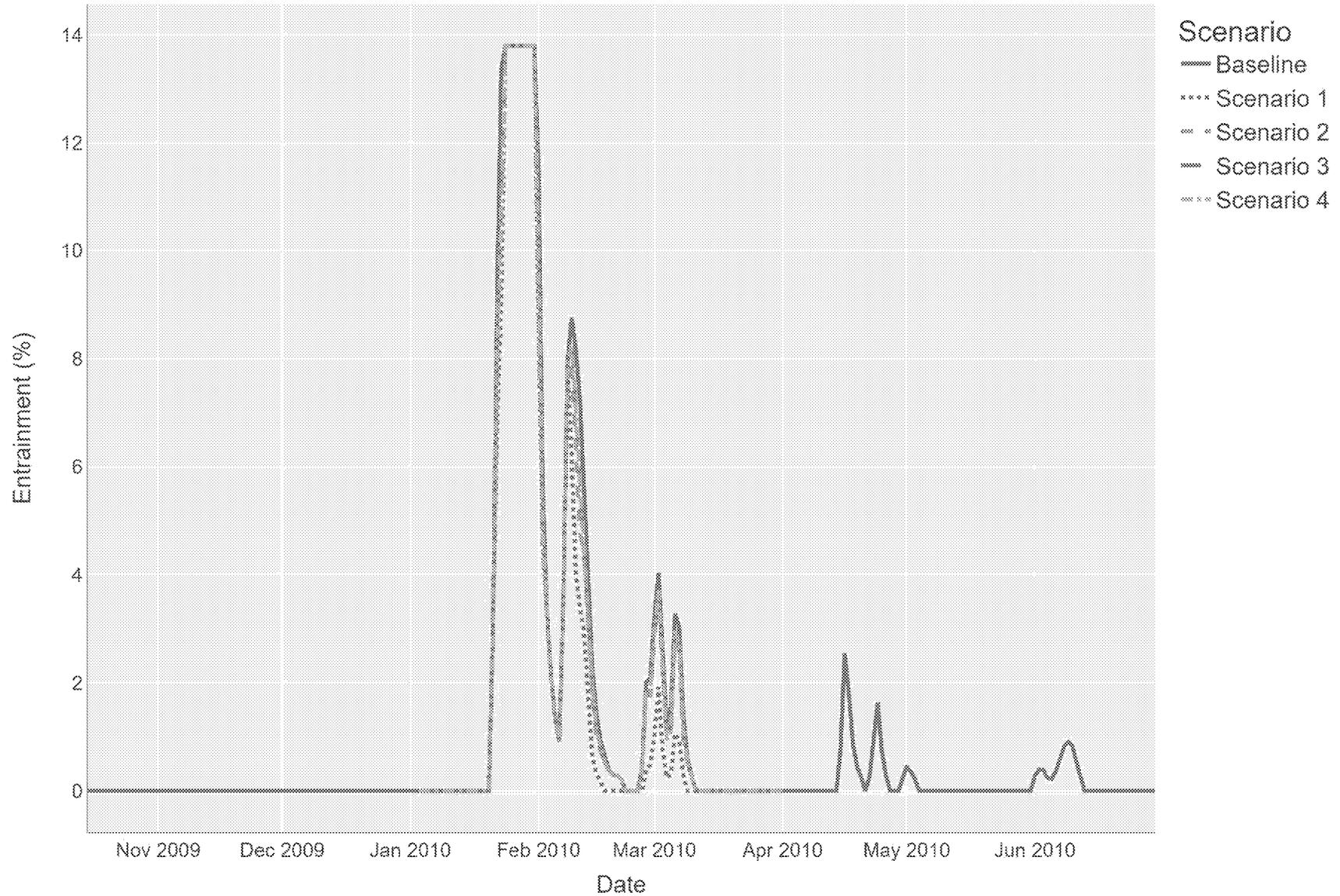
2009

FIGURE 23

YOLO BYPASS BNP SITES RESERVOIR IMPACT



WSE Time-series 2010 Entrainment

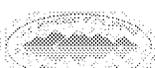
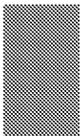


BNP ENTRAINMENT PERCENT VS TIME

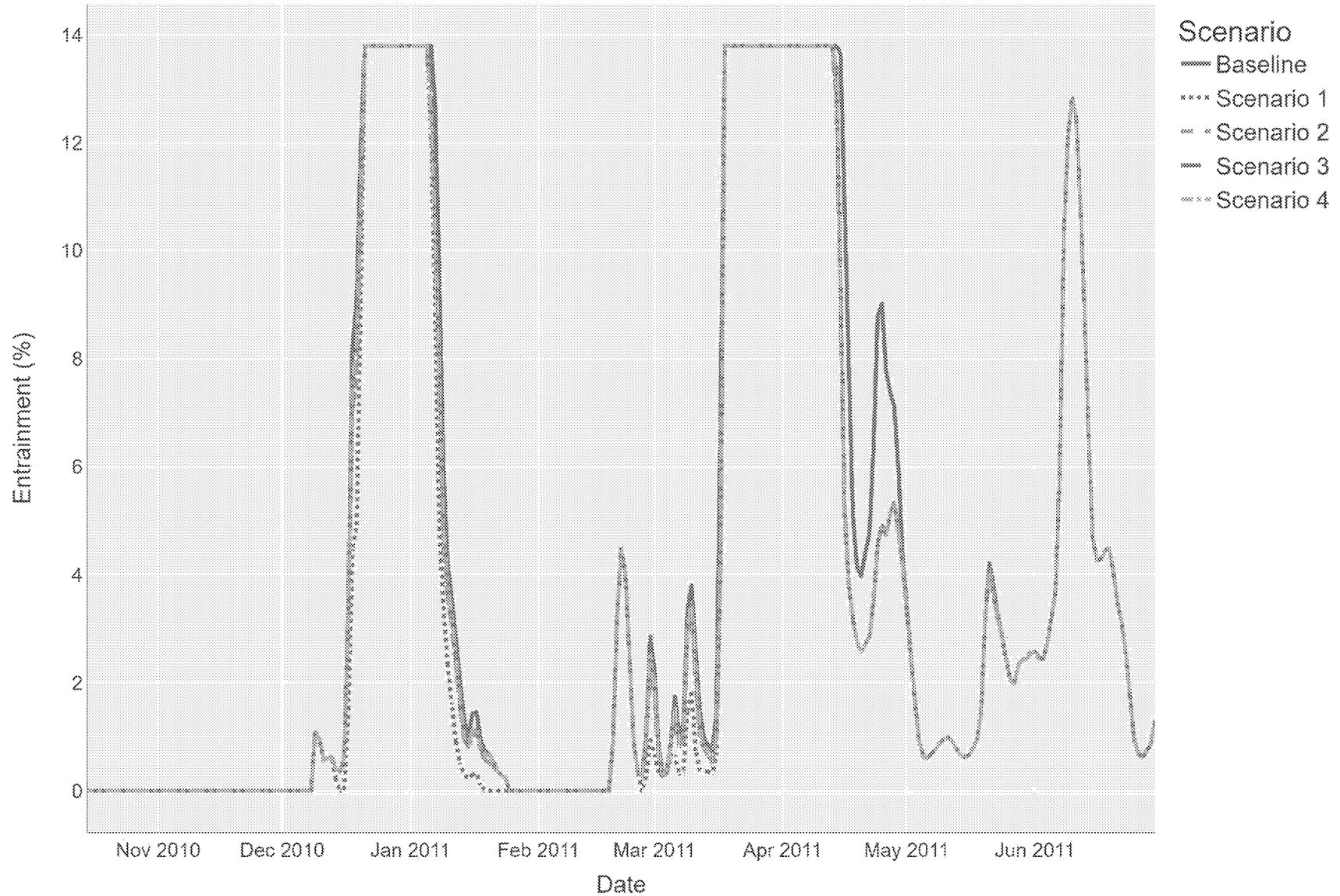
2010

FIGURE 24

YOLO BYPASS BNP SITES RESERVOIR IMPACT



WSE Time-series 2011 Entrainment

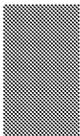


BNP ENTRAINMENT PERCENT VS TIME

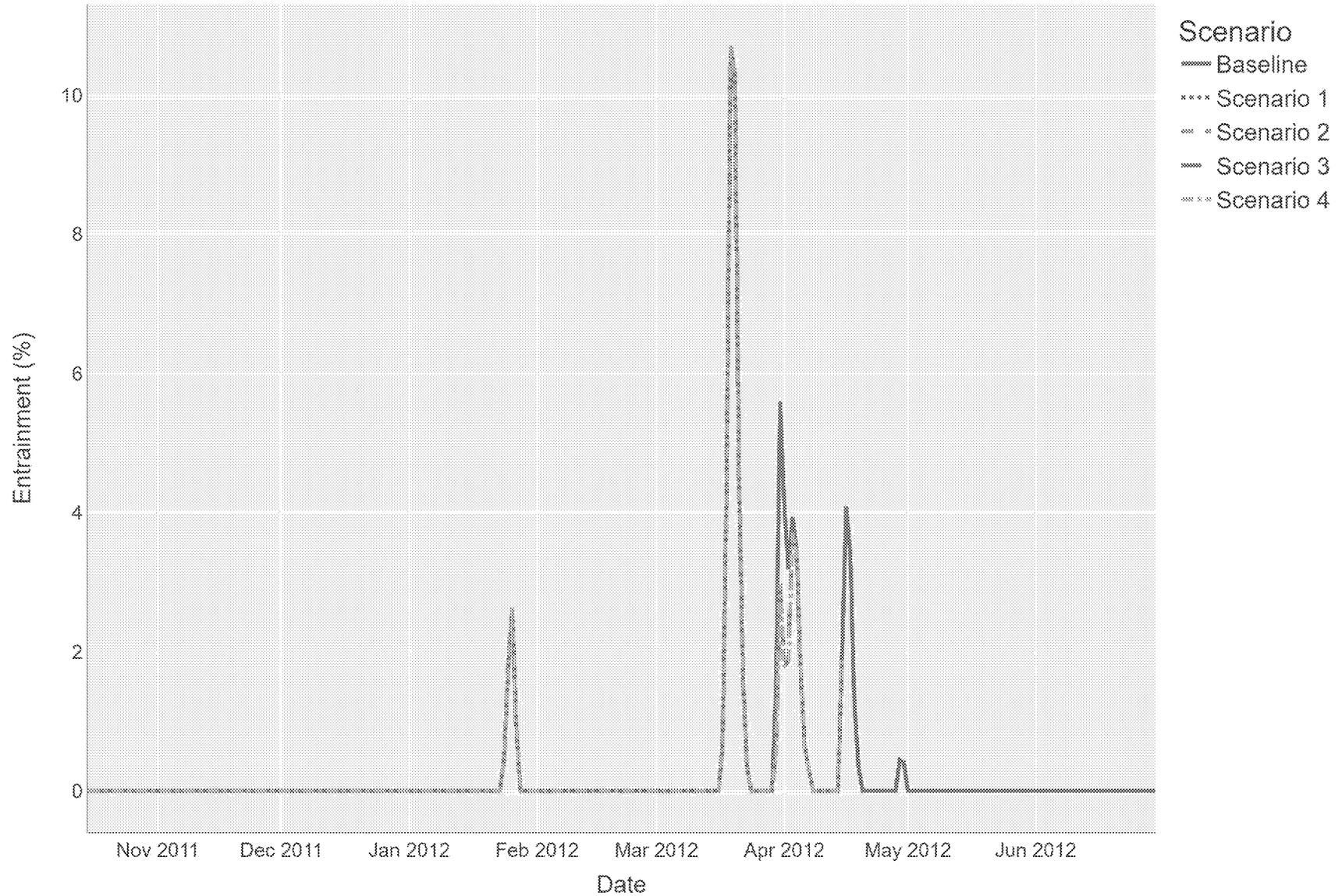
2011

FIGURE 25

YOLO BYPASS BNP SITES RESERVOIR IMPACT



WSE Time-series 2012 Entrainment

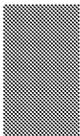


BNP ENTRAINMENT PERCENT VS TIME

2012

FIGURE 26

YOLO BYPASS BNP SITES RESERVOIR IMPACT



From: JP Robinette [JRobinette@BrwnCald.com]
Sent: 2/15/2022 3:18:01 PM
To: jelica.arsenijevic [jelica.arsenijevic@hdrinc.com]; Marcia Kivett [MKivett@sitesproject.org]; Marcia Kivett [MKivett@sitesproject.org]; Alicia Forsythe [aforsythe@sitesproject.org]; Luu, Henry [henry.luu@hdrinc.com]; Spranza, John [john.spranza@hdrinc.com]
CC: Kevin Spesert [kspesert@sitesproject.org]; Jerry Brown [jbrown@sitesproject.org]
Subject: RE: Sites - GCID Facility Improvements

Added. I am planning to send right now.

JP Robinette, PE*
Brown and Caldwell
JRobinette@brwnald.com
T 916.853.5312 | C 801.819.4306
*Professional Registration in Specific States

From: Arsenijevic, Jelica <Jelica.Arsenijevic@hdrinc.com>
Sent: Tuesday, February 15, 2022 2:10 PM
To: JP Robinette <JRobinette@BrwnCald.com>; Marcia Kivett <MKivett@sitesproject.org>; Marcia Kivett <MKivett@sitesproject.org>; Alicia Forsythe <aforsythe@sitesproject.org>; Luu, Henry <henry.luu@hdrinc.com>; Spranza, John <john.spranza@hdrinc.com>
Cc: Kevin Spesert <kspesert@sitesproject.org>; Jerry Brown <jbrown@sitesproject.org>
Subject: RE: Sites - GCID Facility Improvements

Looks good to me. Not sure if its worth while reiterating that we've removed permitting the headworks from the overall project permits as well (404, 401).

John/Ali...thoughts? Not sure what we are doing for the BA, ITP

Jelica Arsenijevic
Environmental Project Manager

Due to COVID-19, I will be working from home. Please contact me via cell # listed below. Be safe out there!

HR
2379 Gateway Oaks Drive, Suite 200
Sacramento, CA 95833
D 916-679-8854
M 209-329-6897

Jelica.Arsenijevic@hdrinc.com

hdrinc.com/follow-us

From: JP Robinette <JRobinette@BrwnCald.com>
Sent: Tuesday, February 15, 2022 10:53 AM
To: Marcia Kivett <MKivett@sitesproject.org>; Marcia Kivett <MKivett@sitesproject.org>; Alicia Forsythe <aforsythe@sitesproject.org>; Luu, Henry <henry.luu@hdrinc.com>; Spranza, John <john.spranza@hdrinc.com>; Arsenijevic, Jelica <jelica.arsenijevic@hdrinc.com>
Cc: Kevin Spesert <kspesert@sitesproject.org>; Jerry Brown <jbrown@sitesproject.org>
Subject: RE: Sites - GCID Facility Improvements
Importance: High

CAUTION: [EXTERNAL] This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Team,

I plan to send this note to GCID this afternoon to close the loop, so please send me any edits or red flags by 2pm. Kevin and I met with GCID and confirmed they are good to design and construct the headgates and other improvements with the exception of the TRR and that it didn't make sense for us to do any exploration related to these works. Henry, as discussed, you will coordinate with Fugro to remove the holes related to the headworks from their workplan.

Thad and Holly,

I wanted to circle back and confirm a few things after our meeting last week:

- *We will not perform exploration work on the headgates as the tentative plan moving forward is for GCID to design and construct these improvements. These locations will appear in our EA/IS and other planning documents as they were already included, but the work will not be executed. We will continue to discuss the design and construction funding agreements necessary to accomplish these improvements.*
- *The only work Sites will continue to advance from a design and exploration perspective is the TRR.*

Please feel free to reach out to me with any questions or concerns. and thank you for the ongoing collaboration!

JP Robinette, PE*

Brown and Caldwell

JRobinette@brwncald.com

T 916.853.5312 | C 801.819.4306

*Professional Registration in Specific States

-----Original Appointment-----

From: Marcia Kivett <MKivett@sitesproject.org>

Sent: Monday, February 07, 2022 4:39 PM

To: Marcia Kivett; Alicia Forsythe; Henry Luu; JP Robinette; Spranza, John; Arsenijevic, Jelica

Subject: Sites - GCID Facility Improvements

When: Tuesday, February 08, 2022 4:30 PM-5:00 PM (UTC-08:00) Pacific Time (US & Canada).

Where:

Some key items:

1. Who will do what w/r/t GCID facilities
 - a. Design and construction
 - b. Permitting approach
2. Geotech work
 - a. Authority do this year?
 - b. Permitting approach if so
3. 404/401 permitting approach for headworks, syphons, and TRR facility
4. Not addressing automation, fish screen, etc in EIR/EIS and permitting

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From: JP Robinette [jrobinette@sitesproject.org]
Sent: 2/16/2022 10:59:48 AM
To: Luu, Henry [Henry.Luu@hdrinc.com]
Subject: Re: Sites request for DSOD engagement

Looks good as is, Henry. I will plan to send and cc you.

From: Luu, Henry <Henry.Luu@hdrinc.com>
Sent: Tuesday, February 15, 2022 1:43 PM
To: JP Robinette <jrobinette@sitesproject.org>
Subject: Sites request for DSOD engagement

JP, feel free to edit the below draft email to be sent to DSOD Division Chief Sharon Tapia (sharon.tapia@water.ca.gov):

Hello Sharon,

I am reaching out to you to provide an update on the Sites Reservoir Project. Members of our project team last met with you and other DSOD staff in early 2019 to discuss the Sites team, the project description, site conditions, project features, schedule and the path forward. Progress has been made since then on the project feasibility evaluation, and we are developing our approach for establishing project design criteria, engineering analyses, an extensive geotechnical investigation program, and preliminary designs that will be completed over the next couple of years.

We would like to request a briefing with you and your team on the Sites Reservoir Project sometime within the next two months, if possible. In advance of that meeting we would like to hold a call with DSOD's point of contact for the Sites Reservoir Project to discuss DSOD engagement, communication protocols, schedule, and the agenda for the briefing. We would also like to discuss DSOD fees for the project and the anticipated payment schedule.

Please let me know who is best to coordinate with at DSOD – we look forward to working with you and your team to advance this project.

Thank you,

Henry H. Luu, PE
D 916.679.8857 M 916.754.7566

hdrinc.com/follow-us

From: Martinez, Josh@DWR [Joshua.Martinez@water.ca.gov]
Sent: 2/16/2022 12:09:13 PM
To: Heydinger, Erin [erin.heydinger@hdrinc.com]; Heydinger, Erin [erin.heydinger@hdrinc.com]; Paccassi, Michael@Wildlife [Michael.Paccassi@Wildlife.ca.gov]; Sherrick, Robert@Wildlife [Robert.Sherrick@Wildlife.ca.gov]; steve.micko@jacobs.com; Serup, Bjarni@Wildlife [Bjarni.Serup@wildlife.ca.gov]
CC: Spranza, John [john.spranza@hdrinc.com]; Alicia Forsythe [aforsythe@sitesproject.org]; Whittington, Chad/SAC [Chad.Whittington@jacobs.com]; Leaf, Rob/SAC [Rob.Leaf@jacobs.com]; Vasquez, Elizabeth@DWR [Elizabeth.Vasquez@water.ca.gov]
Subject: RE: Sites Reservoir & TUFLOW

Hello again,

I wanted to provide a quick update on the discussed modeling work:

Regarding bullet #1 from my previous email (below), my understanding is Scenario 1 will be modified to extend the Wilkins Slough restrictions from Mar-May to Oct-June (roughly). However, we only modeled periods when Sites would be diverting flow (see below). As such, the revised Scenario 1 restriction dates will only affect WY 2011. 2009 and 2010 would not be affected, and 2009 was far and away the year with the largest impact (>40% for spring- and winter-run).

- 2009 – Feb 1 through Apr 1
- 2010 – Jan 1 through Apr 1
- 2011 – Oct 2 through Jun 30
- 2012 – Oct 2 through Apr 15 (Excluded from analysis – no fish catch data available)

Unless there are more changes to Scenario 1 than just the dates of protection, I don't think we need to re-run the analysis. Are we anticipating more changes to Scenario 1 that I am overlooking?

Also, I am meeting with the modeling team this afternoon to discuss extending this analysis to include additional years. The initial response from the modeling team is we are unlikely to be able to work outside of our existing 1997-2012 period of record at this time. I will report back with more info.

Finally, this is likely to be an expensive undertaking, especially if we are limited to using dates outside of our existing 1997-2012 period of record. I would like to communicate with someone from the Sites team about a potential cost-share. Erin, would you be the appropriate person to contact?

Thank you again,

-Josh

From: Martinez, Josh@DWR
Sent: Monday, February 14, 2022 4:44 PM
To: 'Heydinger, Erin' <Erin.Heydinger@hdrinc.com>; Heydinger, Erin <Erin.Heydinger@hdrinc.com>; Paccassi, Michael@Wildlife <Michael.Paccassi@Wildlife.ca.gov>; Sherrick, Robert@Wildlife <Robert.Sherrick@Wildlife.ca.gov>; steve.micko@jacobs.com; Serup, Bjarni@Wildlife <Bjarni.Serup@wildlife.ca.gov>
Cc: John Spranza <John.Spranza@hdrinc.com>; Alicia Forsythe <aforsythe@sitesproject.org>; Whittington, Chad/SAC <Chad.Whittington@jacobs.com>; Leaf, Rob/SAC <Rob.Leaf@jacobs.com>
Subject: RE: Sites Reservoir & TUFLOW

Hi all,

Thank you for taking the time to get me up to speed on this effort. I've put a request in with our modeling team to:

1. Re-run the model with a revised Scenario 1; and
2. Run the model for an extended range of years
 - a. Through 2018 using available Sites data; or
 - b. 1997-2008 if Sites data can be made available (preferred option)

Attached is a copy of the latest TUFLOW report.

-Josh



Joshua Martinez
Restoration Ecology Unit
Division of Integrated Science and Engineering
Office: (916) 376-9725
Mobile: (916) 835-8778
Joshua.Martinez@water.ca.gov

-----Original Appointment-----

From: Heydinger, Erin <Erin.Heydinger@hdrinc.com>

Sent: Thursday, February 3, 2022 11:18 AM

To: Heydinger, Erin; Paccassi, Michael@Wildlife; Sherrick, Robert@Wildlife; steve.micko@jacobs.com; Serup, Bjarni@Wildlife; Martinez, Josh@DWR

Cc: John Spranza; Alicia Forsythe; Whittington, Chad/SAC; Leaf, Rob/SAC

Subject: Sites Reservoir & TUFLOW

When: Monday, February 14, 2022 3:30 PM-4:30 PM (UTC-08:00) Pacific Time (US & Canada).

Where: Microsoft Teams Meeting

To discuss use of TUFLOW for evaluating the Sites project. Please forward this meeting invite to anybody I may have missed.

Thanks!

Microsoft Teams meeting

Join on your computer or mobile app

[Click here to join the meeting](#)

Or call in (audio only)

[+1 213-514-6883](tel:+12135146883),648409308# United States, Los Angeles

[\(833\) 255-2803](tel:(833)2552803),648409308# United States (Toll-free)

Phone Conference ID: 648 409 308#

[Find a local number](#) | [Reset PIN](#)

[Learn More](#) | [Meeting options](#)

Topic: **Sites Reservoir Project, Phase 1 (2019)** **2022 Mar**
~~18 2020 June~~
17

Subject: **Reservoir Committee's Environmental and Permitting Workg
Group**

Workg-Group Chartering Document

Status: ~~Ad Hoc~~Standing

- **Leaders:** See Master Roster List ~~Chair~~ Vice-Chair
----- Thad Bettner, GCID ----- Heather Dyer (SBVMWD)
- **Members (9/10):** See Master Roster List; ~~Maximum of 10 Members~~ Mike Azevedo (Colusa Co.) ----- Randall Neudeck (MWD),
* Note: Workgroup membership is by agency. In evaluating the quorum, the agency and not the individual is the member. Authority Board members may attend, may participate in the workgroup meetings and be assigned by the Chair to be involved in Ad Hoc activities of the workgroup, but they are not members of the workgroup.
Robert Cheng (CVWD) ----- Bill Vanderwaal (DWD)
Jeff Davis (SGPWA) -----
Rob Kunde (WR M WSD) -----
Eric Leitterman (Valley Water) -----
- ~~Expertise:~~ PCWA/Roseville for Lower American River
Staff from participating agencies who have specific expertise that is relevant to the matter being addressed by this work group.
- **Staff Support:**
 1. Lead Staff – Environmental Planning and Permitting Manager.
 2. Legal counsel on an as needed basis.
 3. Other specialty advisors or experts, ~~including consultant team members~~ on an as needed basis.
- ~~Re-Adoption of Charter~~ Formation: ~~June 17, 2020~~ XXX
- **Expires:** End of the Amendment 3 to the 2019 Phase 2 Reservoir Project Agreement

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Related Documents:

Status:	For Workgroup consideration	Preparer:	Forsythe	Parcel:	2	Version:	A
Purpose:	Informational	Created:		Date:	2020-2022 June Feb 15		
Case#: 202006_P2 (2020) Env+Permits WG Charter		QV/QC:		Est/Proj #: 12-228-025-000			
				Pages:	1	of	2

- Attachment A: ~~Charter Document - Work Group Chartering Process, General Requirements~~

Purpose: To advise the Authority Board and Reservoir Committee on all environmental planning and permitting aspects of the development and implementation of pre-construction, construction, and mitigation actions for the Sites Reservoir Project.

Meeting Frequency: ~~Scheduled meetings will occur monthly with ad-hoc meetings to be scheduled as needed to support Authority Board and Reservoir Committee decision making. The frequency of scheduled meetings is likely to reduce to every 8 weeks after completion of the Final EIR/EIS. When either the Leader determines or the Reservoir Committee Chairperson requests that a potential issue exists to warrant convening the work group to develop a recommended resolution or response for the Reservoir Committee to then consider and act upon.~~

Work Group's Roles and Responsibilities:

- The primary focus areas of this work-group are providing recommendations onis to review and provide input to:
 1. The Authority's adoption of CEQA Guidelines, revisions to those Guidelines, if any, and proposed environmental policies.
 2. The Authority's development, completion, and implementation of all environmental planning and permitting aspects of pre-construction, construction, environmental commitments, and mitigation actions for the Sites Reservoir Project.

NOTE: The review of operations or construction permits and approvals has been assigned to the Reservoir Operations and Engineering Work Group (e.g., Dam Safety, Traffic).

From: Cooke, Robert@DWR [Robert.Cooke@water.ca.gov]
Sent: 2/16/2022 1:29:00 PM
To: Jerry Brown [jbrown@sitesproject.org]; Alicia Forsythe [aforsythe@sitesproject.org]
Subject: RE: Site site record .pdfs for Yocha Dehe

Jerry,

In the interest of time, you may want to have someone prepare the indemnification document. I have forwarded your email offer to DWR legal and management. I suspect they will take your offer. DWR can continue to help work through this issue as needed. Both sides would get what they need.

Thanks for thinking outside the box!

Rob Cooke
Principal Engineer, PE, RA
Department of Water Resources
(916) 365-7915
(916) 820-7792

From: Jerry Brown <jbrown@sitesproject.org>
Sent: Wednesday, February 16, 2022 12:58 PM
To: Cooke, Robert@DWR <Robert.Cooke@water.ca.gov>; Alicia Forsythe <aforsythe@sitesproject.org>
Subject: Re: Site site record .pdfs for Yocha Dehe

The Sites Authority wishes to provide the requested information and, if necessary, would be willing to sign a release that would indemnify DWR from any responsibility for any claims that may arise related to the creation or release of the information to the Yocha DeHe and would transfer complete responsibility for holding and use of the information from DWR to the Authority. This just makes sense because of the complete transfer of the project from DWR to the Authority per the Prop 1 statute.

From: "Cooke, Robert@DWR" <Robert.Cooke@water.ca.gov>
Date: Wednesday, February 16, 2022 at 11:58 AM
To: Alicia Forsythe <aforsythe@sitesproject.org>
Cc: Jerry Brown <jbrown@sitesproject.org>
Subject: RE: Site site record .pdfs for Yocha Dehe

Hi Ali,

Sorry for the slow progress on this issue. I have a meeting with Anecita, DWR Legal and Management tomorrow at 10:30am. I'll let you know how that goes.

Rob-

Rob Cooke
Principal Engineer, PE, RA
Department of Water Resources
(916) 365-7915
(916) 820-7792

From: Alicia Forsythe <aforsythe@sitesproject.org>
Sent: Friday, February 4, 2022 1:59 PM
To: Cooke, Robert@DWR <Robert.Cooke@water.ca.gov>
Subject: RE: Site site record .pdfs for Yocha Dehe

Hi Rob – I just wanted to check in on the status of this. We just received the attached letter from Yocha Dehe (although it is dated February 1). They are requesting the specific information on cultural sites. Have you been able to make any progress on this?

My apologies for the pressure – we just really want to get this information to the Tribe so they can adequately assess the effects of the Project on their resources.

Ali

Alicia Forsythe | Environmental Planning and Permitting Manager | Sites Project Authority | 916.880.0676 |
aforsythe@sitesproject.org | www.SitesProject.org

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From: Cooke, Robert@DWR <Robert.Cooke@water.ca.gov>
Sent: Thursday, January 27, 2022 5:15 PM
To: Alicia Forsythe <aforsythe@sitesproject.org>
Subject: Re: Site site record .pdfs for Yocha Dehe

Ali,
Ok. I'll see what I can do.
Thanks,
Rob-

Get [Outlook for iOS](#)

From: Alicia Forsythe <aforsythe@sitesproject.org>
Sent: Thursday, January 27, 2022 3:37:50 PM
To: Cooke, Robert@DWR <Robert.Cooke@water.ca.gov>
Subject: RE: Site site record .pdfs for Yocha Dehe

Hi Rob – I checked in with our Tribal liaison for the Project. She indicated that Anecita generally referenced that she was talking with Legal last year and had things cleared to provide the data to Yocha Dehe. But apparently Anecita didn't mention who in DWR Legal she had been working with. Sorry to not have any names to provide as you work to track this down.

Ali

Alicia Forsythe | Environmental Planning and Permitting Manager | Sites Project Authority | 916.880.0676 |
aforsythe@sitesproject.org | www.SitesProject.org

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From: Alicia Forsythe
Sent: Tuesday, January 25, 2022 2:47 PM
To: Cooke, Robert@DWR <Robert.Cooke@water.ca.gov>

Subject: FW: Site site record .pdfs for Yocha Dehe

Importance: High

Hi Rob – See below on this. I just left you a voicemail also. It would be great to touch base with you when you get a chance.

Yocha Dehe Tribe really would like this data ASAP to help inform their comments on the Revised Draft EIR/Supplemental Draft EIS. I believe we just need DWR to “turn over” the data to Yocha Dehe. We have completed all of the analysis and compilation that Yocha Dehe has asked for and provided that to DWR. So, I think we simply need DWR to say it is okay to release the data to Yocha Dehe and we can have ICF post it to a secure site for the Tribes access.

Ali

Alicia Forsythe | Environmental Planning and Permitting Manager | Sites Project Authority | 916.880.0676 |
aforsythe@sitesproject.org | www.SitesProject.org

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From: Janis Offermann <janis@horizonh2o.com>

Sent: Monday, January 24, 2022 9:28 AM

To: anecita.agustinez@water.ca.gov

Cc: Jacqueline.Wait <Jacqueline.Wait@water.ca.gov>; Laverne Bill <L.Bill@yochadehe-nsn.gov>; Alicia Forsythe <aforsythe@sitesproject.org>; Kevin Spesert <kspesert@sitesproject.org>; Laurie Warner Herson <laurie.warner.herson@phenixenv.com>

Subject: RE: Site site record .pdfs for Yocha Dehe

Importance: High

Good morning, Anecita

I just talked with Laverne Bill, and he said that he had chatted with you a week ago about receiving the site record data from DWR, noting that you said you were going to look into it. We have all been under the impression that DWR is in favor of supply the information to Yocha Dehe, so we would really like to move that along if you can please provide your approval. Also, we are now receiving comments on the revised EIR, and Yocha Dehe cannot fully comment without having the site record/GIS data.

Thanks in advance for your help.

Janis

Janis Offermann

Cultural Resources Practice Leader

Horizon Water and Environment

1801 Seventh Street, Suite 100

Sacramento, CA 95811

530.220.4918 (cell)

From: Janis Offermann <janis@horizonh2o.com>

Sent: Friday, January 14, 2022 2:22 PM

To: 'anecita.agustinez@water.ca.gov' <anecita.agustinez@water.ca.gov>

Cc: 'Jacqueline.Wait (Jacqueline.Wait@water.ca.gov)' <Jacqueline.Wait@water.ca.gov>

Subject: RE: Site site record .pdfs for Yocha Dehe

Hi, Anecita

I tried calling both your work and cell phones but wasn't able to leave a message.

Anyway, I was just wondering if you had time to consider our request to get the site record/GIS data to Yocha Dehe. We have our regular monthly meeting with Laverne next week and it would be nice to have some positive news to share with him..

Thanks and have a good weekend

Janis

From: Janis Offermann <janis@horizonh2o.com>

Sent: Monday, January 10, 2022 2:26 PM

To: 'anecita.agustinez@water.ca.gov' <anecita.agustinez@water.ca.gov>

Cc: Jacqueline.Wait (Jacqueline.Wait@water.ca.gov) <Jacqueline.Wait@water.ca.gov>

Subject: FW: Site site record .pdfs for Yocha Dehe

Hi, Anecita

I know you are swamped, but can we please resolve this and get the data to Yocha Dehe? Just say the word and we can arrange to make that happen.

Thanks

janis

From: Janis Offermann <janis@horizonh2o.com>

Sent: Friday, January 07, 2022 11:57 AM

To: 'Wait, Jacqueline@DWR' <Jacqueline.Wait@water.ca.gov>; 'Agustinez, Anecita S.@DWR' <Anecita.Agustinez@water.ca.gov>

Subject: RE: Site site record .pdfs for Yocha Dehe

Thanks for responding, Jackie.

The recipient of the information would be Andrew Cherna, Jr., Yocha Dehe's GIS specialist, and Laverne Bill, Yocha Dehe's Cultural Resources Coordinator. I think Laverne submitted a request to Anecita many months ago.

I will look forward to hearing from Anecita.

Thanks!

janis

From: Wait, Jacqueline@DWR <Jacqueline.Wait@water.ca.gov>

Sent: Friday, January 07, 2022 11:35 AM

To: Janis Offermann <janis@horizonh2o.com>; Agustinez, Anecita S.@DWR <Anecita.Agustinez@water.ca.gov>

Subject: RE: Site site record .pdfs for Yocha Dehe

Happy New Year, Janis!

My holidays were a nice break from work and even saw some family. Hope that yours went well.

I am relying on Anecita to respond with the authorization; I think DWR would want something from the Tribe identifying the recipient of the data. Having ICF transmit the data on behalf of DWR would probably be the easiest way.

Jackie

916.600.9973

From: Janis Offermann <janis@horizonh2o.com>
Sent: Friday, January 7, 2022 9:40 AM
To: Agustinez, Anecita S. @DWR <Anecita.Agustinez@water.ca.gov>; Wait, Jacqueline@DWR <Jacqueline.Wait@water.ca.gov>
Subject: FW: Site site record .pdfs for Yocha Dehe
Importance: High

Happy New Year, Anecita and Jackie
I hope you enjoyed the holidays.

I am really hoping that we can resolve the issue about providing Yocha Dehe with the site record/GIS data very soon. The revised EIR for Sites Reservoir is out for public review and we hope to have it finalized sometime this summer. However, our AB 52 consultations with Yocha Dehe have been stalled without these data and, as you know, we need to come to a resolution about treatment of tribal cultural resources before we can certify the EIR. We have done everything we can on our end to facilitate the transfer of information. Please help us move this process forward by providing Yocha Dehe the data, or authorizing us to do that.

Thank you!
Janis

Janis Offermann
Cultural Resources Practice Leader
Horizon Water and Environment
1801 Seventh Street, Suite 100
Sacramento, CA 95811
530.220.4918 (cell)

From: Janis Offermann <janis@horizonh2o.com>
Sent: Wednesday, December 29, 2021 3:18 PM
To: anecita.agustinez@water.ca.gov; Jacqueline.Wait@water.ca.gov
Subject: Site site record .pdfs for Yocha Dehe
Importance: High

Hi, Anecita and Jackie
ICF was able to establish a link that will allow you to download the site records linked with the GIS data for Sites Reservoir.

Please use this link:  <https://hdrinc-my.sharepoint.com/:f/p/driss/EnAb8WVaRnNCilehRSAXDO0B2wJR0kc9q463t7xpDJTdzA?e=5WcoKI>.

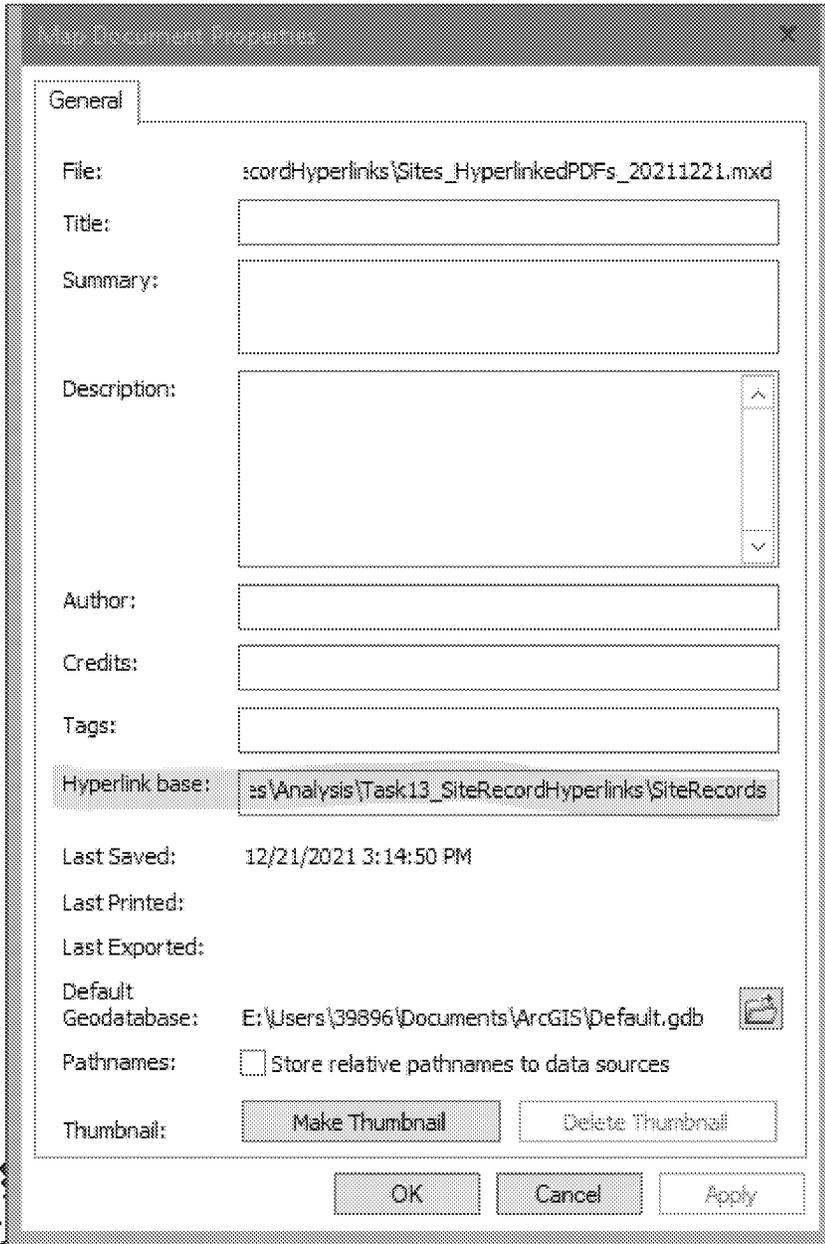
This link will allow only the two of you to open the file, as it is tied to your email addresses. Once opened, please follow these instructions below do download the data.

With your permission, we can also provide the link to Yocha Dehe, so that they can download the information directly; you will not have to be a go-between.

I have not yet tried this way to access the data, so please let me know if you have any problems.
Please also let me know if it is OK to provide Yocha Dehe with a direct link.

Thanks
janis

Once the **Sites_HyperlinkedPDFs_20211221** file is unzipped, anyone with ArcMap can open the .mxd file and all they have to do is re-enter in the new local path pointing to the SiteRecords folder in the Map Document Properties (see highlighted screenshot below). Then when using the hyperlink button just click on a site shape in ArcMap and the pdf record will open (assuming a .pdf reader is installed). Folks can call me if they have any problems.



From: Laurie Warner Herson [laurie.warner.herson@phenixenv.com]
Sent: 2/16/2022 1:30:01 PM
To: EIR-EIS-Comments [eir-eis-comments@sitesproject.org]
CC: Williams, Nicole [Nicole.Williams@icf.com]; Davis, Susan [susan.davis@icf.com]
Subject: FW: Letter from Maxwell Fire Protection District
Attachments: 01-20-22 Ltr from Maxwell Fire Protection District re Sites Project.pdf

Need to make sure this is included -2nd submittal from Maxwell Fire Protection District that may have been deleted thinking it was a copy of the first.

From: Board Clerk <boardclerk@sitesproject.org>
Sent: Thursday, January 20, 2022 9:37 AM
To: Alicia Forsythe <aforsythe@sitesproject.org>; EIR-EIS-Comments <eir-eis-comments@sitesproject.org>
Cc: Laurie Warner Herson <laurie.warner.herson@phenixenv.com>; Kevin Spesert <kspesert@sitesproject.org>
Subject: Letter from Maxwell Fire Protection District

Hi Everyone

FYI received today.

Maxwell Fire Protection District

P.O Box 651 Maxwell CA. 95955

530-438-2320

To whom it may concern

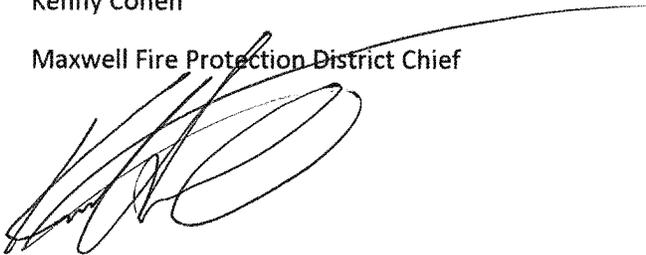
The Maxwell Fire Protection District serves the proposed site for the sites reservoir and will be the primary responding agency for all emergencies that accrue during construction of the facility and as well during the operation of the facility. Currenly the MFPD is only staffed from 7am to 5pm 7 days a week. Do to the increase of people and traffic that this project will create we will be seeing a significant increase in call volume.

To handle the increased number of calls the MFPD will need to be staffed 24/7 with at least one person at the station at all times. This would require that we hire two more full time fire fighter/emt starting as soon as construction begins.

During operation of the reservoir part time staff will be need as we are expecting our call volume to increase substantially based on the number of visitors stated in your report.

Kenny Cohen

Maxwell Fire Protection District Chief



SITES PROJECT AUTHORITY

JAN 20 2022

RECEIVED

From: JP Robinette [jrobinette@sitesproject.org]
Sent: 2/16/2022 2:04:19 PM
To: Tapia, Sharon@DWR [Sharon.Tapia@water.ca.gov]
CC: Henry.luu@hdrinc.com; Malvick, Erik@DWR [Erik.Malvick@water.ca.gov]
Subject: Re: Sites request for DSOD engagement

Excellent, thank you Sharon. We will reach out to Erik soon and get the ball rolling. I look forward to our working relationship as well.

Thanks,
JP

From: Tapia, Sharon@DWR <Sharon.Tapia@water.ca.gov>
Sent: Wednesday, February 16, 2022 12:05 PM
To: JP Robinette <jrobinette@sitesproject.org>
Cc: Henry.luu@hdrinc.com <Henry.luu@hdrinc.com>; Malvick, Erik@DWR <Erik.Malvick@water.ca.gov>
Subject: RE: Sites request for DSOD engagement

Hi JP,

Thanks for reaching out to start coordinating a meeting for Sites Reservoir. We had been anticipating that our involvement in the project was forthcoming this year.

Erik Malvick, who is cc'd on this email, is the Branch Manager of the Design Engineering Branch. He oversees all application work through the design and application approval processes. He is the best person to contact to start coordination efforts.

I look forward to the upcoming meeting and establishing an effective working relationship between DSOD and your team on this project.

Sharon

From: JP Robinette <jrobinette@sitesproject.org>
Sent: Wednesday, February 16, 2022 11:37 AM
To: Tapia, Sharon@DWR <Sharon.Tapia@water.ca.gov>
Cc: Henry.luu@hdrinc.com
Subject: Sites request for DSOD engagement

Hello Sharon,

I am reaching out to you to provide an update on the Sites Reservoir Project. Members of our project team last met with you and other DSOD staff in early 2019 to discuss the Sites team, the project description, site conditions, project features, schedule and the path forward. Progress has been made since then on the project feasibility evaluation, and we are developing our approach for establishing project design criteria, engineering analyses, an extensive geotechnical investigation program, and preliminary designs that will be completed over the next couple of years.

We would like to request a briefing with you and your team on the Sites Reservoir Project sometime within the next two months, if possible. In advance of that meeting we would like to hold a call with DSOD's point of contact for the Sites Reservoir Project to discuss DSOD engagement, communication protocols, schedule, and

the agenda for the briefing. We would also like to discuss DSOD fees for the project and the anticipated payment schedule.

Please let me know who is best to coordinate with at DSOD – we look forward to working with you and your team to advance this project.

Thank you,

JP Robinette, PE

Engineering and Construction Manager | Sites Project Authority
801-819-4306

From: Davis, Susan [susan.davis@icf.com]
Sent: 2/16/2022 3:46:53 PM
To: Laurie Warner Herson [laurie.warner.herson@phenixenv.com]; EIR-EIS-Comments [eir-eis-comments@sitesproject.org]
CC: Williams, Nicole [Nicole.Williams@icf.com]
Subject: RE: Letter from Maxwell Fire Protection District

Thank you Laurie,

We already had numbered this as letter SRP_RSD_0058; but it's good you sent it and made sure.

Susan



Susan Davis | Manager, Environmental Planner | +1.916.737.3000 main | Susan.Davis@icf.com | icf.com

ICF | 980 9th Street, Suite 1200, Sacramento, CA 95814 USA | +1.916.752.0929 mobile

From: Laurie Warner Herson <laurie.warner.herson@phenixenv.com>
Sent: Wednesday, February 16, 2022 1:30 PM
To: EIR-EIS-Comments <eir-eis-comments@sitesproject.org>
Cc: Williams, Nicole <Nicole.Williams@icf.com>; Davis, Susan <susan.davis@icf.com>
Subject: FW: Letter from Maxwell Fire Protection District

Need to make sure this is included -2nd submittal from Maxwell Fire Protection District that may have been deleted thinking it was a copy of the first.

From: Board Clerk <boardclerk@sitesproject.org>
Sent: Thursday, January 20, 2022 9:37 AM
To: Alicia Forsythe <aforsythe@sitesproject.org>; EIR-EIS-Comments <eir-eis-comments@sitesproject.org>
Cc: Laurie Warner Herson <laurie.warner.herson@phenixenv.com>; Kevin Spesert <kspesert@sitesproject.org>
Subject: Letter from Maxwell Fire Protection District

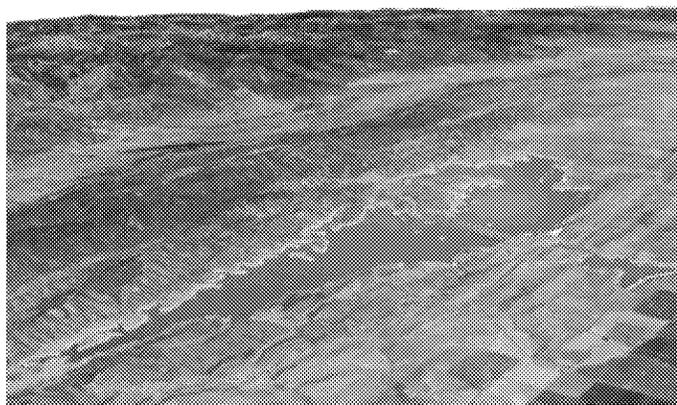
Hi Everyone

FYI received today.

California State Senator Shannon Grove

Commentary: It's Time To Use Our Budget Surplus On Water Projects

February 14, 2022 - By State Senator Shannon Grove, (R-Bakersfield) - Few people in this state would disagree that improving the management of California's water supply



should be a priority.

Sites Reservoir, shown in this artist rendering, is a major water-storage facility planned for north of Sacramento. It remains stalled, more than seven years after voters approved a state water bond.

Photo/California Department of Water Resources

Clean water is vital for our health, the environment and the economy. When people disagree on water issues, it is usually on how to improve water quality. I would argue that better management includes increasing above- and below-ground storage and modernizing conveyance infrastructure.

We must get beyond the extremes of some eco-warriors that a robust system of reservoirs and canals is a no-go. Such long-needed infrastructure is as much a part of the solution as is conservation, technological innovation, and better management of the flows from winter rains and spring snowmelt.

Fortunately, there was significant rain and snow in December. Unfortunately, as that snow melts this spring, we won't have the ability to capture enough runoff to help us get through the longer periods of drought that our state experiences.

We must embrace solutions that take into account all the needs of the state: providing drought resiliency, mitigating wildfires, protecting the environment, maintaining a safe and healthy food supply, and ensuring that communities have the water they need for families and businesses to thrive.

I cosponsored legislation—Senate Bill 559—last year that would have provided up to \$785 million to repair key parts of the state's water infrastructure, focusing particularly on repairs to the California Aqueduct and the Friant-Kern, Delta-Mendota and San Luis canals.

To the detriment of drought-stricken communities and farmers up and down the valley, the bill came under attack from environmentalists, who argued it was too favorable to agricultural interests. Such narrow-minded views do little to help anyone.

Ultimately, a series of amendments forced by environmentalists gutted the bill. However, our relentless advocacy still brought in \$100 million for vital canal repairs.

Another example of the obstructionism blocking sorely needed water storage and conveyance is the Sites Reservoir, planned for the west Sacramento Valley between Glenn and Colusa counties. In 2014, voters approved funding for the reservoir under the \$7.1 billion Proposition 1 water bond.

Even though Proposition 1 was approved by 67% of California voters and was backed by some environmental groups, not a single cent has been spent on actual construction of water-storage facilities.

The California Water Commission recently voted to move forward on Sites, deeming it feasible for construction and eligible to receive bond money. The vote could free up \$837 million in funding from the state's Water Storage Investment Program.

Proposition 1 projects must include additional public benefits, and the commission found that the Sites project would "include water deliveries to the Sacramento National Wildlife Refuge Complex and the Yolo Bypass to benefit delta smelt, storage to capture flood flows and increased opportunities for recreation."

Despite all that, some environmental groups spoke in opposition to Sites, arguing it would neither benefit fisheries nor the environment. So much for working together for the common good.

We need to fully fund projects that will repair our aged canals and dams and provide more water storage and conveyance. We can do so by prioritizing and funding water storage and infrastructure projects in the state budget and by cutting regulatory red tape that drags out construction and raises costs.

The fact is we have a massive budget surplus this year. We should spend it on water infrastructure, period.

In early January, Senate Republicans sent a letter to the governor, Senate president pro tem and the Assembly speaker suggesting our priorities for spending the budget surplus, and preparing California for long-term drought was top of the list.

We urged the state to use surplus funds to build the Sites Reservoir and provide water conveyance in critical areas of the state. This would provide water storage and the ability to move that water around more efficiently to help cities, farms and the environment.

Despite a few wet weeks, California is in a near constant state of drought, given our minimal water storage and the potential for reduced snowpack in the future. We must do better in preparing for this more uncertain future by taking advantage of our state's surplus and building the water storage and infrastructure we need.

(State Sen. Shannon Grove, R-Bakersfield, represents California's 16th Senate District, including Kern, Tulare and San Bernardino counties. She may be contacted through her Senate website at [https://grove.cssrc.us/.](https://grove.cssrc.us/))

ABOUT CALIFORNIA FARM BUREAU FEDERATION

The California Farm Bureau Federation works to protect family farms and ranches on behalf of nearly 32,000 members statewide and as part of a nationwide network of more than 5.5 million Farm Bureau members.

Source: Reprinted with permission CFBF



February 11, 2022 | Colusa Sun Herald

SEN. NIELSEN BILL SEEKS TO HELP SITES RESERVOIR PROJECT

State Sen. Jim Nielsen, R-Red Bluff, and Sen. Andreas Borgeas, R-Fresno, introduced a bill that would have a significant impact on the Sites Reservoir project in Colusa County. The bill, Senate Bill 890, would allow 100,000 acre-feet of water to be stored during wet years instead of being flushed out to sea, a release that would benefit local farmers, Republicans said.

RELATED LINKS

California Water Commission Advances Two Environmentally Destructive Water Projects

By Sierra Club California

On December 15th, the California Water Commission voted to advance two water storage projects that will have devastating consequences for California's environment. After hours of public comment, many of which opposed advancing the two projects, the Commission decided both projects — Sites Reservoir and Pacheco Reservoir — maintained their eligibility to receive public funding under Proposition 1.

Proposition 1, passed by voters in 2014, created an innovative approach of investing bond funds based on the public benefits achieved by individual projects. In 2018, the Commission determined that eight projects were eligible for funds, including four surface storage projects and four groundwater projects.

Sites Reservoir is a proposal to construct a new water storage facility in Northern California. The project would divert water from the already overdrafted Sacramento River. It will also flood a 13,200-acre area which contains valuable wetlands, oak woodland habitat, and 24 endangered species. The Commission unanimously voted that Sites would remain eligible for \$800 million of public funding.

The Pacheco Reservoir Expansion project is a proposal to enlarge the storage capacity of the existing reservoir, located in Santa Clara County. Pacheco Reservoir Expansion would significantly enlarge the footprint of the existing reservoir, flooding an additional 1,500 acres that include areas of the ecologically important Henry Coe State Park. With another unanimous vote, the Commission voted to allow Pacheco to remain eligible for up to \$500 million of Prop 1 funding.

The Commission advanced both projects over the objections of dozens of members of the public representing environmental justice, conservation, and fishing groups, as well as California Tribal representatives. The Commission was presented with a petition created by Save California Salmon — containing nearly 50,000 signatures — urging them to reject the projects.

In response, Brandon Dawson, director of Sierra Club California, issued the following statement:

“The Commission’s actions today will harm California communities, ecosystems, lands, and wildlife. These two destructive projects provide marginal public benefits but massive destruction, such as depleting salmon populations and flooding precious California lands. The climate crisis and its impacts on California water supplies demand that we move away from large storage projects like these, and start investing in local and sustainable water conservation, efficiency, and recycling programs and technology.

Even more egregious than the Commission’s vote was its rejection of the public comments opposing the projects, and its treatment of tribal representatives who will be adversely affected by the projects. Tribal members continuously voiced

concerns about the lack of tribal consultation during the meeting’s public comment portion, and were resoundingly ignored. Every member of the public deserves the time and opportunity to voice their opinion without fear of being shut down.”

This press release was published by [Sierra Club California \(SCC\)](#) on December 16th, 2021. In January, SCC submitted comments on the Sites Reservoir revised draft Environmental Impact Report and will continue to engage in this effort.

Thumbnail photo: Upper Sacramento River by [Mike Henderson](#) via Flickr Creative Commons ([CC BY-NC-ND 2.0](#))

DAILY DIGEST, 2/10: Winter heatwave forecasted for CA; SoCal offers millions to buy Sac Valley water; Lawmakers call for implementation of overdue water storage projects; How mapping beaver wetlands can chart a path to a better water future; and more ...

Maven

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IN THIS POST ...

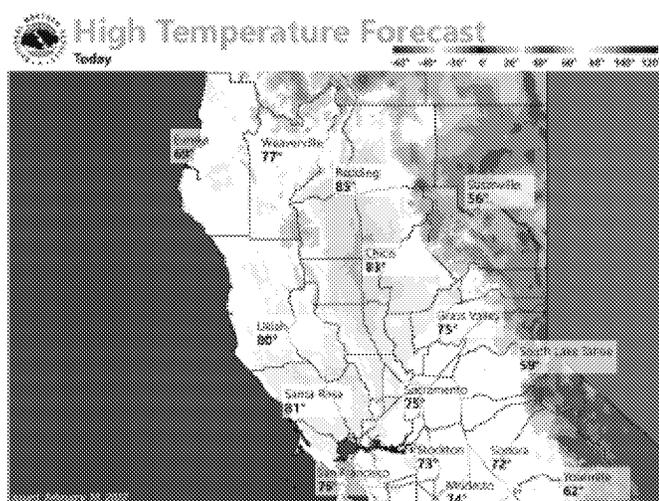
[Click for table of contents](#)

On the calendar today ...

- **PUBLIC HEARING: Proposed Water Loss Performance Standards Regulation beginning at 2pm.** The State Water Board will conduct a public hearing regarding the subject proposed regulation at the time and place noted below. The public hearing will provide a detailed overview of the proposed regulation, overall framework, timeline, and proposed requirements. At the hearing, any person may present comments orally or in writing relevant to the proposed action described in this notice. [Click here for the meeting notice.](#)

In California water news today ...

Record temperatures forecast as winter heatwave heads for California



“An unusual winter heatwave is expected across California this week with record temperatures in the forecast for multiple cities from the San Francisco Bay Area to Los Angeles. In southern California, where temperatures are predicted to be 15 to 20 degrees above normal from Wednesday morning through Sunday, the National Weather Service upgraded a heat watch to a heat advisory. The heat watch and advisory were the first to be issued by the Los Angeles weather office in the month of February, according to records dating to 2006. Most heat watches and warnings in

the area are issued from May through October. ...” Read more from The Guardian here: [Record temperatures forecast as winter heatwave heads for California](#)

As drought continues, Southern California offers millions to buy Sacramento Valley water

“The drought drags on, and the thirsty residents of Southern California are preparing again to spend heavily to buy water from the farm fields of the Sacramento Valley. The board of the Metropolitan Water District of Southern California directed its staff Tuesday to start negotiating the purchases of as much as 100,000 acre-feet of water from the Valley — deals that would be worth millions of dollars. Metropolitan has bought water from Northern California in eight of the past 16 years. The purchases can be a sensitive point in farm country, where water sales will result in fewer acres of crop grown and damage done to the local economy. ...” Read more from the Sacramento Bee here: [As drought continues, Southern California offers millions to buy Sacramento Valley water](#)

Amid worsening drought, lawmakers call for implementation of overdue water storage projects

“As California faces ongoing severe drought conditions, lawmakers are urging immediate action to implement billions in funding already approved by voters to build new water storage and maintain existing infrastructure. The projects have been beset by bureaucratic obstructionism for decades, Sen. Jim Nielsen, R – Red Bluff, vice chair of the Senate Budget Committee, told the Northern California Record. “And state government – legislative and executive – has been unwilling to do anything decisive about water supplies,” Nielsen said. “Now we’re in another drought and we have not increased our capacity for more storage; we have not maintained or improved existing storage.” ...” Read more from the Northern California Record here: [Amid worsening drought, lawmakers call for implementation of overdue water storage projects](#)

Commentary: Calif. voters backed \$7.5bil bond for dams. Here’s where things stand 7 years later

Teresa Alvarado and Matthew Swanson, Chair and Vice Chair of the California Water Commission, write, *“In November 2014, California voters approved Proposition 1: The Water Quality, Supply, and Infrastructure Improvement Act. The \$7.5 billion bond dedicated \$2.7 billion for the public benefits of new water storage projects. Some ask, “Why have no new reservoirs been built in the seven years since?” Rest assured, there are projects in the works. All recently passed a key milestone and are moving forward. Any large-scale water storage project is complex and requires a high degree of planning, engineering, coordination — and significant financing. The California Water Commission has actively overseen the proposed projects over the past six years to help ensure they meet statutory requirements, progress at the rate dictated by the bond legislation, and meet the public benefits promised to voters. ...”* Continue reading at the San Joaquin Valley Sun here: [Calif. voters backed \\$7.5bil bond for dams. Here’s where things stand 7 years later](#)

State Senator Nielsen bill seeks to help Sites Reservoir project

“State Sen. Jim Nielsen, R-Red Bluff, and Sen. Andreas Borgeas, R-Fresno, introduced a bill last week that would have a significant impact on the Sites Reservoir project in Colusa County. The bill, Senate Bill 890, is meant to ensure millions of acre-feet of water is stored during wet years instead of being flushed out to sea, a release from California Senate Republicans said. Sites Reservoir is an off-stream facility proposed north of the Sacramento-San Joaquin Delta that captures storm water flows from the Sacramento River for release primarily in dry and critical years, the Appeal previously reported. ...” Read more from the Colusa Sun Herald here: [State Senator Nielsen bill seeks to help Sites Reservoir project](#)

Fight over Kings County pipeline just the latest clash between water titans

“Trucks and heavy equipment emblazoned with the distinctive diamond “B” logo parked on the banks of the Tulare Lake Canal late last month weren’t sending a subtle message. The giant JG Boswell Company has little love for Sandridge Partners. Nor for the man who runs it, John Vidovich, nor for his current pipeline project that will move water from various places in Kings County to various other undisclosed locations. Trenching for the pipeline was slated to cut under the Tulare Lake Canal in late January but the canal company, which is controlled by Boswell, made several demands. It wanted an operating agreement and hefty insurance coverage. Sandridge sent a “hold harmless” letter and refused the rest. ...” Continue reading at SJV Water here: [Fight over Kings County pipeline just the latest clash between water titans](#)

VIDEO: Water is a hot topic at the World Ag Expo in Tulare County

“Tractors, irrigation technology, harvesting machines and more tractors lined the dirt roads of the [World Ag Expo](#) in Tulare this week. The world’s largest agriculture exposition took place from February 8-10th and included more than 1,200 exhibitors. Spread across a 2.6-million-square-foot lot, the expo not only hosted tents of exhibitors showing off their products and businesses, but seminars, demonstrations and agriculture tours. And while the expo hosted a range of industries from dairy to nut growers, water was also largely represented. ...” Read more from SJV Water here: [VIDEO: Water is a hot topic at the World Ag Expo in Tulare County](#)

SEE ALSO: [VIDEO: Tractors, vendors, demos and...well...lots of tractors mark return of the World Ag Expo](#), from SJV Water

Old-school technique saves water on California farm

“Farmer David Little has two main reasons he dry-farms: it allows fewer weeds to take hold and it uses less water. “I began dry-farming when I bought the property in 1995,” he said. “Out of my 50 acres, about 30-40 acres are dry-farmed, and planted mostly to potatoes, winter squash, sunchokes (also known as Jerusalem artichokes) and tomatoes. All crops are organic.” For the few crops that are irrigated, he uses plastic tape that has holes every 8 inches like a soaker hose and only dispenses water around the plants so there is no excess. ...” Read more from the Capital Press here: [Old-school technique saves water on California farm](#)

The fight over the source of Arrowhead bottled water

“In 2015, a [Desert Sun](#) investigation revealed the Arrowhead Water Company, owned by Nestlé, was illegally bottling and profiting from a Southern California spring in the San Bernardino mountains. The water was free to the company for years, while California went through drought after drought. Today, a new company owns Arrowhead, and the water is still free. In an interview for [LA Times Today](#), water writer Ian James joined host Lisa McRee to share where the controversy stands. ...” Read more from Spectrum 1 here: [The fight over the source of Arrowhead bottled water](#)

Update: Turlock Irrigation District accepts grant for solar panels on canals. When, where will project happen?

“The Turlock Irrigation District will demonstrate solar panels atop canals with a \$20 million state grant accepted Tuesday. The district board voted 5-0 to take part in a research project that has drawn widespread attention from advocates of renewable power. The panels will be installed over two small canal stretches that already have TID transmission lines. Researchers will assess not just the power output but also whether the shading reduces water lost to evaporation. ...” Read more from the Modesto Bee here: [Update: TID accepts grant for solar panels on canals. When, where will project happen?](#)

33 days without rain — what does this mean for California’s drought?

“Sun, shorts and spring-like weather are not the temperatures you would expect in Northern California during February. With temperatures in the mid-70s this week, people at Central

Park in Davis were soaking it all in. “Wasn’t expecting it but able to go out with the kids and spend more time at the park,” explained Conner Magee. For some, the dry start to the year is bringing some concerns with already 33 days without rain. ...” Read more from Good Day Sacramento here: [33 days without rain — what does this mean for California’s drought?](#)

What is the future of snow? Grappling with climate change and warmer winters

Journalist Daniel Rothberg writes, *“Between the Winter Olympics and our dry January, I’ve been thinking a lot about snow over the last few weeks. Last month, Reno saw no measurable precipitation for the first time since such records were kept. The dry streak has continued past January. And although there have been longer periods of dryness in the region, it’s enough to be noticeable, matched with warm temperatures that make it feel more like spring than winter. Maybe it’s the weather whiplash that makes it feel especially noticeable. The water year started out strong. Reno saw record rainfall in October, followed by large storms in December around Lake Tahoe and the West, boosting snowpack to above 100 percent of normal for that time of the year. Since then, with no new snow in many places, the snowpack has fallen to just below — or very close — to the average in the Sierra, much of Nevada and across much of the West. ...”* Continue reading at the Nevada Independent here: [What is the future of snow? Grappling with climate change and warmer winters](#)

Technological innovations may be a solution to California’s drought crisis

“Many Californians have been taking shorter showers, collecting rainwater and letting their lawns go brown in order to save water. Despite numerous conservation efforts, California has been facing a severe drought crisis since the year 2000. According to the California Department of Food and Agriculture, all 58 California counties are under USDA disaster designations and continuing water shortages will only worsen from the effects of climate change. However, new technologies such as desalination, satellites, filtration of stormwater, anti-leak products, cloud seeding drones and micro drip irrigation could hold the key to improving the drought catastrophe in the state. UCI urban planning and public policy professor David Feldman, who is also the Director of Water UCI, explained the importance of preserving water in an interview with Aaron Orlowski. ...” Read more from New University here: [Technological innovations may be a solution to California’s drought crisis](#)

State webinars will explain new program to fund household water debt

“The California Department of Community Services (CSD) is hosting two informational webinars for water purveyors to provide an overview of the California Low-Income Household Water Assistance Program (LIHWAP) and details about how agencies can receive funding to help their low-income customers pay down water bill debt accrued during any time frame. ...” Read more from ACWA’s Water News here: [State webinars will explain new program to fund household water debt](#)

California bill aims to outlaw controversial seabed mining in state waters

“Though still in early phases, seabed mining has the potential to become a global industry that would extract nodules from the sea floor that contain metals such as manganese, copper, nickel, zinc and cobalt used in cell phones, semiconductor devices, electric cars and clean-energy production. But there are widespread environmental concerns about the process. Legislation introduced Tuesday aims to protect California waters from the controversial industry. While proponents say it holds promise for the expanding green energy sector, critics say it would kill marine life, damage habitats and pollute surrounding areas, and ultimately could have a negative impact on fishing and tourism, which together contribute more than \$20 billion annually to the state’s economy. ...” Read more from the San Francisco Chronicle here: [California bill aims to outlaw controversial seabed mining in state waters](#)

Researchers identify ‘double-hazard’ zones for wildfire in the West

“Some plants and patches of Earth withstand heat and dry spells better than others. A new Stanford University study shows those different coping mechanisms are closely linked to wildfire burn areas, posing increasing risks in an era of climate change. The results, published Feb. 7 in Nature Ecology and Evolution, show swaths of forest and shrublands in most Western states likely face greater fire risks than previously predicted because of the way local ecosystems use water. Under the same parched conditions, more acreage tends to burn in these zones because of differences in at least a dozen plant and soil traits. ...” Read more from PhysOrg here: [Researchers identify ‘double-hazard’ zones for wildfire in the West](#)

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In commentary today ...

Calif. voters backed \$7.5bil bond for dams. Here’s where things stand 7 years later

Teresa Alvarado and Matthew Swanson, Chair and Vice Chair of the California Water Commission, write, *“In November 2014, California voters approved Proposition 1: The Water Quality, Supply, and Infrastructure Improvement Act. The \$7.5 billion bond dedicated \$2.7 billion for the public benefits of new water storage projects. Some ask, “Why have no new reservoirs been built in the seven years since?” Rest assured, there are projects in the works. All recently passed a key milestone and are moving forward. Any large-scale water storage project is complex and requires a high degree of planning, engineering, coordination — and significant financing. The California Water Commission has actively overseen the proposed projects over the past six years to help ensure they meet statutory requirements, progress at the rate dictated by the bond legislation, and meet the public benefits promised to voters. ...”* Continue reading at the San Joaquin Valley Sun here: [Calif. voters backed \\$7.5bil bond for dams. Here’s where things stand 7 years later](#)

Forget new dams. A healthy aquifer is better for family farms and the environment

Doug Maner, a retired Modesto criminal lawyer, writes, *“Most of the people who fight over water fall into two categories: Water users and water protectors. The opposing sides really have more in common that they might believe. Agricultural water users enjoy and appreciate our natural world, and revel in its beauty. Environmentalists eat the beef, poultry, salad and nuts the water users grow, and have no problems with family farms and small businesses. A third voice in California’s water wars is the richest and most powerful. Big agribusiness has a totally different goal than your local farmer, rancher, or environmentalist. Their motive is profit. ...”* Read more from the Modesto Bee here: [Forget new dams. A healthy aquifer is better for family farms and the environment](#)

Column: Want to conserve water and make clean energy? Build more solar farms in San Joaquin Valley

Columnist George Skelton writes, *“One surefire formula for making clean energy is lots of sun and less hay. Or fewer tomatoes and — heaven forbid — a reduction in almonds. Plow over some San Joaquin Valley croplands and plant solar panels. Turn alfalfa fields and nut orchards into solar farms. That would have a double benefit. Besides producing carbon-free electricity, it would save lots of scarce irrigation water. And it would keep the valley’s abused aquifers from dropping further, drying up wells and sinking land while cracking canals and bridges. ...”* Read more from the LA Times here: [Column: Want to conserve water and make clean energy? Build more solar farms in San Joaquin Valley](#)

Protect the Eastern Sierra from industrial gold mining

Kris Hohag, a citizen of the Bishop Paiute Tribe and senior organizing representative at the Sierra Club, writes, *“You probably haven’t visited Conglomerate Mesa in the Eastern Sierra. I hadn’t until about two years ago. This place — notoriously difficult to access — holds an important history to my people, the Bishop Paiute Tribe, along with neighboring tribes. Like most people*

who are fortunate enough to visit this beautiful swath of land, I was left profoundly touched. It is rugged, remote and dramatically beautiful. It sits between Mt. Whitney – the highest point in the continental U.S. – and Death Valley – the lowest, and represents the breadth of beauty of this country. But the Conglomerate Mesa is at risk. While my community and I see this as a land inextricably tied to our past and our legacy, exploratory mining companies see it as a place to be exploited for financial gains. ...” Read more from Cal Matters here: [Protect the Eastern Sierra from industrial gold mining](#)

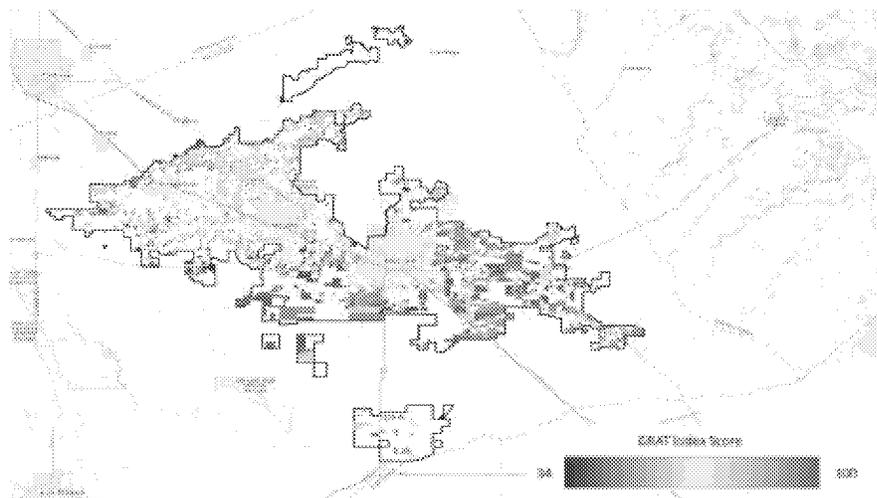
California must act to save the Southern steelhead from extinction

Russell Marlow, California Trout’s South Coast senior program manager, and Sandra Jacobson, director of the South Coast Region of California Trout, write, “*In a black and white photo dated 1912, two men suspend a pole from which more than a dozen footlong Southern California steelhead hang. The image echoes the oral tradition of the Chumash Tribes, which speaks of steelhead as an abundant food source, and provides additional proof that these iconic fish were once plentiful in Southern California’s coastal rivers and streams. But due to the ongoing destruction of steelhead habitat, compounded by predation by and competition from non-native species and disease, Southern steelhead face likely extinction within the next 25 years. ...”* Read more from the San Diego Union-Tribune here: [California must act to save the Southern steelhead from extinction](#)

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Today’s featured article ...

SUSTAINABLE CONSERVATION: Protecting Water Quality While Recharging Aquifers



Over 600,000 Californians rely on [nitrate-contaminated](#) public supply wells for their household water needs. However, those numbers are even greater as they don’t include the many others who struggle with contaminated groundwater from domestic wells. Balancing long-term groundwater sustainability and water quality will help California weather future droughts, ensure safe drinking water, and support our thriving agricultural community that feeds the nation.

One tool for groundwater sustainability is [groundwater recharge](#), where water is intentionally spread on the ground and allowed to infiltrate into the underlying [aquifer](#). However, there is much concern that groundwater recharge can increase water quality issues, especially when the recharge water is spread upon agricultural lands.

In November of 2021, Sustainable Conservation held a webinar featuring a panel of experts who discussed how California can work to replenish our [aquifers](#) while protecting water quality for the health of our communities.

[Click here to read this post.](#)

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In regional water news and commentary today ...

NORTH COAST

Crossroads at Potter Valley

“The future of the Potter Valley Project that diverts water from the Eel River to the Russian River is more uncertain than ever, with a regional coalition declaring it will not file for the license application and PG&E unexpectedly taking steps to continue operating the project under an annual license until the next development. PG&E, which owns and operates the hydro-electricity project that includes two dams, announced in 2019 that it would not renew its license and was no longer trying to sell it. ...” Continue reading at the North Coast Journal here: [Crossroads at Potter Valley](#)

Most coastal rivers remain open for now

“Another week of beautiful rain-free weather on the North Coast, which is exactly what we don’t need. Two of our coastal rivers have succumbed to low flows and are now closed to angling. With the forecast calling for more dry weather, a few other rivers will likely close soon. To date, the Mattole and Redwood Creek have both fallen below the low-flow threshold. The South Fork Eel and the Van Duzen are getting closer by the day. And there isn’t much good news on the horizon. Rain is nowhere to be found in the immediate forecast. ...” Read more from the North Coast Journal here: [Most coastal rivers remain open for now](#)

MOUNTAIN COUNTIES

Rise Gold reports water supply assessment approval for Idaho-Maryland mine project

“Rise Gold Corp. announces that the Nevada Irrigation District’s (NID) board of directors has approved the Water Supply Assessment (WSA) for the Idaho-Maryland Mine Project. In a meeting on February 9th the board of directors of NID voted to approve the WSA. The WSA’s purpose is to perform an evaluation as established by California legislation, SB 610, codified at Water Code Section 10910. SB 610 requires detailed information regarding water availability to be provided to county decision-makers prior to approval of land use projects above certain acreage thresholds, including the Idaho-Maryland Mine Project. Today’s approval demonstrated the sufficiency of NID water supplies to satisfy the proposed project’s water demands, while still meeting the water purveyor’s existing and planned future uses under all hydrologic conditions (Normal Years, Single Dry Years and Multiple Dry Years). ...” Continue reading at Junior Mining Network here: [Rise Gold reports water supply assessment approval for Idaho-Maryland mine project](#)

SACRAMENTO VALLEY

Editorial: LAFCo gets it right on Tuscan water district

The Chico Enterprise-Record editorial board writes, *“There are few things more reassuring these days than being reminded that common sense really does prevail every once in a while. And with that, we give thanks to the Butte Local Agency Formation Commission. Sealing the deal on the Tuscan Water District controversy that has engulfed much of our area for months, LAFCo put in place a couple of provisions last week that should — should — put the minds of even the most anti-Tuscan critics at ease. ...”* Read more from the Chico Enterprise-Record here: [LAFCo gets it right on Tuscan water district](#)

Taking actions in 2022 to address drinking water issues in the Sacramento Valley

“With the number of dry days in 2022 piling up like the historic December 2021 snowpack, NCWA continues to convene the North State Drinking Water Solutions Network (Network), with a [forum this week](#) to identify actions and funding needed to help communities experiencing dry wells and safe drinking water issues. More than 60 representatives from local government, water systems, nonprofit technical providers, community representatives, landowners, and others interested in advancing drinking water solutions joined the two-hour webinar to hear from the State Water Resources Control Board and the Department of Water Resources on state funding and technical assistance opportunities for drinking water, including [Safe & Affordable Funding for Equity and Resilience \(SAFER\)](#) and [Groundwater Management and Drinking Water Well Principles and Strategies](#). ...” Read more from the Northern California Water Association here: [Taking actions in 2022 to address drinking water issues in the Sacramento Valley](#)

SMUD’s Museum of Science and Curiosity

“A miniature metal skyscraper with rainbow arches captivates a dozen child architects in the center of the room. Together, their little hands use hundreds of magnetic tiles to create the ultimate design of their imaginations inside the new SMUD Museum of Science and Curiosity. Known as MOSAC, the 50,000-square-foot, STEAM-based educational institution on the Sacramento River opened late last year with more than 22,000 square feet of exhibit experiences and a 46-foot dome theater in a state-of-the-art planetarium. ...” Read more from Sacramento Magazine here: [SMUD’s Museum of Science and Curiosity](#)

NAPA/SONOMA

Dog doo dilemma

“There is nothing quite like taking a pleasant stroll and then you look down to see... yuck! A pile of dog doo, or commonly, many piles of dog doo. Dog waste is a common sight on creeks and trails throughout the Russian River Watershed. Not only is it an eyesore, but it is also a health concern for people and the environment. To protect our water quality and quality of life on trails, please pick up after your dog and dispose the waste in the nearest trash bin on your next walk. Many dog owners assume dog waste is harmless because it will naturally break down into the soil. However, there are thousands of dogs living within the [watershed](#), which means a lot of dog doo! The Russian River Watershed can’t handle this amount of waste through natural processes. ...” Read more from the Sonoma Gazette here: [Dog doo dilemma](#)

BAY AREA

Bay Area weather: Heat wave to persist through the weekend, with potential record-breaking temperatures into the 80s

“A heat wave that began earlier this week in the Bay Area will continue through the weekend, potentially shattering temperature records in several major cities, according to the National Weather Service. Temperatures will continue to ascend over the next several days, ranging from 10 to 20 degrees above normal for this time of year. Through Sunday, temperatures could reach the mid-to-upper 70s in downtown San Francisco while the East Bay and the South Bay could see temperatures in the mid-70s up to about 80 degrees. ...” Read more from the San Jose Mercury News here: [Bay Area weather: Heat wave to persist through the weekend, with potential record-breaking temperatures into the 80s](#)

SEE ALSO: [This S.F. Bay Area city just broke a record-high temperature. Here’s how long the warm weather will last](#), from the San Francisco Chronicle

North Marin to drill well in March, at double the cost

“Contractors will begin drilling a new well on the Gallagher ranch outside Point Reyes Station in March, part of North Marin Water District’s plan to shift away from longstanding wells

increasingly impacted by saltwater. The new well, delayed for months by an environmental appeal process, will cost more than double the district's estimate, at \$192,000. North Marin's chief engineer, Tony Williams, wrote in a staff report that high demand, fluctuating materials costs and the remoteness of the site accounted for a higher-than-expected drilling estimate from the contractor, Maggiora Bros. Drilling. ... Continue reading from the Point Reyes Light here: [North Marin to drill well in March, at double the cost](#)

CENTRAL COAST

With billions in state surplus, Monterey County looks to Sacramento for water funding help

"California is poised to have a record budget this year and tucked into Gov. Gavin Newsom's \$286.4 billion spending proposal for fiscal year 2022-23 is about \$21 billion in extra cash that will be up for grabs. Monterey County is jumping into the scrum, hoping the state can set hundreds of millions of dollars aside to help finance three critical water projects for the Salinas Valley and South County. Brent Buche, general manager of the county's Water Resources Agency, calls the surplus situation a "once-in-a-lifetime" opportunity to get major funds from the state. The county is not holding back. Among some facility asks, they are going after \$312 million to finance three key water projects. ..." Read more from Monterey Weekly here: [With billions in state surplus, Monterey County looks to Sacramento for water funding help](#)

Carpinteria: "A really, horribly bad idea": Planners slam dune & shoreline management plan

"The Carpinteria Planning Commission expressed a number of concerns with the dune & shoreline management plan on its agenda on Monday, with Commissioner John Callender calling the plan "a really, horribly bad idea." All four members of the planning commission slammed the plan – which aims to help with sea level rise in Carpinteria – and motioned to advise the Carpinteria City Council that the project needs more work. The plan seeks to protect the beach neighborhood, downtown areas and other public utilities that are threatened by sea level rise. ..." Read more from Coastal View here: [Carpinteria: "A really, horribly bad idea": Planners slam dune & shoreline management plan](#)

SAN JOAQUIN VALLEY

Commentary: Manteca more than a tad hazy when it comes to purple water

Dennis Wyatt, editor of the Manteca Buletin, writes, *"Bell peppers, or more precisely the yellow and red ones, were supposed to put Manteca on the road to better water self-sufficiency. Like a number of Manteca's forward thinking initiatives over the years it ran out of gas with one big difference – the city keeps spending money with nothing to show for it. Well, OK, that may not be that big of a difference given how the city spends money on studies and consultants like a sailor on a three-day shore leave in between year-long stints at sea and then wakes up with nothing to show for it except a massive hangover that taxpayers pay the price for. The difference with this initiative is the city – then the State of California – has been requiring all new development projects to bury purple pipe. The purpose was to eventually have treated recycled wastewater flowing through them to irrigate landscaping. ..."* Read more from the Manteca Bulletin here: [Manteca more than a tad hazy when it comes to purple water](#)

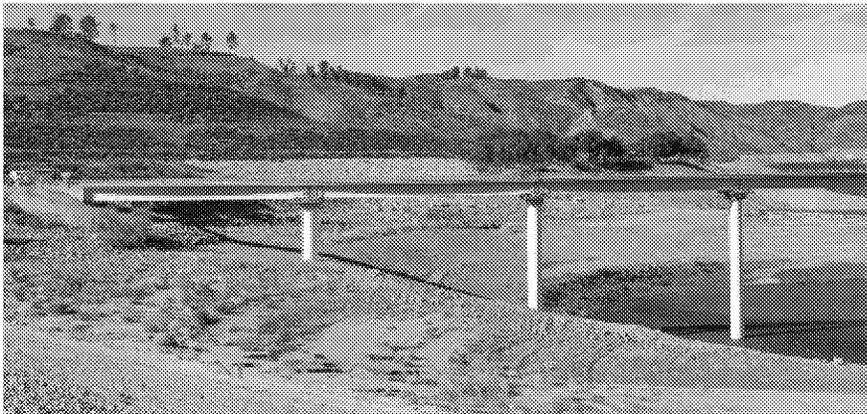
Tulare County Board of Supervisors opposes adding Yellow Legged Frog to endangered species list

"If it's water or the Yellow Legged Frog, Tulare County is going with water. At the Feb. 8 Tulare County Board of Supervisors meeting, the board approved a letter to U.S. Fish and Wildlife Service signed by all five sitting board members to oppose the designation of the Southern Sierra distinct population segment of Foothill Yellow Legged Frog as an endangered species under the Endangered Species Act. ..." Read more from the Foothills Sun-Gazette here: [Tulare](#)

[County Board of Supervisors opposes adding Yellow Legged Frog to endangered species list](#)

SOUTHERN CALIFORNIA

DWR completes Castaic Dam Tower Bridge retrofit



“The California

Department of Water Resources has completed the seismic retrofits on Castaic Dam’s tower access bridge in Los Angeles County. The completion marks a major milestone to ensure the resiliency of State Water Project facilities. “The significant progress made on the seismic retrofit to the bridge at Castaic Dam is the result of proactive and effective teamwork between DWR and several agencies,” said David Sarkisian, DWR manager of Dam Safety Services. “The collaboration and communication associated with the project led to the successful resolution of numerous challenges throughout the planning, design, and construction phases, particularly in terms of minimizing the impacts of the reservoir drawdown needed to retrofit the tallest piers.” ... ” Read more from DWR News here: [DWR completes Castaic Dam Tower Bridge retrofit](#)

AVEK wants community input

“The Antelope Valley-East Kern Water Agency will hold a virtual public hearing, tonight, to gather input on the ongoing redistricting process. Like government agencies at every level, AVEK is required to take on redistricting every 10 years, to ensure its divisions are roughly equal in terms of representation. Using data collected in the 2020 Census, the agency will consider not only population numbers, but also geographic and community continuity. ... ” Read more from the Antelope Valley Press here: [AVEK wants community input](#)

The Good Water: A new black-owned water company changing the game in L.A.

“There is a brand-new addition to Los Angeles’ ever-growing list of Black-owned businesses to support. The Good Water Company is a Black-owned water company, dispensary and ‘minority marketplace’ freshly opened in California. Having opened its doors to the Gardena, California area early February, the Black-owned water company is highly anticipated in the neighborhood. The grand-opening earlier this month saw many community members and locals come together in mass to celebrate this opening at the start of Black History Month. Marcel Nash told Travel Noire about the genesis of The Good Water Company: “After having traveled to over 29 countries and also being a native of the underserved community of South L.A., I’ve been extremely mindful of the disparities in regard to clean and accessible water. A strong hope of mine is to continue to perpetuate this blueprint, not only throughout South L.A., but across the world.” ... ” Read more from Travel Noire here: [The Good Water: A new black-owned water company changing the game in L.A.](#)

Fountain Valley High School targets California’s growing drought issue

“According to the Public Policy Institute of California, about one in every four Californians believe that the state’s water supply and drought is the #1 environmental issue. In the July PPIC survey, 80% of individuals linked the impacts of climate change to the growing drought

problem. Not surprisingly, these survey results reflect the reality of our environmental issues, as the state's water supply and drought are causing "stressed ecosystems, depleted reservoirs, hard-hit farms, and rural communities and threats to urban water supplies," according to PPIC. ... Read more from the LA Times here: [Fountain Valley High School targets California's growing drought issue](#)

IMPERIAL/COACHELLA VALLEYS

Restoration and recreation project coming to Salton Sea's Northern Shore

"Over 100 community members joined a Zoom meeting Saturday, Feb. 5, to learn about the North Lake Pilot Demonstration Project in the first community outreach meeting for the future Salton Sea project. ... Riverside County Management Analyst Douglas Ordonez Jr., who is managing the project for Riverside County, gave a presentation on the project, which envisions an approximately 156-acre marina, offset from the Salton Sea by berms, that will create a deep-water reservoir that will provide habitat for species and a recreational lake for the public near the community of North Shore. ..." Read more from the Desert Review here: [Restoration and recreation project coming to Salton Sea's Northern Shore](#)

SAN DIEGO

San Diego map shows temperatures can vary 15° within city due to infrastructure

"The City of San Diego recently orchestrated a city-wide study to look at temperature variations in various parts of the city and one time and discovered that on a warm day, temperatures can vary by 15° within different neighborhoods within San Diego. With this knowledge, city leaders hope to build infrastructure that will help cool down some of the hottest parts of the city. The process started in September of 2021, volunteers attached devices from the National Oceanic and Atmospheric Administration (NOAA) and drove 21 different routes throughout the city. ..." Read more from Channel 10 here: [San Diego map shows temperatures can vary 15° within city due to infrastructure](#)

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Along the Colorado River ...

How mapping beaver wetlands can chart a path to a better water future

"First-of-its kind project will use machine learning and remote sensing to track beaver wetland changes in the Colorado River Basin. At a time when climate change increasingly threatens water resources across the American West, what can we do to secure a future of sustainability rather than scarcity? One promising way forward: Look to nature-based solutions from the past. In the 16th century, long before Europeans settled the continent, the North American beaver was the continent's most diligent and effective water manager. ..." Continue reading at the Walton Family Foundation here: [How mapping beaver wetlands can chart a path to a better water future](#)

Commentary: Desalinating Sea of Cortez is the wrong path

Richard C. Brusca, research scientist at the University of Arizona, and Omar Vidal, a scientist, write, *"We have witnessed firsthand the damaging impacts of human excess on the Sea of Cortez's natural resources — and on the well-being of its coastal communities. Overfishing, illegal fishing, coastal urban and agricultural development, corruption, organized crime, pollution and climate change all imperil this sea. Because of these menaces, in 2009 UNESCO included the Sea of Cortez on its List of World Heritage in Danger. Now another menace looms over this sea, also known as the Gulf of California, that would add even more pressure to the fragile ecosystems already under siege. This new idea is being championed by Arizona Gov. Doug Ducey and state legislators. ..."* Read more from Arizona Daily Star here: [Desalinating Sea](#)

[of Cortez is the wrong path](#)

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In national water news today ...

From clouds to currents, what is the water cycle?

“Wherever you wander on Earth, from the windswept peaks of the Himalayas to the deepest trenches of the Pacific Ocean, you’ll find water. There might not be much, and it might not be easy to get to — dispersed as vapor in desert air or trickling along deep underground — but it’ll be there, driving weather and powering ecosystems. The way water moves around the planet in all its forms is complex: it flows, falls, freezes, melts, evaporates, condenses, drizzles and pours. But understanding that complexity can help unravel all kinds of planetary processes, from snowstorms to the motion of seawater. ...” Continue reading at the Smithsonian here: [From clouds to currents, what is the water cycle?](#)

An unexpected item is blocking cities’ climate change prep: obsolete rainfall records

“American cities are poised to spend billions of dollars to improve their water systems under the federal infrastructure bill, the largest water investment in the nation’s history. Those new sewers and storm drains will need to withstand rainfall that’s becoming more intense in a changing climate. But as cities make plans to tear up streets and pour cement, most have little to no information about how climate change will worsen future storms. Many cities are still building their infrastructure for the climate of the past, using rainfall records that haven’t been updated in decades. Those federal precipitation reports, which analyze historical rainfall data to tell cities what kinds of storms to plan for, are only sporadically updated by the National Oceanic and Atmospheric Administration. ...” Read more from NPR here: [An unexpected item is blocking cities’ climate change prep: obsolete rainfall records](#)

Dams alter river temperatures and endanger fish, yet 3,700 more will be built

“The Colorado pikeminnow was once a prized catch. The toothless, torpedo-shaped fish had dark, tender, flavorful meat and came in absurdly large sizes, especially for a minnow. In the early 1900s, fishers reported catching some up to six feet long, using mice, frogs and cottontail rabbit heads to lure in the voracious eaters. They were so plentiful that people could catch them using pitchforks. Today, these sightings are recounted as if from a history book. In the 1960s, the fish were federally listed as endangered — in part because of the construction of several dams. ...” Read more from the Washington Post here: [Dams alter river temperatures and endanger fish, yet 3,700 more will be built](#)

Republicans urge states to ignore infrastructure guidance

“Top Republican lawmakers are pushing back against the Biden administration’s efforts to encourage states to prioritize climate resilience, public transit and bike paths over highway expansion projects when allocating new infrastructure funding. Senate Minority Leader Mitch McConnell (R-Ky.) and Environment and Public Works ranking member Shelley Moore Capito (R-W.Va.) yesterday sent a letter to the nation’s governors urging them to disregard federal guidance on how states should use funding for road and bridge projects. The senators accused the Federal Highway Administration (FHWA) of attempting to enact a “wish list of policies” not outlined in the \$1.2 trillion Infrastructure Investment and Jobs Act, which Congress passed last year with bipartisan support. Both McConnell and Capito voted in favor of the measure. ...” Read more from E&E News here: [Republicans urge states to ignore infrastructure guidance](#)

2021 U.S. billion-dollar weather and climate disasters in historical context

“Last week, our team at NOAA National Centers for Environmental Information (NCEI) released the final update to its 2021 Billion-dollar disaster report

(www.ncdc.noaa.gov/billions), confirming what much of the nation experienced throughout 2021: another year of frequent and costly extremes. The year came in second to 2020 in terms of number of disasters (20 versus 22) and third in total costs (behind 2017 and 2005), with a price tag of \$145 billion. In 2021, the U.S. experienced 20 separate billion-dollar weather and climate disasters, putting 2021 in second place for the most disasters in a calendar year, behind the record 22 separate billion-dollar events in 2020. What really made 2021 stand out was the diversity of disasters ... Continue reading at Climate.gov here: [2021 U.S. billion-dollar weather and climate disasters in historical context](#)

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Also on Maven's Notebook today ...

VELES WEEKLY REPORT: Snowpack has gone from 202% to 92% in a month

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Commentary: Forget December's snowstorms. California isn't doing enough to address its hot, dry reality

Jacques Leslie - Los Angeles Times (TNS)

As a forbiddingly deep drought reclaims its hold on California, the state's record precipitation in October and December is already a distant memory, and the list of urgent water issues we face keeps getting longer. Forecasters predict little or no rain and snow for the rest of the "wet season," but the state's leaders have taken only baby steps to deal with the sprawling crisis.

"There are so many vested interests who benefit from the status quo that it's hard to make change," Doug Obegi, director of the Natural Resources Defense Council's California river restoration program, said in an interview. "State and federal administrations aren't rising to the magnitude of the problems we face."

Here are some suggestions for ways our tremulous leaders could do better.

— Give up, once and for all, on the Delta tunnel project

Various versions of a "conveyance" to divert Sacramento River water to (mostly) points south have been proposed since the 1940s. They all run afoul of a simple fact: It's impossible to install a giant straw at one end of the Sacramento-San Joaquin Delta and take water at the other end without devastating the environment.

Constructing the Delta tunnel could lead to ever larger diversions from the water-starved ecosystem, it could further harm the watershed's shrinking fish and wildlife populations, and it has already siphoned money and officials' attention from more worthy water projects. The Newsom administration, the latest to consider the tunnel a priority, pegs its current construction cost at a gaudy \$15.9 billion, a number certain to leap upward if the project is greenlighted.

— Give up, too, on the proposed \$3.9 billion Sites Reservoir

This is another Newsom administration favorite that despite its extravagant expense will do little to alleviate drought. Sites is so costly, most of the thirstiest irrigation districts that could theoretically benefit from it consider it too expensive to support. Since they won't help pay for it, they won't get any water from it if it is built.

There are plenty of reasons Sites' cost-benefit analysis doesn't add up. The current drought has lowered many California reservoirs to alarmingly low levels, so adding one more mostly empty reservoir makes no sense. Besides, the state's existing 1,400-plus reservoirs have used up the most favorable sites. As John Holden, President Barack Obama's science adviser, said in 2014, "The problem in California is not that we do not have enough reservoirs, it is that we do not have enough water in them."

— Put the billions saved by rejecting bad projects into local, vastly more cost-efficient efforts

Region by region and water district by water district, we should be recycling wastewater, capturing rainwater and providing storage in aquifers, many of which require restoration. California still has

not come close to reaching a target set by the State Water Resources Control Board in 2009 to annually recycle 1.5 million acre-feet of water by 2020. A wastewater recycling project now under construction called Pure Water San Diego shows the way: It is designed to reduce San Diego's reliance on water from the Delta and Colorado River by providing nearly half the city's municipal water supply by 2035.

— Make major cuts in water diversions from the Delta

After three years of predictably futile negotiations to achieve voluntary agreements with farm districts and cities on water cutbacks in the lower San Joaquin River portion of the Delta watershed, the Newsom administration finally scuttled the talks in October and belatedly embraced a 2018 plan to cut water diversions in the lower San Joaquin at critical times of the year for fish survival. Instead of farms and cities getting 90% of available water, their cut could drop to between 50% and 70%. Scientists deem even those levels insufficient to support the Delta's economy and environment.

— Get serious immediately about water conservation

It's the easiest, cheapest, most environmentally benign way to deal with water shortages. But the urban conservation regulations announced in January by the State Water Resources Control Board were no more stringent than requiring the use of nozzles when washing cars and prohibiting the hosing down of sidewalks. The board intended these provisions to draw attention to the gravity of the drought, but these laughably weak rules may have had the opposite effect, suggesting that the shortfall isn't a major threat. Agriculture, which consumes 80% of the state's water, wasn't even addressed.

— Tighten restrictions on groundwater use

The major legislative achievement in response to the last drought was the 2014 Sustainable Groundwater Management Act, which requires all water districts to measure and limit groundwater use. But the law doesn't fully go into effect for another 18 years. In the meantime, some San Joaquin Valley growers are pumping so much groundwater that nearby residents' home taps have gone dry. The implementation of the groundwater law should be sped up, and its protections strengthened, especially for shallow drinking water wells.

Though droughts expose water systems' weaknesses, they also generate pressure to address them, but as the dry days multiply, the Newsom administration has barely stirred. Never mind that the state's water crisis is likely to intensify as climate change accelerates — unless the state's leaders act promptly and decisively, this drought will be a golden opportunity lost.

(Jacques Leslie is a contributing writer to Opinion and the author of "Deep Water: The Epic Struggle Over Dams, Displaced People, and the Environment.")

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LOADING...

Op-Ed: Forget December snowstorms. California isn't doing enough to deal with its hot, dry reality

goodwordnews



As a terribly deep drought regains its grip on California, the state's record rainfall in October and December is already a distant memory, and the list of pressing water issues we face keeps growing. . Forecasters are predicting little to no rain and snow for the rest of the "rainy season", but state leaders have taken only small steps to deal with the sprawling crisis.

"There are so many vested interests that benefit from the status quo that it's hard to make changes," Doug Obegi, director of the Natural Resources Defense Council's California River Restoration Program, said in an interview. "State and federal governments are not up to the problems we face."

Here are some suggestions on how our trembling leaders could do better.

Give up once and for all on the Delta tunnel project. Various versions of a “transport” to divert water from the Sacramento River to (mostly) points south have been proposed since the 1940s. They all go against one simple fact: it is impossible to install a giant straw at one end of the Sacramento-San Joaquin Delta and take in water at the other end without devastating the environment.

The construction of the Delta Tunnel could lead to increasing diversions from the water-starved ecosystem, it could further harm the dwindling fish and wildlife populations of the watershed, and it has already diverted from the money and attention of those responsible for more worthy water projects. The Newsom administration, the latest to consider the tunnel a priority, pegs its current construction cost at \$15.9 billion, a figure that is sure to rise if the project is approved.

Also drop the \$3.9 billion sites reservoir project. It is another favorite of the Newsom administration who, despite spending extravagantly, will do little to alleviate the drought. The sites are so expensive that most of the thirstiest irrigation districts that could theoretically benefit from it consider it too expensive to maintain. Since they won't help pay for it, they won't draw water from it if it's built.

There are many reasons why the Sites cost-benefit analysis doesn't add up. The current drought has lowered many California reservoirs to alarming levels, so adding another nearly empty reservoir makes no sense. Additionally, the more than 1,400 existing reservoirs in the state used the most favorable sites. As John Holden, President Obama's science adviser, said in 2014 “The problem in California isn't that we don't have enough reservoirs, it's that we don't have enough water in them.”

Put the billions saved by rejecting bad projects into local, much more profitable efforts. Region by region and water district by water district, we should recycle wastewater, capture rainwater and provide storage in aquifers, many of which need restoration. California has still not met the goal set by the State Water Resources Control Board in 2009 to recycle 1.5 million acre-feet of water annually by 2020. A wastewater recycling project currently in construction called Pure Water San Diego is leading the way: It is designed to reduce San Diego's dependence on water from the Delta and the Colorado River by providing nearly half of the city's municipal water supply city by 2035.

Make significant cuts to delta water diversions. After three years of needlessly predictable negotiations to reach voluntary agreements with agricultural districts and cities on water reductions in the lower San Joaquin River of the delta watershed, the Newsom administration finally scuttled the talks. in October and belatedly adopted a 2018 plan to reduce water diversions. in the lower San Joaquin at critical times of the year for fish survival. Instead of farms and cities getting 90% of available water, their reduction could drop to between 50% and 70%. Scientists even deem these levels insufficient to sustain the delta's economy and environment.

Take water conservation seriously right away. It is the easiest, cheapest and most environmentally friendly way to deal with water shortages. But urban conservation regulations announced in January by the National Water Resources Control Board were no stricter than requiring the use of nozzles to wash cars and banning sidewalk watering. The council wanted these provisions to draw attention to the severity of the drought, but these ridiculously weak rules may have had the opposite effect, suggesting the shortfall is not a major threat. Agriculture, which consumes 80% of the state's water, was not even addressed.

Tighten restrictions on groundwater use. The main legislative achievement in response to the last drought was the Sustainable Groundwater Management Act 2014, which requires all river basin districts to measure and limit groundwater use. But the law does not come into full effect for another *18year*. Meanwhile, some growers in the San Joaquin Valley are pumping so much groundwater that the faucets in nearby residents' homes have dried up. Implementation of the groundwater law should be accelerated and its protections strengthened, especially for shallow drinking water wells.

Although droughts expose weaknesses in water supply systems, they also generate pressure to address them, but as dry days increase, the Newsom administration has barely budged. Never mind that the state's water crisis is likely to intensify as climate change accelerates – unless state leaders act quickly and decisively, this drought will be a lost golden opportunity.

Jacques Leslie is a contributing writer for Opinion and the author of “Deep Water: The Epic Struggle Over Dams, Displaced People, and the Environment.”

Los Angeles Times

Not all news on the site expresses the point of view of the site, but we transmit this news automatically and translate it through programmatic technology on the site and not from a human editor.

From: Laurie Warner Herson [laurie.warner.herson@phenixenv.com]
Sent: 2/16/2022 5:25:30 PM
To: Alicia Forsythe [aforsythe@sitesproject.org]; Linda Fisher (linda.fisher@hdrinc.com) [linda.fisher@hdrinc.com]
Subject: FW: Sites Final EIR/EIS - Generate a list of comments/commenters

Timing is everything – ICF just uploaded additional letters that came from reviewing form letters for possible unique comments. Fortunately, none of the comments are substantive. I have copied them to our Final EIR/EIS folder on SharePoint with the rest of the numbered comments. They also uploaded the form letters in a separate subfolder.

From: Davis, Susan <susan.davis@icf.com>
Sent: Wednesday, February 16, 2022 4:24 PM
To: Laurie Warner Herson <laurie.warner.herson@phenixenv.com>; Williams, Nicole <Nicole.Williams@icf.com>
Subject: RE: Sites Final EIR/EIS - Generate a list of comments/commenters

BTW – I have now downloaded all the Form letters and as I expected found a few more letters that needed numbers in that process. None of the new letters are substantive. I've uploaded them to your Sharepoint and we are now have 101 letters (with SRP_RSD_102 being the last of them).

I also created a folder where I uploaded all the copies of Form 1 that we received (113 of them).

Susan



Susan Davis | Manager, Environmental Planner | +1.916.737.3000 main | Susan.Davis@icf.com | icf.com
ICF | 980 9th Street, Suite 1200, Sacramento, CA 95814 USA | +1.916.752.0929 mobile

From: Laurie Warner Herson <laurie.warner.herson@phenixenv.com>
Sent: Wednesday, February 16, 2022 4:12 PM
To: Williams, Nicole <Nicole.Williams@icf.com>
Cc: Davis, Susan <susan.davis@icf.com>
Subject: RE: Sites Final EIR/EIS - Generate a list of comments/commenters

Great – thank you. The attorneys are starting to review the letters and also asked if we had an index. I will let them know that a list of comments/commenters will be coming after the 21st.

From: Williams, Nicole <Nicole.Williams@icf.com>
Sent: Wednesday, February 16, 2022 4:09 PM
To: Laurie Warner Herson <laurie.warner.herson@phenixenv.com>
Cc: Davis, Susan <susan.davis@icf.com>
Subject: Sites Final EIR/EIS - Generate a list of comments/commenters

Hi Laurie,

We are working on finishing coding and entering comments into the database. This is anticipated to be completed around 2/21. Therefore, after 2/21 we can query the database and generate a list of lettered numbers and commenters names/agencies. What will NOT be in the database on 2/21 is the names of the people who submitted the petition and the names of the people who submitted the form because there are a lot of names.

Susan and I are talking about how we can query the database to generate a table with letter number, comment number, action code, description of action code and comment without unnecessarily repeating comments. Since the database has a one-to-many relationship, we have to think through this so the output is useful. Something like this type of query would likely satisfy your request for the “matrix” that CH2M Hill prepared in 2019.

Cheers, Nicole

NICOLE L. WILLIAMS
Senior Environmental Planner
ICF
o 916.231.9614
icf.com

From: Laurie Warner Herson <laurie.warner.herson@phenixenv.com>
Sent: Wednesday, February 16, 2022 3:52 PM
To: Davis, Susan <susan.davis@icf.com>; Williams, Nicole <Nicole.Williams@icf.com>
Subject: RE: Letter from Maxwell Fire Protection District

Darn – I missed that, thanks for confirming. Nicole - have you developed or can you generate a list of comments/commenters?

From: Cooke, Robert@DWR [Robert.Cooke@water.ca.gov]
Sent: 2/17/2022 11:15:01 AM
To: Jerry Brown [jbrown@sitesproject.org]; Alicia Forsythe [aforsythe@sitesproject.org]
CC: Agustinez, Anecita S.@DWR [Anecita.Agustinez@water.ca.gov]; Sandino, David@DWR [David.Sandino@water.ca.gov]; McQuirk, Jacob@DWR [Jacob.McQuirk@water.ca.gov]; Leahigh, John@DWR [John.Leahigh@water.ca.gov]; Heiland, Brian@DWR [Brian.Heiland@water.ca.gov]; Maroney, Jagruti@DWR [Jagruti.Maroney@water.ca.gov]
Subject: RE: Site site record .pdfs for Yocha Dehe

Jerry,
After discussions with DWR Management and Legal, DWR concurs with the Sites Project Authority providing the Yocha Dehe Tribe the Cultural Resources information necessary for your consultation with the Tribe under CEQA and NEPA. However, this doesn't include the endangered species information.

If you have any further questions, please contact me.

Thanks,

Rob-

Rob Cooke
Principal Engineer, PE, RA
Department of Water Resources
(916) 365-7915
(916) 820-7792

From: Jerry Brown <jbrown@sitesproject.org>
Sent: Wednesday, February 16, 2022 12:58 PM
To: Cooke, Robert@DWR <Robert.Cooke@water.ca.gov>; Alicia Forsythe <aforsythe@sitesproject.org>
Subject: Re: Site site record .pdfs for Yocha Dehe

The Sites Authority wishes to provide the requested information and, if necessary, would be willing to sign a release that would indemnify DWR from any responsibility for any claims that may arise related to the creation or release of the information to the Yocha DeHe and would transfer complete responsibility for holding and use of the information from DWR to the Authority. This just makes sense because of the complete transfer of the project from DWR to the Authority per the Prop 1 statute.

From: "Cooke, Robert@DWR" <Robert.Cooke@water.ca.gov>
Date: Wednesday, February 16, 2022 at 11:58 AM
To: Alicia Forsythe <aforsythe@sitesproject.org>
Cc: Jerry Brown <jbrown@sitesproject.org>
Subject: RE: Site site record .pdfs for Yocha Dehe

Hi Ali,

Sorry for the slow progress on this issue. I have a meeting with Anecita, DWR Legal and Management tomorrow at 10:30am. I'll let you know how that goes.

Rob-

Rob Cooke
Principal Engineer, PE, RA
Department of Water Resources
(916) 365-7915
(916) 820-7792

From: Alicia Forsythe <aforsythe@sitesproject.org>
Sent: Friday, February 4, 2022 1:59 PM
To: Cooke, Robert@DWR <Robert.Cooke@water.ca.gov>
Subject: RE: Site site record .pdfs for Yocha Dehe

Hi Rob – I just wanted to check in on the status of this. We just received the attached letter from Yocha Dehe (although it is dated February 1). They are requesting the specific information on cultural sites. Have you been able to make any progress on this?

My apologies for the pressure – we just really want to get this information to the Tribe so they can adequately assess the effects of the Project on their resources.

Ali

Alicia Forsythe | Environmental Planning and Permitting Manager | Sites Project Authority | 916.880.0676 |
aforsythe@sitesproject.org | www.SitesProject.org

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From: Cooke, Robert@DWR <Robert.Cooke@water.ca.gov>
Sent: Thursday, January 27, 2022 5:15 PM
To: Alicia Forsythe <aforsythe@sitesproject.org>
Subject: Re: Site site record .pdfs for Yocha Dehe

Ali,
Ok. I'll see what I can do.
Thanks,
Rob-

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From: Alicia Forsythe <aforsythe@sitesproject.org>
Sent: Thursday, January 27, 2022 3:37:50 PM
To: Cooke, Robert@DWR <Robert.Cooke@water.ca.gov>
Subject: RE: Site site record .pdfs for Yocha Dehe

Hi Rob – I checked in with our Tribal liaison for the Project. She indicated that Anecita generally referenced that she was talking with Legal last year and had things cleared to provide the data to Yocha Dehe. But apparently Anecita didn't mention who in DWR Legal she had been working with. Sorry to not have any names to provide as you work to track this down.

Ali

Alicia Forsythe | Environmental Planning and Permitting Manager | Sites Project Authority | 916.880.0676 |
aforsythe@sitesproject.org | www.SitesProject.org

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From: Alicia Forsythe
Sent: Tuesday, January 25, 2022 2:47 PM
To: Cooke, Robert@DWR <Robert.Cooke@water.ca.gov>
Subject: FW: Site site record .pdfs for Yocha Dehe
Importance: High

Hi Rob – See below on this. I just left you a voicemail also. It would be great to touch base with you when you get a chance.

Yocha Dehe Tribe really would like this data ASAP to help inform their comments on the Revised Draft EIR/Supplemental Draft EIS. I believe we just need DWR to “turn over” the data to Yocha Dehe. We have completed all of the analysis and compilation that Yocha Dehe has asked for and provided that to DWR. So, I think we simply need DWR to say it is okay to release the data to Yocha Dehe and we can have ICF post it to a secure site for the Tribes access.

Ali

Alicia Forsythe | Environmental Planning and Permitting Manager | Sites Project Authority | 916.880.0676 |
aforsythe@sitesproject.org | www.SitesProject.org

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From: Janis Offermann <janis@horizonh2o.com>
Sent: Monday, January 24, 2022 9:28 AM
To: anecita.agustinez@water.ca.gov
Cc: Jacqueline.Wait <Jacqueline.Wait@water.ca.gov>; Laverne Bill <LBill@yochadehe-nsn.gov>; Alicia Forsythe <aforsythe@sitesproject.org>; Kevin Spesert <kspesert@sitesproject.org>; Laurie Warner Herson <laurie.warner.herson@phenixenv.com>
Subject: RE: Site site record .pdfs for Yocha Dehe
Importance: High

Good morning, Anecita

I just talked with Laverne Bill, and he said that he had chatted with you a week ago about receiving the site record data from DWR, noting that you said you were going to look into it. We have all been under the impression that DWR is in favor of supply the information to Yocha Dehe, so we would really like to move that along if you can please provide your approval. Also, we are now receiving comments on the revised EIR, and Yocha Dehe cannot fully comment without having the site record/GIS data.

Thanks in advance for your help.

Janis

Janis Offermann
Cultural Resources Practice Leader
Horizon Water and Environment
1801 Seventh Street, Suite 100
Sacramento, CA 95811
530.220.4918 (cell)

From: Janis Offermann <janis@horizonh2o.com>
Sent: Friday, January 14, 2022 2:22 PM
To: 'anecita.agustinez@water.ca.gov' <anecita.agustinez@water.ca.gov>
Cc: 'Jacqueline.Wait (Jacqueline.Wait@water.ca.gov)' <Jacqueline.Wait@water.ca.gov>
Subject: RE: Site site record .pdfs for Yocha Dehe

Hi, Anecita

I tried calling both your work and cell phones but wasn't able to leave a message.

Anyway, I was just wondering if you had time to consider our request to get the site record/GIS data to Yocha Dehe. We have our regular monthly meeting with Laverne next week and it would be nice to have some positive news to share with him..

Thanks and have a good weekend

Janis

From: Janis Offermann <janis@horizonh2o.com>
Sent: Monday, January 10, 2022 2:26 PM
To: 'anecita.agustinez@water.ca.gov' <anecita.agustinez@water.ca.gov>
Cc: Jacqueline.Wait (Jacqueline.Wait@water.ca.gov) <Jacqueline.Wait@water.ca.gov>
Subject: FW: Site site record .pdfs for Yocha Dehe

Hi, Anecita

I know you are swamped, but can we please resolve this and get the data to Yocha Dehe? Just say the word and we can arrange to make that happen.

Thanks

janis

From: Janis Offermann <janis@horizonh2o.com>
Sent: Friday, January 07, 2022 11:57 AM
To: 'Wait, Jacqueline@DWR' <Jacqueline.Wait@water.ca.gov>; 'Agustinez, Anecita S.@DWR' <Anecita.Agustinez@water.ca.gov>
Subject: RE: Site site record .pdfs for Yocha Dehe

Thanks for responding, Jackie.

The recipient of the information would be Andrew Cherna, Jr., Yocha Dehe's GIS specialist, and Laverne Bill, Yocha Dehe's Cultural Resources Coordinator. I think Laverne submitted a request to Anecita many months ago.

I will look forward to hearing from Anecita.

Thanks!

janis

From: Wait, Jacqueline@DWR <Jacqueline.Wait@water.ca.gov>
Sent: Friday, January 07, 2022 11:35 AM
To: Janis Offermann <janis@horizonh2o.com>; Agustinez, Anecita S.@DWR <Anecita.Agustinez@water.ca.gov>
Subject: RE: Site site record .pdfs for Yocha Dehe

Happy New Year, Janis!

My holidays were a nice break from work and even saw some family. Hope that yours went well.

I am relying on Anecita to respond with the authorization; I think DWR would want something from the Tribe identifying the recipient of the data. Having ICF transmit the data on behalf of DWR would probably be the easiest way.

Jackie
916.600.9973

From: Janis Offermann <janis@horizonh2o.com>
Sent: Friday, January 7, 2022 9:40 AM
To: Agustinez, Anecita S. @DWR <Anecita.Agustinez@water.ca.gov>; Wait, Jacqueline@DWR <Jacqueline.Wait@water.ca.gov>
Subject: FW: Site site record .pdfs for Yocha Dehe
Importance: High

Happy New Year, Anecita and Jackie
I hope you enjoyed the holidays.

I am really hoping that we can resolve the issue about providing Yocha Dehe with the site record/GIS data very soon. The revised EIR for Sites Reservoir is out for public review and we hope to have it finalized sometime this summer. However, our AB 52 consultations with Yocha Dehe have been stalled without these data and, as you know, we need to come to a resolution about treatment of tribal cultural resources before we can certify the EIR. We have done everything we can on our end to facilitate the transfer of information. Please help us move this process forward by providing Yocha Dehe the data, or authorizing us to do that.

Thank you!
Janis

Janis Offermann
Cultural Resources Practice Leader
Horizon Water and Environment
1801 Seventh Street, Suite 100
Sacramento, CA 95811
530.220.4918 (cell)

From: Janis Offermann <janis@horizonh2o.com>
Sent: Wednesday, December 29, 2021 3:18 PM
To: anecita.agustinez@water.ca.gov; Jacqueline.Wait <Jacqueline.Wait@water.ca.gov>
Subject: Site site record .pdfs for Yocha Dehe
Importance: High

Hi, Anecita and Jackie
ICF was able to establish a link that will allow you to download the site records linked with the GIS data for Sites Reservoir.

Please use this link: <https://hdrinc-my.sharepoint.com/:f/p/drissse/EnAb8WVaRnNCilehRSAxDO0B2wJR0kc9q463t7xpDJTdzA?e=5WcoKI>.

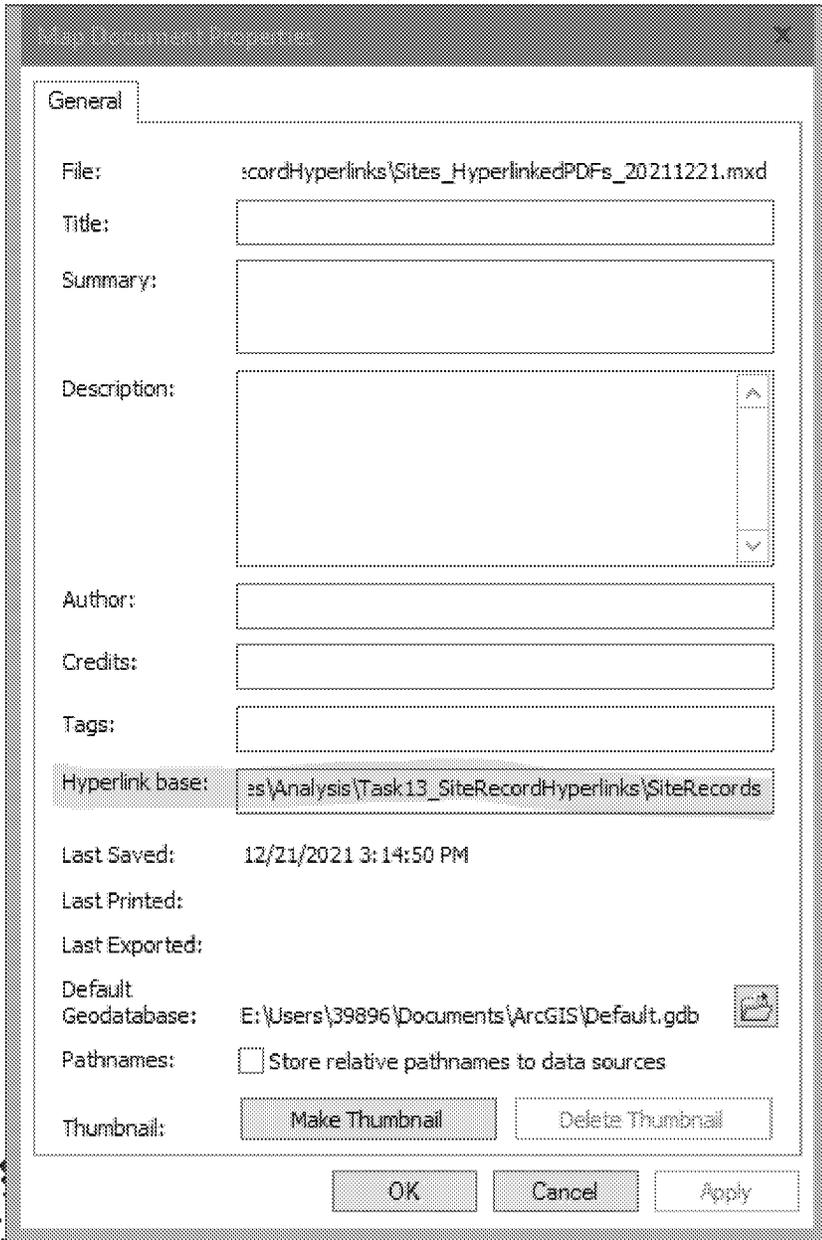
This link will allow only the two of you to open the file, as it is tied to your email addresses. Once opened, please follow these instructions below do download the data.

With your permission, we can also provide the link to Yocha Dehe, so that they can download the information directly; you will not have to be a go-between.

I have not yet tried this way to access the data, so please let me know if you have any problems. Please also let me know if it is OK to provide Yocha Dehe with a direct link.

Thanks
janis

Once the **Sites_HyperlinkedPDFs_20211221** file is unzipped, anyone with ArcMap can open the .mxd file and all they have to do is re-enter in the new local path pointing to the SiteRecords folder in the Map Document Properties (see highlighted screenshot below). Then when using the hyperlink button just click on a site shape in ArcMap and the pdf record will open (assuming a .pdf reader is installed). Folks can call me if they have any problems.



From: Alicia Forsythe [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=A6CDF06A7E904B65BAA21702A82AD329-AFORSYTHE]
Sent: 2/17/2022 11:28:54 AM
To: Laverne Bill [LBill@yochadehe-nsn.gov]; Victoria Delgado [VDelgado@yochadehe-nsn.gov]
CC: Laurie Warner Herson [laurie.warner.herson@phenixenv.com]; Kevin Spesert [kspesert@sitesproject.org]; Janis Offermann [janis@horizonh2o.com]
Subject: Sites Project - Site Records

Laverne – We have clearance from DWR to send you the site records! Thank you so much for your patience on this! We really appreciate it.

Janis – Can you work with ICF to transfer the files to Laverne?

Ali

Alicia Forsythe | Environmental Planning and Permitting Manager | Sites Project Authority | 916.880.0676 | aforsythe@sitesproject.org | www.SitesProject.org

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From: Janis Offermann <janis@horizonh2o.com>
Sent: Thursday, February 17, 2022 8:58 AM
To: Laverne Bill <LBill@yochadehe-nsn.gov>; Kevin Spesert <kspesert@sitesproject.org>
Cc: Alicia Forsythe <aforsythe@sitesproject.org>; Laurie Warner Herson <laurie.warner.herson@phenixenv.com>; Victoria Delgado <VDelgado@yochadehe-nsn.gov>
Subject: RE: Sites Reservoir monthly meeting today

OK . So let's cancel today, but hope for a good outcome at the meeting with DWR today and a reason to meet next week.

Thanks, everyone!
janis

From: Laverne Bill <LBill@yochadehe-nsn.gov>
Sent: Thursday, February 17, 2022 8:47 AM
To: Kevin Spesert <kspesert@sitesproject.org>
Cc: Janis Offermann <janis@horizonh2o.com>; Alicia Forsythe <aforsythe@sitesproject.org>; Laurie Warner Herson <laurie.warner.herson@phenixenv.com>; Victoria Delgado <VDelgado@yochadehe-nsn.gov>
Subject: Re: Sites Reservoir monthly meeting today

Good morning everyone. That works for me

Laverne Bill
Cultural Resources Department Manager
Tewe Kewe Cultural Center
PO Box 18, Brooks, CA 95606
c 530-723-3891
f 530-796-2143

Sent from my iPhone

On Feb 17, 2022, at 7:52 AM, Kevin Spesert <kspesert@sitesproject.org> wrote:

[Warning External Sender]

I recommend that we cancel today and reschedule pending the DWR meeting...maybe reschedule for the middle of next week if that works for the group.

Thanks!

Kevin

From: Janis Offermann <janis@horizonh2o.com>
Sent: Thursday, February 17, 2022 7:42 AM
To: Laverne Bill; Alicia Forsythe; Kevin Spesert; Laurie Warner Herson
Cc: Victoria Delgado
Subject: Sites Reservoir monthly meeting today

Good morning, everyone
Our monthly meeting is scheduled for today.

Laverne, Ali learned yesterday that there is to be a meeting this morning among DWR legal and management, including Anecita, to discuss getting the site information to you.

Ali, do you think we will have heard the results of that meeting by the time our meeting occurs at 2pm?

I wanted to bring this to everyone's attention, so we can decide whether we want to go ahead with the call, or cancel.

Also, FYI, I am scheduled to participate in an interview for a project with Horizon today at 1pm. Those interviews tend to only be an hour, but I might jump into our meeting a little late, if we choose to continue to have our meeting.

What does everyone think about continuing with the meeting today?

Thanks
janis

Janis Offermann
Cultural Resources Practice Leader
Horizon Water and Environment
1801 Seventh Street, Suite 100
Sacramento, CA 95811
530.220.4918 (cell)

From: Alicia Forsythe [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=A6CDF06A7E904B65BAA21702A82AD329-AFORSYTHE]
Sent: 2/17/2022 11:32:21 AM
To: Laurie Warner Herson [laurie.warner.herson@phenixenv.com]; Janis Offermann (Janis@Horizonh2o.com) [Janis@Horizonh2o.com]; Kevin Spesert [kspesert@sitesproject.org]
Subject: FW: Site site record .pdfs for Yocha Dehe

FYI. See below.

This took quite a bit of pushing, but apparently DWR's access agreements were focused on biological resources. There apparently was no restriction to providing the cultural resources information.

Ali

Alicia Forsythe | Environmental Planning and Permitting Manager | Sites Project Authority | 916.880.0676 | aforsythe@sitesproject.org | www.SitesProject.org

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From: Cooke, Robert@DWR <Robert.Cooke@water.ca.gov>
Sent: Thursday, February 17, 2022 11:15 AM
To: Jerry Brown <jbrown@sitesproject.org>; Alicia Forsythe <aforsythe@sitesproject.org>
Cc: Agustinez, Anecita S.@DWR <Anecita.Agustinez@water.ca.gov>; Sandino, David@DWR <David.Sandino@water.ca.gov>; McQuirk, Jacob@DWR <Jacob.McQuirk@water.ca.gov>; Leahigh, John@DWR <John.Leahigh@water.ca.gov>; Heiland, Brian@DWR <Brian.Heiland@water.ca.gov>; Maroney, Jagruti@DWR <Jagruti.Maroney@water.ca.gov>
Subject: RE: Site site record .pdfs for Yocha Dehe

Jerry,
After discussions with DWR Management and Legal, DWR concurs with the Sites Project Authority providing the Yocha Dehe Tribe the Cultural Resources information necessary for your consultation with the Tribe under CEQA and NEPA. However, this doesn't include the endangered species information.
If you have any further questions, please contact me.
Thanks,
Rob-

Rob Cooke
Principal Engineer, PE, RA
Department of Water Resources
(916) 365-7915
(916) 820-7792

From: Jerry Brown <jbrown@sitesproject.org>
Sent: Wednesday, February 16, 2022 12:58 PM
To: Cooke, Robert@DWR <Robert.Cooke@water.ca.gov>; Alicia Forsythe <aforsythe@sitesproject.org>
Subject: Re: Site site record .pdfs for Yocha Dehe

The Sites Authority wishes to provide the requested information and, if necessary, would be willing to sign a release that would indemnify DWR from any responsibility for any claims that may arise related to the creation or release of the information to the Yoche DeHe and would transfer complete responsibility for holding and use of the information from DWR to the Authority. This just makes sense because of the complete transfer of the project from DWR to the Authority per the Prop 1 statute.

From: "Cooke, Robert@DWR" <Robert.Cooke@water.ca.gov>

Date: Wednesday, February 16, 2022 at 11:58 AM

To: Alicia Forsythe <aforsythe@sitesproject.org>

Cc: Jerry Brown <jbrown@sitesproject.org>

Subject: RE: Site site record .pdfs for Yocha Dehe

Hi Ali,

Sorry for the slow progress on this issue. I have a meeting with Anecita, DWR Legal and Management tomorrow at 10:30am. I'll let you know how that goes.

Rob-

Rob Cooke

Principal Engineer, PE, RA

Department of Water Resources

(916) 365-7915

(916) 820-7792

From: Alicia Forsythe <aforsythe@sitesproject.org>

Sent: Friday, February 4, 2022 1:59 PM

To: Cooke, Robert@DWR <Robert.Cooke@water.ca.gov>

Subject: RE: Site site record .pdfs for Yocha Dehe

Hi Rob – I just wanted to check in on the status of this. We just received the attached letter from Yocha Dehe (although it is dated February 1). They are requesting the specific information on cultural sites. Have you been able to make any progress on this?

My apologies for the pressure – we just really want to get this information to the Tribe so they can adequately assess the effects of the Project on their resources.

Ali

Alicia Forsythe | Environmental Planning and Permitting Manager | Sites Project Authority | 916.880.0676 |
aforsythe@sitesproject.org | www.SitesProject.org

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From: Cooke, Robert@DWR <Robert.Cooke@water.ca.gov>

Sent: Thursday, January 27, 2022 5:15 PM

To: Alicia Forsythe <aforsythe@sitesproject.org>

Subject: Re: Site site record .pdfs for Yocha Dehe

Ali,

Ok. I'll see what I can do.

Thanks,
Rob-

Get [Outlook for iOS](#)

From: Alicia Forsythe <aforsythe@sitesproject.org>
Sent: Thursday, January 27, 2022 3:37:50 PM
To: Cooke, Robert@DWR <Robert.Cooke@water.ca.gov>
Subject: RE: Site site record .pdfs for Yocha Dehe

Hi Rob – I checked in with our Tribal liaison for the Project. She indicated that Anecita generally referenced that she was talking with Legal last year and had things cleared to provide the data to Yocha Dehe. But apparently Anecita didn't mention who in DWR Legal she had been working with. Sorry to not have any names to provide as you work to track this down.

Ali

Alicia Forsythe | Environmental Planning and Permitting Manager | Sites Project Authority | 916.880.0676 |
aforsythe@sitesproject.org | www.SitesProject.org

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From: Alicia Forsythe
Sent: Tuesday, January 25, 2022 2:47 PM
To: Cooke, Robert@DWR <Robert.Cooke@water.ca.gov>
Subject: FW: Site site record .pdfs for Yocha Dehe
Importance: High

Hi Rob – See below on this. I just left you a voicemail also. It would be great to touch base with you when you get a chance.

Yocha Dehe Tribe really would like this data ASAP to help inform their comments on the Revised Draft EIR/Supplemental Draft EIS. I believe we just need DWR to "turn over" the data to Yocha Dehe. We have completed all of the analysis and compilation that Yocha Dehe has asked for and provided that to DWR. So, I think we simply need DWR to say it is okay to release the data to Yocha Dehe and we can have ICF post it to a secure site for the Tribes access.

Ali

Alicia Forsythe | Environmental Planning and Permitting Manager | Sites Project Authority | 916.880.0676 |
aforsythe@sitesproject.org | www.SitesProject.org

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From: Janis Offermann <janis@horizonh2o.com>
Sent: Monday, January 24, 2022 9:28 AM
To: anecita.agustinez@water.ca.gov
Cc: Jacqueline.Wait <Jacqueline.Wait@water.ca.gov>; Laverne Bill <LBill@yochadehe-nsn.gov>; Alicia Forsythe

<aforsythe@sitesproject.org>; Kevin Spesert <kspesert@sitesproject.org>; Laurie Warner Herson
<laurie.warner.herson@phenixenv.com>

Subject: RE: Site site record .pdfs for Yocha Dehe

Importance: High

Good morning, Anecita

I just talked with Laverne Bill, and he said that he had chatted with you a week ago about receiving the site record data from DWR, noting that you said you were going to look into it. We have all been under the impression that DWR is in favor of supply the information to Yocha Dehe, so we would really like to move that along if you can please provide your approval. Also, we are now receiving comments on the revised EIR, and Yocha Dehe cannot fully comment without having the site record/GIS data.

Thanks in advance for your help.

Janis

Janis Offermann

Cultural Resources Practice Leader
Horizon Water and Environment
1801 Seventh Street, Suite 100
Sacramento, CA 95811
530.220.4918 (cell)

From: Janis Offermann <janis@horizonh2o.com>

Sent: Friday, January 14, 2022 2:22 PM

To: 'anecita.agustinez@water.ca.gov' <anecita.agustinez@water.ca.gov>

Cc: 'Jacqueline.Wait (Jacqueline.Wait@water.ca.gov)' <Jacqueline.Wait@water.ca.gov>

Subject: RE: Site site record .pdfs for Yocha Dehe

Hi, Anecita

I tried calling both your work and cell phones but wasn't able to leave a message.

Anyway, I was just wondering if you had time to consider our request to get the site record/GIS data to Yocha Dehe. We have our regular monthly meeting with Laverne next week and it would be nice to have some positive news to share with him..

Thanks and have a good weekend

Janis

From: Janis Offermann <janis@horizonh2o.com>

Sent: Monday, January 10, 2022 2:26 PM

To: 'anecita.agustinez@water.ca.gov' <anecita.agustinez@water.ca.gov>

Cc: Jacqueline.Wait (Jacqueline.Wait@water.ca.gov) <Jacqueline.Wait@water.ca.gov>

Subject: FW: Site site record .pdfs for Yocha Dehe

Hi, Anecita

I know you are swamped, but can we please resolve this and get the data to Yocha Dehe? Just say the word and we can arrange to make that happen.

Thanks

janis

From: Janis Offermann <janis@horizonh2o.com>

Sent: Friday, January 07, 2022 11:57 AM

To: 'Wait, Jacqueline@DWR' <Jacqueline.Wait@water.ca.gov>; 'Agustinez, Anecita S.@DWR' <Anecita.Agustinez@water.ca.gov>

Subject: RE: Site site record .pdfs for Yocha Dehe

Thanks for responding, Jackie.

The recipient of the information would be Andrew Cherna, Jr., Yocha Dehe's GIS specialist, and Laverne Bill, Yocha Dehe's Cultural Resources Coordinator. I think Laverne submitted a request to Anecita many months ago.

I will look forward to hearing from Anecita.

Thanks!

janis

From: Wait, Jacqueline@DWR <Jacqueline.Wait@water.ca.gov>

Sent: Friday, January 07, 2022 11:35 AM

To: Janis Offermann <janis@horizonh2o.com>; Agustinez, Anecita S.@DWR <Anecita.Agustinez@water.ca.gov>

Subject: RE: Site site record .pdfs for Yocha Dehe

Happy New Year, Janis!

My holidays were a nice break from work and even saw some family. Hope that yours went well.

I am relying on Anecita to respond with the authorization; I think DWR would want something from the Tribe identifying the recipient of the data. Having ICF transmit the data on behalf of DWR would probably be the easiest way.

Jackie

916.600.9973

From: Janis Offermann <janis@horizonh2o.com>

Sent: Friday, January 7, 2022 9:40 AM

To: Agustinez, Anecita S.@DWR <Anecita.Agustinez@water.ca.gov>; Wait, Jacqueline@DWR <Jacqueline.Wait@water.ca.gov>

Subject: FW: Site site record .pdfs for Yocha Dehe

Importance: High

Happy New Year, Anecita and Jackie

I hope you enjoyed the holidays.

I am really hoping that we can resolve the issue about providing Yocha Dehe with the site record/GIS data very soon. The revised EIR for Sites Reservoir is out for public review and we hope to have it finalized sometime this summer. However, our AB 52 consultations with Yocha Dehe have been stalled without these data and, as you know, we need to come to a resolution about treatment of tribal cultural resources before we can certify the EIR. We have done everything we can on our end to facilitate the transfer of information. Please help us move this process forward by providing Yocha Dehe the data, or authorizing us to do that.

Thank you!

Janis

Janis Offermann

Cultural Resources Practice Leader

Horizon Water and Environment

1801 Seventh Street, Suite 100

Sacramento, CA 95811
530.220.4918 (cell)

From: Janis Offermann <janis@horizonh2o.com>
Sent: Wednesday, December 29, 2021 3:18 PM
To: anecita.agustinez@water.ca.gov; Jacqueline.Wait <Jacqueline.Wait@water.ca.gov>
Subject: Site site record .pdfs for Yocha Dehe
Importance: High

Hi, Anecita and Jackie

ICF was able to establish a link that will allow you to download the site records linked with the GIS data for Sites Reservoir.

Please use this link:  <https://hdrinc-my.sharepoint.com/:f:/p/drisse/EnAb8WVaRnNCilehRSAxDO0B2wJR0kc9q463t7xpDJTdzA?e=5WcoKI>.

This link will allow only the two of you to open the file, as it is tied to your email addresses. Once opened, please follow these instructions below do download the data.

With your permission, we can also provide the link to Yocha Dehe, so that they can download the information directly; you will not have to be a go-between.

I have not yet tried this way to access the data, so please let me know if you have any problems. Please also let me know if it is OK to provide Yocha Dehe with a direct link.

Thanks
janis

Once the **Sites_HyperlinkedPDFs_20211221** file is unzipped, anyone with ArcMap can open the .mxd file and all they have to do is re-enter in the new local path pointing to the SiteRecords folder in the Map Document Properties (see highlighted screenshot below). Then when using the hyperlink button just click on a site shape in ArcMap and the pdf

record will open (assuming a .pdf reader is installed). Folks can call me if they have any problems.

Map Document Properties

General

File: :cordHyperlinks\Sites_HyperlinkedPDFs_20211221.mxd

Title:

Summary:

Description:

Author:

Credits:

Tags:

Hyperlink base:

Last Saved: 12/21/2021 3:14:50 PM

Last Printed:

Last Exported:

Default Geodatabase: E:\Users\39896\Documents\ArcGIS\Default.gdb

Pathnames: Store relative pathnames to data sources

Thumbnail:

From: Wendy Chriss[wchriss@ccwater.com]
Sent: Thur 2/17/2022 2:45:18 PM (UTC-08:00)
To: Alicia Forsythe[aforsythe@sitesproject.org]
Cc: Lucinda Shih[lshih@ccwater.com]; Ching-Fu Chang[CChang@ccwater.com]
Subject: FW: Revised Draft Environmental Impact Report/Supplemental Draft Environmental Impact Statement for the Sites Reservoir Project
Attachment: CCWD comments on Sites Jan 2022.pdf

Good afternoon,

On January 28 we attempted to submit the attached comment letter, but it was bounced back (see email below).

On January 30 we attempted to mail a hard copy of the same comment letter to the address below, but it was returned to our office today.

Alicia Forsythe
Sites Project Authority
122 West Old Highway 99
Maxwell, CA 95955

May we please have the correct email and mailing addresses?

If you have any questions, please feel free to call Lucinda Shih at (925) 688-8168.

Thank you,

Wendy Chriss
Administrative Secretary

CONTRA COSTA WATER DISTRICT
1331 Concord Avenue, Concord, CA 94520
(925) 688-8022

[Facebook](#) | [Twitter](#)

From: Wendy Chriss
Sent: Friday, January 28, 2022 4:10 PM
To: EIR-EIS-Comments@SitesProject.org
Cc: Marguerite Patil <mpatil@ccwater.com>; Lucinda Shih <lshih@ccwater.com>; Ching-Fu Chang <CChang@ccwater.com>; Maureen Martin <mmartin@ccwater.com>; Deanna Sereno <dsereno@ccwater.com>
Subject: Revised Draft Environmental Impact Report/Supplemental Draft Environmental Impact Statement for the Sites Reservoir Project

Please see attached comments from Contra Costa Water District. Please contact Lucinda Shih at (925) 688-8168 or lshih@ccwater.com for further discussions.

Wendy Chriss
Administrative Secretary

CONTRA COSTA WATER DISTRICT

1331 Concord Avenue, Concord, CA 94520
(925) 688-8022

[Facebook](#) | [Twitter](#)

From: Microsoft Outlook <MicrosoftExchange329e71ec88ae4615bbc36ab6ce41109e@ccwater.onmicrosoft.com>
Sent: Friday, January 28, 2022 4:10 PM
To: Wendy Chriss
Subject: Undeliverable: Revised Draft Environmental Impact Report/Supplemental Draft Environmental Impact Statement for the Sites Reservoir Project

Your message to EIR-EIS-Comments@SitesProject.org couldn't be delivered.

EIR-EIS-Comments wasn't found at sitesproject.org.

wchriss

Office 365

EIR-EIS-Comments

Action Required

Recipient



Unknown To address

How to Fix It

The address might be misspelled or might not exist. Try one or more of the following:

- ✓ **Retype the recipient's address, then resend the message** - If you're using Outlook, open this non-delivery report message and click **Send Again** from the menu or ribbon. In Outlook on the web, select this message, and then click the "**To send this message again, click here.**" link located just above the message preview window. In the To or Cc line, delete and then retype the entire recipient's address (ignore any address suggestions). After typing the complete address, click **Send** to resend the message. If you're using an email program other than Outlook or Outlook on the web, follow its standard way for resending a message. Just be sure to delete and retype the recipient's entire address before resending it.
- ✓ **Remove the recipient from the recipient Auto-Complete List, then resend the message** - If you're using Outlook or Outlook on the web, follow the steps in the "Remove the recipient from the recipient Auto-Complete List" section of [this article](#). Then resend the message. Be sure to delete and retype the recipient's entire address before clicking **Send**.

- ✓ **Contact the recipient by some other means**, (by phone, for example) to confirm you're using the right address. Ask them if they've set up an email forwarding rule that could be forwarding your message to an incorrect address.

If the problem continues, ask the recipient to tell their email admin about the problem, and give them the error (and the name of the server that reported it) shown below. It's likely that only the recipient's email admin can fix this problem.

Was this helpful? [Send feedback to Microsoft.](#)

More Info for Email Admins

Status code: 550 5.4.1

This error occurred because a message was sent to an email address hosted by Office 365, but the address doesn't exist in the receiving organization's Office 365 directory. Directory Based Edge Blocking (DBEB) is enabled for sitesproject.org, and DBEB rejects messages addressed to recipients who don't exist in the receiving organization's Office 365 directory. This error is reported by the recipient domain's email server, but most often it can be fixed by the person who sent the message. If the steps in the **How to Fix It** section above don't fix the problem, and you're the email admin for the recipient, try one or more of the following:

Check that the email address exists and is correct - Confirm that the recipient address exists in your Office 365 directory, is correct, and is accepting messages.

Synchronize your directories - Make sure directory synchronization is working correctly, and that the recipient's email address exists in both Office 365 and in your on-premises directory.

Check for errant forwarding rules - Check for forwarding rules for the original recipient that might be trying to forward the message to an invalid address. Forwarding can be set up by an admin via mail flow rules or mailbox forwarding address settings, or by the recipient via the Forwarding or Inbox Rules features.

Make sure the recipient has a valid license - Make sure the recipient has an Office 365 license assigned to them. The recipient's email admin can use the Office 365 admin center to assign a license to them (Users > Active Users > Select the recipient > Assigned License > Edit).

Make sure that mail flow settings and MX records are correct - Misconfigured mail flow or MX record settings can cause this error. Check your Office 365 mail flow settings to make sure your domain and any mail flow connectors are set up correctly. Also, work with your domain registrar to make sure the MX records for your domain are set up correctly.

For more information and additional tips to fix this issue, see [this article](#).

Original Message Details

Created Date: 1/29/2022 12:10:25 AM

Sender Address: wchriss@ccwater.com

Recipient Address: EIR-EIS-Comments@SitesProject.org

Subject: Revised Draft Environmental Impact Report/Supplemental Draft Environmental Impact Statement for the Sites Reservoir Project

Error Details

Reported error: 550 5.4.1 Recipient address rejected: Access denied. AS(201806281) [BN8NAM12FT032.eop-nam12.prod.protection.outlook.com]

DSN generated by: DM6PR12MB4107.namprd12.prod.outlook.com

Message Hops

HO P	TIME (UTC)	FROM	TO	WITH
1	1/29/2022 12:10:25 AM	MWHPR1201MB0048.namprd12.prod.outlook.com	MWHPR1201MB0048.namprd12.prod.outlook.com	mapi
2	1/29/2022 12:10:26 AM	MWHPR1201MB0048.namprd12.prod.outlook.com	DM6PR12MB4107.namprd12.prod.outlook.com	Microsoft SMTP Server (version=TLS1_2, cipher=TLS_ECDHE_RSA_WITH_AES_256_GCM_

ARC-Seal: i=1; a=rsa-sha256; s=arcselector9901; d=microsoft.com; cv=none;

b=TCcni kcxCD0KGHoTN2QxzEh lry1a8jC3bcpNegwFSfEuVYmfEda07pbM300/tgITZBGVVIo52Sr6hb8YGcmW2/9Q8pjZUHyY6sWTC4wqi gFN+BgJnd1 lWhAV9EII I7 l vb+kUY22dcgZ l uYsEfM4 jgAMeJE1x8KR20rCSK98t09DaP81ejZ3AWtKOHvqG4i8wwrPt7j598MI jN+0i625zGvXtVbvl+QsfPCXJyboynXxVHcc3/BRDI I roNAW l aEuL+z l 6Z6MVV1zvuszfWVMXOuH1 l kJEPX64kQ8Muz07wp1 l J2w4r l wRHwBUeQ5i M l nqzWprQR4vnSP l m2jUo jCZHQ==

ARC-Message-Signature: i=1; a=rsa-sha256; c=relaxed/relaxed; d=microsoft.com;

s=arcselector9901;

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dkim=none; arc=none

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d=ccwater.onmicrosoft.com; s=selector2-ccwater-onmicrosoft-com;

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Received: from MWHPR1201MB0048.namprd12.prod.outlook.com

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(2603:10b6:5:218::7) with Microsoft SMTP Server (version=TLS1_2,

cipher=TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384) id 15.20.4930.17; Sat, 29 Jan

2022 00:10:26 +0000

Received: from MWHPR1201MB0048.namprd12.prod.outlook.com

([fe80::9d48:5cf2:814e:8ae0]) by MWHPR1201MB0048.namprd12.prod.outlook.com

([fe80::9d48:5cf2:814e:8ae0%3]) with mapi id 15.20.4930.020; Sat, 29 Jan 2022

00:10:25 +0000

From: Wendy Chriss <wchriss@ccwater.com>

To: =?iso-2022-jp?B?RUISGyRCIT4bKEJFSVMbJEIhPhsoQkNvbW1lbnRzQFNpdGVzUHJvamVj?=
=?iso-2022-jp?B?dC5vcmc=? <EIR - EIS - Comments@SitesProject.org>

CC: Marguerite Patil <mpatil@ccwater.com>, Lucinda Shih <lshih@ccwater.com>,
Ching-Fu Chang <CChang@ccwater.com>, Maureen Martin <mmartin@ccwater.com>,
Deanna Sereno <dsereno@ccwater.com>

Subject: Revised Draft Environmental Impact Report/Supplemental Draft

Environmental Impact Statement for the Sites Reservoir Project

Thread-Topic: Revised Draft Environmental Impact Report/Supplemental Draft

Environmental Impact Statement for the Sites Reservoir Project

Thread-Index: AdgUpFwzGXsh3Fj+TN+vCU7fVM+jNA==

Date: Sat, 29 Jan 2022 00:10:25 +0000

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Content-Language: en-US

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X-MS-TNEF-Correlator:

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x-ms-publictraffictype: Email

x-ms-office365-filtering-correlation-id: 1874ffab-6f23-4456-c464-08d9e2bbc023

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x-ms-exchange-antispam-relay: 0

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MIME-Version: 1.0

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X-MS-Exchange-CrossTenant-AuthAs: Internal

X-MS-Exchange-CrossTenant-AuthSource: MWHPR1201MB0048.namprd12.prod.outlook.com

X-MS-Exchange-CrossTenant-Network-Message-Id: 1874ffab-6f23-4456-c464-08d9e2bbc023

X-MS-Exchange-CrossTenant-originalarrivaltime: 29 Jan 2022 00:10:25.6998

(UTC)

X-MS-Exchange-CrossTenant-fromentityheader: Hosted

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X-MS-Exchange-CrossTenant-mailboxtype: HOSTED

X-MS-Exchange-CrossTenant-userprincipalname:
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X-MS-Exchange-Transport-CrossTenantHeadersStamped: DM6PR12MB4107



January 28, 2022

Alicia Forsythe
Sites Project Authority
122 West Old Highway 99
Maxwell, CA 95955

Vanessa King
Bureau of Reclamation
2800 Cottage Way, Room W-2830
Sacramento, CA 95825

Submitted via email to: EIR-EIS-Comments@SitesProject.org

Subject: Revised Draft Environmental Impact Report/Supplemental Draft Environmental Impact Statement of the Sites Reservoir Project

Dear Ms. Forsythe and Ms. King:

Contra Costa Water District (CCWD) appreciates the opportunity to review and provide comments on the Revised Draft Environmental Impact Report/Supplemental Draft Environmental Impact Statement (RDEIR/SDEIS) for the Sites Reservoir Project (Project). CCWD solely relies on the Delta to provide water diverted at its four intakes to approximately 550,000 people in Contra Costa County. Changes in water quality and water supply at CCWD intakes, even in the absence of violation of regulatory objectives, can impact CCWD's water supplies to its customers. CCWD would like to provide comments as follows regarding the evaluation of potential impacts to CCWD water supplies.

1. As described in the RDEIR/SDEIS, the diversions for the Project would be diverted under the basis of a new water right that would be, by definition, junior to all existing water rights such as the Central Valley Project (CVP) and State Water Project (SWP) water rights, and CCWD's Los Vaqueros and Mallard Slough water rights. This new water right should include limitations that are at least as constraining as the constraints presented in the RDEIR/SDEIS, including, but not limited to, the Delta excess buffer (i.e., not diverting the first 3,000 cfs beyond the required Delta outflow) and the diversion criteria listed in Chapter 2 of the RDEIR/SDEIS.
2. The conveyance of water delivered from the Project through CCWD facilities is mentioned as a possibility in Chapter 2 of the RDEIR/SDEIS, but the potential associated impacts were not analyzed in the RDEIR/SDEIS. Since CCWD and the Project team have not discussed this possible operation in any detail to date, we recommend additional coordination with CCWD to determine if there are potential

BOARD OF DIRECTORS
Lisa M. Borba, AICP
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GENERAL MANAGER
Stephen J. Welch, P.E., S.E.

opportunities for coordinated operations in the future. If both parties decide to move forward with pursuing coordinated operations, more detailed impact analysis may need to be performed to fulfill the requirements of CEQA/NEPA and additional coordination with the CVP, SWP, and other key stakeholders would likely be beneficial.

3. In the RDEIR/SDEIS, conveyance of water supply to south-of-Delta Project partners is envisioned to be realized by increased exports at the Jones Pumping Plant and/or the Banks Pumping Plant, which entails through-Delta conveyance operations and thus has the potential to impact CCWD. The RDEIR/SDEIS does not include specific criteria for Sites Reservoir release and through-Delta conveyance to the same level of detail as the diversion criteria described in Chapter 2. As a result, detailed information needed to assess the potential impacts to CCWD remains unavailable; such information includes but is not limited to details about carriage water assumptions, diversion priority at Jones and Banks Pumping Plants, and potential changes in the timing and frequency of controlling Delta regulations. CCWD looks forward to coordinating with you to ensure that potential impacts of Project operations are avoided or mitigated.
4. The RDEIR/SDEIS does not fully account for the potential impacts on CCWD operations. CCWD's operations are driven by a number of factors including water quality. The DSM2 modeling results show occasions of increased salinity near CCWD's Intakes that coincide with CCWD's likely timing for use of the intakes, which has the potential to impact CCWD operations. However, in the CalSim modeling of CCWD operations the Delta salinity levels are the same for both the with and with Project scenarios, and thus does not capture CCWD's operational response to changes in Delta water quality caused by the Project. CCWD looks forward to discussing with you how to avoid or mitigate the potential Project impacts of increased salinity on CCWD.

As a project proponent and participant in the California Water Commission's Water Storage Investment Program, CCWD supports the objectives of the Water Storage Investment Program and recognizes the statewide importance of water storage projects that provide significant public benefits. In the spirit of collaboration, CCWD looks forward to the review of the final EIR/EIS for the Project and coordinating with you to achieve our mutual goals. Please do not hesitate to contact me at (925) 688-8168 or lshih@ccwater.com for further discussions.

Sincerely,



Lucinda Shih

Water Resources Manager

CFC:wec

From: Wendy Chriss[wchriss@ccwater.com]
Sent: Thur 2/17/2022 5:58:39 PM (UTC-08:00)
To: Alicia Forsythe[aforsythe@sitesproject.org]
Cc: Lucinda Shih[lshih@ccwater.com]; Ching-Fu Chang[CChang@ccwater.com]
Subject: RE: Revised Draft Environmental Impact Report/Supplemental Draft Environmental Impact Statement for the Sites Reservoir Project

Thank you Ali. Enjoy your weekend.

From: Alicia Forsythe <aforsythe@sitesproject.org>
Sent: Thursday, February 17, 2022 3:13 PM
To: Wendy Chriss <wchriss@ccwater.com>
Cc: Lucinda Shih <lshih@ccwater.com>; Ching-Fu Chang <CChang@ccwater.com>
Subject: RE: Revised Draft Environmental Impact Report/Supplemental Draft Environmental Impact Statement for the Sites Reservoir Project

Hello Wendy – Our mailing address is P.O. Box 517, Maxwell, CA 95955. I did not notice earlier that this was addressed to our street address, which the post office does not deliver to.

However, I did receive this comment letter via email and we have it logged in our files.

You are more than welcome to send it to us, but we already have it in our system and have it logged as a comment on the RDEIR/SDEIS.

Ali

Alicia Forsythe | Environmental Planning and Permitting Manager | Sites Project Authority | 916.880.0676 |
aforsythe@sitesproject.org | www.SitesProject.org

CONFIDENTIALITY NOTICE: This communication with its contents may contain confidential and/or legally privileged information. It is solely for the use of the intended recipient(s). Unauthorized interception, review, use or disclosure is prohibited and may violate applicable laws including the Electronic Communications Privacy Act. If you are not the intended recipient, please contact the sender and destroy all copies of the communication.

From: Wendy Chriss <wchriss@ccwater.com>
Sent: Thursday, February 17, 2022 2:45 PM
To: Alicia Forsythe <aforsythe@sitesproject.org>
Cc: Lucinda Shih <lshih@ccwater.com>; Ching-Fu Chang <CChang@ccwater.com>
Subject: FW: Revised Draft Environmental Impact Report/Supplemental Draft Environmental Impact Statement for the Sites Reservoir Project
Importance: High

Good afternoon,

On January 28 we attempted to submit the attached comment letter, but it was bounced back (see email below).

On January 30 we attempted to mail a hard copy of the same comment letter to the address below, but it was returned to our office today.

Alicia Forsythe
Sites Project Authority
122 West Old Highway 99
Maxwell, CA 95955

May we please have the correct email and mailing addresses?

If you have any questions, please feel free to call Lucinda Shih at (925) 688-8168.

Thank you,

Wendy Chriss

Administrative Secretary

CONTRA COSTA WATER DISTRICT

1331 Concord Avenue, Concord, CA 94520

(925) 688-8022

[Facebook](#) | [Twitter](#)

From: Wendy Chriss

Sent: Friday, January 28, 2022 4:10 PM

To: EIR-EIS-Comments@SitesProject.org

Cc: Marguerite Patil <mpatil@ccwater.com>; Lucinda Shih <lshih@ccwater.com>; Ching-Fu Chang <CChang@ccwater.com>; Maureen Martin <mmartin@ccwater.com>; Deanna Sereno <dsereno@ccwater.com>

Subject: Revised Draft Environmental Impact Report/Supplemental Draft Environmental Impact Statement for the Sites Reservoir Project

Please see attached comments from Contra Costa Water District. Please contact Lucinda Shih at (925) 688-8168 or lshih@ccwater.com for further discussions.

Wendy Chriss

Administrative Secretary

CONTRA COSTA WATER DISTRICT

1331 Concord Avenue, Concord, CA 94520

(925) 688-8022

[Facebook](#) | [Twitter](#)

From: Microsoft Outlook <MicrosoftExchange329e71ec88ae4615bbc36ab6ce41109e@ccwater.onmicrosoft.com>

Sent: Friday, January 28, 2022 4:10 PM

To: Wendy Chriss

Subject: Undeliverable: Revised Draft Environmental Impact Report/Supplemental Draft Environmental Impact Statement for the Sites Reservoir Project

Your message to EIR-EIS-Comments@SitesProject.org couldn't be delivered.

EIR-EIS-Comments wasn't found at sitesproject.org.

Action Required

Recipient



Unknown To address

How to Fix It

The address might be misspelled or might not exist. Try one or more of the following:

- ✓ **Retype the recipient's address, then resend the message** - If you're using Outlook, open this non-delivery report message and click **Send Again** from the menu or ribbon. In Outlook on the web, select this message, and then click the "**To send this message again, click here.**" link located just above the message preview window. In the To or Cc line, delete and then retype the entire recipient's address (ignore any address suggestions). After typing the complete address, click **Send** to resend the message. If you're using an email program other than Outlook or Outlook on the web, follow its standard way for resending a message. Just be sure to delete and retype the recipient's entire address before resending it.
- ✓ **Remove the recipient from the recipient Auto-Complete List, then resend the message** - If you're using Outlook or Outlook on the web, follow the steps in the "Remove the recipient from the recipient Auto-Complete List" section of [this article](#). Then resend the message. Be sure to delete and retype the recipient's entire address before clicking **Send**.
- ✓ **Contact the recipient by some other means**, (by phone, for example) to confirm you're using the right address. Ask them if they've set up an email forwarding rule that could be forwarding your message to an incorrect address.

If the problem continues, ask the recipient to tell their email admin about the problem, and give them the error (and the name of the server that reported it) shown below. It's likely that only the recipient's email admin can fix this problem.

Was this helpful? [Send feedback to Microsoft](#).

More Info for Email Admins

Status code: 550 5.4.1

This error occurred because a message was sent to an email address hosted by Office 365, but the address doesn't

exist in the receiving organization's Office 365 directory. Directory Based Edge Blocking (DBEB) is enabled for sitesproject.org, and DBEB rejects messages addressed to recipients who don't exist in the receiving organization's Office 365 directory. This error is reported by the recipient domain's email server, but most often it can be fixed by the person who sent the message. If the steps in the **How to Fix It** section above don't fix the problem, and you're the email admin for the recipient, try one or more of the following:

Check that the email address exists and is correct - Confirm that the recipient address exists in your Office 365 directory, is correct, and is accepting messages.

Synchronize your directories - Make sure directory synchronization is working correctly, and that the recipient's email address exists in both Office 365 and in your on-premises directory.

Check for errant forwarding rules - Check for forwarding rules for the original recipient that might be trying to forward the message to an invalid address. Forwarding can be set up by an admin via mail flow rules or mailbox forwarding address settings, or by the recipient via the Forwarding or Inbox Rules features.

Make sure the recipient has a valid license - Make sure the recipient has an Office 365 license assigned to them. The recipient's email admin can use the Office 365 admin center to assign a license to them (Users > Active Users > Select the recipient > Assigned License > Edit).

Make sure that mail flow settings and MX records are correct - Misconfigured mail flow or MX record settings can cause this error. Check your Office 365 mail flow settings to make sure your domain and any mail flow connectors are set up correctly. Also, work with your domain registrar to make sure the MX records for your domain are set up correctly.

For more information and additional tips to fix this issue, see [this article](#).

Original Message Details

Created Date: 1/29/2022 12:10:25 AM

Sender Address: wchriss@ccwater.com

Recipient Address: EIR-EIS-Comments@SitesProject.org

Subject: Revised Draft Environmental Impact Report/Supplemental Draft Environmental Impact Statement for the Sites Reservoir Project

Error Details

Reported error: *550 5.4.1 Recipient address rejected: Access denied. AS(201806281) [BN8NAM12FT032.eop-nam12.prod.protection.outlook.com]*

DSN generated by: DM6PR12MB4107.namprd12.prod.outlook.com

Message Hops

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2	1/29/2022 12:10:26 AM	MWHPR1201MB0048.namprd12. prod.outlook.com	DM6PR12MB4107.namprd12.pro d.outlook.com	Microsoft SMTP Server (version=TLS1_2, cipher=TLS_ECDHE_RSA_WITH_AES_256_GCM_

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dkim=none; arc=none

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d=ccwater.onmicrosoft.com; s=selector2-ccwater-onmicrosoft-com;

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(2603:10b6:5:218::7) with Microsoft SMTP Server (version=TLS1_2,
cipher=TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384) id 15.20.4930.17; Sat, 29 Jan
2022 00:10:26 +0000

Received: from MWHPR1201MB0048.namprd12.prod.outlook.com

([fe80::9d48:5cf2:814e:8ae0]) by MWHPR1201MB0048.namprd12.prod.outlook.com

([fe80::9d48:5cf2:814e:8ae0%3]) with mapi id 15.20.4930.020; Sat, 29 Jan 2022
00:10:25 +0000

From: Wendy Chriss <wchriss@ccwater.com>

To: =?iso-2022-jp?B?RUISGyRCIT4bKEJFSVmbJEIhPhsoQkNvbW1lbnRzQFNpdGVzUHJvamVj?=
=?iso-2022-jp?B?dC5vcmc=? <EIR - EIS - Comments@SitesProject.org>

CC: Marguerite Patil <mpatil@ccwater.com>, Lucinda Shih <lshih@ccwater.com>,
Ching-Fu Chang <CChang@ccwater.com>, Maureen Martin <mmartin@ccwater.com>,
Deanna Sereno <dsereno@ccwater.com>

Subject: Revised Draft Environmental Impact Report/Supplemental Draft
Environmental Impact Statement for the Sites Reservoir Project

Thread-Topic: Revised Draft Environmental Impact Report/Supplemental Draft
Environmental Impact Statement for the Sites Reservoir Project

Thread-Index: AdgUpFwzGXsh3Fj+TN+vCU7fVM+jNA==

Date: Sat, 29 Jan 2022 00:10:25 +0000

Message-ID:

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Accept-Language: en-US

Content-Language: en-US

X-MS-Has-Attach: yes

X-MS-TNEF-Correlator:

authentication-results: dkim=none (message not signed)

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(UTC)

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Project Status Briefing – Senator Padilla
February 22, 2022
12:00 Noon Pacific/3:00 pm Eastern

AGENDA

1. Introductions
2. Update on State Permitting Activities
 - a. CWC Prop 1 Feasibility Determination
 - b. CDFW Permitting Discussions
 - i. Diversion Criteria
3. 2021 RDEIR/SDEIS Comments
 - a. Overall Stats
 - b. Opposition Summary
 - c. Action Needed - Encourage parties to fix vs fight
4. Reclamation Participation
 - a. Moving to Increased Reclamation Investment – federal funding picture improved substantially
 - b. Coordination with other significant statewide water mgmt. – interim Ops, VA's, Other Prop 1 projects
 - c. Action Needed – Encourage additional Reclamation participation
5. WIFIA LOI
 - a. EPA and Reclamation Support
 - b. OMB Review
 - c. WIFIA savings to project beneficiaries – ag, M&I, and the environment
 - d. Action Needed – Encourage approval of pending WIFIA LOI
6. Major Upcoming Activities
 - a. Water Rights Application
 - b. BA/ITP Permit Applications
 - c. Final EIR/EIS
 - d. Overall Schedule Challenges



P.O. Box 517
Maxwell, CA 95955
530.438.2309



P.O. Box 517
Maxwell, CA 95955
530.438.2309

From: Spranza, John [John.Spranza@hdrinc.com]
Sent: 2/18/2022 9:15:30 AM
To: Arsenijevic, Jelica [Jelica.Arsenijevic@hdrinc.com]; Risse, Danielle [Danielle.Risse@hdrinc.com]; Lloyd, John [John.Lloyd@hdrinc.com]; Nowlin, Kayla Ann [Kayla.Nowlin@hdrinc.com]; Fisher, Linda [Linda.Fisher@hdrinc.com]; Smith, Kristin [Kristin.Smith@hdrinc.com]
CC: Luu, Henry [henry.luu@hdrinc.com]; JP Robinette [JRobinette@BrwnCald.com]; Alicia Forsythe [aforsythe@sitesproject.org]
Subject: FW: updated permit schedule
Attachments: Sites_ICF_InternalSchedule_draft021622.mpp

FYI. I have not fully reviewed this yet but please take a look at your areas and let me know if you have any questions or concerns. Thanks.

John Spranza

D 916.679.8858 M 818.640.2487

From: Briard, Monique <Monique.Briard@icf.com>
Sent: Wednesday, February 16, 2022 2:32 PM
To: Spranza, John <John.Spranza@hdrinc.com>
Subject: updated permit schedule

CAUTION: [EXTERNAL] This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Here you go. I've included a note for some of the permits that either still need to be updated (eagle permits) or that have an opportunity for the schedule to be reduced (404 if 408 is not required). I mention this because my goal is to delete the comments after this version so that I can have a Gantt chart with milestones, a visual of overlapping permits and EIR/S schedule, and so that it can "hopefully" pdf as a whole page.

Thanks,
Monique

Monique Briard | Sr. Managing Director, Environmental Planning | she/her
+1.916.231.9551 direct
| monique.briard@icf.com | icf.com

ICF | 980 9th Street, Suite 1200, Sacramento, CA 95814 USA | +1.916.842.0894 mobile

From: Laurie Warner Herson [laurie.warner.herson@phenixenv.com]
Sent: 2/18/2022 9:40:39 AM
To: Alicia Forsythe [aforsythe@sitesproject.org]; Spranza, John [john.spranza@hdrinc.com]
Subject: RE: NGO Outreach Timeline Update

Hi Ali,

I took a quick look and it seemed like you captured all of the small group NGO meetings. I am rechecking my calendar and files to confirm. But, hoping John can check as well since I was not invited to all and may not have them on my calendar.

Laurie

From: Alicia Forsythe <aforsythe@sitesproject.org>
Sent: Friday, February 18, 2022 9:37 AM
To: Spranza, John <john.spranza@hdrinc.com>; Laurie Warner Herson <laurie.warner.herson@phenixenv.com>
Subject: FW: NGO Outreach Timeline Update

Hi John and Laurie – Jerry asked that we update the listing of NGO activities. I’ve gone in there to update a bit, but can you take a second look also? I think he’s hoping to have this wrapped up today if possible.

Ali

Alicia Forsythe | Environmental Planning and Permitting Manager | Sites Project Authority | 916.880.0676 |
aforsythe@sitesproject.org | www.SitesProject.org

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From: Marcia Kivett <MKivett@sitesproject.org>
Sent: Thursday, February 17, 2022 4:08 PM
To: Alicia Forsythe <aforsythe@sitesproject.org>
Subject: Re: NGO Outreach Timeline Update

Done!

Marcia Kivett

Sites Project Admin

Phone: 561.843.9740

Email: mkivett@sitesproject.org

Web: www.SitesProject.org

P.O. Box 517

122 Old Hwy 99W

Maxwell, CA 95955

From: Alicia Forsythe <aforsythe@sitesproject.org>
Sent: Thursday, February 17, 2022 3:14 PM
To: Marcia Kivett <MKivett@sitesproject.org>
Subject: RE: NGO Outreach Timeline Update

I got it and added a few things. It would be good if you could add Laurie and John for access. I'd like their help in thinking of items.

Ali

Alicia Forsythe | Environmental Planning and Permitting Manager | Sites Project Authority | 916.880.0676 |
aforsythe@sitesproject.org | www.SitesProject.org

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From: Marcia Kivett <MKivett@sitesproject.org>
Sent: Thursday, February 17, 2022 2:12 PM
To: Alicia Forsythe <aforsythe@sitesproject.org>
Subject: Re: NGO Outreach Timeline Update

I shared the folder in SharePoint, let me know if you did not receive a weird email from me stating so.

Marcia Kivett
Sites Project Admin
Phone: 561.843.9740
Email: mkivett@sitesproject.org
Web: www.SitesProject.org
P.O. Box 517
122 Old Hwy 99W
Maxwell, CA 95955

From: Alicia Forsythe <aforsythe@sitesproject.org>
Sent: Thursday, February 17, 2022 1:10 PM
To: Marcia Kivett <MKivett@sitesproject.org>
Subject: RE: NGO Outreach Timeline Update

I have not. We have been so slammed that I just don't see how we can get to this, this week.

Can you send me the folder location? I tried to find it on SharePoint, but I don't see the folder so I can see all of the attachments.

Ali

Alicia Forsythe | Environmental Planning and Permitting Manager | Sites Project Authority | 916.880.0676 |
aforsythe@sitesproject.org | www.SitesProject.org

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From: Marcia Kivett <MKivett@sitesproject.org>
Sent: Thursday, February 17, 2022 10:15 AM
To: Alicia Forsythe <aforsythe@sitesproject.org>
Subject: Fw: NGO Outreach Timeline Update

Hi Ali,

I'm just checking in on this item. Did you send it to Laurie by any chance?

Marcia Kivett
Sites Project Admin
Phone: 561.843.9740
Email: mkivett@sitesproject.org
Web: www.SitesProject.org
P.O. Box 517
122 Old Hwy 99W
Maxwell, CA 95955

From: Jerry Brown <jbrown@sitesproject.org>
Sent: Wednesday, February 9, 2022 7:55 AM
To: Alicia Forsythe <aforsythe@sitesproject.org>
Cc: Marcia Kivett <MKivett@sitesproject.org>
Subject: NGO Outreach Timeline Update

Please have someone on the team with knowledge of the past 9 months of outreach meetings etc update the end of this timeline to current status. By end of next week please. Also let me know when complete.

Thanks

<https://sitesreservoirproject.sharepoint.com/:w:/r/exemgmtadmin/Exec%20MgmtAdmin/1.4%20Human%20Resources/Jerry%27s%20Working%20Documents/Timeline%20of%20Significant%20NGO%20Engagement%20-%202017%20to%20present/1%20-%20Timeline%20of%20Significant%20NGO%20Engagement%20since%20the%202017%20Draft%20EIR.docx?d=wb156ffe9984ec39414db6ea884962a&csf=1&web=1&e=HbOMMu>

From: Laverne Bill [LBill@yochadehe-nsn.gov]
Sent: 2/18/2022 10:38:16 AM
To: Alicia Forsythe [aforsythe@sitesproject.org]; Victoria Delgado [VDelgado@yochadehe-nsn.gov]
CC: 'Laurie Warner Herson' [laurie.warner.herson@phenixenv.com]; Kevin Spesert [kspesert@sitesproject.org]; 'Janis Offermann' [janis@horizonh2o.com]
Subject: RE: Sites Project - Site Records

Alicia, thank you for all your help on this issue.

Laverne Bill
Director of Cultural Resources

Yocha Dehe Wintun Nation
PO Box 18 | Brooks, CA 95606
p 530.796.3400 | c 530.723.3891
f 530.796.2143
lbill@yochadehe-nsn.gov
www.yochadehe.org

From: Alicia Forsythe <aforsythe@sitesproject.org>
Sent: Thursday, February 17, 2022 11:29 AM
To: Laverne Bill <LBill@yochadehe-nsn.gov>; Victoria Delgado <VDelgado@yochadehe-nsn.gov>
Cc: Laurie Warner Herson <laurie.warner.herson@phenixenv.com>; Kevin Spesert <kspesert@sitesproject.org>; Janis Offermann <janis@horizonh2o.com>
Subject: Sites Project - Site Records

[Warning External Sender]

Laverne – We have clearance from DWR to send you the site records! Thank you so much for your patience on this! We really appreciate it.

Janis – Can you work with ICF to transfer the files to Laverne?

Ali

Alicia Forsythe | Environmental Planning and Permitting Manager | Sites Project Authority | 916.880.0676 |
aforsythe@sitesproject.org | www.SitesProject.org

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From: Janis Offermann <janis@horizonh2o.com>
Sent: Thursday, February 17, 2022 8:58 AM
To: Laverne Bill <LBill@yochadehe-nsn.gov>; Kevin Spesert <kspesert@sitesproject.org>
Cc: Alicia Forsythe <aforsythe@sitesproject.org>; Laurie Warner Herson <laurie.warner.herson@phenixenv.com>; Victoria Delgado <VDelgado@yochadehe-nsn.gov>
Subject: RE: Sites Reservoir monthly meeting today

OK . So let's cancel today, but hope for a good outcome at the meeting with DWR today and a reason to meet next week.

Thanks, everyone!
janis

From: Laverne Bill <LBill@yochadehe-nsn.gov>
Sent: Thursday, February 17, 2022 8:47 AM
To: Kevin Spesert <kspesert@sitesproject.org>
Cc: Janis Offermann <janis@horizonh2o.com>; Alicia Forsythe <aforsythe@sitesproject.org>; Laurie Warner Herson <laurie.warner.herson@phenixenv.com>; Victoria Delgado <VDelgado@yochadehe-nsn.gov>
Subject: Re: Sites Reservoir monthly meeting today

Good morning everyone. That works for me

Laverne Bill
Cultural Resources Department Manager
Tewe Kewe Cultural Center
PO Box 18, Brooks, CA 95606
c 530-723-3891
f 530-796-2143

Sent from my iPhone

On Feb 17, 2022, at 7:52 AM, Kevin Spesert <kspesert@sitesproject.org> wrote:

[Warning External Sender]

I recommend that we cancel today and reschedule pending the DWR meeting...maybe reschedule for the middle of next week if that works for the group.

Thanks!

Kevin

From: Janis Offermann <janis@horizonh2o.com>
Sent: Thursday, February 17, 2022 7:42 AM
To: Laverne Bill; Alicia Forsythe; Kevin Spesert; Laurie Warner Herson
Cc: Victoria Delgado
Subject: Sites Reservoir monthly meeting today

Good morning, everyone
Our monthly meeting is scheduled for today.

Laverne, Ali learned yesterday that there is to be a meeting this morning among DWR legal and management, including Anecita, to discuss getting the site information to you.

Ali, do you think we will have heard the results of that meeting by the time our meeting occurs at 2pm?

I wanted to bring this to everyone's attention, so we can decide whether we want to go ahead with the call, or cancel.

Also, FYI, I am scheduled to participate in an interview for a project with Horizon today at 1pm. Those interviews tend to only be an hour, but I might jump into our meeting a little late, if we choose to continue to have our meeting.

What does everyone think about continuing with the meeting today?

Thanks

janis

Janis Offermann

Cultural Resources Practice Leader

Horizon Water and Environment

1801 Seventh Street, Suite 100

Sacramento, CA 95811

530.220.4918 (cell)

From: Alicia Forsythe [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=A6CDF06A7E904B65BAA21702A82AD329-AFORSYTHE]
Sent: 2/18/2022 12:04:18 PM
To: Sara M . Katz [SKatz@KatzandAssociates.com]; Kevin Spesert [kspesert@sitesproject.org]
Subject: FW: journalist-Felicity re EIR/EIS comments

Hi Sara – I will give you a call on this here shortly, but wanted to get you engaged in this topic. See the email trail below. Felicity Barringer with Stanford called the office and then was referred to me. [Felicity Barringer | The Bill Lane Center for the American West \(stanford.edu\)](#)

I spoke to her and there's a quick summary in the email below.

I talked to Jerry and we decided that it was likely fine to send her some of the key comment letters from the RDEIR/SDEIS for her efforts. She can get these through a PRA anyway, so we might as well send them to her. I will get her some comment letter this weekend or Monday.

It would be great if you could reach out to her also to get a better idea of her story, timeframe, and anything more she might need from us. She did say that she will likely have questions for us and want to do an interview in the future.

Her phone number is 917-868-1274.

I'll call you to chat about this also.

Ali

Alicia Forsythe | Environmental Planning and Permitting Manager | Sites Project Authority | 916.880.0676 | aforsythe@sitesproject.org | www.SitesProject.org

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From: Alicia Forsythe
Sent: Wednesday, February 16, 2022 4:21 PM
To: Kevin Spesert <kspesert@sitesproject.org>; Jerry Brown <jbrown@sitesproject.org>
Subject: FW: journalist-Felicity re EIR/EIS comments

Hi all – I got a call from Felicity. She is with Stanford University. She's writing a piece on water in California – looking at the pros and cons of surface, groundwater banking/recharge, desal, etc. She's looking at a review of what is happening with the Prop 1 projects. She thinks that Sites will likely be her main focus for surface storage and wants to get a sense of what is happening and what people think about the project. To this end, she'd like to see some of the substantive comments on the RDEIR/SDEIS. She was then hoping to chat with us about how we plan to address these and make adjustments – generally. And also understand the project schedule.

She attended the RDEIR/SDEIS public meetings so has a sense of the comment.

I'll talk to Jerry about this at 5 PM as I have a call with him on another subject.

Ali

Alicia Forsythe | Environmental Planning and Permitting Manager | Sites Project Authority | 916.880.0676 |
aforsythe@sitesproject.org | www.SitesProject.org

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From: Board Clerk <boardclerk@sitesproject.org>
Sent: Monday, February 14, 2022 2:28 PM
To: Alicia Forsythe <aforsythe@sitesproject.org>
Subject: journalist-Felicity re EIR/EIS comments

Hi Ali,

Wasn't sure who I should refer her to, so I gave her your number and email. She should be getting hold of you.

Hope that was okay.

Yolanda Tirado, Board Clerk
Sites JPA
122 Old Highway 99W
PO Box 517
Maxwell, CA 95955

From: Laurie Warner Herson [laurie.warner.herson@phenixenv.com]
Sent: 2/18/2022 12:13:58 PM
To: Spranza, John [john.spranza@hdrinc.com]; Alicia Forsythe [aforsythe@sitesproject.org]
Subject: RE: NGO Outreach Timeline Update

FYI - I've made some additions to the list of NGO meetings.

From: Spranza, John <John.Spranza@hdrinc.com>
Sent: Friday, February 18, 2022 11:07 AM
To: Laurie Warner Herson <laurie.warner.herson@phenixenv.com>; Alicia Forsythe <aforsythe@sitesproject.org>
Subject: RE: NGO Outreach Timeline Update

I am having access issues and have a ticket in to fix it.

John Spranza

D 916.679.8858 M 818.640.2487

From: Laurie Warner Herson <laurie.warner.herson@phenixenv.com>
Sent: Friday, February 18, 2022 9:41 AM
To: Alicia Forsythe <aforsythe@sitesproject.org>; Spranza, John <john.spranza@hdrinc.com>
Subject: RE: NGO Outreach Timeline Update

CAUTION: [EXTERNAL] This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hi Ali,

I took a quick look and it seemed like you captured all of the small group NGO meetings. I am rechecking my calendar and files to confirm. But, hoping John can check as well since I was not invited to all and may not have them on my calendar.

Laurie

From: Alicia Forsythe <aforsythe@sitesproject.org>
Sent: Friday, February 18, 2022 9:37 AM
To: Spranza, John <john.spranza@hdrinc.com>; Laurie Warner Herson <laurie.warner.herson@phenixenv.com>
Subject: FW: NGO Outreach Timeline Update

Hi John and Laurie – Jerry asked that we update the listing of NGO activities. I've gone in there to update a bit, but can you take a second look also? I think he's hoping to have this wrapped up today if possible.

Ali

Alicia Forsythe | Environmental Planning and Permitting Manager | Sites Project Authority | 916.880.0676 |
aforsythe@sitesproject.org | www.SitesProject.org

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Draft_0015461

including the Electronic Communications Privacy Act. If you are not the intended recipient, please contact the sender and destroy all copies of the communication.

From: Marcia Kivett <MKivett@sitesproject.org>
Sent: Thursday, February 17, 2022 4:08 PM
To: Alicia Forsythe <aforsythe@sitesproject.org>
Subject: Re: NGO Outreach Timeline Update

Done!

Marcia Kivett
Sites Project Admin
Phone: 561.843.9740
Email: mkivett@sitesproject.org
Web: www.SitesProject.org
P.O. Box 517
122 Old Hwy 99W
Maxwell, CA 95955

From: Alicia Forsythe <aforsythe@sitesproject.org>
Sent: Thursday, February 17, 2022 3:14 PM
To: Marcia Kivett <MKivett@sitesproject.org>
Subject: RE: NGO Outreach Timeline Update

I got it and added a few things. It would be good if you could add Laurie and John for access. I'd like their help in thinking of items.

Ali

Alicia Forsythe | Environmental Planning and Permitting Manager | Sites Project Authority | 916.880.0676 |
aforsythe@sitesproject.org | www.SitesProject.org

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From: Marcia Kivett <MKivett@sitesproject.org>
Sent: Thursday, February 17, 2022 2:12 PM
To: Alicia Forsythe <aforsythe@sitesproject.org>
Subject: Re: NGO Outreach Timeline Update

I shared the folder in SharePoint, let me know if you did not receive a weird email from me stating so.

Marcia Kivett
Sites Project Admin
Phone: 561.843.9740

Email: mkivett@sitesproject.org

Web: www.SitesProject.org

P.O. Box 517

122 Old Hwy 99W
Maxwell, CA 95955

From: Alicia Forsythe <aforsythe@sitesproject.org>

Sent: Thursday, February 17, 2022 1:10 PM

To: Marcia Kivett <MKivett@sitesproject.org>

Subject: RE: NGO Outreach Timeline Update

I have not. We have been so slammed that I just don't see how we can get to this, this week.

Can you send me the folder location? I tried to find it on SharePoint, but I don't see the folder so I can see all of the attachments.

Ali

Alicia Forsythe | Environmental Planning and Permitting Manager | Sites Project Authority | 916.880.0676 |
aforsythe@sitesproject.org | www.SitesProject.org

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From: Marcia Kivett <MKivett@sitesproject.org>

Sent: Thursday, February 17, 2022 10:15 AM

To: Alicia Forsythe <aforsythe@sitesproject.org>

Subject: Fw: NGO Outreach Timeline Update

Hi Ali,

I'm just checking in on this item. Did you send it to Laurie by any chance?

Marcia Kivett

Sites Project Admin

Phone: 561.843.9740

Email: mkivett@sitesproject.org

Web: www.SitesProject.org

P.O. Box 517

122 Old Hwy 99W
Maxwell, CA 95955

From: Jerry Brown <jbrown@sitesproject.org>

Sent: Wednesday, February 9, 2022 7:55 AM

To: Alicia Forsythe <aforsythe@sitesproject.org>

Cc: Marcia Kivett <MKivett@sitesproject.org>

Subject: NGO Outreach Timeline Update

Please have someone on the team with knowledge of the past 9 months of outreach meetings etc update the end of this timeline to current status. By end of next week please. Also let me know when complete.

Thanks

<https://sitesreservoirproject.sharepoint.com/:w:/r/exemgmtadmin/Exec%20MgmtAdmin/1.4%20Human%20Resources/Jerry%27s%20Working%20Documents/Timeline%20of%20Significant%20NGO%20Engagement%20-%202017%20to%20present/1%20-%20Timeline%20of%20Significant%20NGO%20Engagement%20since%20the%202017%20Draft%20EIR.docx?d=wb156fef9984ec39414db6ea884962a&csf=1&web=1&e=HbOMMu>

Sites Reservoir



Our Strength is in Our Broad Statewide Participation

Sacramento Valley

Carter Mutual Water Company
City of American Canyon
Colusa County
Colusa County Water Agency
Cortina Water District
Davis Water District
Dunnigan Water District
Glenn County
Glenn-Colusa Irrigation District
LaGrande Water District
Placer County Water Agency
Reclamation District 108
City of Roseville
Sacramento County Water Agency
City of Sacramento
Tehama-Colusa Canal Authority
Westside Water District
Western Canal Water District

Bay Area

Santa Clara Valley Water District
Zone 7 Water Agency

San Joaquin Valley

Wheeler Ridge-Maricopa Water Storage District
Rosedale-Rio Bravo Water Storage District

Southern California

Antelope Valley - East Kern Water Agency
Coachella Valley Water District
Desert Water Agency
Irvine Ranch Water District
Metropolitan Water District
San Bernardino Valley Municipal Water District
San Geronio Pass Water Agency
Santa Clarita Valley Water Agency



Affordable, Permittable, Buildable

Sites underwent a rigorous value planning effort that resulted in a “right-sized” project. The Sites Reservoir of today:

- ✓ Has a smaller footprint - less environmental effects
- ✓ Eliminates controversial conveyance infrastructure
- ✓ Meets the water supply needs of participants
- ✓ Is more affordable for local agencies
- ✓ Accommodates a range of federal investment from 7%-25%
- ✓ Continues to support the State’s basis of MCED
- ✓ Performs under most challenging climate change scenarios



Provides Climate Change Resiliency

How does Sites Reservoir address these challenges?

- ✓ Captures excess flows in the Sacramento River – rain instead of snowmelt
- ✓ Off-stream storage and state of the art fish screens protect the river system environment
- ✓ Adds 1.5 million acre-feet of storage space providing water mgmt. flexibility
- ✓ Provides new, affordable water for people, farms and environment during the more frequent dry spells California will experience
- ✓ Allows other reservoirs, like Shasta Oroville and Folsom, to optimize cold water during dry periods for environmental purposes

Project performance is modeled to improve by approximately 5%-10% under anticipated climate change conditions



Provides a Resilient Supply of Water for all of California

SITES PROJECT NEW WATER SUPPLY

Year Type	Water Supply (thousand acre-feet)
Wet	80-90
Above Normal	92-292
Below Normal	190-296
Dry	398-429
Critically Dry	308-348
Long-Term Average	207-260

If we had Sites Reservoir in this 2021 drought year we estimate we would have nearly TMAF of additional water for California's farms, cities and the environment.



State Public Benefits in Sites funded by Prop 1

Total 2018 MCED: \$816M (Rank 3)

Environmental (~67%)

Refuge Supplies - Provide a reliable supply of refuge water to improve Pacific Flyway habitat for migratory birds and other native species

Yolo Bypass - Provide water dedicated to help improve conditions for the Delta Smelt

Other Possibilities (not currently included) -
Preserve cold-water for use later in the summer months to support salmon development, spawning and rearing

Environmental Water Manager concept to flexibly manage the State's asset for optimal environmental results

Recreation (~23%)

Flood Control (~ 5%)



EIR Project Alternatives

Facilities / Operations	Alternative 1	Alternative 2	Alternative 3
Reservoir Size	1.5 MAF	1.3 MAF	1.5 MAF
Hydropower	Incidental upon release	Same as Alt 1	Same as Alt 1
Diversion Locations	Red Bluff Pumping Plant and Hamilton City	Same as Alt 1	Same as Alt 1
Conveyance Release / Dunnigan Release	1,000 cubic feet per second (cfs) into new Dunnigan Pipeline to Colusa Basin Drain	1,000 cfs into new Dunnigan Pipeline to Sacramento River. Partial release into the Colusa Basin Drain	Same as Alt 1
Reclamation Involvement	<ol style="list-style-type: none"> 1. Funding Partner 2. Operational Exchanges <ol style="list-style-type: none"> a. Within Year Exchanges b. Real-time Exchanges 	Operational Exchanges <ol style="list-style-type: none"> a. Within Year Exchanges b. Real-time Exchanges 	Same as Alt 1, but up to 25% investment
DWR Involvement	Operational Exchanges with Oroville and use of SWP facilities South-of-Delta	Same as Alt 1	Same as Alt 1
Route to West Side of Reservoir	Bridge across reservoir	Paved road around southern end of reservoir	Same as Alt 1

Ali has slide to send.

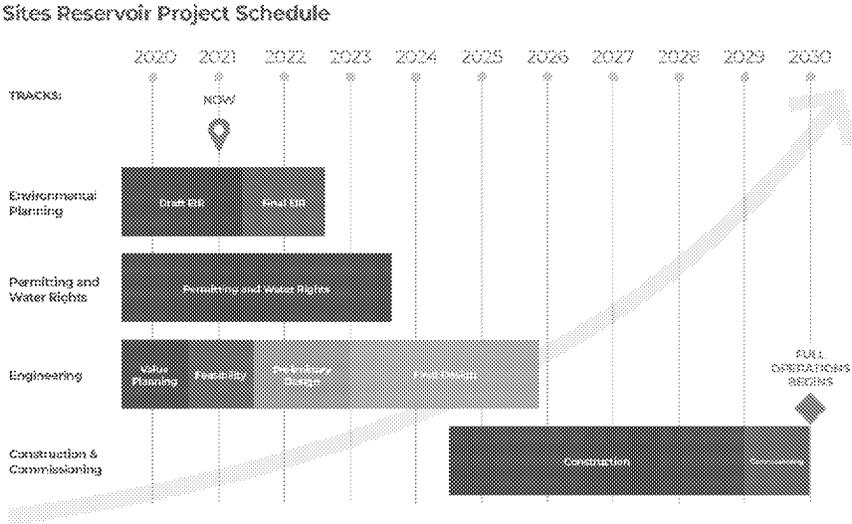
Sites has to be Affordable, Permittable and Buildable

Reservoir Size (MAF)	Alternative 1 (1.5MAF)
Total Project Cost (2021\$, billions)	~\$3.9B
Annualized AF/year release (AFY)	~230,000
Estimated Unit Costs During Repayment Without WIFIA Loans (2021\$, \$/AF)	~\$800
Estimated Unit Costs During Repayment With WIFIA Loans (2021\$, \$/AF)	~\$700



Looking Ahead

Sites Reservoir Project Schedule





Erin – once we have run the course re questions (real time or prepared), we will closely watch the time and ensure we wrap with five minutes to spare.

Jerry/Fritz: If we do have time, I could offer one or both of you to make some closing comments. That would be a nice touch. Let's consider and we can prepare, or you can simply make notes throughout the TH sessions, and plan your individual wrap-ups – 60-90 seconds?

From: Alicia Forsythe [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=A6CDF06A7E904B65BAA21702A82AD329-AFORSYTHE]
Sent: 2/21/2022 11:51:47 AM
To: Laurie Warner Herson [laurie.warner.herson@phenixenv.com]; Fisher, Linda [linda.fisher@hdrinc.com]
Subject: Sites Project - RDEIR/SDEIS Comments

Hi Laurie and Linda – I need help on two items –

1. Environmental Defense Fund –
 - a. We are going to get EDF the comment letters on the RDEIR/SDEIS to review. Can we prepare a OneDrive and post the comments to it? Can we do this in the next few days?
 - b. We also need to go through the comments and pull out the “biggest” 3 to 5 issues from the NGO community perspective (not just NGO comments, but those that the NGO community would be interested in) and draft some broad responses to those. We have more time for this, but can someone take a stab and have a draft by end of next week?
2. Stanford Water Reporter – A reporter from the Stanford water center would like the key comment letters. Not all of them, just the key ones. She is trying to get a sense of the concerns and opposition to the Project. I am thinking of sending her the following, what do you think:
 - a. CDFW
 - b. NCWA
 - c. AuaAlliance, et al.
 - d. NRDC et al.
 - e. What could I send that might characterize the Tribal concerns? The Save California Salmon petition is public, so I don't think we need to send that – plus, it doesn't really characterize the Tribal concerns.

We can talk about both of these on our 2 PM call today.

Ali

Alicia Forsythe | Environmental Planning and Permitting Manager | Sites Project Authority | 916.880.0676 |
aforsythe@sitesproject.org | www.SitesProject.org

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From: Spranza, John [John.Spranza@hdrinc.com]
Sent: 2/21/2022 1:38:34 PM
To: Heydinger, Erin [erin.heydinger@hdrinc.com]; Laurie Warner Herson [laurie.warner.herson@phenixenv.com]; Alicia Forsythe [aforsythe@sitesproject.org]
CC: Fisher, Linda [Linda.Fisher@hdrinc.com]
Subject: RE: Draft 60 TAF Operational Dead Pool Water Quality memo

Just getting this in front of everyone again.

John Spranza

D 916.679.8858 M 818.640.2487

From: Spranza, John
Sent: Friday, February 4, 2022 12:04 PM
To: Erin Heydinger (Erin.Heydinger@hdrinc.com) <Erin.Heydinger@hdrinc.com>; Laurie Warner Herson <laurie.warner.herson@phenixenv.com>; aforsythe (aforsythe@sitesproject.org) <aforsythe@sitesproject.org>
Cc: Fisher, Linda (Linda.Fisher@hdrinc.com) <Linda.Fisher@hdrinc.com>
Subject: Draft 60 TAF Operational Dead Pool Water Quality memo

Hi,
I have been working with ICF on potential water quality effects of a 60 TAF operational Deadpool and they have provided a brief memo on the potential effects, a link to the draft memo is below.

<https://sitesreservoirproject.sharepoint.com/EnvPlanning/Final%20EIREIS/Forms/AllItems.aspx?newTargetListUrl=%2FEnvPlanning%2FFinal%20EIREIS&viewpath=%2FEnvPlanning%2FFinal%20EIREIS%2FForms%2FAllItems%2Easpx&id=%2FEnvPlanning%2FFinal%20EIREIS%2FProject%20Description&viewid=971b8302%2D6601%2D492b%2Da68d%2Da30b52f676cb>.

Once you have a chance to review and comment, I'll get them to make edits and get this finalized. If you have any question please let me know.

John

John Spranza, MS, CCN
Senior Ecologist / Regulatory Specialist

HDR
2379 Gateway Oaks Drive, Suite 200
Sacramento, CA 95833
D 916.679.8858 M 818.640.2487
john.spranza@hdrinc.com

hdrinc.com/follow-us
hdrinc.com/follow-us

From: Spranza, John [John.Spranza@hdrinc.com]
Sent: 2/22/2022 9:19:40 AM
To: Alicia Forsythe [aforsythe@sitesproject.org]
CC: Briard, Monique [Monique.Briard@icf.com]; Williams, Nicole [Nicole.Williams@icf.com]; Fisher, Linda [Linda.Fisher@hdrinc.com]; Laurie Warner Herson [laurie.warner.herson@phenixenv.com]
Subject: RE: SITES - draft Planning Aid Memo, Technical Memo-REVISED
Flag: Follow up

Ali,
ICF provided a revised PAM response memo that took into account the initial comments Laurie and I had on the document. I reviewed the revisions and they look good, I have no further edits and have saved the latest version at the link below. Once you have had a chance to review it, and any comments you have addressed, we can coordinate with Reclamation as they inquired about its status this morning.

Please let Mike or I know if you have any questions.

[Planning Aid Memo](#)

John Spranza

D 916.679.8858 M 818.640.2487

From: Hendrick, Mike <Mike.Hendrick@icf.com>
Sent: Tuesday, February 22, 2022 8:48 AM
To: Spranza, John <John.Spranza@hdrinc.com>
Cc: Briard, Monique <Monique.Briard@icf.com>; Moderan, Julien <Julien.Moderan@icf.com>; Greenwood, Marin <Marin.Greenwood@icf.com>; Lecky, Jim <Jim.Lecky@icf.com>; Williams, Nicole <Nicole.Williams@icf.com>; Berryman, Ellen <Ellen.Berryman@icf.com>; Hendrick, Mike <Mike.Hendrick@icf.com>
Subject: SITES - draft Planning Aid Memo, Technical Memo

CAUTION: [EXTERNAL] This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

John,

Attached is a draft version of the PAM technical response memo.

It is arranged into three main response categories:

1. Upland Effects
2. In-River Effects
3. and Cumulative

Each category identifies 'Key Issues' from the USFWS' PAM, and our draft responses.

If there are any questions, let me know.

Thanks



MIKE HENDRICK

+1.530.514.6937 mobile

980 9th Street, Suite 1200, Sacramento, CA 95814 USA

[ICF Fish and Aquatic Science Team](#) | [LinkedIn](#)

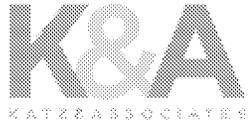
From: Sarah Rossetto [srossetto@katzandassociates.com]
Sent: 2/22/2022 3:14:27 PM
To: Kevin Spesert [kspesert@sitesproject.org]
CC: Sara M. Katz [skatz@katzandassociates.com]; Mariah Hugo [mhugo@katzandassociates.com]
Subject: RE: [Test] InSITES: Sites Reservoir Reaches Milestones in Environmental Review Process and with California Water Commission

Hi Kevin,

Checking in to see if we can distribute the e-blast below. We know the Annual Report will need to be released when it is ready next week, so we have a finite window for getting this e-blast out with enough notice before the Annual Report e-blast.

Let us know!

Thanks,
Sarah



Sarah Rossetto
Senior Director
d: 858.926.4007 • c: 530.304.8704
[San Diego](#) • [Los Angeles](#) • [San Francisco](#)

From: Sarah Rossetto
Sent: Thursday, February 17, 2022 5:38 PM
To: Kevin Spesert <kspesert@sitesproject.org>
Cc: Sara M. Katz <skatz@katzandassociates.com>; Mariah Hugo <mhugo@katzandassociates.com>
Subject: [Test] InSITES: Sites Reservoir Reaches Milestones in Environmental Review Process and with California Water Commission

Hi Kevin,

Below is the test e-blast for review and approval to distribute tomorrow. We received the environmental process article today (Ali has reviewed and signed off).

Please let us know if this is approved for distribution.

Thank you,
Sarah



Sarah Rossetto

Senior Director

d: 858.926.4007 · c: 530.304.8704

[San Diego](#) · [Los Angeles](#) · [San Francisco](#)

[View this email in your browser](#)



Sites Reservoir Reaches Milestone in Environmental Review Process

In accordance with the California Environmental Quality Act and the National Environmental Policy Act, the Sites Project Authority (Authority) and U.S. Bureau of Reclamation (Reclamation) released a Revised Draft Environmental Impact Report/Supplemental Draft Environmental Impact Statement (RDEIR/SDEIS) and initiated a public review and comment period on Nov. 12, 2021.

Public input is an essential part of the environmental review process. During the 77-day public review and comment period, the Authority and Reclamation held two virtual public

meetings and accepted comments on the environmental analysis presented in the RDEIR/SDEIS. All substantive comments received during the public comment period will be considered in the development of the Final EIR/EIS.

Visit sitesproject.org/environmental-review for additional information and to view the virtual public meeting presentation.



**JP ROBINETTE JOINS SITES PROJECT AUTHORITY AS ENGINEERING AND
CONSTRUCTION MANAGER**

The Sites Project Authority Board of Directors is pleased to announce the selection of JP Robinette as the Engineering and Construction Manager for the Sites Reservoir Project. This is a new position in the project organization and one that will have growing responsibilities as the engineering for the roads and bridges, dams, and conveyance facilities associated with the project ramps up in the coming years. Mr. Robinette will assume this role in March.

Read the entire news release [here](#).



CALIFORNIA WATER COMMISSION ISSUES FEASIBILITY DETERMINATION FOR SITES RESERVOIR

The California Water Commission yesterday determined that Sites Reservoir will continue to be eligible for funding through the state's Proposition 1 Water Storage Investment Program.

"The Water Commission's decision is an important milestone for the Sites Reservoir project, for the environment, California farms and families," said Fritz Durst, chairman of the Sites Project

Authority. Sites Reservoir is a unique water storage project because it will provide badly needed water for the environment during dry periods. The state's investment in Sites represents the first time California has secured dedicated water for the environment through surface storage. The environmental water from Sites would be managed by state resource agencies to address critical environmental needs.

Read the entire news release [here](#).

SITES IN THE NEWS

[Agri-Pulse: Republicans Pitch Water Infrastructure Fund](#)

Feb. 3, 2022

[CalMatters: With budget surplus, now is the time to fund vital water projects](#)

Feb. 1, 2022

[Sierra Sun Times: Sites Reservoir in Colusa County Clears a Critical Funding Hurdle, California Farm Bureau Reports](#)

Dec. 23, 2022

[Amid drought, California advances big new reservoir project](#)

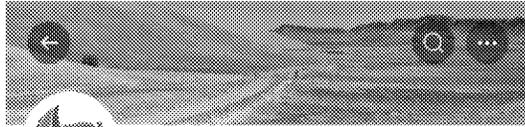
Dec. 15, 2021

CALIFORNIA NEEDS SITES RESERVOIR

Don't Forget: Our "[Build Sites Now](#)" video is live on our social media platforms and YouTube. Check it out and share the video with your team.

[WATCH VIDEO](#)

Connect with us!



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Sites Project

@SitesProject

Innovative and modern water storage project that secures long-term water sustainability and benefits CA's economy and environment now and into the future

Maxwell, CA sitesproject.org

Joined October 2016

1,712 Following 1,074 Followers



Followed by Christine A., PPIC Water, Jeffrey Kightlinger, and 65 others

Tweets

Tweets & replies

Media

Likes

Pinned Tweet



Sites Project @SitesProject · 20h

2021 was a significant year for Sites Reservoir:

- ☑ We launched the RDEIR/SDEIS and began the public comment process
- ☑ Received additional financial commitments from the federal government

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Sites Project

Nov 23, 2021 · 🌐

in addition to providing new water supplies for the environment, farms and people during dry years, Sites Reservoir also provides critical floo... See More



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Sites Reservoir

Learn more

73

16 Comments 11 Shares

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Sites Project Authority · P.O. Box 517 · Maxwell, CA 95955 · USA

U.S. Fish and Wildlife Service Concerns Identified in the 2021 Sites Reservoir Project Planning Aid Memorandum - Draft

The following are the initial concerns identified in the PAM:

- Provide greater specificity regarding potential mitigation lands or banks for each of the habitat types for which mitigation is proposed
- Provide a better description of how increases in Level 4 refuge water will be provided and the expected benefit to migratory birds
- More thorough analysis of geomorphic effects of flow reduction in the higher flow range on habitat (cut bank formation, cottonwood seed dispersion/regeneration processes, wood transport) and the sensitive species that use it (e.g., bank swallows, yellow-billed cuckoo).
- Additional review may be needed of the resource protection measures identified for habitats (e.g., riparian, upland, stream, and wetland) that could support special-status species including the listed valley elderberry longhorn beetle, red-legged frog, and several rare plants, which are potentially present within the impact area
- In general, whenever water diversions occur, there will be an associated loss of food organisms and sediment, incidental mortality of fish at the intake screen(s), and lower survival due to lower flows and related mechanisms (predation exposure, less inundated edge cover, less food production, less suspended sediment):
 - A. Flow criteria at Wilkins Slough (8,000 cfs [cubic feet per second] in April and May; 5,000 cfs in other months) is likely inadequate to protect downstream migrating salmon. Suggest consideration of Michel et al. (2021).
 - B. Need more thorough analysis of effects of habitat reduction on survival, weighted usable area (WUA) curves do not disclose all effects associated with reduced flow
 - C. More complete analysis of effects of flow reductions on sturgeon migration
- The relationship between pulses and fish movement is not a precise relationship. Longer and more frequent flows may be necessary to protect downstream-migrating juvenile salmon
- Need to address pulses as a mechanism to initiate/attract adult salmon and sturgeon up stream.
- Provide a better explanation of effects and benefits of fall pulse flows into Yolo Bypass for plankton production and discussion of consequences of reduced flow into the bypass due to reduction in flows attributable to diversions at TCCA and GCID diversions
- Address expected increase in loss of fish at South Delta export facilities associated with July – September increases in Delta exports.
- More thorough analysis may be needed of the effects of exchanges on spawning and rearing habitat in the American and Feather Rivers
- Reclamation should consider the benefits of these other projects, how they would interact with the proposed project, and explain the sequence of construction/completion relative to the proposed project

From: Sara M. Katz [skatz@katzandassociates.com]
Sent: 2/22/2022 8:01:48 PM
To: Kevin Spesert [kspesert@sitesproject.org]; Sharon Han [shan@katzandassociates.com]
CC: Sarah Rossetto [srossetto@katzandassociates.com]
Subject: Sites Agenda Items for Tomorrow AM

Kevin has confirmed he would like to spend most of the time on the video clips. Other issues include:

Update from Kevin Spesert

Approval of Eblast

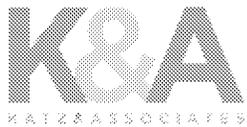
Video clip topic outline:

1. **Environmental Benefits** overall – use on a rainy day – savings account
2. **Key facts** about Sites Reservoir (almost a myths verses facts)
3. Fritz wants a video on the farming impacts (and employment) of not having water (i.e. in **Spanish for the farm worker audience**)
4. **Diversity of the investors** – hitting on the “private reservoir” narrative
5. **Jobs creation** – Labor union voices
6. **Megadrought** and the role Sites will play in the future
7. Not your grandfathers dam – **new way of managing water** – operational flexibility and environmental benefits
8. **Economics** for the Sac Valley – recreation, construction jobs, water supply during tough times
9. It takes a diverse portfolio of water to meet the **demands of climate change** – storage, conservation, recycling, etc. (Not THE answer, but part of the solution – MWD theme)
10. My other interest is **a virtual tour** of the Sites proposed reservoir – where it is located, what it would look like at buildout, showing it does not dam up a river.

Some of these themes might be able to be consolidated. But a series of clips that are about 45 seconds to 1 minute in length. If we have enough B roll, we could largely use voiceover talent and some additional graphics to tell the stories.

Video clip reviews – and discussion of native file from Steve Chollet, videographer

Other



Sara M. Katz
Founder/CEO
mobile: [619.813.9551](tel:619.813.9551)
[San Diego](#) · [Los Angeles](#) · [San Francisco](#)

From: Laurie Warner Herson [laurie.warner.herson@phenixenv.com]
Sent: 2/23/2022 6:40:08 AM
To: Alicia Forsythe [aforsythe@sitesproject.org]
CC: Linda Fisher (linda.fisher@hdrinc.com) [linda.fisher@hdrinc.com]
Subject: FW: Sites Final EIR/EIS - External PDFs of Comment Letters
Attachments: SRP_RSD_0017_MaxwellFD.pdf

See below. I think ICF's approach is ok for forwarded emails but wonder if we shouldn't delete more, eliminating the entirety of your email forwarding the comment. Similarly the attached would only include the Maxwell Fire District letter, without Kevin's email to us and my email forwarding to the EIR-EIS-Comments address. Please confirm your preference. Thank you !

From: Williams, Nicole <Nicole.Williams@icf.com>
Sent: Tuesday, February 22, 2022 2:47 PM
To: Laurie Warner Herson <laurie.warner.herson@phenixenv.com>
Cc: Davis, Susan <susan.davis@icf.com>; Linda Fisher (linda.fisher@hdrinc.com) <linda.fisher@hdrinc.com>; Briard, Monique <Monique.Briard@icf.com>
Subject: RE: Sites Final EIR/EIS - External PDFs of Comment Letters

Hi Laurie – we have someone that can do this. As a point of clarification, we'll be removing all highlight text below and resaving the pdf. Cheers, Nicole

SRP_RSD_0002

From: Alicia Forsythe <aforsythe@sitesproject.org>
Sent: Tuesday, November 23, 2021 2:44 PM
To: EIR-EIS-Comments
Subject: Fwd: Sites would be used to water Westland's poisoned lands and fill the Delta tunnel

Alicia Forsythe | Environmental Planning and Permitting Manager | Sites Reservoir Project | 916.880.0676 |
aforsythe@sitesproject.org | www.SitesProject.org

From: John Armstrong <armstrongj1@outlook.com>
Sent: Tuesday, November 23, 2021 12:22 PM
To: Alicia Forsythe
Subject: Sites would be used to water Westland's poisoned lands and fill the Delta tunnel

Sites would be used to water Westland's poisoned lands and fill the Delta tunnel. Screw that!

NICOLE L. WILLIAMS
Senior Environmental Planner
ICF
o 916.231.9614
icf.com

From: Williams, Nicole
Sent: Tuesday, February 22, 2022 2:20 PM

To: Laurie Warner Herson <laurie.warner.herson@phenixenv.com>; Briard, Monique <Monique.Briard@icf.com>
Cc: Davis, Susan <susan.davis@icf.com>; Linda Fisher (linda.fisher@hdrinc.com) <linda.fisher@hdrinc.com>
Subject: Sites Final EIR/EIS - External PDFs of Comment Letters

Hi Laurie –

I'm working with Susan to figure out if we have someone that could help with this task by Friday this week.

Would you want the files to have the internal alpha numeric code (e.g., SRP_XXX_###)? Presumably the Authority would eventually post pdfs with alpha numeric codes the website so people could see which code was on their letter (if they wanted to).

While there may not be many "internal transmittal emails" I think we'd need to check every file to make sure nothing was inadvertently released.

Cheers, Nicole

NICOLE L. WILLIAMS
Senior Environmental Planner
ICF
o 916.231.9614
icf.com

From: Laurie Warner Herson <laurie.warner.herson@phenixenv.com>
Sent: Tuesday, February 22, 2022 1:36 PM
To: Williams, Nicole <Nicole.Williams@icf.com>; Briard, Monique <Monique.Briard@icf.com>
Cc: Davis, Susan <susan.davis@icf.com>; Linda Fisher (linda.fisher@hdrinc.com) <linda.fisher@hdrinc.com>
Subject: RE: Sites Final EIR/EIS - Generate a list of comments/commenters

Hi Nicole,

Ali would like to share the RDEIR/SDEIS comments with outside parties. To do so, we need to remove internal email communications from the PDF files. We would eventually have to do this anyway since we plan to post these on the Authority's website.

Ali would like to share the files by the end of the week and I'd like to make sure whatever Ali shares is consistent with what we post to the website, if possible. Do you have someone that can clean up the files in the next couple of days. I don't think there are many that would need to be to have pages removed due to the extraneous materials.

Thank you,

Laurie

From: [Laurie Warner Herson](#)
To: [EIR-EIS-Comments](#)
Subject: FW: Maxwell Fire Department DEIR/EIS comment
Date: Tuesday, January 4, 2022 10:51:54 AM
Attachments: [Maxwell Fire Department DEIR-EIS comment 4Jan2022.pdf](#)

From: Kevin Spesert <kspesert@sitesproject.org>
Sent: Tuesday, January 4, 2022 10:49 AM
To: Alicia Forsythe <aforsythe@sitesproject.org>; Laurie Warner Herson <laurie.warner.herson@phenixenv.com>
Subject: Maxwell Fire Department DEIR/EIS comment

Ali & Laurie...

Attached is a DEIR/EIS comment from the Maxwell Fire Protection District Kenny Cohn....he brought it by the office before the Christmas break.

Kenny was concerned that the text in the document regarding the District's service area was incorrect and want to clarify it.

We will be receiving additional comment from the District before the close of the comment period.

Thanks!

Kevin

Kevin Spesert
External Affairs Manager
Sites Project Authority
Phone: 530.632.4071
Email: kspesert@sitesproject.org
Web: www.SitesProject.org
P.O. Box 517
122 Old Hwy 99W
Maxwell, CA 95955

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To whom it may concern

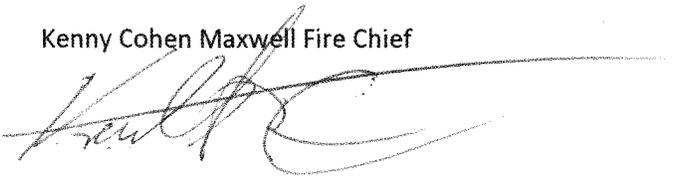
The Maxwell Fire protection district covers 208 Square miles {LAFCO} we cover from Glenn Colusa county line to Lurline rd and as far west as Rail Canyon rd and to the 2047 canal to the east.

We have 3 full time personal and 34 volunteer. MFPD is the only fire department in Colusa County that has an ambulance for patient transport to the hospital.

Part of the MFPD is within the state response area for wild fires and MFPD is the first to respond to all fires in the SRA until Cal fire arrives to assume command of the incident. MFPD is responsible for all non-fire emergency call within our district.

Thank you

Kenny Cohen Maxwell Fire Chief

A handwritten signature in black ink, appearing to read 'Kenny Cohen', written over a horizontal line.

From: Alicia Forsythe [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=A6CDF06A7E904B65BAA21702A82AD329-AFORSYTHE]
Sent: 2/23/2022 9:16:55 AM
To: Laurie Warner Herson [laurie.warner.herson@phenixenv.com]
CC: Linda Fisher (linda.fisher@hdrinc.com) [linda.fisher@hdrinc.com]
Subject: RE: Sites Final EIR/EIS - External PDFs of Comment Letters

I think my preference would be to include only the Maxwell Letter. Kevin's email sending it onto us is more for our record. But its not part of the comment.

So in the one below, I could go either way – to delete the entirety of my email forwarding it on or to just leave that in there as there is no content in it.

I think for consistency sake though, we should format these all the same and remove any forwarding information. So remove the stuff where Kevin sent on the Maxwell letter and show just the Maxwell letter in the one you attached. And for the one below – remove all of the forwarding information. It can show that the comment came into me and not show that I forwarded it onto the EIR-EIS email. That would keep all of these consistent in how they look and what tracking information we are providing.

If it's a big issue to remove the stuff in the email below since its part of the email chain, then I could be fine with leaving it for emails – just making sure that there is no other content than me simply forwarding it on (no commentary from me – but I am fine with my name and email signature in there).

In summary, I am flexible but would like to remove as much as possible and just have the comment letter – especially any non-comment text (like Kevin's email). We have all the back in tracking so we can see when these came in, etc. But the public doesn't need to see this.

Ali

Alicia Forsythe | Environmental Planning and Permitting Manager | Sites Project Authority | 916.880.0676 |
aforsythe@sitesproject.org | www.SitesProject.org

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Sent: Wednesday, February 23, 2022 6:40 AM
To: Alicia Forsythe <aforsythe@sitesproject.org>
Cc: Linda Fisher (linda.fisher@hdrinc.com) <linda.fisher@hdrinc.com>
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To: Laurie Warner Herson <laurie.warner.herson@phenixenv.com>
Cc: Davis, Susan <susan.davis@icf.com>; Linda Fisher (linda.fisher@hdrinc.com) <linda.fisher@hdrinc.com>; Briard, Monique <Monique.Briard@icf.com>
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SRP_RSD_0002

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To: EIR-EIS-Comments
Subject: Fwd: Sites would be used to water Westland's poisoned lands and fill the Delta tunnel

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aforsythe@sitesproject.org | www.SitesProject.org

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Thank you,

Laurie

From: Sites Project Authority
Sent: Wednesday, February 23, 2022 11:30 AM
To: Alicia Forsythe
Subject: InSITES: Sites Reservoir Reaches Milestones in Environmental Review Process and with California Water Commission

[View this email in your browser](#)



Sites Reservoir Reaches Milestone in Environmental Review Process

In accordance with the California Environmental Quality Act and the National Environmental Policy Act, the Sites Project Authority (Authority) and U.S. Bureau of Reclamation (Reclamation) released a Revised Draft Environmental Impact Report/Supplemental Draft Environmental Impact Statement (RDEIR/SDEIS) and initiated a public review and comment period on Nov. 12, 2021.

Public input is an essential part of the environmental review process. During the 77-day public review and comment period, the Authority and Reclamation held two virtual public meetings and accepted comments on the environmental analysis presented in the RDEIR/SDEIS. All substantive comments received during the public comment period will be considered in the development of the Final EIR/EIS.

Visit sitesproject.org/environmental-review for additional information and to view the virtual public meeting presentation.



**JP ROBINETTE JOINS SITES PROJECT AUTHORITY AS ENGINEERING
AND CONSTRUCTION MANAGER**

The Sites Project Authority Board of Directors is pleased to announce the selection of JP Robinette as the Engineering and Construction Manager for the Sites Reservoir Project. This is a new position in the project organization and one that will have growing responsibilities as the engineering for the roads and bridges, dams, and conveyance facilities associated with the project ramps up in the coming years. Mr. Robinette will assume this role in March.

Read the entire news release [here](#).



CALIFORNIA WATER COMMISSION ISSUES FEASIBILITY DETERMINATION FOR SITES RESERVOIR

The California Water Commission yesterday determined that Sites Reservoir will continue to be eligible for funding through the state's Proposition 1 Water Storage Investment Program.

"The Water Commission's decision is an important milestone for the Sites Reservoir project, for the environment, California farms and families," said Fritz Durst, chairman of the Sites Project Authority. Sites Reservoir is a unique water storage project because it will provide badly needed water for the environment during dry periods. The state's investment in Sites represents the first time California has secured dedicated water for the environment through surface storage. The environmental water from Sites would be managed by state resource agencies to address critical environmental needs.

Read the entire news release [here](#).

SITES IN THE NEWS

[Agri-Pulse: Republicans Pitch Water Infrastructure Fund](#)

Feb. 3, 2022

[CalMatters: With budget surplus, now is the time to fund vital water projects](#)

Feb. 1, 2022

[Sierra Sun Times: Sites Reservoir in Colusa County Clears a Critical Funding Hurdle, California Farm Bureau Reports](#)

Dec. 23, 2022

[Amid drought, California advances big new reservoir project](#)

Dec. 15, 2021

CALIFORNIA NEEDS SITES RESERVOIR

Don't Forget: Our "[Build Sites Now](#)" video is live on our social media platforms and YouTube. Check it out and share the video with your team.

[WATCH VIDEO](#)

Connect with us!



Following

Sites Project

@SitesProject

Innovative and modern water storage project that secures long-term water sustainability and benefits CA's economy and environment now and into the future

Maxwell, CA sitesproject.org

Joined October 2016

1,712 Following 1,074 Followers



Followed by Christine A., PPIC Water, Jeffrey Kightlinger, and 85 others

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Tweets & replies

Media

Likes

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Sites Project @SitesProject · 20h
2021 was a significant year for Sites Reservoir:

- We launched the RDEIR/SDEIS and began the public comment process
- Received additional financial commitments from the federal government

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Sites Project

Nov 23, 2021 ·

In addition to providing new water supplies for the environment, farms and people during dry years, Sites Reservoir also provides critical floo... [See More](#)



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Sites Reservoir

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73

16 Comments 11 Shares



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This email was sent to aforsythe@sitesproject.org

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Sites Project Authority · P.O. Box 517 · Maxwell, CA 95955 · USA

From: JP Robinette [jrobinette@sitesproject.org]
Sent: 2/23/2022 2:49:27 PM
To: Luu, Henry [henry.luu@hdrinc.com]
Subject: Re: Sites request for DSOD engagement

Henry,

Per our conversation, you can reach out to Erik to get the coordination going. Please cc me.

Thanks,
JP

From: Tapia, Sharon@DWR <Sharon.Tapia@water.ca.gov>
Sent: Wednesday, February 16, 2022 12:05 PM
To: JP Robinette <jrobinette@sitesproject.org>
Cc: Henry.luu@hdrinc.com <Henry.luu@hdrinc.com>; Malvick, Erik@DWR <Erik.Malvick@water.ca.gov>
Subject: RE: Sites request for DSOD engagement

Hi JP,

Thanks for reaching out to start coordinating a meeting for Sites Reservoir. We had been anticipating that our involvement in the project was forthcoming this year.

Erik Malvick, who is cc'd on this email, is the Branch Manager of the Design Engineering Branch. He oversees all application work through the design and application approval processes. He is the best person to contact to start coordination efforts.

I look forward to the upcoming meeting and establishing an effective working relationship between DSOD and your team on this project.

Sharon

From: JP Robinette <jrobinette@sitesproject.org>
Sent: Wednesday, February 16, 2022 11:37 AM
To: Tapia, Sharon@DWR <Sharon.Tapia@water.ca.gov>
Cc: Henry.luu@hdrinc.com
Subject: Sites request for DSOD engagement

Hello Sharon,

I am reaching out to you to provide an update on the Sites Reservoir Project. Members of our project team last met with you and other DSOD staff in early 2019 to discuss the Sites team, the project description, site conditions, project features, schedule and the path forward. Progress has been made since then on the project feasibility evaluation, and we are developing our approach for establishing project design criteria, engineering analyses, an extensive geotechnical investigation program, and preliminary designs that will be completed over the next couple of years.

We would like to request a briefing with you and your team on the Sites Reservoir Project sometime within the next two months, if possible. In advance of that meeting we would like to hold a call with DSOD's point of contact for the Sites Reservoir Project to discuss DSOD engagement, communication protocols, schedule, and

the agenda for the briefing. We would also like to discuss DSOD fees for the project and the anticipated payment schedule.

Please let me know who is best to coordinate with at DSOD – we look forward to working with you and your team to advance this project.

Thank you,

JP Robinette, PE

Engineering and Construction Manager | Sites Project Authority
801-819-4306

From: JP Robinette [jrobinette@sitesproject.org]
Sent: 2/23/2022 2:52:59 PM
To: Alicia Forsythe [aforsythe@sitesproject.org]
Subject: Fw: South Fork Willow Creek Ranch
Attachments: SRWCR.Map.pdf

Ali,

Pretty sure you are aware of this property, but forwarding in case this figure is helpful. This property, I believe, is owned by the Colusa Basin Drainage District. No action required.

Thanks,
JP

From: JP Robinette <JRobinette@BrwnCald.com>
Sent: Wednesday, February 9, 2022 1:49 PM
To: JP Robinette <jrobinette@sitesproject.org>
Subject: FW: South Fork Willow Creek Ranch

JP Robinette, PE*
Brown and Caldwell
JRobinette@brwncald.com
T 916.853.5312 | C 801.819.4306
*Professional Registration in Specific States

From: Michael Azevedo <mjazevedo@countyofcolusa.com>
Sent: Wednesday, February 09, 2022 10:40 AM
To: JP Robinette <JRobinette@BrwnCald.com>
Subject: South Fork Willow Creek Ranch

fyi..... Off of Hwy 162 in Glenn County



Michael J. Arvedo

Colusa County Public Works
530.458.0466

N

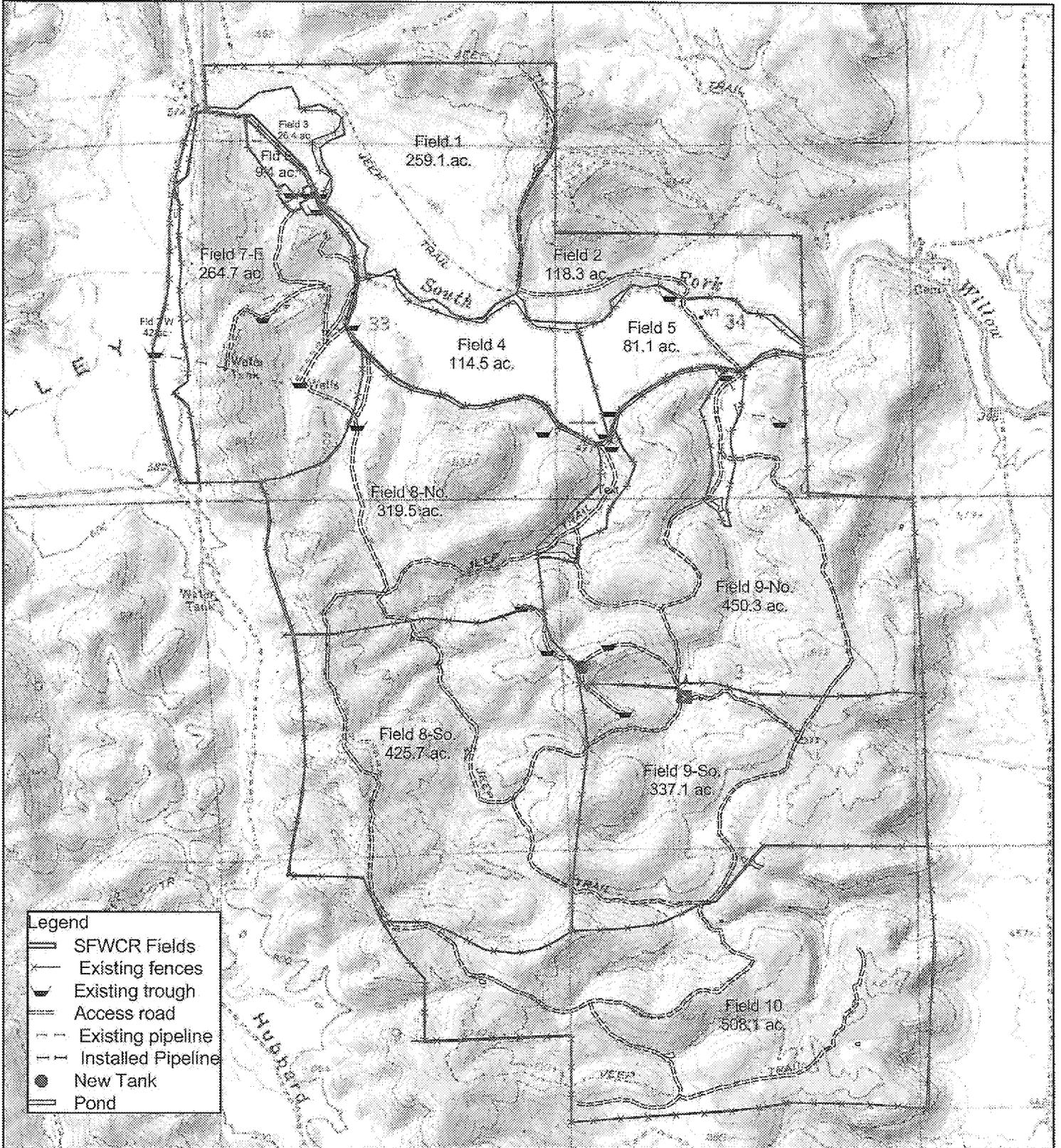


South Fork Willow Creek Ranch

Field Office, WILLOWS SERVICE CENTER
State and County, CA, GLENN
Agency NRCS

Existing Fields & Acres

Glenn County



- Legend**
- SFWCR Fields
 - Existing fences
 - Existing trough
 - Access road
 - Existing pipeline
 - Installed Pipeline
 - New Tank
 - Pond

0 500 1,000 2,000 3,000 4,000 Feet

Map scale 1:24,000
1" = 2000 ft

From: Laurie Warner Herson [laurie.warner.herson@phenixenv.com]
Sent: 2/23/2022 3:23:14 PM
To: Alicia Forsythe [aforsythe@sitesproject.org]; Spranza, John [john.spranza@hdrinc.com]; Heydinger, Erin [erin.heydinger@hdrinc.com]; Arsenijevic, Jelica [Jelica.Arsenijevic@hdrinc.com]; Risse, Danielle [Danielle.Risse@hdrinc.com]
CC: Linda Fisher (linda.fisher@hdrinc.com) [linda.fisher@hdrinc.com]
Subject: FW: Sites Reservoir Final EIR/EIS: Respondent List on Sites Authority Sharepoint Site

ICF has provided a list of all of the RDEIR/SDEIS commenters and associated information. This Respondent List is on SharePoint (see email from Nicole and link below).

From: Williams, Nicole <Nicole.Williams@icf.com>
Sent: Wednesday, February 23, 2022 1:23 PM
To: Laurie Warner Herson <laurie.warner.herson@phenixenv.com>
Cc: Linda Fisher (linda.fisher@hdrinc.com) <linda.fisher@hdrinc.com>; Davis, Susan <susan.davis@icf.com>
Subject: Sites Reservoir Final EIR/EIS: Respondent List on Sites Authority Sharepoint Site

Hi Laurie,

A respondent list is uploaded here:

<https://sitesreservoirproject.sharepoint.com/EnvPlanning/Final%20EIREIS/Forms/AllItems.aspx?id=%2FEnvPlanning%2FFinal%20EIREIS%2FRTC%5FInformation&viewid=971b8302%2D6601%2D492b%2Da68d%2Da30b52f676cb>

This excel file is a list of all individuals/organizations who submitted letters and information regarding the individual/organization. Please note:

- If you see multiple entries for a letter (e.g., Letter 72 or 66) is because multiple people signed the letter and we capture all signatures on a single letter
- If a cell is blank it means it's not applicable to that letter or the information was not provided

Please let me know if you have any questions.

Cheers, Nicole

NICOLE L. WILLIAMS | Senior Environmental Planner | (o) 916.231.9614 | (m) 530.867.0470 | nicole.williams@icf.com | icf.com
ICF | 980 9th Street Suite 1200 Sacramento CA 95814 |

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Please consider the environment before printing this e-mail.

From: Alicia Forsythe [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=A6CDF06A7E904B65BAA21702A82AD329-AFORSYTHE]
Sent: 2/24/2022 7:01:56 AM
To: JP Robinette [jrobinette@sitesproject.org]
Subject: RE: South Fork Willow Creek Ranch

Thanks JP. Always great to get this info!

Mike sent this to me a bit ago and we have this in our mitigation portfolio.

Ali

Alicia Forsythe | Environmental Planning and Permitting Manager | Sites Project Authority | 916.880.0676 |
aforsythe@sitesproject.org | www.SitesProject.org

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Colusa County Public Works
530.458.0466

From: Janis Offermann [janis@horizonh2o.com]
Sent: 2/24/2022 12:53:27 PM
To: Laverne Bill [LBill@yochadehe-nsn.gov]
CC: Alicia Forsythe [aforsythe@sitesproject.org]
Subject: Sites Reservoir 2022 Geotech Studies AB 52 notification
Attachments: Sites_AB 52_Formal Notification_YochaDehe_Roberts.pdf

Hi, Laverne

I just wanted to give you a heads up that the attached AB 52 project notification letter for the 2022 Sites Reservoir geotechnical studies was sent to Yocha Dehe a couple of weeks ago. I know that these letters go through certain protocols for processing, but since you are already consulting on the larger Sites Reservoir project and are involved with the current geotechnical studies, I wanted to let you know that it would be fine if you just want to shoot Ali a quick email saying that you received the letter and want to continue AB 52 consultation on the geotechnical studies. The email might save folks some time, though it is less formal. However, if your policy is to send the formal letter reply, that is, of course, OK. Either way, the response will be part of the official record. If you choose to email Ali, here is her address: aforsythe@sitesproject.org.

Thanks
janis

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Reservoir Operations Plan

Version 1.0

January 2022

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Attachments

- Attachment A. Sites Storage Partners
- Attachment B. Principles for the Storage, Delivery and Sale of Sites Reservoir Project Water
- Attachment C. Methodology for Allocating Reservoir Storage
- Attachment D. Modeling Assumptions for Participant Demands and Deliveries by Year Type
- Attachment E. Memorandum Identifying Modeled Criteria for Shasta Exchanges
- Attachment F. Memorandum Identifying Modeled Criteria for Oroville Exchanges

Version History

Version	Description	Date of Revision
1	Final	1/17/22

Acronyms and Abbreviations

Authority	Sites Project Authority
BiOp	Biological Opinion
CBD	Colusa Basin Drain
CDFW	California Department of Fish and Wildlife
cfs	cubic feet per second
COA	Coordinated Operation Agreement
CVP	Central Valley Project
CVPIA	Central Valley Project Improvement Act
D-1641	Decision 1641
Delta	Sacramento-San Joaquin River Delta
DWR	California Department of Water Resources
EIR	Environmental Impact Report
EIS	Environmental Impact Statement
GCID	Glenn-Colusa Irrigation District
HCPP	Hamilton City Pumping Plant
I/O	intake/outlet
MAF	million acre-feet
NMFS	National Marine Fisheries Service
NOD	North of Delta
O&M	Operations and Maintenance
PGP	Pumping Generating Plant
RBPP	Red Bluff Pumping Plant
Reclamation	Bureau of Reclamation
ROC on LTO	Reinitiation of Consultation on Long-Term Operations of the Central Valley Project and State Water Project
SCADA	Supervisory Control and Data Acquisition
SOD	South of Delta
SWP	State Water Project
SWRCB	State Water Resources Control Board
TAF	thousand acre-feet
TC Canal	Tehama-Colusa Canal
TCCA	Tehama-Colusa Canal Authority
TRR	Terminal Regulating Reservoir
WIIN	Water Infrastructure Improvements for the Nation
WSIP	Water Storage Investment Program

1.0 Definition of Terms

Key terms used in this Reservoir Operations Plan are defined below:

- ∞ **Active Storage** – That portion of Sites Reservoir above dead pool that can be exercised to create water supply-related benefits. The total maximum storage in Sites Reservoir is expected to be 1.5 million acre-feet (MAF). Firm dead pool storage, or the amount of water that cannot be effectively used, is expected to be about 60 thousand acre-feet (TAF). However, operationally another 60 TAF would likely be needed to prevent water quality issues in the storage releases. Therefore, the operational dead pool, or the minimum amount of water needed to maintain operational standards, is considered to be 120 TAF. For this plan, the active storage for Sites Reservoir is considered to be about 1.38 MAF.
- ∞ **CalSim II (CalSim)** – A generalized reservoir-river basin simulation model. The model used and presented in this document is the Reclamation/California Department of Water Resources CalSim II planning model that simulates the coordinated operation of the CVP and SWP over a range of hydrologic conditions. The model is run on a monthly timestep.
- ∞ **Contract Year** – Period from, and including, January 1 of each calendar year through December 31 of the same year.
- ∞ **No Action Alternative (NAA)** – The system modeled without construction of the Project. The modeled results for the NAA include the same regulatory environment/baseline as that included in the with-project modeling.
- ∞ **Sites Project Authority (Authority)** – A joint powers authority established to exercise powers common to the Authority Members to, among other things, effectively study, promote, develop, design, finance, acquire, construct, manage, and operate Sites Reservoir and related facilities such as recreation and power generation.
- ∞ **Sites Reservoir Project (Project)** – Dams, reservoirs, certain associated diversion and conveyance facilities, and other associated facilities, mitigation lands, and water right owned and operated by the Authority.
- ∞ **Project Releases versus Deliveries** – Project releases are defined as the amount of water that is released from storage. Project deliveries include estimated carriage losses in the Sacramento-San Joaquin River Delta and Yolo Bypass. No losses are calculated for local participant deliveries north of the Delta, thus releases are equal to deliveries for those Storage Partners.
- ∞ **Storage Allocation** – Amount of storage space (storage volume) in Sites Reservoir allocated to a Storage Partner, as agreed upon in that Storage Partner’s Sites Reservoir Benefits and Obligations Contract. Dead storage is not allocated to any Storage Partner.
- ∞ **Storage Partner** - The governmental agencies, water organizations and others who have funded and received a Storage Allocation in Sites Reservoir and the resulting water supply or water supply related environmental benefits from the Project. Storage Partners could include local agencies, the State of California, and the Federal Government (see Attachment A for a full list based on 2021 participation).
- ∞ **Water Year** – Period from October 1 through September 30.
- ∞ **Water Year Type** – Classified water year based on the Sacramento Valley 40-30-30 Water Year Hydrological Classification Index, in accordance with the State Water Resources Control Board (SWRCB) Water Year Hydrologic Classification, presented in D-1641.

2.0 Introduction and Approach

The Sites Reservoir Project (Project) is a proposed 1.5 million acre-feet (MAF) offstream reservoir located west of the community of Maxwell, California. The Project would use existing infrastructure to divert unregulated and unappropriated flow from the Sacramento River at Red Bluff and Hamilton City and would convey water to the reservoir. New and existing facilities would move water into and out of the reservoir. Releases from Sites Reservoir would be made to the Glenn Colusa Irrigation District (GCID) Main Canal and the Tehama-Colusa (TC) Canal. Releases to the TC Canal could be diverted for use or could flow farther downstream to either the Yolo Bypass via the Knights Landing Ridge Cut or back to the Sacramento River via the Knights Landing Outfall Gates and ultimately be exported through the Sacramento-San Joaquin River Delta (Delta) for use in and south of the Delta. Figure 1 and Figure 2 show the location of the Project and its facilities.

The Sites Project Authority (Authority) would own, govern, manage, and operate Sites Reservoir and related facilities. Organizationally, the Authority has established the Reservoir Committee to develop, through a partnership, both long-term and annual operational plans. The Reservoir Committee consists of Sites' Storage Partners, those entities and organizations that are funding and would receive water supply or water supply-related environmental benefits from the Project. For the purposes of this document, the term "Authority" collectively refers to the Sites Project Authority and the Reservoir Committee. The final roles and responsibilities of the Authority and the Reservoir Committee in the day-to-day operations of the Project have not been defined.

As defined in the Project's Revised Draft Environmental Impact Report (EIR)/Supplemental Draft Environmental Impact Statement (EIS) (November 2021), the objectives of the Project are as follows:

- ∞ Improve water supply reliability and resiliency to meet Storage Partners' agricultural and municipal long-term average annual water demand in a cost-effective manner for all Storage Partners, including those that are the most cost-sensitive.
- ∞ Provide public benefits consistent with Proposition 1 of 2014 and use Water Storage Investment Program (WSIP) funds to improve statewide surface water supply reliability and flexibility to enhance opportunities for habitat and fisheries management for the public benefit through a designated long-term average annual water supply.
- ∞ Provide public benefits consistent with the Water Infrastructure Improvements for the Nation (WIIN) Act of 2016 by using federal funds, if available, provided by the Bureau of Reclamation (Reclamation) to improve CVP operational flexibility in meeting CVP environmental and contractual water supply needs and improving cold pool management in Shasta Lake to benefit anadromous fish.
- ∞ Provide surface water to convey biomass from the floodplain to the Delta to enhance the Delta ecosystem for the benefit of pelagic fishes in the north Delta (e.g., Cache Slough).
- ∞ Provide local and regional amenities, such as developing recreational facilities, reducing local flood damage, and maintaining transportation connectivity through roadway modifications.

This document provides a detailed description of the operations of Sites Reservoir (or Sites). Operations of the Project would be flexible and adaptable to meet a wide range of water supply and environmental needs. Version 1 of this Operations Plan includes the operations as they have been identified as of December 2021. All project facilities and modeling results included in this document refer to Alternative 1B, as identified in the Revised Draft EIR/Supplemental Draft EIS. As permitting and water right conditions are finalized, this Plan will be revised and expanded.

It is important to note the following for the reader:

1. This Version 1.0 of the Operations Plan is framed around Alternative 1B, the Authority's Preferred Project in the Revised Draft EIR/Supplemental Draft EIS. As the environmental review process has not yet been completed, the Preferred Project, mitigation measures that may be relevant to water operations, and the selection of the Preferred Project itself may change. This Operations Plan in no way binds the Authority to certain operations, mitigation measures, or the selection of the Preferred Alternative itself. This Plan will be adjusted and revised to reflect the final outcomes of the environmental review process in future versions.
2. The results of the modeling for Alternative 1B conducted for the Revised Draft EIR/Supplemental Draft EIS are used in this Operations Plan and are based on CalSim modeling and are included for illustrative purposes only. While these are valuable building understanding of the operations of the project, it is important for the reader to remember that CalSim modeling is based on monthly timesteps and historic hydrology. Actual daily operations may vary. Daily modeling will be developed in the future, and future versions of this Plan will be modified accordingly.

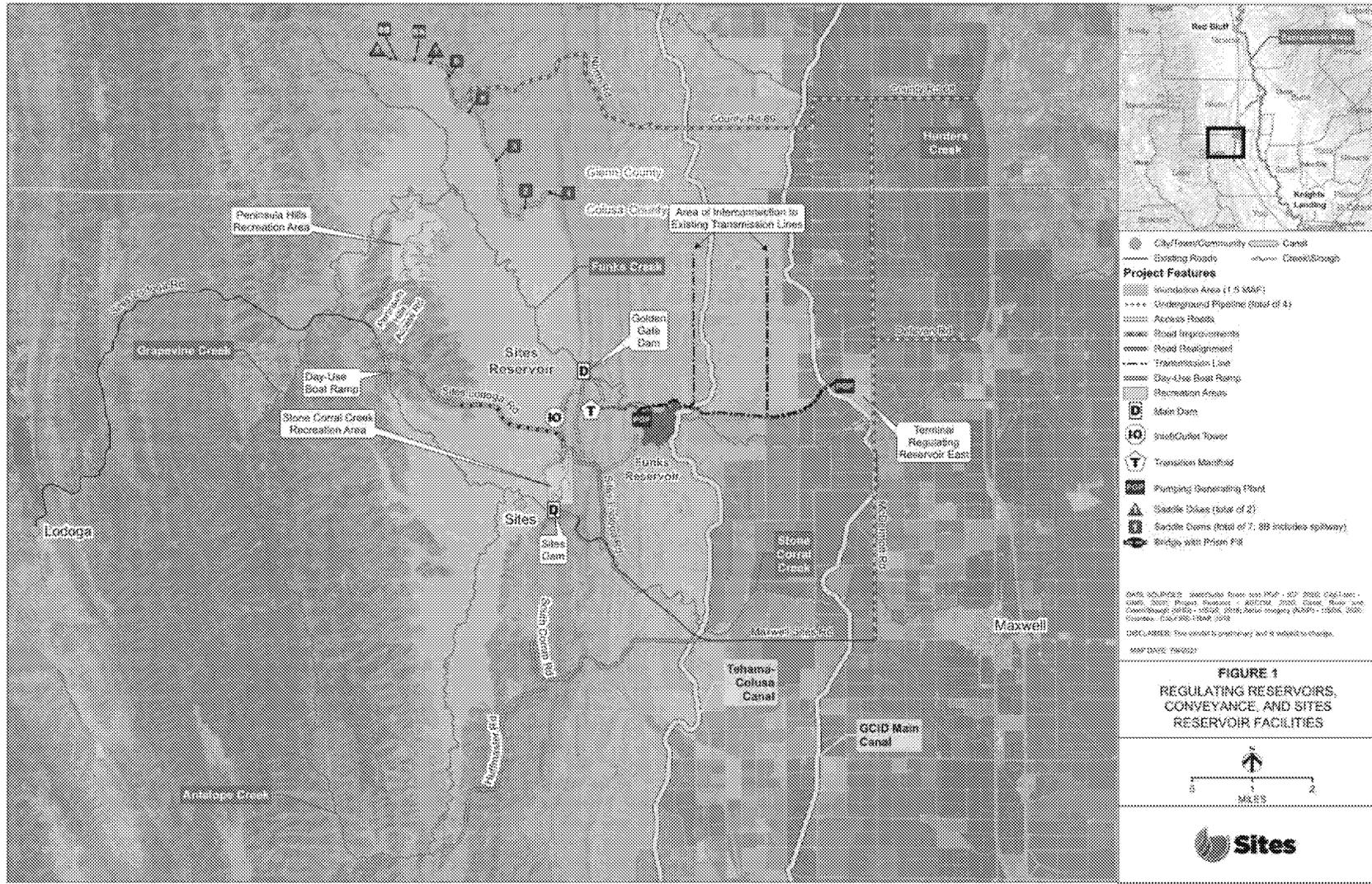


Figure 1. Regulating Reservoirs, Conveyance, and Sites Reservoir Facilities

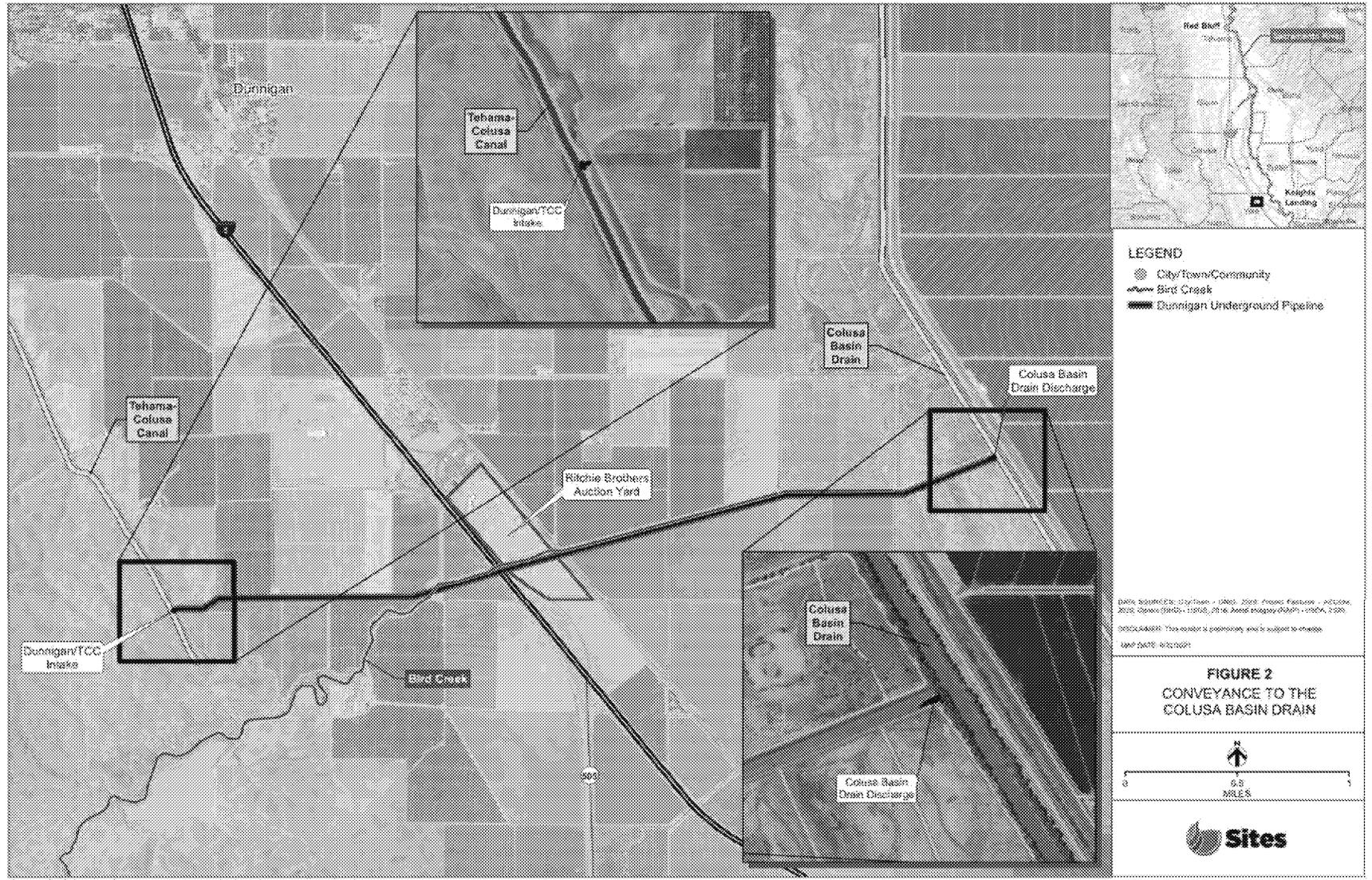


Figure 2. Conveyance to the Colusa Basin Drain

3.0 Operations Planning, Forecasting, and Accounting

3.1 Annual Operating Cycle

Figure 3 summarizes the annual operating cycle. The annual operating cycle depicts the timeline and requirements of components important to operations:

- ∞ Initial and final requests for releases from Storage Partners
- ∞ Timing of releases for north-of-Delta (NOD) and south-of-Delta (SOD) uses
- ∞ Timing of exchanges with DWR and Reclamation
- ∞ Coordination with TCCA, GCID, CDFW, and CBD entities

The annual operating cycle can be broadly divided into those times when the Project is diverting water, exchanging water (and releasing for NOD purposes), and releasing water SOD during the transfer window.

January

- Initial requests for Sites water provided by participants for delivery or transfer
- Coordination with GCID and TCCA on diversions

February

- Coordination with GCID and TCCA on diversions
- Final requests for Sites water releases before transfer window (further requests accommodated when possible)

March

- Sites begins releasing water for DWR and Reclamation exchanges
- Coordination with GCID and TCCA on diversions
- Coordination with CDFW on Prop 1 water deliveries
- Some releases for NOD use

April

- Final requests for Sites water releases to SOD (further requests accommodated when possible)
- Releases for NOD purposes
- Coordination with CDFW on Prop 1 water deliveries

May

- SOD participants notify DWR of final Sites requests for season
- Peak release month for exchange water
- Releases for NOD purposes
- Prop 1 water schedule finalized with CDFW

June

- Peak month for water backed into Oroville and Shasta
- Releases for NOD use
- Carriage water costs determined (proposed)



July

- Transfer window opens, SOD deliveries begin
- Water exchanged into Shasta and Oroville begins to release
- Key month: Coordination with TCCA, CBD, DWR on releases to river
- Coordination with Reclamation and DWR on exports
- Releases for NOD use

August

- Exports for SOD use
- Yojo Bypass Prop 1 deliveries
- Key month: Coordination with TCCA, CBD, DWR on releases to river
- Coordination with Reclamation and DWR on exports
- Releases for NOD use

September

- Exports for SOD use
- Key month: Coordination with TCCA, CBD, DWR on releases to river
- Yojo Bypass Prop 1 deliveries
- Coordination with Reclamation and DWR on exports
- Releases for NOD use

October

- Exports for SOD use
- Continued coordination with TCCA, CBD, DWR, Reclamation on releases and deliveries
- Releases for NOD use

November

- Last month for SOD exports
- Coordination with GCID and TCCA on diversions
- Releases for NOD use

December

- Coordination with GCID and TCCA on diversions

Figure 3. Annual Operating Cycle

3.2 Forecasting

Forecasting will be used to estimate the amount of water available to each Storage Partner in a given year. Project-specific forecasts will initiate in February and will be updated weekly. Forecasts will use the best available technology at the time of operations. This could include the California Department of Water Resources' (DWR's) 50 and 90 percent exceedances for Sacramento River flows. Forecasting for diversions is discussed in Section 4.3. Forecasts for Project operations will also include coordination with the CVP and SWP.

3.3 Real-time Tracking and Accounting

A Project dashboard will be developed that will allow the Authority, its operators, and the Storage Partners to track real-time Project operations and accounting. The dashboard will include the following metrics:

- ∞ Project diversions at Red Bluff and Hamilton City
- ∞ pumping into Sites Reservoir from Funks Reservoir and the Terminal Regulating Reservoir (TRR)
- ∞ local inflows and outflows from Stone Corral and Funks Creeks
- ∞ storage account levels, including transferred or leased storage
- ∞ reservoir levels
- ∞ requested releases
- ∞ actual releases
- ∞ power use and generation
- ∞ deliveries to turnout or export facilities
- ∞ exchanged water and location (including spill or carryover of exchange water)
- ∞ estimated losses, including conveyance, evaporation, and carriage water

The real-time dashboard will have the ability to summarize data at various timesteps (e.g., instantaneous data, prior week, prior month, year-to-date).

3.4 Year-end Accounting

Following the final deliveries, year-end accounting and true-up will be prepared. Metrics will be provided to Storage Partners and may also be used in the annual water right report. It is anticipated that this report will include a summary of requested releases from storage, actual deliveries, and estimated losses, including spills (or carryover, if allowable) of exchange water in either Shasta or Oroville. The year-end accounting will be available to Sites Storage Partners as they make their requests for Project water the following year.

3.5 Periodic Synthesis Reporting

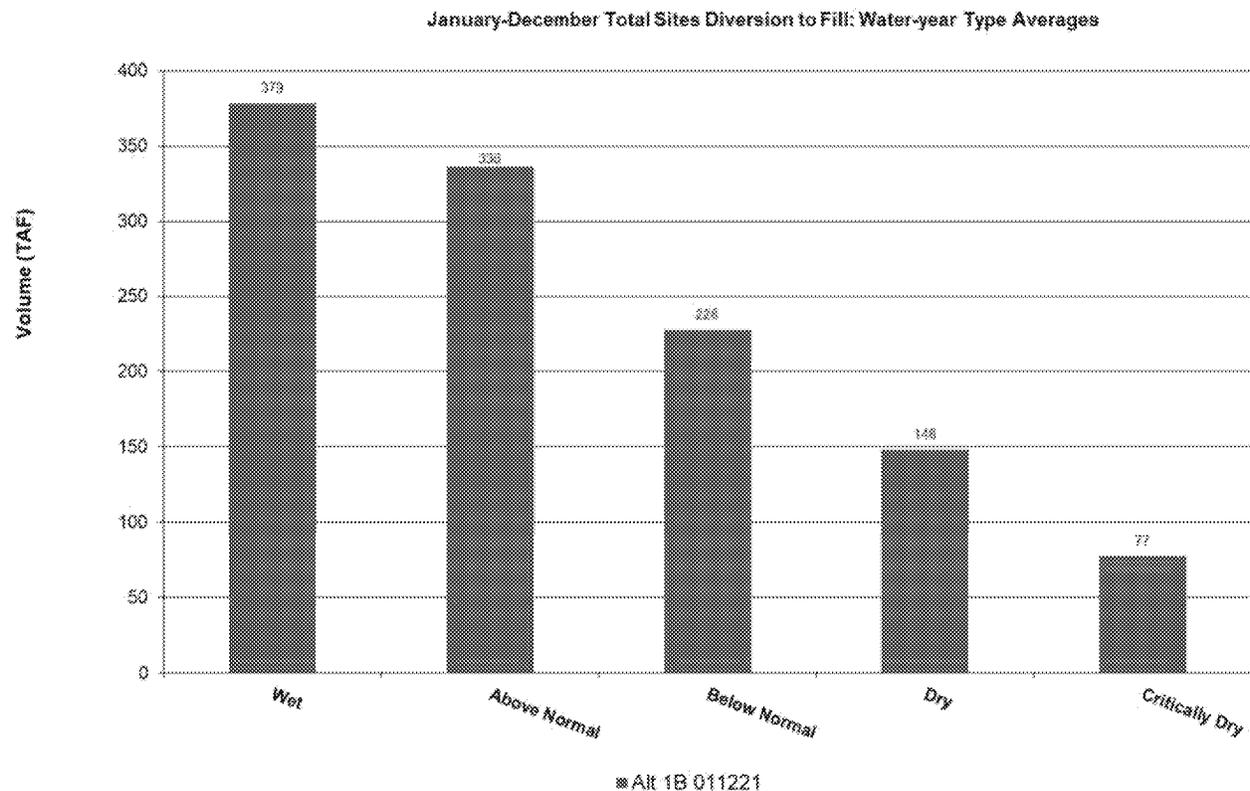
A synthesis report will be prepared by the Authority staff every 5 years, starting 5 years after initial operations of the Project. The synthesis report will evaluate the efficiency and effectiveness of Project operations, describe, at a minimum, challenges and opportunities that occurred over the prior 5 years of operations, and identify improvements to be implemented in the future, including potential changes to this Operations Plan. The Periodic Synthesis Report will incorporate feedback and assess satisfaction of the Storage Partners and operating partners (GCID, TCCA, CBD, DWR and Reclamation) with Project operations.

4.0 Diversions and Conveyance to Sites Reservoir

4.1 Overall Project Diversions

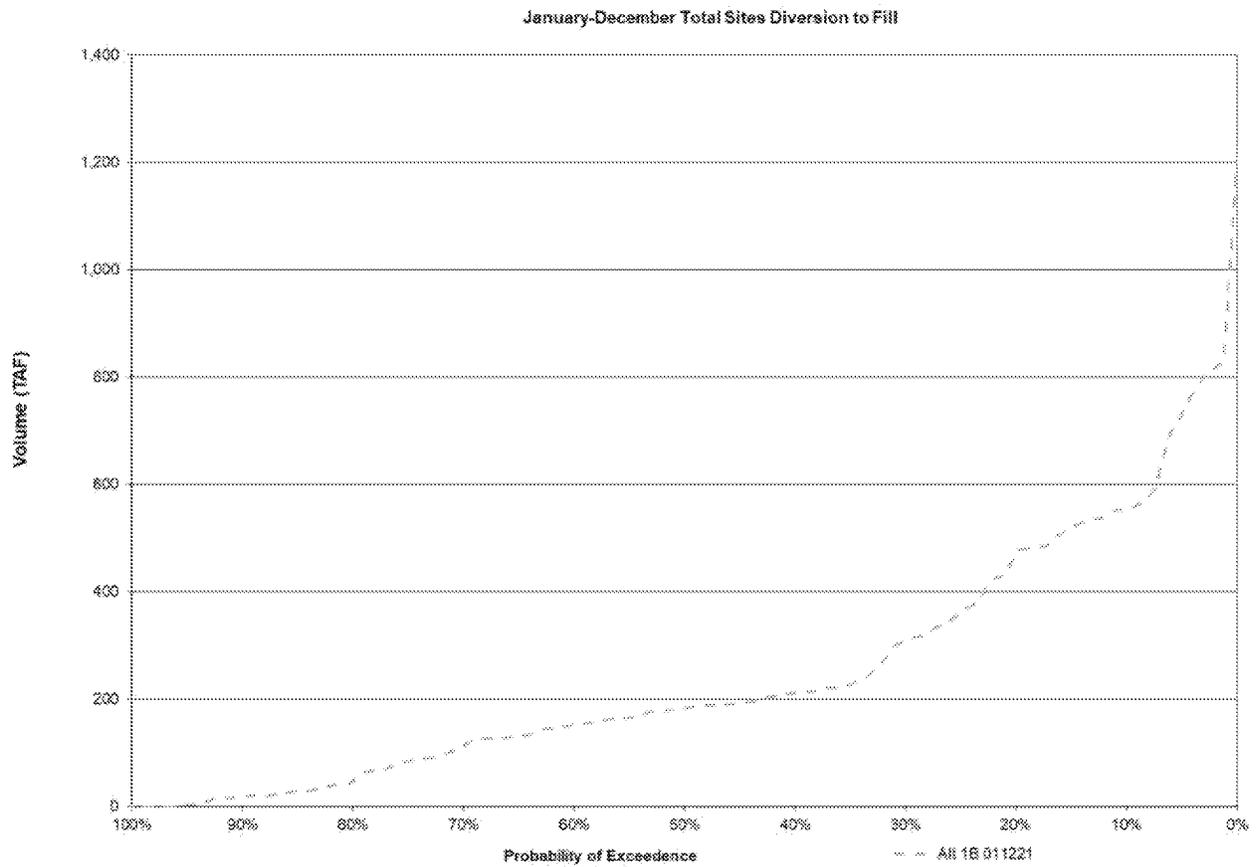
Project diversions would generally occur in the winter and early spring but could occur any time from October 1 through June 14. Project facilities can only be used to divert/fill or release from the Reservoir; simultaneous fill and release is not possible. In addition, and consistent with the expected Project water right, all water diverted under the Project water right must be placed into storage in Sites Reservoir and cannot be directly used (used for a beneficial purpose prior to being stored in Sites Reservoir).

The total diversions and timing for diversions based on the CalSim modeling conducted for the Revised Draft EIR/Supplemental Draft EIS are shown in Figure 4 to Figure 6. Figure 4 shows the total average diversions to Sites from the Sacramento River over the 82-year CalSim hydrology by water year type. Figure 6 depicts monthly averages; actual within-month diversions at the daily or weekly timescale are expected to vary. Daily modeling will be developed in the future, and future versions of this Plan will be modified accordingly.



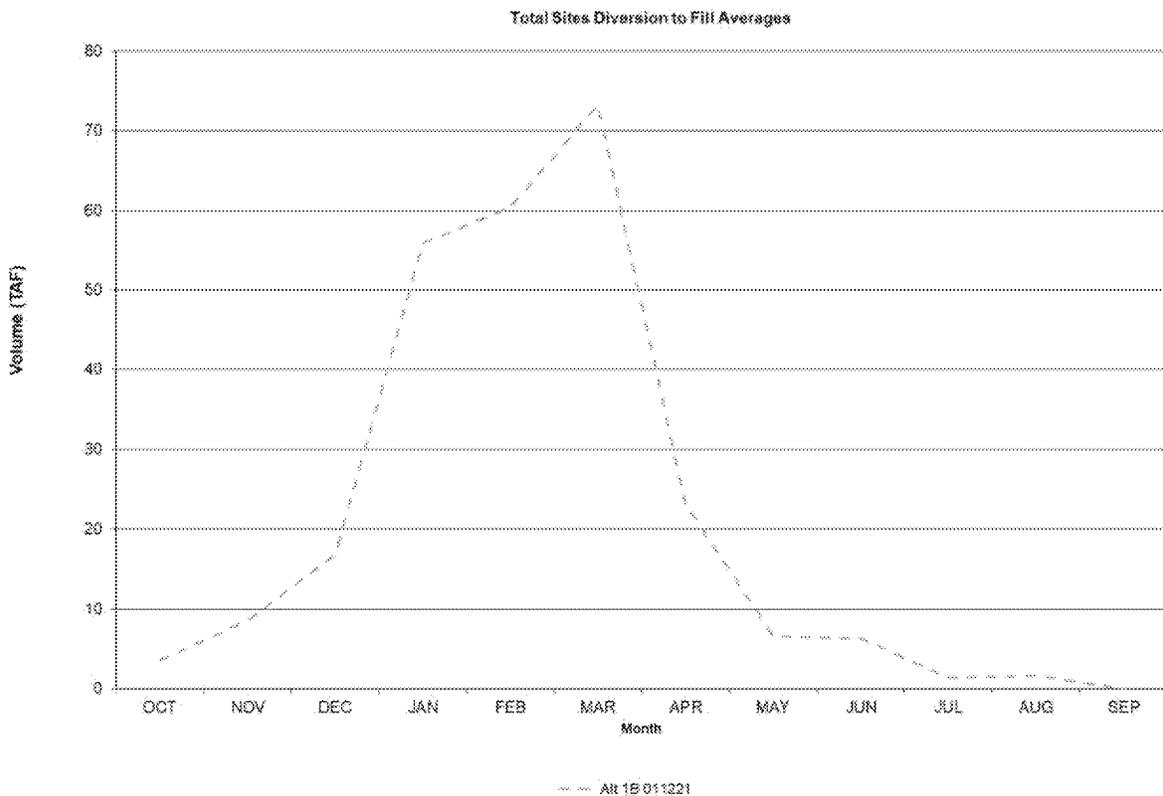
Water year type based on the Sacramento Valley 40-30-30 Water Year Hydrological Classification Index
Source: CalSim II modeling for Alternative 1B (Alt 1B 011221) in the Revised Draft EIR/Supplemental Draft EIS

Figure 4. January to December Total Sites Diversion to Fill: Water-year Type Averages



Source: CalSim II modeling for Alternative 1B (Alt 1B 011221) in the Revised Draft EIR/Supplemental Draft EIS

Figure 5. Exceedance plot of January to December Total Sites Diversion to Fill



Source: CalSim II modeling for Alternative 1B (Alt 1B 011221) in the Revised Draft EIR/Supplemental Draft EIS

Figure 6. Long-term Monthly Average of Total Sites Diversion to Fill

4.2 Diversion and Conveyance Facilities

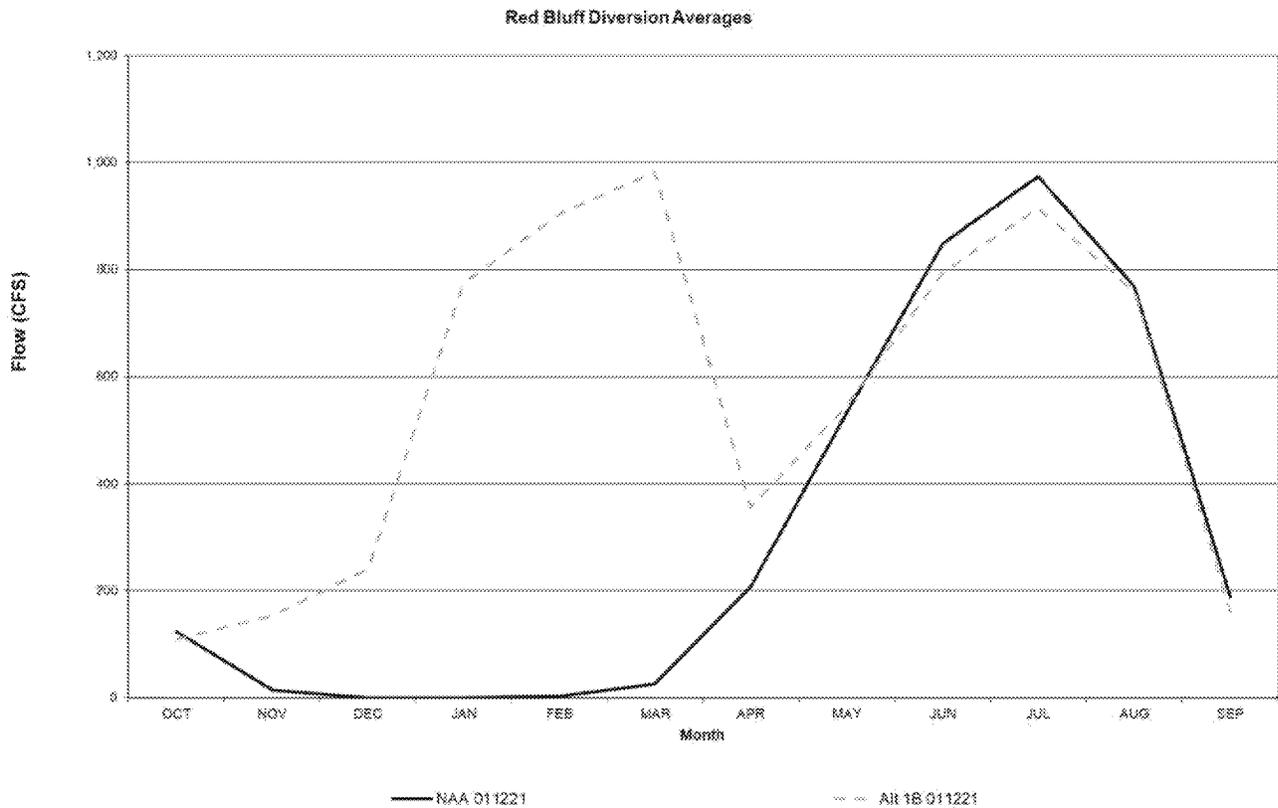
The following sections describe the diversion and conveyance facilities that may be used in the operation of the Project. The location of these facilities is shown in Figure 1. Facilities are described below in order of operational process (i.e., diversion, storage, release).

4.2.1 Red Bluff Pumping Plant, Tehama-Colusa Canal, and Funks Reservoir

The Project would divert water from the Sacramento River at the existing Red Bluff Pumping Plant (RBPP) and Hamilton City Pump Station (described below). Water diverted at the RBPP enters the TC Canal to be conveyed to Sites Reservoir. The RBPP and TC Canal are owned by Reclamation and operated by the Tehama-Colusa Canal Authority (TCCA). Diversions at the RBPP will be in addition to those occurring for TCCA members as part of their CVP contracts. The RBPP will have a capacity of 2,500 cubic feet per second (cfs) after capacity improvements are made to serve the Project. The facility has a fish screen that meets National Marine Fisheries Service (NMFS) and California Department of Fish and Wildlife (CDFW) criteria.

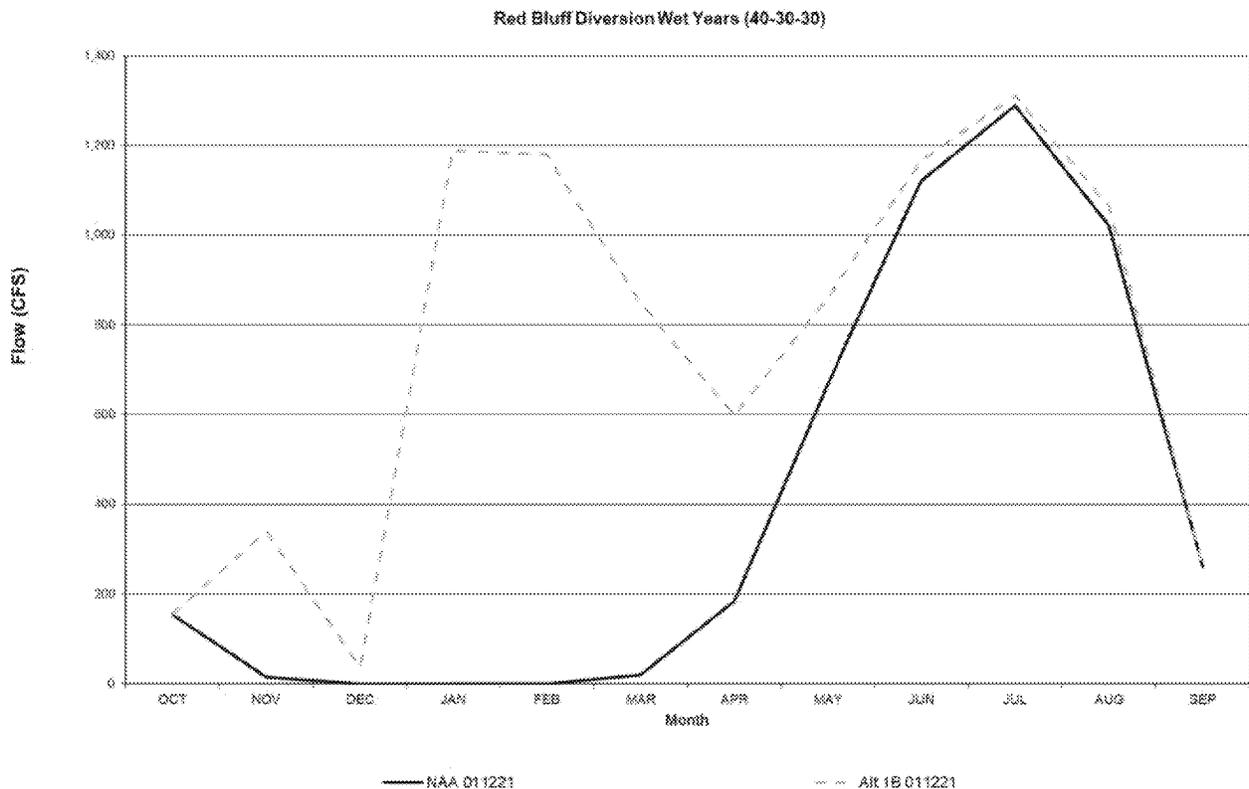
The total conveyance capacity of the TC Canal at the upstream end of the canal is 2,530 cfs and 2,100 cfs at Funks Reservoir (described below). Figure 7 shows average monthly diversions for all water year types at the RBPP with and without the Project. Figure 8 shows average monthly diversions in wet years when

diversions are highest. The figures depict the total diversions at the pumping facility for both TCCA and Sites purposes. The total diversions at Red Bluff in the summer months are modeled as decreasing slightly between the No Action Alternative (NAA 011221) and the with-project alternative (Alt 1B 011221) due to exchanges (e.g. TCCA members receiving CVP water from Sites rather than pumping it from the Sacramento River). Note that the figures show monthly averages; actual within-month diversions at the daily or weekly timescale are expected to vary. Daily modeling will be developed in the future, and future versions of this Plan will be modified accordingly.



Source: CalSim II modeling for Alternative 1B (Alt 1B 011221) in the Revised Draft EIR/Supplemental Draft EIS

Figure 7. Red Bluff Diversion Averages



Water year type based on the Sacramento Valley 40-30-30 Water Year Hydrological Classification Index
 Source: CalSim II modeling for Alternative 1B (Alt 1B 011221) in the Revised Draft EIR/Supplemental Draft EIS

Figure 8. Red Bluff Diversions in Wet Years

The TC Canal is concrete-lined, resulting in a relatively minor seepage losses during the conveyance of Sites water. Losses occurring between the RBPP and Sites Reservoir are estimated to be 1 percent. However, the actual losses incurred will be estimated by TCCA during Project operations. Losses in the TC Canal will be allocated on a daily basis proportionally to Storage Partners receiving diversions. The TC Canal is currently out of service for maintenance from mid-December to mid-February each year. This maintenance window is expected to be reduced once Sites Reservoir is constructed.

The existing Funks Reservoir will be used as a regulating reservoir to store water from the TC Canal for pumping to, and for release from, Sites Reservoir. Funks Reservoir will have an estimated storage capacity of 2,250 acre-feet following dredging to restore the regulating reservoir’s original design capacity. Funks Reservoir is currently drained from mid-December to mid-February during the canal maintenance period. It is not anticipated that Funks would be drained annually while Sites Reservoir is operational, besides potentially during the shortened canal maintenance window. Funks Reservoir operates at a water surface elevation of 200 to 205 feet, with a preferred operational water surface elevation range of 202 to 204 feet.

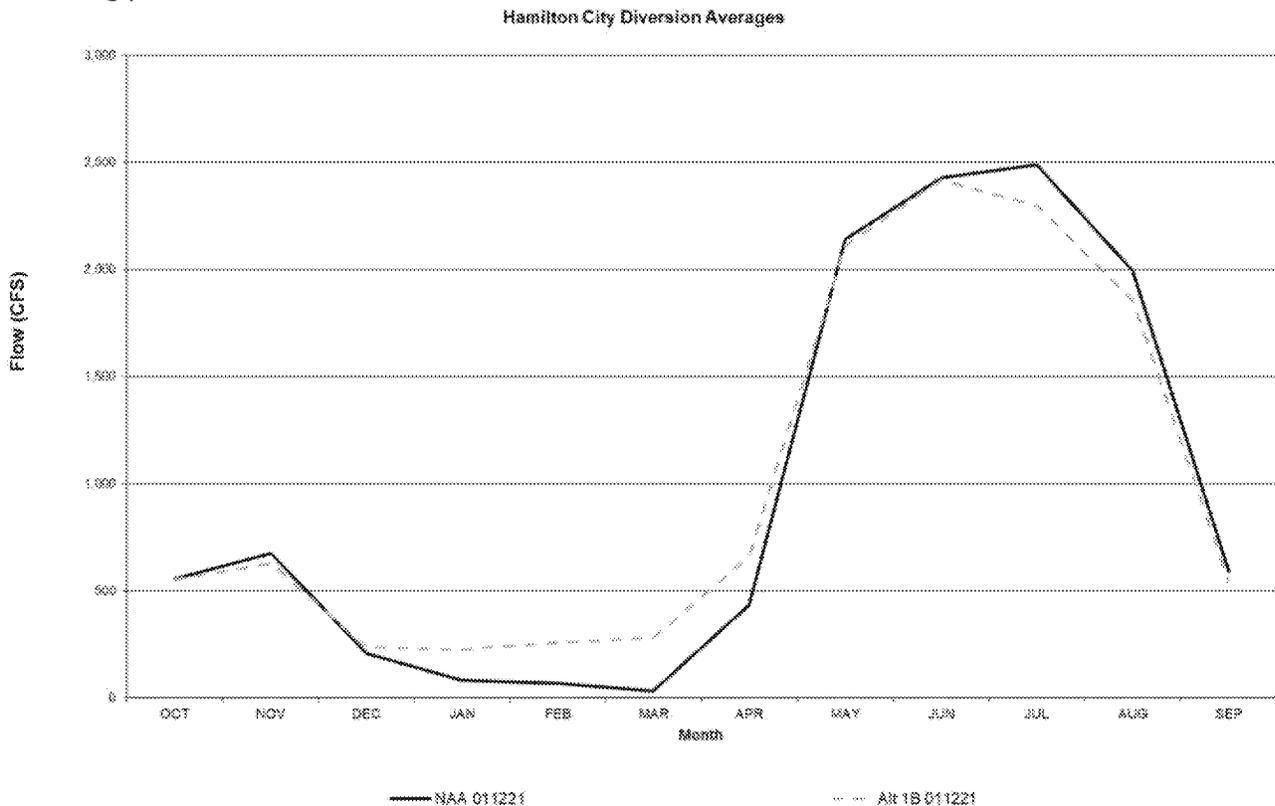
The newly constructed Funks Pumping Generating Plant (PGP) will be used to pump water from Funks Reservoir to Sites Reservoir with a pumping capacity of 2,100 cfs and a generating capacity of up to 2,000 cfs. The pumping generating plant will require a substation to provide electricity to the associated facilities. Two 12-foot-diameter underground Funks pipelines will convey water approximately 1 mile between the pumping generating plant and Sites Reservoir.

4.2.2 Hamilton City Pumping Plant, Glenn-Colusa Irrigation District Main Canal, and Terminal Regulating Reservoir

Water diverted from the Sacramento River at the existing Hamilton City Pumping Plant (HCPP) enters the GCID Main Canal. The HCPP and the GCID Main Canal are owned and operated by GCID. Diversions at the HCPP will be in addition to those occurring for uses in the GCID system but may be modified to accommodate exchanges with the Project when mutually agreed upon by GCID and the Authority (see Section 7.2 for further discussion on exchanges). The HCPP has a diversion capacity of approximately 3,000 cfs at the Sacramento River intake. The facility has a fish screen that meets NMFS and CDFW criteria.

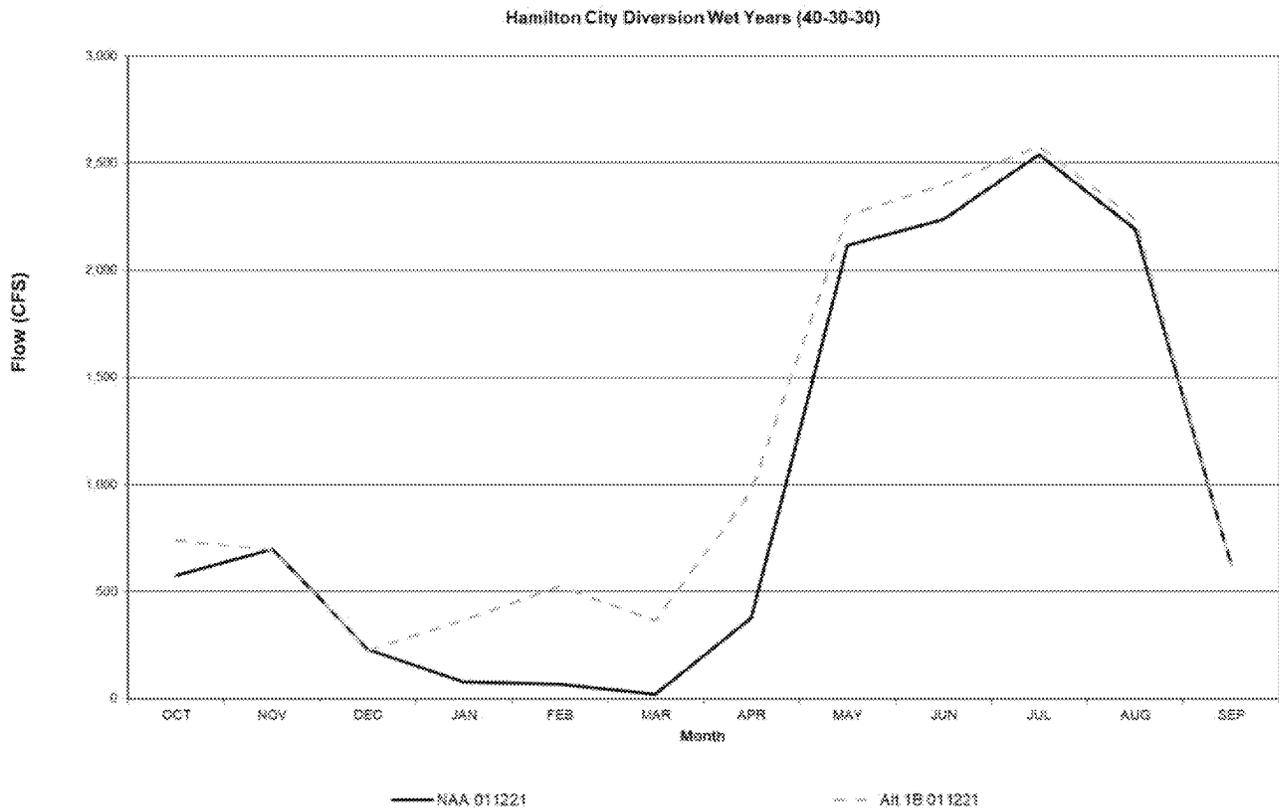
The total conveyance capacity of the GCID Main Canal is assumed to be 1,800 cfs at the Terminal Regulating Reservoir (TRR, described below). Figure 9 shows average monthly diversions for all water year types at the HCPP with and without the Project.

Figure 10 shows average monthly diversions in wet years when diversions are highest. The figures depict the total diversions at the pumping facility for both GCID and Sites purposes. The total diversions at the HCPP in the summer months are modeled as decreasing slightly between the NAA (NAA 011221) and the Alternative 1B (Alt 1B 011221) due to exchanges (e.g. GCID receiving water from Reclamation’s storage account in Sites rather than pumping from the Sacramento River). The figures depict monthly averages; actual within-month diversions at the daily or weekly timescale are expected to vary. Daily modeling will be developed in the future, and future versions of this Reservoir Operations Plan will be modified accordingly.



Source: CalSim II modeling for Alternative 1B (Alt 1B 011221) in the Revised Draft EIR/Supplemental Draft EIS

Figure 9. Hamilton City Diversion Averages



Water year type based on the Sacramento Valley 40-30-30 Water Year Hydrological Classification Index
 Source: CalSim II modeling for Alternative 1B (Alt 1B 011221) in the Revised Draft EIR/Supplemental Draft EIS

Figure 10. Hamilton City Diversion Wet Years (40-30-30)

The GCID Main Canal is unlined, resulting in larger seepage losses than the TC Canal during the conveyance of Sites water. Losses from the HCPP to Sites Reservoir are estimated to be 2 percent from November to March and 13 percent from April to October. However, the actual losses incurred from the HCPP to Sites Reservoir will be estimated by GCID during Project operations. Losses in the GCID Main Canal will be allocated on a daily basis proportionally to Storage Partners receiving diversions. Because the GCID Main Canal is unlined, it requires regular annual maintenance—during which time water cannot be conveyed using the canal. The assumed annual maintenance time is 2 weeks in late January or early February.

The newly constructed TRR will be a regulating reservoir up to 600 acre-feet constructed adjacent to the GCID Main Canal, approximately 3 miles northeast of Funks Reservoir. Two options for the TRR are being considered: TRR East and TRR West. Regardless of the alternative selected, the footprint of TRR would be approximately 100 acres. The TRR would have earthen embankments at the perimeter with impermeable lining consisting of a geomembrane overlying geocomposite placed over compacted earth. The TRR would be hydraulically connected to the GCID Main Canal to allow water to be conveyed to and from Sites Reservoir. The TRR would accommodate inflows of up to 1,800 cfs.

The newly constructed TRR Pumping Generating Plant (PGP) will be used to pump water from the TRR to Sites Reservoir with a pumping capacity of 1,800 cfs. The generating plant will have a capacity of 1,000 cfs.

Two 12-foot-diameter underground pipelines would convey water approximately 4 to 4.5 miles between the TRR PGP and Sites Reservoir.

4.3 Diversion Criteria

Sites Reservoir would be filled primarily through the diversion of Sacramento River flows that originate primarily from unregulated tributaries to the Sacramento River downstream from Keswick Dam. A relatively small amount of flow is assumed to be provided by flood releases or spills in wet years from Shasta Lake. Similarly, a small amount of water from Stone Corral and Funks Creeks will be impounded in Sites Reservoir. Sacramento River flows would be diverted at two locations on the Sacramento River, as described above. The following sections describe the existing regulatory environment under which the Project would operate, and the Project-specific diversion criteria that would be finalized through the permitting and water right process. It should be noted that the regulatory environment is not static and Project operations will be adjusted as needed to meet regulatory requirements that are in place during the time of operations.

4.3.1 System-wide Criteria and Regulations

The primary regulatory requirements that must be met prior to diversions are summarized below, at a high level. The requirements listed are those expected to regularly influence Project operations, but the list is not comprehensive. All diversion criteria, both system-wide and Project-specific, must be met for Project diversions.

- ∞ **Sacramento River is not fully appropriated:** The Sacramento River is considered to be fully appropriated from June 15 to August 31. Therefore, the Project will not divert during this window, regardless of river conditions or flows.
- ∞ **Excess conditions in the Delta:** The Delta is considered to be “in excess” when the sum of releases from upstream reservoirs plus unregulated flows are greater than Sacramento Valley in-basin uses plus exports. Excess conditions are determined by DWR and Reclamation; the Project can divert only when the Delta is in excess.
- ∞ **Senior Water Rights:** Existing CVP and SWP and other water right diversions, including other more senior excess flow priorities would take priority over the diversion of Sites water.
- ∞ **SWP Article 21, Reclamation Article 6F and 215:** The SWP contract and CVP contracts include provisions for deliveries above contract amounts in certain conditions. This water is generally available in wetter water year types or in higher flow conditions. The delivery of SWP Article 21 water, CVP Article 3(f), and CVP 215 water is senior to Project diversions and deliveries and would take priority over the movement of Project water.
- ∞ **SWRCB Decision 1641 (D-1641):** D-1641 and its amendment identify the implementation of water quality and flow objectives for the San Francisco Bay and Sacramento-San Joaquin Delta Estuary. Components of D-1641 expected to have the largest influence on Project operations include requirements for the Net Delta Outflow Index, operations of the CVP and SWP related to salinity and X2, and Delta water quality requirements.
- ∞ **SWP Incidental Take Permit:** The Project will operate so as to avoid affecting DWR’s ability to operate to the SWP Incidental Take Permit. In particular, the Authority will not impinge on DWR’s ability to conduct export curtailments for Spring outflow, provide 100 TAF for Delta outflow, or operate to the Delta Smelt Summer-Fall Habitat Action.
- ∞ **2019 Biological Opinions (2019 BiOps) for CVP and SWP:** The Project will operate so as to avoid affecting Reclamation’s ability to operate to the 2019 BiOps. The Authority will coordinate with Reclamation on exchanges to enhance Reclamation’s ability to operate to the 2019 BiOps. In

particular, the Authority will not impinge on Reclamation's ability to provide spring pulse flows, cold water pool preservation in Shasta, and fall flow stability in the Sacramento River downstream of Shasta Lake. The 2019 BiOps are currently under reconsultation. The outcome of this reconsultation will inform the Project's operations and will change the baseline operations of the system.

The Project will also be required to operate under any temporary restrictions on pumping put into place by SWRCB. One example of such a restriction is Term 91, when those holding certain permits and licenses must cease diverting water because water in excess of CVP and SWP storage releases is not available in the system. Term 91 is often implemented under drought conditions, when Project diversions are unlikely to occur due to other requirements such as bypass flows.

As noted above, the regulatory environment is not static. As such, Project operations will adjust as needed to meet regulatory requirements that are in place during the time of operations.

4.3.2 Project-specific Diversion Criteria

Bend Bridge Pulse Protection

Project implementation would include a pulse flow protection measure to be applied to all qualified precipitation-generated peaks in the hydrograph that originate primarily from tributaries to the Sacramento River that flow into the mainstem Sacramento River downstream of Keswick Dam from October through May. Project diversions from the Sacramento River would not occur during a qualified pulse event. Diversions are otherwise unrestricted by the Bend Bridge Pulse Flow protection criteria.

For modeling included in the Revised Draft EIR/Supplement Draft EIS, a qualified pulse flow is defined as follows:

1. Outmigration of anadromous fish is detected based on the Adaptive Management Plan and fish monitoring program; and,
2. The 3-day trailing average of Sacramento River flow at Bend Bridge exceeds 8,000 cfs, the 3-day trailing average tributary flow upstream of Bend Bridge (Cow, Cottonwood, and Battle Creeks) exceeds 2,500 cfs, and a pulse event the previous day was not already in a pulse event.

A pulse event terminates 7 days after initiation. After completion of a pulse event, the following conditions must occur before another pulse event is triggered:

1. The 3-day trailing average of Sacramento River flow at Bend Bridge was less than 7,500 cfs for 7 consecutive days, and,
2. The 3-day trailing average of tributary flow upstream of Bend Bridge (Cow, Cottonwood, and Battle Creeks) was less than 2,500 cfs for 7 consecutive days.

Figure 11 depicts the pulse flow protection criteria.

Sites Pulse Flow Protection

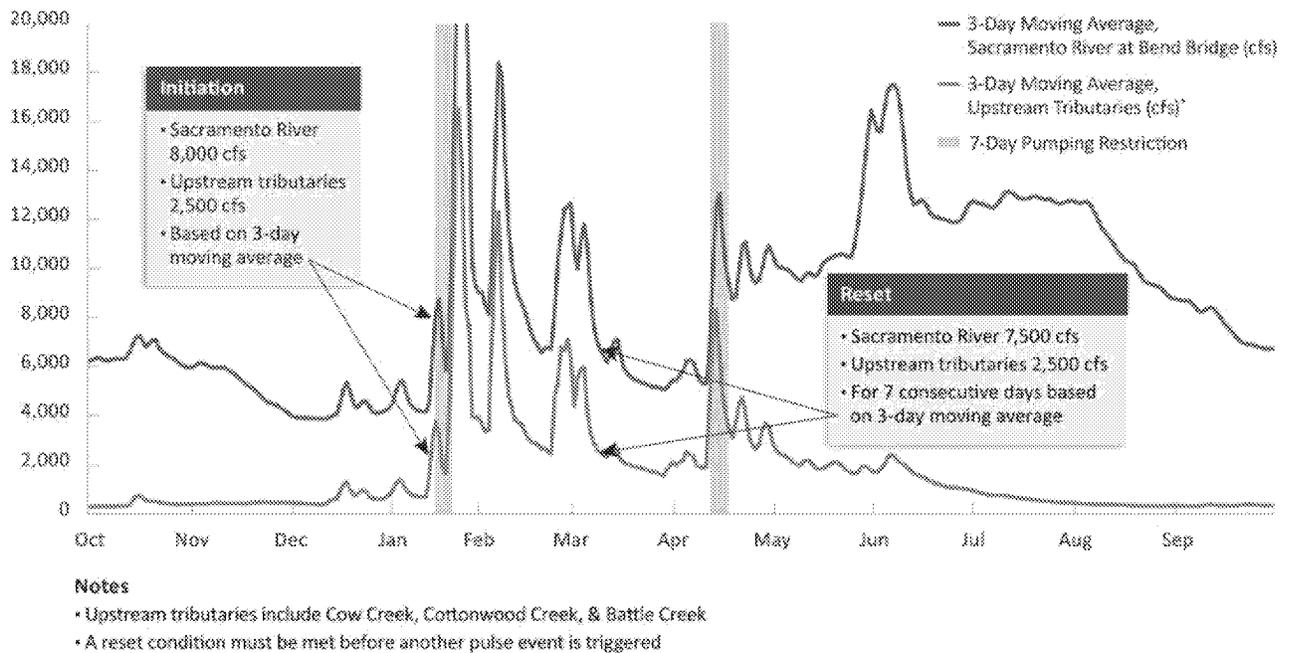


Figure 11. Sites Pulse Flow Protection

The pulse flow criteria described above align with those included in Project modeling for the RDEIR/SDEIS. Final pulse flow criteria are under development and will be revised as necessary in future versions of this Reservoir Operations Plan.

Wilkins Slough Bypass Criteria

A minimum bypass flow of 10,700 cfs in the Sacramento River at Wilkins Slough would be in place from March to May and 5,000 cfs during the rest of the Project diversion season (June, and September through February). The current flows at Wilkins Slough will be determined using information available on the California Data Exchange Center for the Sacramento River below Wilkins Slough (WLK) gage. Projected flows/forecasts will be determined either by using correlation between Colusa Bridge forecasts and Wilkins Slough flows or by working with the Sacramento River Forecast Center to develop projections specific to Wilkins Slough. Additional information on flow forecasting will be included in future versions of this Operations Plan.

Fremont Weir Notch Protections

The Project's diversion criteria have been formulated to avoid impacts on Reclamation's ability to meet its obligations in the 2019 NMFS BiOp to implement the Yolo Bypass Restoration Salmonid Habitat Restoration and Fish Passage Implementation Plan and inundate over 17,000 acres in the Yolo Bypass from December to April (NMFS 2019). For the purposes of modeling, diversions to Sites Reservoir may occur if no more than a 1 percent reduction in flow through the Fremont Weir Notch would result when flows through the Notch are less than 600 cfs. Project diversions may occur if no more than a 10 percent reduction in flow through the Fremont Weir Notch would occur when flows through the Notch are between 600 cfs and 6,000 cfs. When flows through the Fremont Weir Notch are greater than 6,000 cfs (when flows are over the Fremont Weir), there would be no restriction on Project diversions. These

limitations are intended to reduce changes to spill frequency and duration. The actual criteria used in operations related to the Fremont Weir Notch are being developed.

Red Bluff Pumping Plant

Diversions at the RBPP can occur only when flows in the Sacramento River are 3,300 cfs or higher, as measured at Bend Bridge. Diversions are limited because of the fish screen function to prevent entrainment of fish when diverting. Therefore, pumping ramps up as river flows increase, as shown in Figure 12. The minimum pumping rate is 80 cfs, which occurs when river flows are 3,300 cfs. The fish screen at RBPP is designed for 2,500 cfs, however the maximum pumping rate at Funks PGP into Sites Reservoir is 2,100 cfs. Therefore, the maximum diversions for the Project are 2,100 cfs plus losses. Pumping 2,100 cfs at Red Bluff requires a minimum river flow of 7,860 cfs.

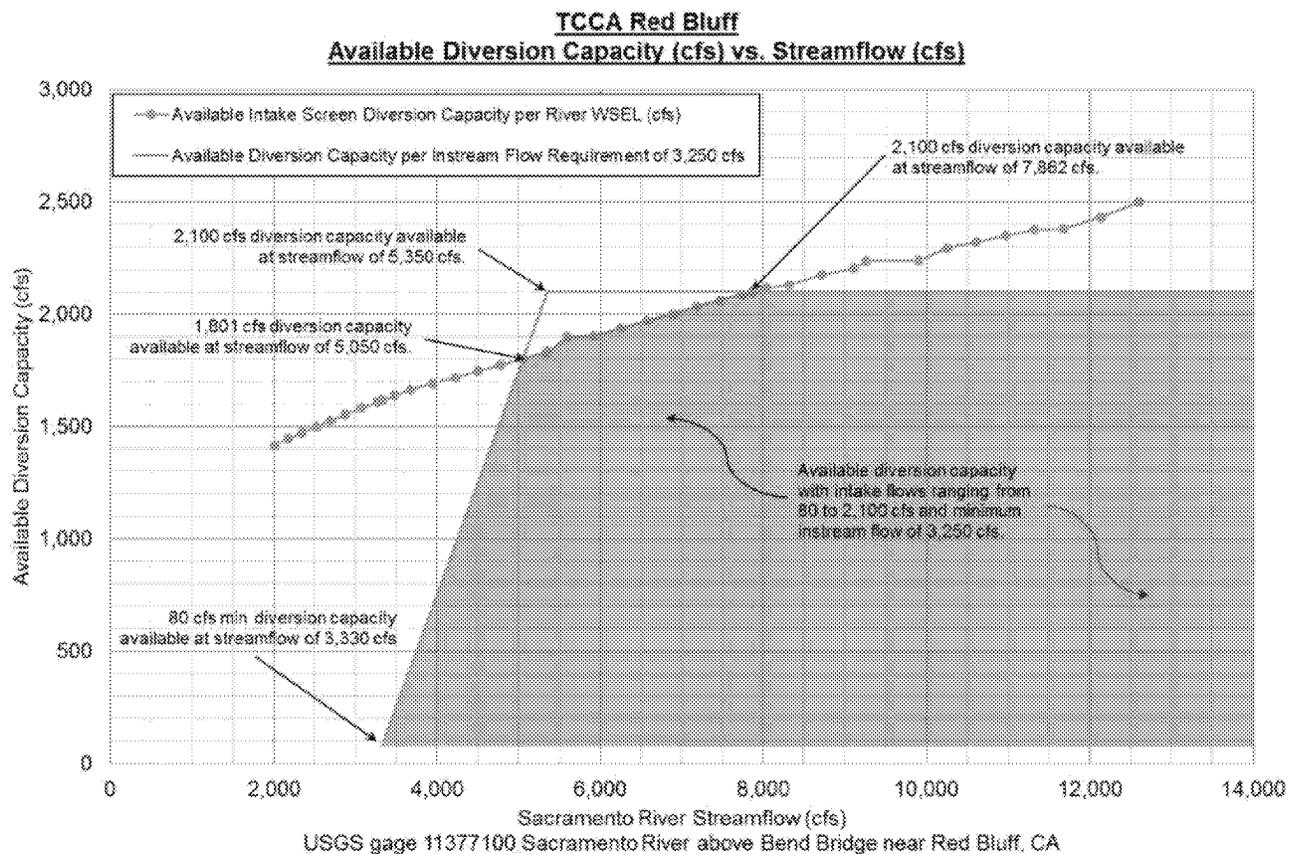


Figure 12. TCCA Red Bluff Available Diversion Capacity (cfs) vs. Streamflow (cfs)

Hamilton City Pumping Plant

Diversions at the HCPP can occur only when flows in the river are 4,150 cfs or higher, as measured at Bend Bridge. Diversions are limited on account of the fish screen function to prevent entrainment of fish when diverting. Therefore, pumping ramps up as river flows increase, as shown in Figure 13. The minimum pumping rate is 150 cfs, which occurs when river flows are 4,150 cfs. The maximum pumping rate at Hamilton City is 3,000 cfs, which requires a minimum river flow of 7,000 cfs. However, the pumping plant at the TRR has a capacity of 1,800 cfs. Therefore, it is unlikely that the full pumping capacity would be used to divert Project water alone.

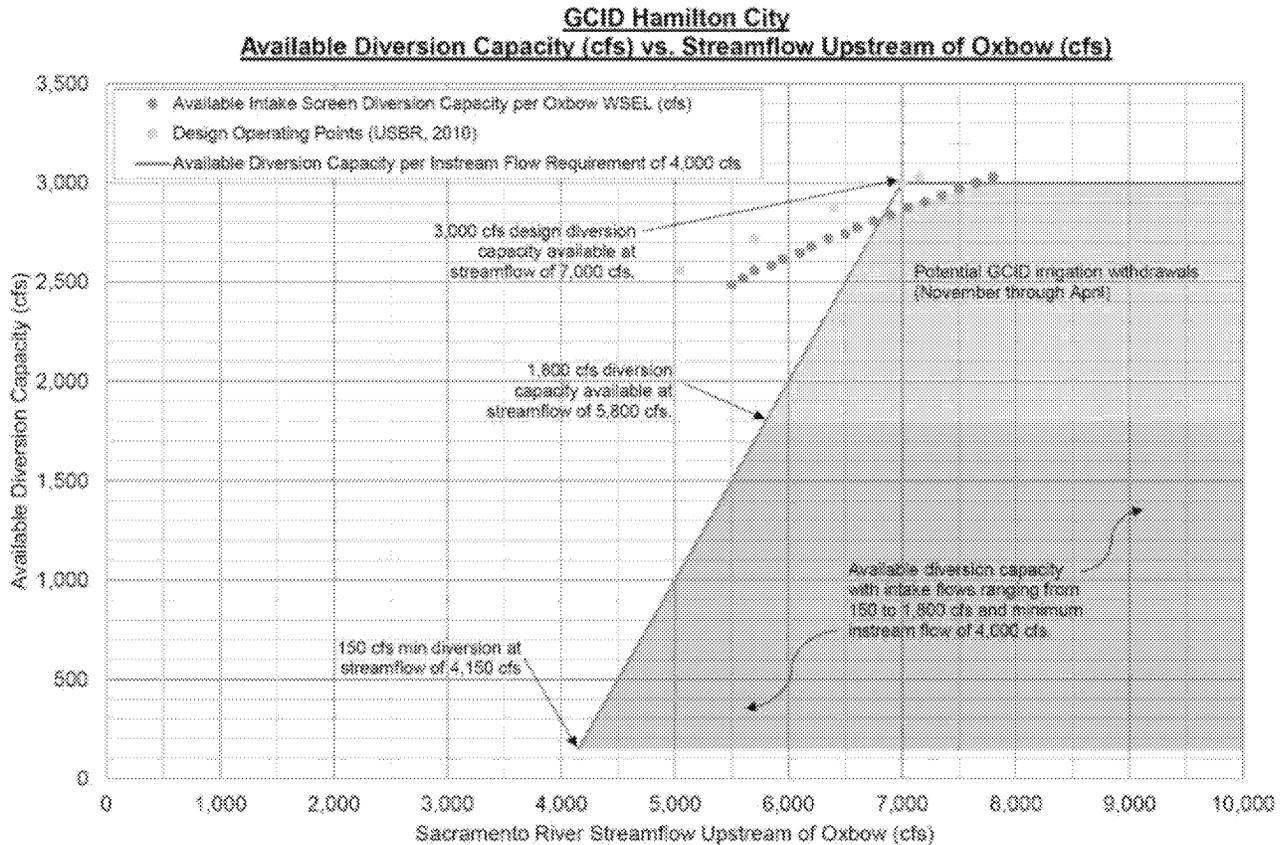


Figure 13. GCID Hamilton City Available Diversion Capacity (cfs) vs. Streamflow Upstream of Oxbow (cfs)

4.4 Diversion Orders

In accordance with the Principles for the Storage, Delivery and Sale of Sites Reservoir Project Water (Storage Principles, Attachment B), the Authority will attempt to maximize the appropriation of water into storage consistent with the regulatory requirements, physical constraints, and hydrologic conditions. The Authority will be responsible for compliance with water right provisions and other conditions that control the appropriation of water into storage in Sites Reservoir. Appropriated water from the Sacramento River will be placed into Sites Reservoir and then allocated into each Storage Partner's Storage Allocation proportional to their Storage Allocation. For example, if 340 TAF of water is appropriated into Sites in any one year, this represents 25 percent of the total allocated storage. In that year, each Storage Partner will receive an amount equal to 25 percent of their Storage Allocation, assuming their Storage Allocation space has at least 25 percent available/empty. Once a Storage Partners Storage Allocation is full, the remainder of the diversions will be allocated to the other Storage Partners.

Storage Partners may opt out of receiving diversions into their Storage Allocation. They can notify the Authority they wish to opt out at any time. Any diversions that occur within 1 week of notification (and the associated variable costs) will be allocated to other Storage Partners, if possible, but may be allocated to the Storage Partner who is opting out if the reservoir is otherwise full. If a Storage Partner

opts out of receiving diversions—assuming they have not leased their storage to another entity—all diversions will be allocated to other Storage Partners and the amount of unused storage space will remain empty until the Storage Partner notifies the Authority that they wish to receive diversions again.

4.4.1 Priority of Diversions

At this time, it is not anticipated that diversions will be prioritized to a specific Storage Partner or Storage Partner type. All diversions will be allocated proportionate to Storage Partners based on their Storage Allocation until that allocation is full. If a Storage Partner has no available Storage Allocation, the diversions will be proportionally allocated to those Storage Partners who do have storage capacity remaining in their Storage Allocation.

4.4.2 Diversions of Non-Sites Water

There are opportunities for Storage Partners to request non-Sites water (water not appropriated under the Project's water rights) be diverted and placed into their Storage Allocation. These other sources could include the following: the re-diversion of previously stored water, water transfers, exchange water, etc. The Authority will take all reasonable steps to facilitate these requests. The Storage Partner requesting such diversions will be responsible for the costs of obtaining/storing these other sources of water, including any costs associated with water right changes, environmental compliance, and Authority costs associated with reviews. In accordance with the Storage Principles, the Storage Partner requesting such diversions is responsible for all operations and maintenance (O&M) costs of placing this water into their Storage Allocation. Placing water into storage under the Project's water right will take priority over storing water from other sources.

5.0 Storage in Sites Reservoir

5.1 Losses from Storage

Losses from storage are expected to result from evaporation and seepage. The approach to assessing losses is yet to be determined; however, a mass balance or pan evaporation rate may be used. A mass balance estimate would include daily records of reservoir storage, diversions, rainfall, and spills (if applicable) to estimate daily losses. Pan evaporation uses temperature, humidity, rainfall, and wind to estimate the level of evaporation based on surface area. A combination of both methods could also be used.

Using the decided-upon methodology, losses of water held in Sites Reservoir storage—including evaporation and seepage—will be estimated on a daily basis. These losses will be allocated to each Storage Partner based proportionally on the amount of water in storage that day.

Sites CalSim modeling includes an estimate of net evaporation (precipitation minus evaporation) based on evaporation experienced in nearby reservoirs. Modeling shows an annual net evaporation rate of approximately 37 TAF.

5.2 Dead Pool

Sites Reservoir will have a dead pool of approximately 17,700 acre-feet, below which water cannot physically be removed from the reservoir using the intake/outlet (I/O) works. However, the Authority is currently planning to operate to a dead pool of up to 120 TAF under normal conditions to accommodate

water quality considerations. Current operations modeling assumes that the dead pool could be drawn down a further 60 TAF if the water does not return to the Sacramento River. The operational dead pool amount may be revised and reduced in final design and in real-time operations with water quality measurements over time.

5.3 Storage Allocation, Leasing, and Transfers

5.3.1 Storage Allocation

Sites Reservoir is allocated to each Storage Partner proportionate to their annualized acre-feet per year subscription. Because the State of California (State), through Proposition 1, and Reclamation, through the WIIN Act, participate based on available funding versus annualized acre-feet per year, the Storage Allocation for the State and Reclamation are calculated using a different methodology. The State is allocated the storage required to meet Proposition 1 benefits. At this time, the methodology for allocating storage to Reclamation is being developed, but the modeling to date assumes that Reclamation receives a Storage Allocation that is approximately commensurate with its proportionate cost-share in the Project. Based on the Authority's Preferred Project in the Revised Draft EIR/Supplemental Draft EIS, this results in assumed federal funding of 7 percent of Project costs. The modeling for this alternative assumes 6.6 percent of active storage in the reservoir is allocated to Reclamation. Figure 14 depicts the current Storage Allocation based on the Storage Partners participating in the Project as of December 2021 and aligned with the CalSim modeling developed for Alternative 1B in the Revised Draft EIR/Supplemental Draft EIS.

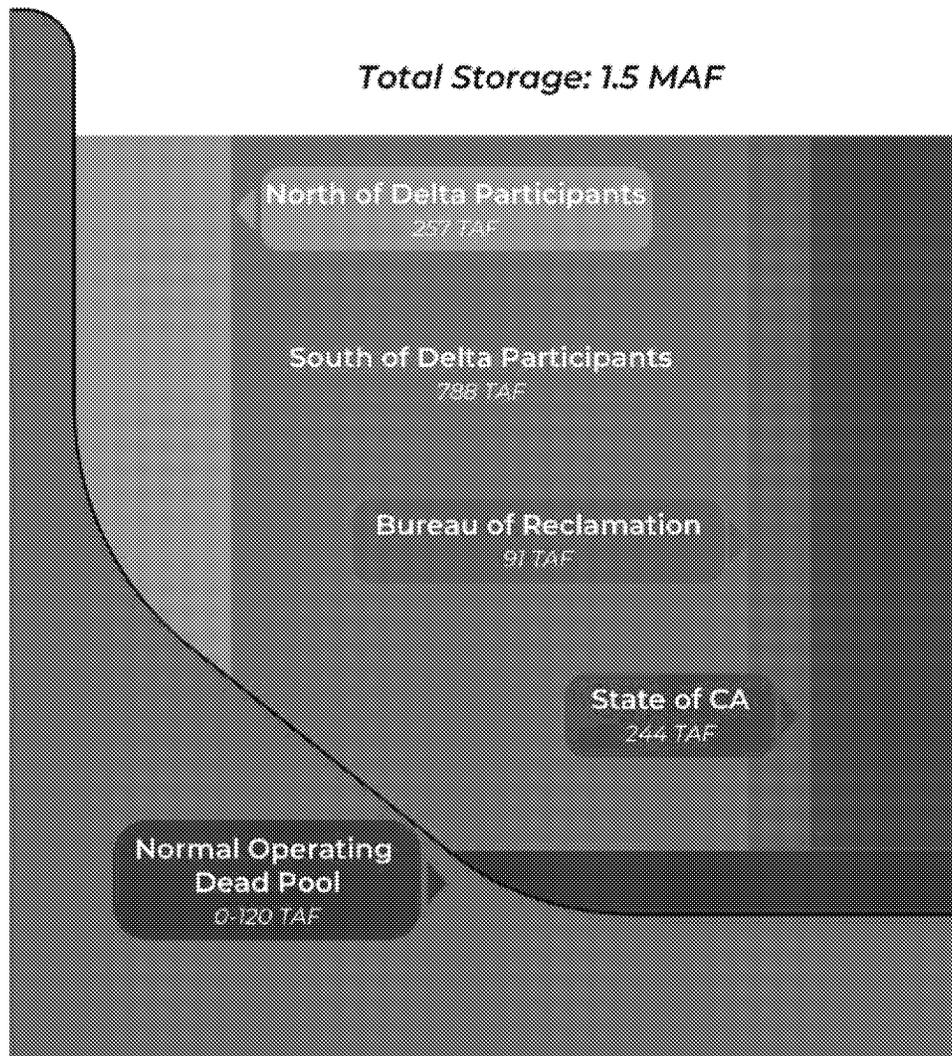


Figure 14. Sites Reservoir Storage Allocation

The methodology for allocating reservoir storage is described in Attachment C. The Storage Allocation is likely to change depending on annualized acre-feet per year requested by Storage Partners and final levels of local, state, and federal funding. The reservoir allocation will be updated in future versions of this Operations Plan.

5.3.2 Storage Leasing and Transfers

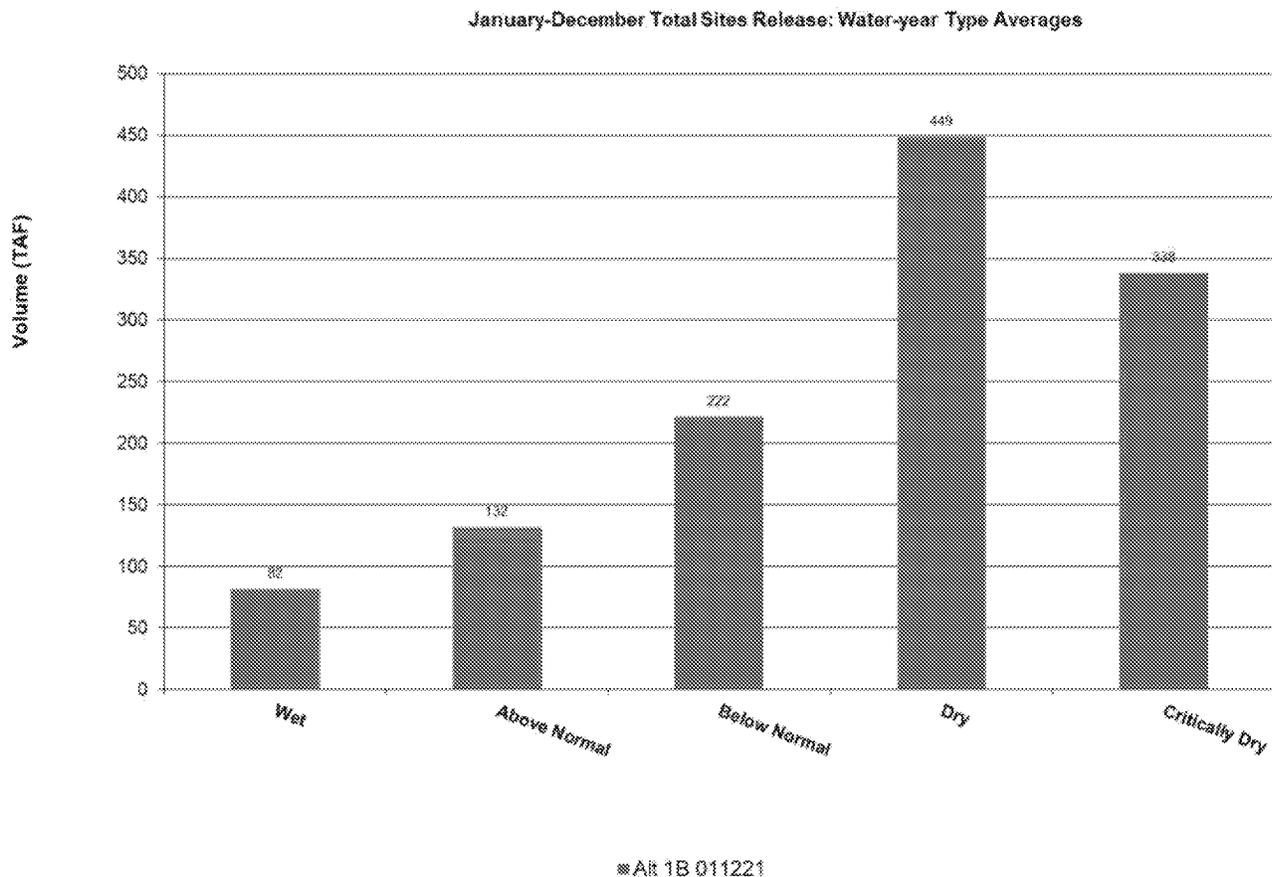
The Storage Principles allow Storage Partners lease storage space or to exchange and transfer stored water to other Storage Partners and water users who are not Storage Partners. Such leasing and transfer agreements can span multiple years or occur within a given contract year. The Authority will account for and track storage leased and transferred in its real-time accounting system. In accordance with the Storage Principles, the Storage Partner whose Storage Allocation is being leased or transferred is responsible for the payment of all allocated capital, fixed O&M, and variable O&M costs, as well as obtaining all environmental permits and water right agreements required.

The methods for notifying the Authority of leases or transfers of Storage Allocations will be developed further in a future version of this Operations Plan.

6.0 Releases from Sites Reservoir

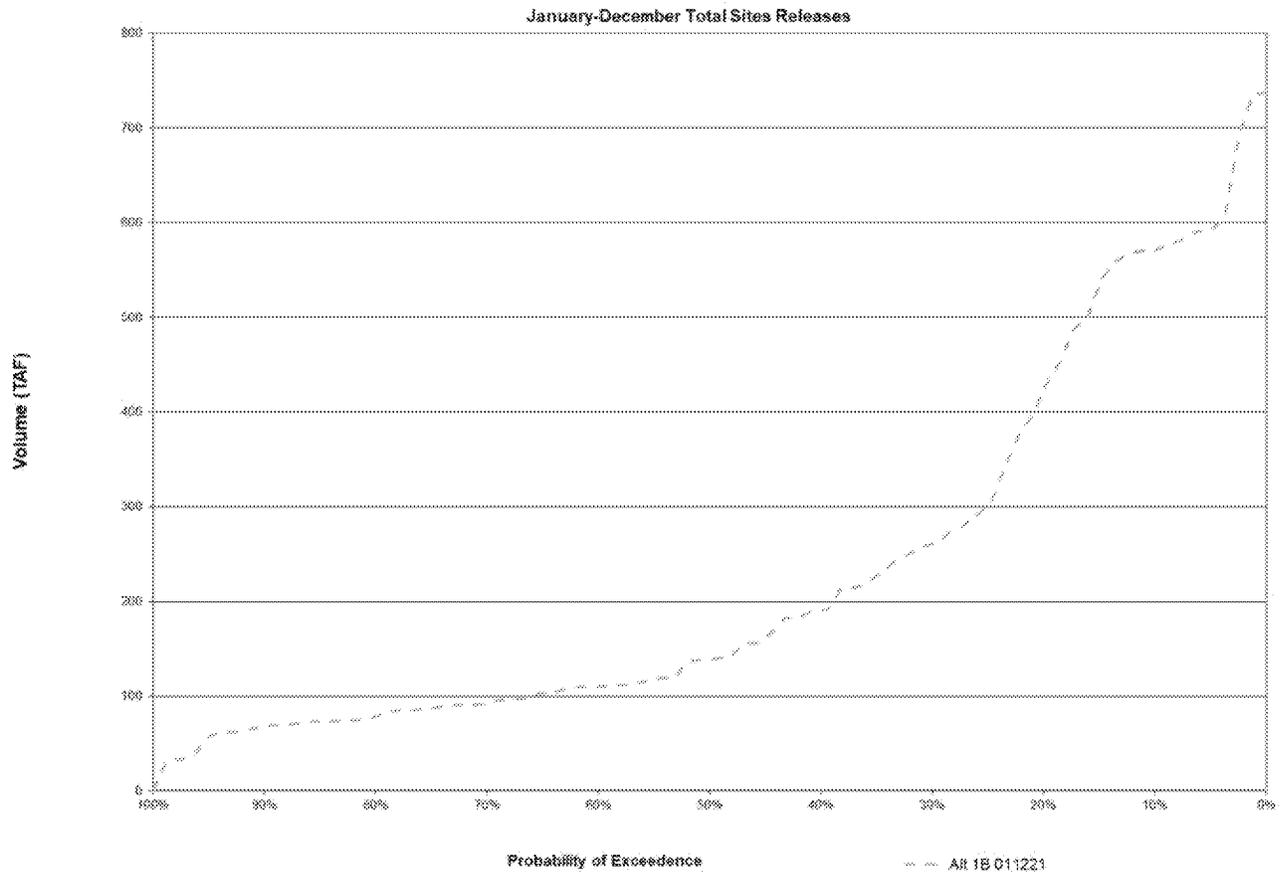
6.1 Overall Project Releases

Project releases would generally occur in the late spring, summer, and fall months but could happen throughout the year. Project exports to Storage Partners south-of-Delta must occur during the transfer window (July through November) of each year. Project deliveries to Storage Partners in the Delta and north of the Delta, including Reclamation (as an exchange partner or investor) and DWR (as an exchange partner), can occur outside the transfer window. The total Project releases by water year type, an exceedance plot of project release, and the timing for releases are shown in Figure 15 to Figure 17. Figure 17 includes all releases from the reservoir, including those used for exchanges with DWR and Reclamation. Further discussions of exchanges are included in Section 8. Note that the figures show monthly averages; actual within-month releases at the daily or weekly timescale are expected to vary. Daily modeling will be developed in the future, and future versions of this Plan will be modified accordingly.



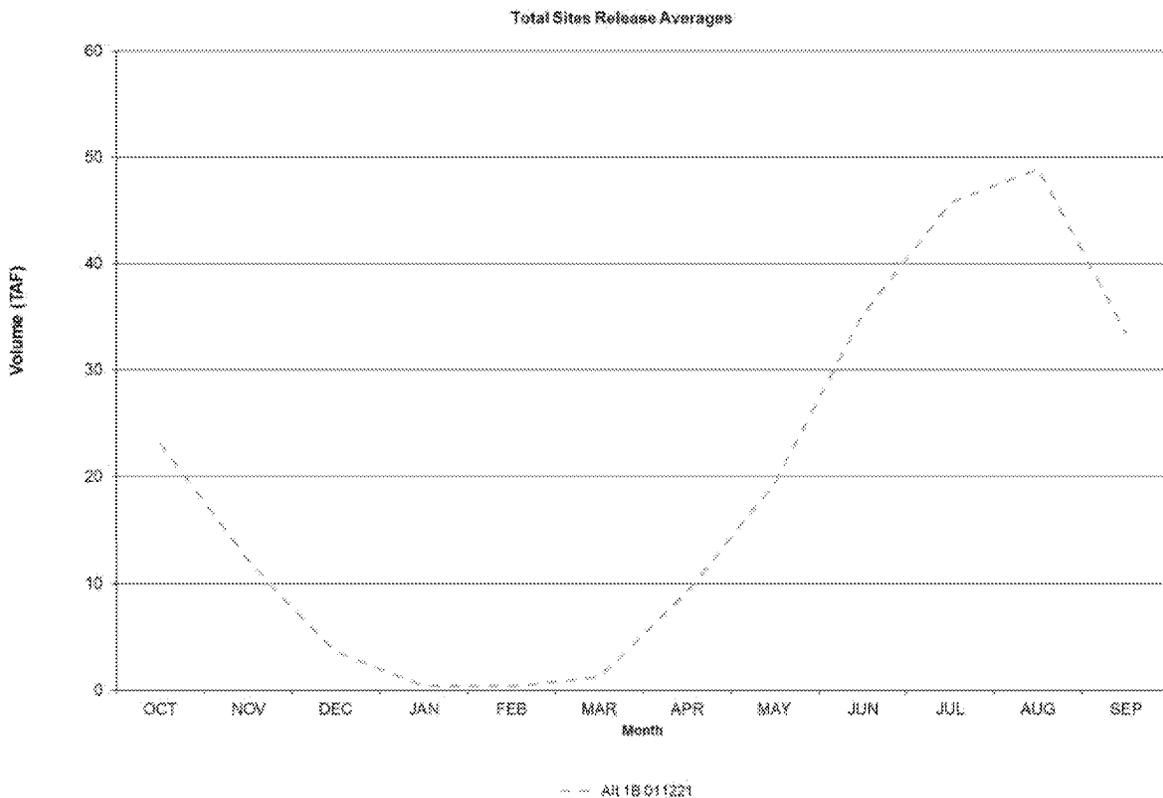
Water year type based on the Sacramento Valley 40-30-30 Water Year Hydrological Classification Index
Source: CalSim II modeling for Alternative 1B (Alt 1B 011221) in the Revised Draft EIR/Supplemental Draft EIS

Figure 15. January to December Total Sites Release: Water-year Type Averages



Source: CalSim II modeling for Alternative 1B (Alt 1B 011221) in the Revised Draft EIR/Supplemental Draft EIS

Figure 16. January to December Total Sites Releases



Source: CalSim II modeling for Alternative 1B (Alt 1B 011221) in the Revised Draft EIR/Supplemental Draft EIS

Figure 17. Total Sites Release Averages

The assumptions used in the CalSim modeling for the Revised Draft EIR/Supplemental Draft EIS for releases, or demands, for specific Storage Partners and deliveries by year type are included as Attachment D.

6.2 Release and Conveyance Facilities

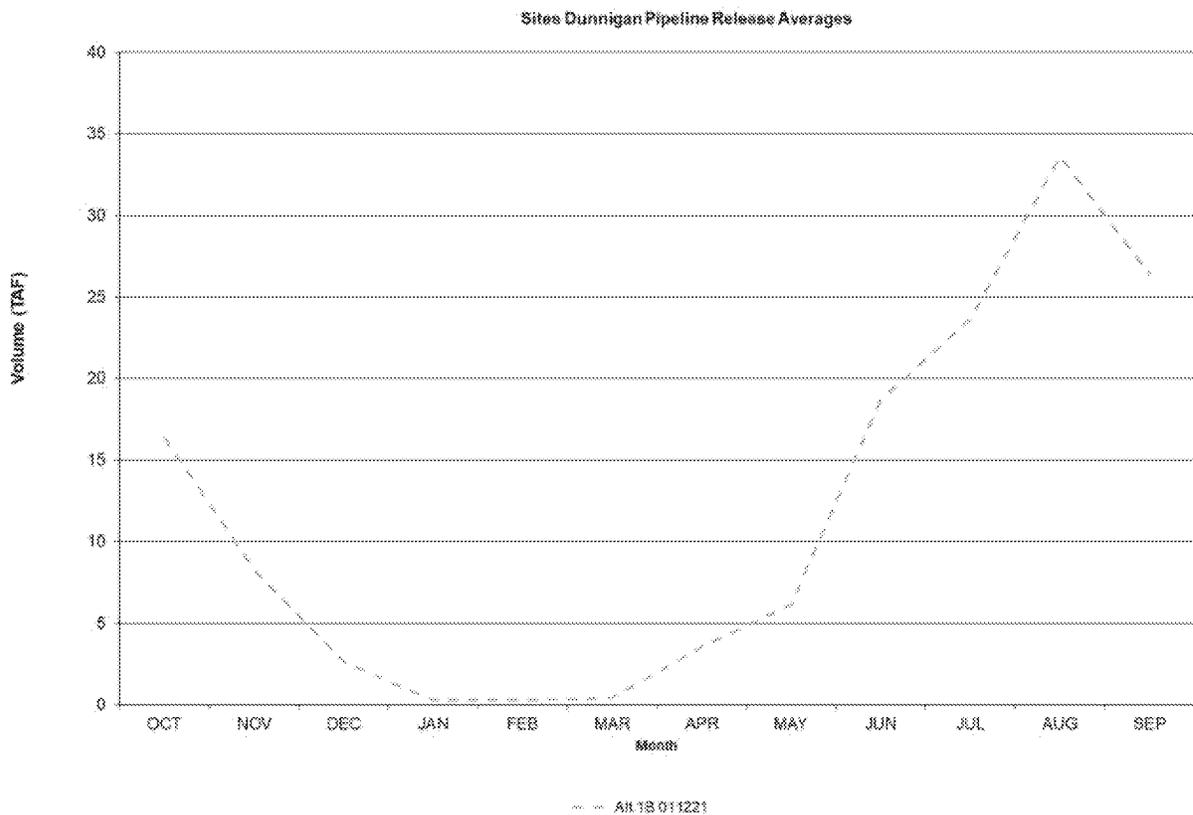
The following sections provide a general description of the release and conveyance facilities that may be used in the operation of Sites Reservoir. The location of these facilities is shown in Figure 1 and Figure 2.

6.2.1 Tehama-Colusa Canal

Most releases from Sites Reservoir would flow into the existing Funks Reservoir (as described in Section 4.2) and into the existing TC Canal. Water would flow within the TC Canal and would either be diverted for delivery of Project water to local Storage Partners or would flow 40 miles south to the new Dunnigan Pipeline. The TC Canal will be used for the release of water to all TC Canal members who are Sites Storage Partners, Delta and south-of-Delta Storage Partners, federal water (with the exception of water delivered to GCID), and environmental water for Proposition 1 for Yolo Bypass and south-of-Delta refuges. Releases to the TC Canal would be limited by available capacity in the TC Canal and the available capacity in the Dunnigan Pipeline. Water would be released from the TC Canal into the Dunnigan Pipeline through a gravity outlet structure.

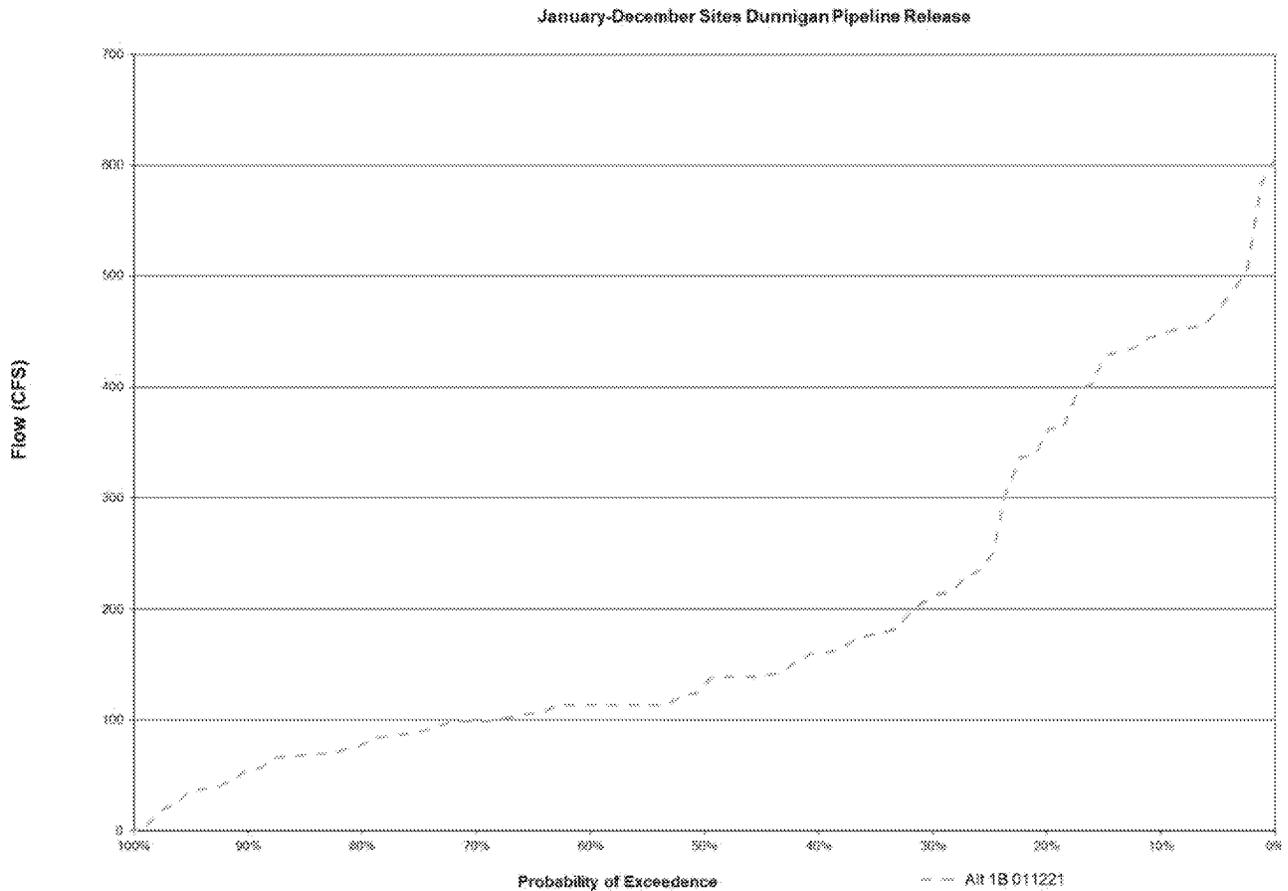
6.2.2 Dunnigan Pipeline

The Dunnigan Pipeline will convey water released from the TC Canal to the Colusa Basin Drain (CBD). The Dunnigan Pipeline will be approximately 4 miles in length and have an inner diameter of approximately 9 feet. A CBD outlet with an energy dissipation structure will be constructed at the downstream end of the pipeline to allow water to discharge into the CBD. Two 60-inch-diameter, fixed-cone valves would be placed at the discharge stilling basin to dissipate energy and adjust the flow being released into the CBD. The conveyance through the Dunnigan Pipeline to the CBD would use gravity and have a flow up to 1,000 cfs. Figure 18 and Figure 19 show the modeled flow through the Dunnigan Pipeline. Note that the figures show monthly averages; actual within-month releases through the Dunnigan Pipeline at the daily or weekly timescale are expected to vary. Daily modeling will be developed in the future, and future versions of this Plan will be modified accordingly.



Source: CalSim II modeling for Alternative 1B (Alt 1B 011221) in the Revised Draft EIR/Supplemental Draft EIS

Figure 18. Sites Dunnigan Pipeline Release Averages



Source: CalSim II modeling for Alternative 1B (Alt 1B 011221) in the Revised Draft EIR/Supplemental Draft EIS

Figure 19. January to December Sites Dunnigan Pipeline Release

6.2.3 Colusa Basin Drain

The Dunnigan Pipeline will convey water to the existing CBD at a maximum flow of 1,000 cfs. From the CBD, water may either be discharged into the Yolo Bypass or back into the Sacramento River. Water discharged into the Yolo Bypass/Cache Slough Complex will flow through the Knights Landing Ridgecut. This water will be used for Proposition 1 benefits or for diversion into the North Bay Aqueduct. Water can also flow back to the Sacramento River via the Knights Landing Outfall Gates. Water conveyed back to the Sacramento River may be used by DWR (as an exchange partner) or Reclamation or be conveyed south of the Delta through the Banks or Jones pumping facilities for south-of-Delta Storage Partners or wildlife refuges.

6.2.4 Glenn-Colusa Main Canal

Some Project water is not released through Funks Reservoir and the TC Canal, but instead released back into the TRR and into the GCID Main Canal. Water released into the TRR and the GCID Main Canal would be used by GCID or wildlife refuges as environmental water for Proposition 1. Water is expected to be released to GCID for wildlife refuges north of the Delta in all water year types but is generally not needed in wet year types. The water could be delivered any time of the year, although it is expected that it rarely would be released for this purpose from January through March during the Project's

primary diversion season. The long-term average releases to GCID for wildlife refuges is expected to be 5 TAF under historic hydrology.

6.3 Release Criteria

Project water may be released to local users any time the pumping facilities are not diverting water to storage. Water may be exported south of the Delta to refuges or Storage Partners only during the transfer window (July through November) and will, therefore, only be released from the reservoir during that timeframe. The Project can also only release water for exports when the Delta is in balanced conditions, as defined in the Coordinated Operation Agreement (COA) and determined by DWR and Reclamation.

Project releases to the CBD are constrained by capacity in both the Dunnigan Pipeline and the CBD. If it is anticipated that releases are constrained, the Authority will coordinate closely with Storage Partners, DWR, Reclamation, TCCA, GCID, and entities along the CBD in an attempt to meet the requested water release schedules. If there is a release constraint that will affect the ability to meet the requested schedules, the Authority will work with the conflicted Storage Partners to determine whether accommodations can be made. If the conflict cannot be resolved, releases will be made in proportion to the Storage Allocation attributable to the conflicted Storage Partners.

6.3.1 Release Orders

To the extent allowed by the Project's permits, approvals, and agreements and its physical and operational capabilities, Storage Partners have total discretion regarding the amount of water held in their Storage Allocation that they request to be scheduled for release for their use and will have control over the use of their Storage Allocation based on the conditions outlined in the Storage Principles.

In January, Storage Partners will provide initial requests for Project water. Final requests for Project water to be released prior to the transfer window (before July 1) will be provided by the Storage Partners in February. Final requests for Project water to be released in the transfer window (July through November) will be provided by the Storage Partners in April. See Figure 3 for a full description of the annual operational needs and information provided by Storage Partners.

The Authority will work with DWR and Reclamation to schedule deliveries south of the Delta. Beginning in February, operations of the reservoir, along with conditions in the Delta, will be reevaluated at least weekly. From such analysis, the Authority will update release and delivery schedules and will coordinate with Storage Partners should any conflicts arise.

6.3.2 Release Order Adjustments

The Authority will provide regular updates on the scheduling of releases and deliveries. Storage Partners may request additional releases beyond those initially requested, as defined in the annual operations cycle. The Authority will prioritize releases requested by February for water released before the transfer window (for north of Delta deliveries) and by April for water released during the transfer window (for north or south of Delta deliveries). However, the Authority will accommodate later requests for releases to the extent possible.

6.3.3 Weekly Release Order Adjustments

Weekly releases, particularly for those deliveries that must be exported through the Delta, are highly dependent on coordination with DWR and Reclamation. The Authority may shift weekly deliveries as needed to maximize exports. The Authority will notify Storage Partners of any shifts, should they occur.

7.0 GCID and TCCA Coordination

7.1 Facilities Use Agreements and Annual Coordination

The Authority intends to enter into Facility Use Agreements with GCID and TCCA. Because the RBPP and TC Canal are owned by Reclamation, the agreement with TCCA will be in addition to a Warren Act Contract required for the use of federal facilities. Close coordination will be required between the Authority and operators at TCCA and GCID.

7.1.1 TCCA Coordination

Daily operations will be coordinated closely with the Red Bluff and Willows Offices of TCCA. In particular, operations will be closely coordinated in the shoulder and transition seasons, when diversions for the Project are occurring at the same time as deliveries for TCCA contractors. Close operations will also be necessary for frost water, which could occur when the Project is diverting and may require releases from Funks for users on the downstream portion of the TC Canal. TCCA will remain the lead operator for the RBPP and the TC Canal. The Authority will have an operator responsible for the diversions into Sites Reservoir at Funks via the Funks PGP. TCCA operations will take priority over Project operations, although the two entities will coordinate closely to adjust operations to achieve operating objectives.

It is anticipated that the Project's Supervisory Control and Data Acquisition (SCADA) system will also duplicate some of the TCCA system. This will allow logic and alarms to respond appropriately to changing conditions along the canal and in Funks Reservoir. The Authority will work with TCCA in responding to any emergency operations required, and coordination with TCCA will be included in Project's Emergency Action Plan.

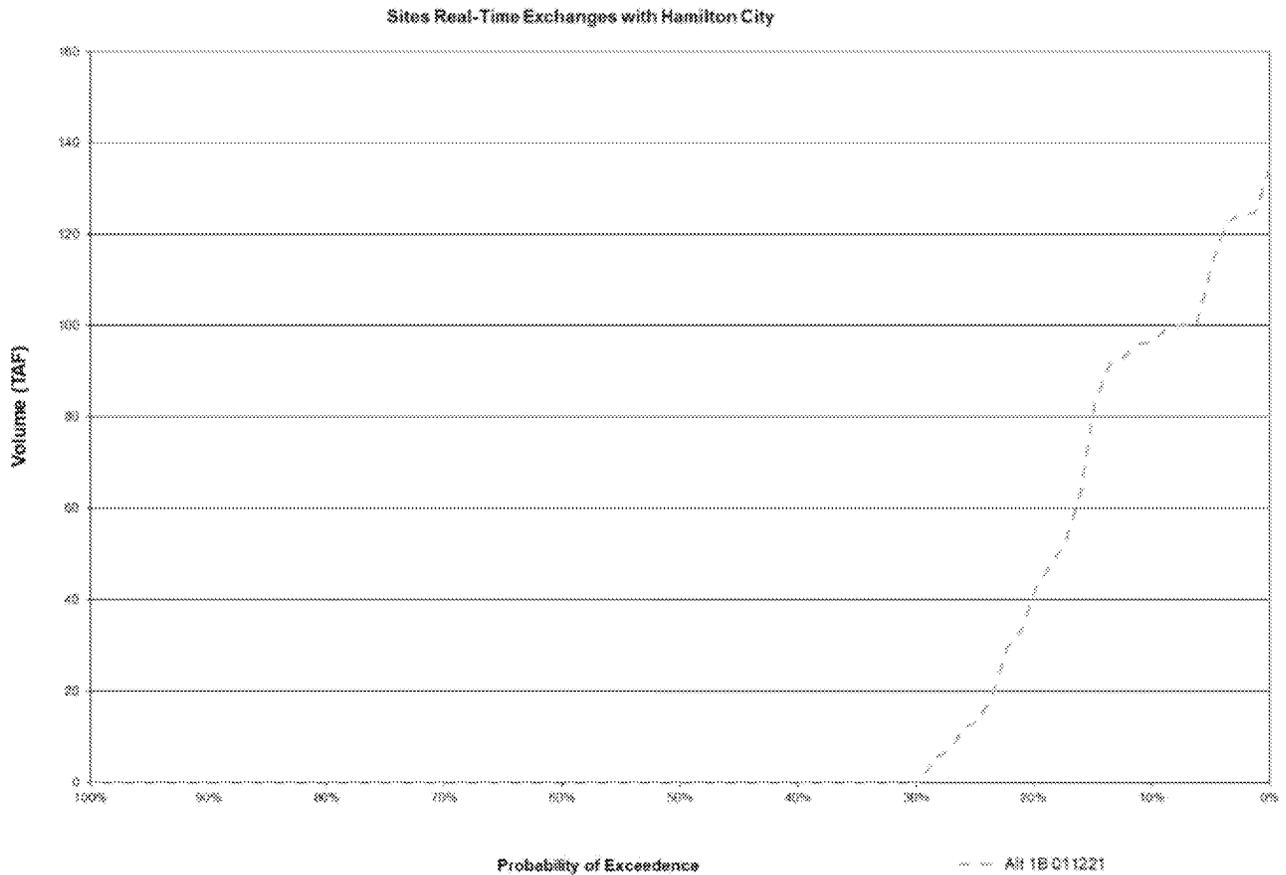
7.1.2 GCID Coordination

Daily operations will be coordinated closely with the GCID's operations in Hamilton City. In particular, operations will be coordinated during the shoulder and transition seasons, when diversions for the Project are occurring at the same time as deliveries for GCID. Close operations will also be necessary for real-time exchanges, when GCID will receive water from the Project in lieu of diversions from the Sacramento River. GCID will remain the lead operator of the HCPP and the GCID Main Canal. The Authority will have an operator responsible for the diversions into the Sites Reservoir at TRR via the TRR PGP. GCID operations will take priority over Project operations, although the two entities will coordinate closely to adjust operations to achieve operating objectives.

It is anticipated that the Project's SCADA system will also duplicate some of the GCID system. This will allow logic and alarms to respond appropriately to changing conditions along the canal and in the TRR. The Authority will work with GCID in responding to any emergency operations required, and coordination with GCID will be included in Project's Emergency Action Plan.

7.2 Real-time Exchanges

To support timing of releases and deliveries to Storage Partners north and south of the Delta, in-lieu exchanges with local Storage Partners may occur. This type of exchange is most likely to occur with GCID but could also occur with TCCA or other Sacramento River Settlement Contractors and likely would require close coordination with Reclamation. Instead of diverting all of its supply from the Sacramento River, the local Storage Partner would receive a portion of its water from Sites Reservoir. A portion of the water released from Shasta Lake to meet the local Storage Partner’s supply would be left in the Sacramento River (i.e., not diverted by that contractor or agency) and used for other Storage Partners. This exchange is expected to occur to minimize capacity constraints along the Dunnigan Pipeline as well as the delivery of water to Storage Partners upstream of the release facilities (e.g., Carter Mutual and Reclamation District 108). Figure 20 depicts the exceedance curve associated with the real-time exchanges at Hamilton City. On average, 21 TAF are exchanged through this process.



Source: CalSim II modeling for Alternative 1B (Alt 1B 011221) in the Revised Draft EIR/Supplemental Draft EIS

Figure 20. Sites Real-time Exchanges with Hamilton City

8.0 Central Valley Project and State Water Project Cooperative Operations and Exchanges

8.1 Operational Agreement and Annual Coordination

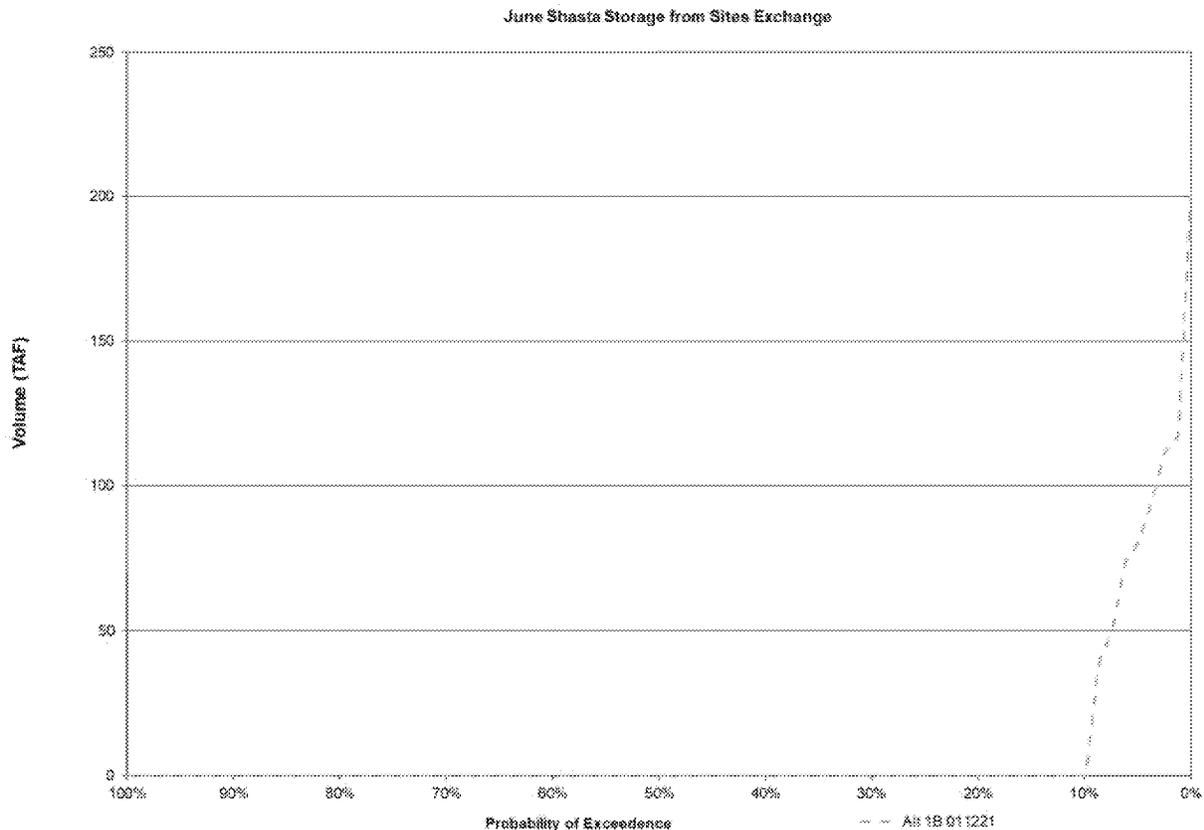
Success of the Project requires close coordination with Reclamation and DWR. The Authority is currently developing an operational agreement with these agencies to address issues related to operations of the Project. Through the implementation of this agreement, it is expected that the Project will cooperatively interface with the existing and ongoing real-time decision-making processes while working to avoid and minimize adverse effects and, potentially, provide benefit to CVP and SWP facilities, operational plans, listed species, public health, safety, and water supply reliability.

The operational agreement is expected to describe the use of State and federal facilities, seasonal operating goals, use of power and energy, and exchanges of water between Sites Reservoir, the CVP, and the SWP.

It is anticipated that the accounting for exchanges between the Authority, DWR, and Reclamation can occur within the framework of the COA because of mutual places of use, particularly south of the Delta. The parties have discussed COA accounting, and DWR and Reclamation will coordinate on COA issues that will need to be addressed as the Project develops to facilitate the ability of the Project to function as described here and in the Revised Draft EIR/Supplemental Draft EIS. COA administrative actions between Reclamation and DWR will be coordinated with the Authority and are not expected to affect the construction schedule or ongoing Project operations.

8.2 Exchanges with Reclamation

Exchanges with Shasta Lake would be formulated to target cold water pool preservation and anadromous fish benefits. Shasta Lake exchanges would occur in years when forecast temperature-based mortality of early life stage winter-run Chinook salmon would be reduced if the exchange is in place. Under a Shasta Lake exchange, water would be released from the Sites Reservoir in the spring to meet CVP purposes, including CVP water service and/or repayment contractors or Central Valley Project Improvement Act (CVPIA) refuge needs in the Sacramento Valley that could physically receive water from Sites Reservoir. By reducing releases from Shasta Lake in the spring, the storage and cold water pool in Shasta Lake would be preserved for use later in the year, typically during critical months of the cold water pool management season (August and September). In late summer and fall (i.e., August through November), Reclamation would release an equivalent amount of water from Shasta Lake for Storage Partners. A memorandum identifying the modeled criteria for Shasta Exchanges is included as Attachment E. Figure 21 depicts the exceedance plot from models demonstrating volume exchanged with Shasta. As shown, exchanges do not occur frequently but can be sizeable when they do occur. As with other modeling presented in this Reservoir Operations Plan, actual exchange volumes could vary beyond modeled amounts.



Source: CalSim II modeling for Alternative 1B (Alt 1B 011221) in the Revised Draft EIR/Supplemental Draft EIS

Figure 21. January to December Shasta Storage from Sites Exchange

Exchanges could also occur with Folsom Lake, but these exchanges are not modeled. If they occur, Folsom Lake exchanges would be operated similarly to exchanges with Shasta Lake. Sites Reservoir would release water in the spring and early summer to meet CVP purposes in lieu of Reclamation releases at Folsom Lake. An equivalent amount of water would then be released from Folsom Lake in the late summer and fall for Storage Partners. All exchange water would be released from Folsom Lake in late summer and fall and no exchanged water would be carried over from year to year.

Discussions with Reclamation on expanded exchanges are currently underway and are anticipated to be included in the Project’s Biological Assessment and Final EIR/EIS. Exchanges may be expanded such that greater volumes would be held in Shasta Lake. Other options include changes in Project operations to allow for greater spring pulse flow actions or improved fall flow stability downstream of Keswick on the Sacramento River.

8.3 Reclamation as an Investor

Reclamation is anticipated to be a Storage Partner. This Operations Plan and all modeling results shown assume a federal cost-share of up to 7 percent, resulting in approximately 91 TAF of active storage allocated to Reclamation in accordance with Alternative 1B in the Revised Draft EIR/Supplemental Draft EIS. The federal cost share could be as high as 25 percent. In accordance with Reclamation’s Federal Feasibility Study for the Project, Reclamation’s storage in Sites Reservoir could be used for the purpose of CVP Operational Flexibility. Operational Flexibility is defined in the Federal Feasibility Study as follows:

The operational flexibility purpose is defined as the benefit accruing to the Federal government from an increased ability to allocate additional water supplies through an investment by the United States in a water supply project. The water supply project would be functionally integrated with the CVP from a water rights and/or contractual basis. The investment would enable the Federal Government to deliver water for beneficial use and better meet authorized project purposes by increasing the efficiency, reuse, or multiple use of existing supplies or by reducing impacts of regulatory or capacity constraints on an existing Reclamation project.

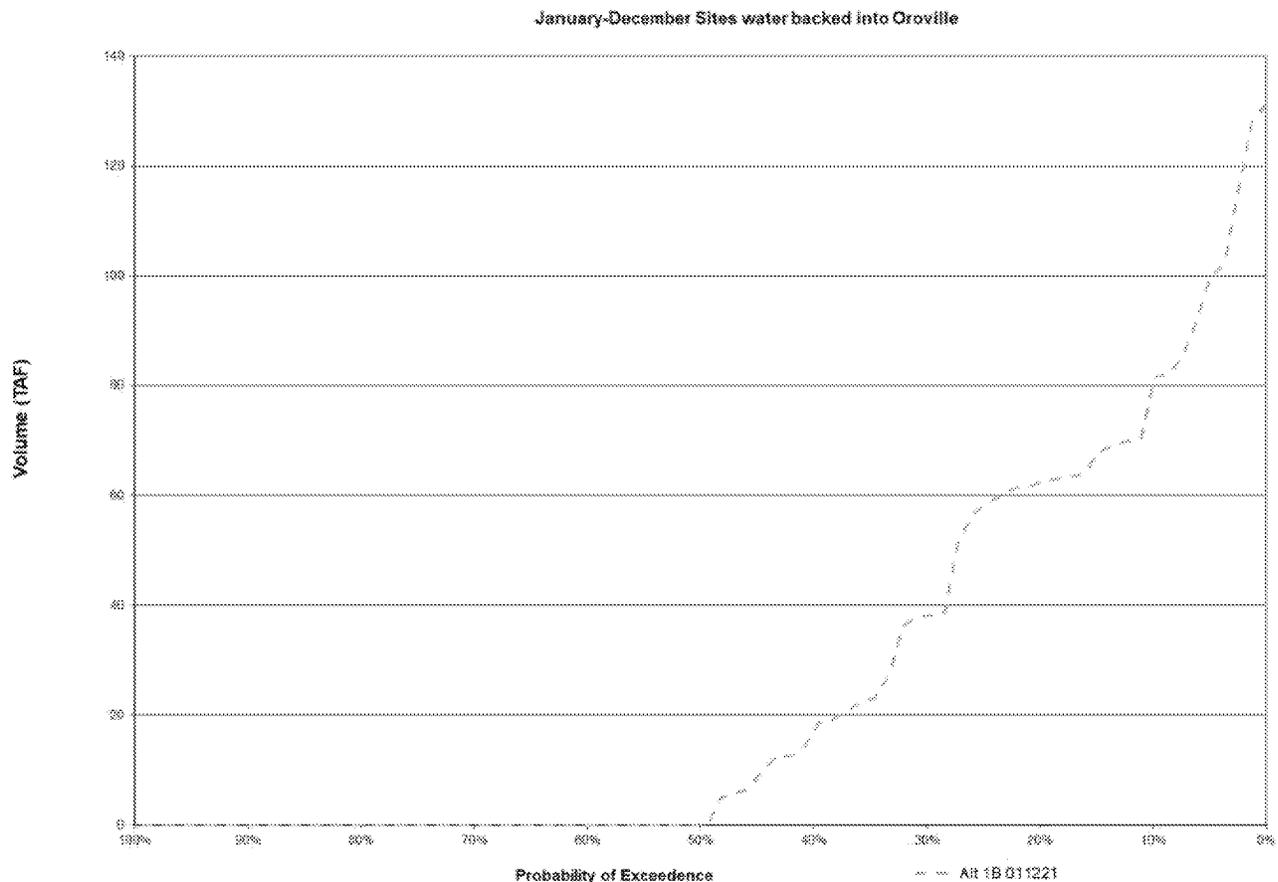
The Project would provide Reclamation an additional water source that could allow for higher allocations in accordance with CVP contracts or releases for environmental restoration, CVPIA refuges, or anadromous fish water quality.

The Authority expects to enter into an agreement with Reclamation relative to the Federal investment in the project. The use of Reclamation's storage in Sites Reservoir may vary, and this Reservoir Operations Plan will be updated accordingly.

8.4 Exchanges with DWR

Exchanges with Lake Oroville would be formulated primarily to facilitate Project deliveries to Storage Partners. The exchanges may also improve cold water pool conditions at Lake Oroville. Exchanges with Lake Oroville are expected to happen more frequently and would be driven by a variety of factors. Under a Lake Oroville exchange, water would be released from the Sites Reservoir primarily in June and July to meet SWP purposes. By reducing releases from Lake Oroville in these months, the storage in Lake Oroville would be preserved for use later in the year. In late summer and fall (i.e., August through November), DWR would release an equivalent amount of water from Lake Oroville for Storage Partners. All exchange water would be released from Lake Oroville in late summer and fall and no exchanged water would be carried over from year to year. A memorandum identifying the modeled criteria for Oroville exchanges is included as Attachment F.

Figure 22 depicts the exceedance plot from models demonstrating volume exchanged with Oroville. As shown, exchanges occur more frequently than those with Shasta, although the peak exchange volumes are not as great. Actual volumes in real-time operations are expected to vary.



Source: CalSim II modeling for Alternative 1B (Alt 1B 011221) in the Revised Draft EIR/Supplemental Draft EIS

Figure 22. January to December Sites Water Backed into Oroville

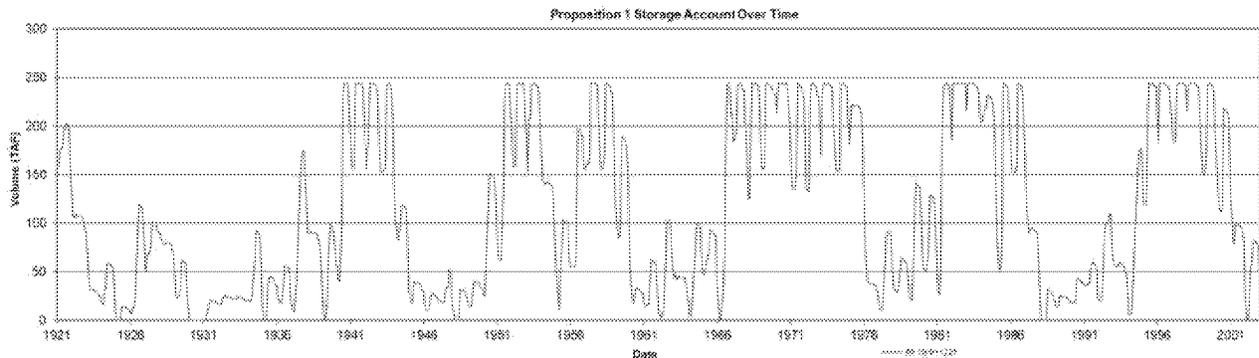
8.5 Operations for Proposition 1 Benefits

A defined Proposition 1 public benefits storage account will be established in Sites Reservoir to be managed by the State to provide water for ecosystem purposes. The Storage Allocation assumed for Proposition 1 purposes is 244 TAF. This amount is comparable to the cost-share paid by the State for environmental benefits (does not include funding for recreation or flood). There are two benefits funded by the State through Proposition 1: flows through the Yolo Bypass/Cache Slough Complex and delivery of Incremental Level 4 water north and south of the Delta.

Flows to the Yolo Bypass will be conveyed through the Knights Landing Ridge Cut via Funks Reservoir, the TC Canal, the Dunnigan Pipeline, and the CBD (described in Section 6.2). Project water will be released in the summer and fall (i.e., August through October) to help increase productivity in the lower Cache Slough and lower Sacramento River areas. This flow is intended to increase desirable food sources for Delta smelt in the late summer and early fall. Sites Reservoir average annual releases to the Yolo Bypass under historic hydrology range from 14 to 63 TAF, depending on water year type. Long-term average releases for the Yolo Bypass are estimated to be 41 TAF.

Project water will also be provided to supplement supply for Incremental Level 4 water north and south of the Delta to provide improvements to managed wetlands. Most water released for this purpose will be exported to managed wetlands south of the Delta. Sites Reservoir average annual releases for Incremental Level 4 water supply under historic hydrology range from 2 to 40 TAF, depending on year

type, with long-term average releases for this purpose of 19 TAF. Approximately 5 TAF over the long-term average is expected to go north of the Delta. Figure 23 shows the level of the Proposition 1 storage account in Sites Reservoir based on historic hydrology, assuming Sites Reservoir is built and today's regulatory environment is in place.



Source: CalSim II modeling for Alternative 1B (Alt 1B 011221) in the Revised Draft EIR/Supplemental Draft EIS

Figure 23. Proposition 1 Storage Account Over Time

The values provided in this section assume all environmental water for Proposition 1 goes to the funded benefits in accordance with the Authority's Feasibility Study developed for the California Water Commission. However, it is the Authority's intent that this account be flexibly managed so that water could potentially go to other sources to maximize the environmental benefits. The Authority is working with CDFW and other stakeholders on how this account will be managed and the way the benefits are realized. The management of storage and deliveries for benefits will be finalized through an agreement with CDFW that will be developed in 2022/2023.

9.0 Funks and Stone Corral Creeks

In the construction of Sites Reservoir, Funks and Stone Corral Creeks would be impounded in the inundation area by the construction of the Golden Gate Dam and the Sites Dam, respectively. During Project operations, releases would be made from Sites Reservoir into Funks and Stone Corral Creeks. These releases would be made to comply with California Fish and Game Code Section 5937 and to ensure no harm to downstream water right holders on these creeks.

Detailed release schedules for releases into Funks and Stone Corral Creeks have not been developed due to lack of information on the conditions in these creeks. Field studies would be conducted once access is obtained and before final designs for Sites Dam and Golden Gate Dam are completed to determine the following:

- ∞ Existing fish assemblage in these creeks, including fish species presence and habitat use;
- ∞ Characterization of habitats available (e.g., spawning, rearing, foraging, and sheltering habitats) at varying flow levels;
- ∞ Characterization of flows, including assessing the base flow during the summer months;
- ∞ Conducting a fluvial geomorphologic study to characterize bed load and flow levels necessary for mobilization;
- ∞ Surface Water Ambient Monitoring Program technical study (i.e., bioassessment) that focuses on relationships between physical habitat, water quality, and benthic macroinvertebrates; and

- ∞ Hydrological studies to define flow temperature relationships.

Using information from these field studies, along with currently available information on water right holders downstream of the reservoir in both creeks, the Authority will prepare a Funks and Stone Corral Creeks flow schedule that will be incorporated into this Operations Plan that would identify the approach for releases, including release schedules and volumes, a monitoring plan, and an adaptive management plan. Releases into these creeks would be made in consideration of the flood control benefits of the Project and would not overtop the stream banks and flood downstream areas.

Releases into Funks Creek would be made through a new pipeline that terminates at Funks Creek below the dam. These facilities would have a normal operating release range of 0 to 100 cfs into Funks Creek. Releases into Stone Corral Creek would be made through the permanent outlet at Sites Dam. This outlet would normally release 0 to 100 cfs, with an emergency release capacity of up to 4,700 cfs.

The Authority has also entered into a Memorandum of Understanding with Colusa County that would allocate net flows from Stone Corral and Funks creeks to the County's Storage Allocation in the reservoir, where net flow equals inflow from the creek minus any required releases into the creeks downstream. The evaporation and seepage losses would also be allocated to the County's Storage Allocation consistent with all other water stored in the reservoir. Future versions of this Operations Plan will include more detail on how inflows from Funks and Stone Corral Creeks will be determined.

10.0 Recreation, Flood Control, and Health and Safety Considerations

10.1 Emergencies

The Project includes the design and operation of facilities to meet California Division of Safety of Dams criteria and requirements for emergency reservoir drawdown. During an emergency release event, Saddle Dam 8B, the I/O works, and Sites Dam may operate simultaneously to release water. Once the water surface elevation falls below the levels of the saddle dam spillway elevation, the I/O works and Sites Dam would operate solely to release the remaining water. The emergency releases would be in accordance with Division of Safety of Dams requirements and would occur as follows:

- ∞ Under Alternatives 1, 2, and 3, the spillway on Saddle Dam 8B would release to Hunters Creek. The size of the spillway would accommodate the peak outflow of a probable maximum flood event or the steady-state flow if an over-pumping event occurred. The design and size of the spillway were developed with the assumption that a probable maximum flood overflow event and an over-pumping event have a very low probability of occurring simultaneously.
- ∞ The permanent outlet on Sites Dam would release to Stone Corral Creek at a maximum rate of approximately 4,700 cfs.
- ∞ The I/O tunnels would release to Funks Reservoir and the TRR at a rate of approximately 16,000 cfs, with 9,000 cfs being discharged to Funks Reservoir and 7,000 cfs to the TRR with a maximum velocity of 40 cfs in the pipelines.

An Emergency Action Plan will be developed and implemented for Project construction and operation. The Emergency Action Plan will include (1) a summary of responsibilities, (2) notification procedures and flowchart, (3) emergency response process, (4) preparedness for different emergencies, and

(5) potential inundation mapping. The Emergency Action Plan will also identify the frequency for desktop and full exercises to prepare for emergencies.

10.2 Flood Damage Reduction

In addition to the emergency drawdown requirements described above, the Project will provide flood damage reduction benefits to portions of Colusa County, including Maxwell and the surrounding agricultural areas. Incidental storage in Sites Reservoir would capture and store flood flows from the Funks Creek and Stone Corral Creek watersheds. These flood damage reduction benefits are inherent to the Project design and would occur regardless of the Project's operations for water supply and water-related environmental benefits. While the reservoir would not be operated with flood reduction as a primary objective, the Authority may consider adjusting operations to reduce flood damage as requested by local, state, or federal entities.

10.3 Recreation Considerations

In accordance with the Storage Principles, Sites Reservoir will provide water supply and water supply related environmental benefits, including water quality benefits ("Primary Benefits") and flood control, recreation, and power generation benefits ("Secondary Benefits"). Sites Reservoir will be operated so as to maximize the Primary Benefits for the Storage Partners. Secondary Benefits are considered incidental to the Project and will be subordinate to the provision of Primary Benefits.

The Authority will develop a Recreation Management Plan. The Recreation Management Plan will discuss the operation of the Recreation facilities, including how those operations may change depending on storage volume in the reservoir.

11.0 Changes to this Operations Plan

This Operations Plan will be updated as details surrounding Project permits, including the water right, are further defined. Version 1 of this Operation Plan may be updated with editorial or minor corrections and additions as requested by Project Storage Partners or Authority's Agents. All changes to this plan will be routed through the Ad Hoc Operations and Engineering Workgroup.

Attachment A

Sites Storage Partners as of December 2021

American Canyon, City of
Antelope Valley - East Kern Water Agency
Carter Mutual Water Company
Coachella Valley Water District
Colusa County
Colusa County Water District
Cortina Water District
Davis Water District
Desert Water Agency
Dunnigan Water District
Glenn-Colusa Irrigation District
Irvine Ranch Water District
LaGrande Water District
Metropolitan Water
Reclamation District 108
Rosedale-Rio Bravo Water Storage District
San Bernardino Valley Municipal Water District
San Geronio Pass Water Agency
Santa Clara Valley Water District
Santa Clarita Valley Water District
Westside Water District
Wheeler Ridge-Maricopa Water Storage District
Zone 7 Water Agency
State of California
United States Bureau of Reclamation

Attachment B

Principles for the Storage, Delivery and Sale of Sites Reservoir Project Water

PRINCIPLES FOR THE STORAGE, DELIVERY AND SALE
OF SITES RESERVOIR PROJECT WATER

APPLICABILITY

(1) These Principles For The Storage, Delivery And Sale of Sites Reservoir Project Water ("Principles") adopted by the Sites Project Authority ("Authority") on April 21, 2021, supersede the Storage Policy adopted by the Authority on August 26, 2019.

PURPOSE AND SCOPE

(2) These Principles are intended to guide and assist the Authority as it moves forward with the Sites Reservoir Project ("Project"). To that end, these Principles will serve as the basic framework for development, adoption and/or execution of additional or more formal agreements, policies and procedures related to the storage, delivery and sale of Sites Project water, as needed.

DEFINITIONS

(3) **Authority** – For the purposes of these Principles, the term Authority collectively refers to the Sites Project Authority and its standing Reservoir Committee. The final roles and responsibilities of the Authority and the Reservoir Committee in the day-to-day operations of Sites Reservoir have not yet been defined and the term Authority is used to refer to both entities collectively.

(4) **Available Storage** – That portion of Sites Reservoir that can be filled, minus dead storage and any storage space intentionally left unfilled at the direction of the Storage Partner who has contracted for that storage space.

(5) **Beneficiary Pays Principle** – The principle for allocating all costs associated with delivering certain Project benefits, including public and non-public benefits, to the party receiving such benefits.

(6) **OM&R** – Those costs associated with the operation, maintenance and repair/replacement of Project facilities. These can be broken down into: (a) Fixed OM&R costs that are more predictable year-to-year and that are not significantly influenced by varying diversions or releases of water; and (b) Variable OM&R costs that vary based on actual operations each year, including costs associated with water transfers or exchanges.

(7) **Sites Reservoir Project (Project)** – Sites Reservoir and associated diversion and conveyance facilities.

(8) **Sites Water** – Water that is appropriated under the Authority's water right.

(9) **Storage Allocation** – The amount of storage space (storage volume) in Sites Reservoir allocated to a Storage Partner, as agreed upon in that Storage Partner's Water Storage and Supply Services Contract and the amount of storage space shared or leased, if any, pursuant to Paragraph 25 of these Principles. Dead storage is not allocated to any Storage Partner.

(10) **Storage Partners** – The governmental agencies, water organizations and others who have funded and received a Storage Allocation in Sites Reservoir and the resulting water supply or water supply related environmental benefits from the Project. Storage Partners could include local agencies, the State of California, and the Federal Government.

(11) Water Storage and Supply Services Contract – That agreement, by whatever name, between the Authority and a Storage Partner that provides for the Storage Partner to obtain the Primary Benefits of the Project provided the Storage Partner meets the funding and other obligations of that agreement.

PRIORITY OF OPERATION

(12) Sites Reservoir will provide water supply and water supply related environmental benefits, including water quality benefits ("Primary Benefits"), as well as flood control, recreation, and power generation benefits ("Secondary Benefits"). Sites Reservoir will be operated so as to maximize the Primary Benefits for the Storage Partners. Secondary Benefits are considered incidental to the Project and will be subordinate to the provision of Primary Benefits.

ROLES

(13) Authority - The Authority will develop, own, operate, and maintain the Project. The Authority will obtain and comply with all permits, approvals and agreements needed to construct, operate and maintain the Project. The Authority will oversee the planning, permitting, and day-to-day operations and accounting of Sites Reservoir storage, releases and losses and related activities, including coordination with each Storage Partner. This will be done in a way that is open and transparent to all Storage Partners.

(14) Storage Partners – The Storage Partners are responsible for managing their Storage Allocation and for paying their allocated capital, fixed OM&R, and variable OM&R costs.

WATER STORAGE AND SUPPLY SERVICES CONTRACTS

(15) The Authority will enter into Water Storage and Supply Services Contracts with individual Storage Partners for the use of Project facilities. Each Water Storage and Supply Services Contract will be based on a Storage Partner's Storage Allocation.

WATER RIGHT AND POINT OF DELIVERY

(16) The Authority will apply for and hold the water right for the Project. In developing the Project and its operations, the Authority will divert water to maximize beneficial use and perfect the water right. The Authority will be responsible for compliance with the terms and conditions in the water right and any other permits, approvals, and agreements that control diversion of water to storage for the Project. The Storage Partners will be responsible for using Sites Water within the terms and conditions allowed in the Authority's water right and for providing the Authority with any information it may need to comply with reporting or other requirements. To the extent permitted by applicable law and with the cooperation of the Storage Partners, the Authority will undertake all reasonable measures to manage, control and protect Sites Water, including initiating any appropriate enforcement proceedings to prevent unlawful diversion of or interference with Sites Water.

(17) The Authority will manage Sites Water from the points of diversion to the primary point of delivery. The primary point of delivery for each Storage Partner will be Funks Reservoir or the Terminal Regulating Reservoir. For Sites Water delivered to Storage Partners not served by the Tehama-Colusa Canal or the Glenn Colusa Irrigation District's distribution system, the Authority may retain control of Sites Water to a secondary point of delivery, as agreed upon by the Authority and the Storage Partner in the respective Water Storage and Supply Services Contract. Storage Partners will be responsible for all losses after the primary point of delivery.

STORAGE OF WATER BY DIVERSION

(18) The Authority will take all actions practicable to maximize the diversion of water into Available Storage consistent with regulatory requirements, physical and operational constraints, and hydrologic conditions. Water diverted will be allocated to each Storage Partner's contractual storage space proportional to its Storage Allocation.¹ If a Storage Partner's Storage Allocation is not available, the available water will be allocated to the remaining Storage Partners who have available Storage Allocation space proportional to their Storage Allocation.

(19) The Authority will establish a process, including schedule, that allows for a Storage Partner to determine the maximum amount of water allocated to the Storage Partner's Storage Allocation each year along with a process to make changes to this amount. A Storage Partner may opt out of having water allocated to their Storage Allocation if they so inform the Authority through the process established by the Authority.

(20) The diversion of water to storage will take priority over the release of stored water. The diversion of Sites Water to storage will take priority over the diversion of water from other sources to storage.

STORAGE OF WATER FROM OTHER SOURCES

(21) Storage Partners may request that the Authority place water from sources other than Sites Water into storage and allocate that water to their Storage Allocation. The Authority will take all reasonable steps to facilitate these requests, subject to the Beneficiary Pays Principle. Placing water into storage from other sources must not negatively impact other Storage Partners, Project operations or financing.

(22) If there is a conflict between placing water into storage in Sites Reservoir from other sources of water and the release of water from Sites Reservoir at the same time, the Authority will prioritize diversions but take reasonable measures to accommodate both Storage Partners' requests.

ACCOUNTING FOR LOSSES

(23) Losses of water held in Sites Reservoir storage – including but not limited to evaporation, seepage, and any releases for dam safety or emergency conditions – will be allocated proportionally to each Storage Partner based on the amount of its water in storage.

SHARING OR LEASING OF STORAGE ALLOCATION

(24) Storage Partners are allowed to share or lease their Storage Allocation with other Storage Partners or other entities. The terms of sharing or leasing are at the discretion of the Storage Partners who are parties to a storage or lease agreement but must not negatively impact other Storage Partners, Project operations or financing. Any sharing or leasing of Storage Allocation must

¹ For example, if 275,000 acre-feet of water is able to be diverted to Sites Reservoir in any one year, this represents 20% of the total allocated storage space in Sites Reservoir (275,000/1.38 million acre-feet = 20%). In that year, each Storage Partner would receive an amount of water equal to 20% of their Storage Allocation, unless the Storage Partner has opted out of having water allocated to their Storage Allocation or their Storage Allocation is full. This example assumes a 1.5 million acre-foot reservoir with about 120,000 acre-feet allocated to dead pool.

be coordinated with the Authority. A Storage Partner may not transfer or assign any of its rights or obligations as part of any sharing or leasing agreement.

SALE OF SITES WATER

(25) Storage Partners are allowed to sell water held in their Storage Allocation to other Storage Partners or other entities. The terms of sales of water held in a Storage Allocation are at the discretion of the Storage Partners who are parties to the sale but must not negatively impact other Storage Partners, Project operations or financing. Any sale of water held in a Storage Allocation must be coordinated with the Authority. A Storage Partner may not transfer or assign any of its rights or obligations as part of any sale of water. The receiving Storage Partner or other entity must have sufficient available Storage Allocation to store the water or release the water upon purchase.

RELEASES OF WATER FROM STORAGE

(26) To the extent allowed by the Project's permits, approvals and agreements and its physical and operational capabilities, Storage Partners have total discretion on the amount of water held in their Storage Allocation that they request to be scheduled for release for their use, and will have control over the use of their Storage Allocation space based on the conditions set forth in these Principles.

(27) Each year, the Authority will make a water storage forecast for each Storage Partner. Each Storage Partner will provide the schedule and amounts of the water they wish to be released in that year. The Authority will establish a process, including schedule, that allows for the Storage Partner to make changes to its water schedule and amounts for release throughout the year.

(28) The Authority will work with each Storage Partner, the State Water Project, Central Valley Project, Tehama Colusa Canal Authority, the Glenn Colusa Irrigation District, entities along the Colusa Basin Drain, and regulatory agencies and make all reasonable efforts to satisfy the water release schedules requested by each Storage Partner. If there is a release constraint affecting the ability of the Authority to meet the requested water release schedules, the Authority will work with those conflicted Storage Partners to see if accommodations can be made. If the conflict cannot be resolved, releases will be made in proportion to the Storage Allocation attributable to the conflicted Storage Partners.

UNIFORM STANDARDS FOR ALL STORAGE PARTNERS

(29) All Storage Partners are subject to uniform standards in the operation of the Project. Uniform standards include, but are not limited to, priority of diversions, storage, releases, and conveyance of Sites Water through Project facilities and utilization of their respective Storage Allocation.

CONFLICT RESOLUTION

(30) The Authority will develop a conflict resolution mechanism to resolve conflicts that may arise in Project operations. This conflict resolution process will be included in the Water Storage and Supply Services Contract.

FUTURE CHANGES

(31) It is anticipated that these Principles will evolve and change as the Project develops and as permits, approvals, and agreements are obtained and executed. These Principles may be modified in the future by the Authority.

DATE

April 21, 2021

Attachment C

Methodology for Allocating Reservoir Storage



Topic: Reservoir Committee Meeting Agenda Item 2.2

2021 April 16

Subject: Approach for Allocating Storage Space in the Reservoir

Requested Action:

Approve the recommended methodology for allocating storage space in Sites Reservoir to each local Storage Partner using the final proposed formulaic approach of 1 acre-foot Amendment 2 participation to 6.234 acre-feet of storage space.

Detailed Description/Background:

An important component of the Principles for the Storage, Delivery and Sale of Sites Reservoir Project Water (Storage Principles), and a foundational principle of the Sites Project, is that each Storage Partner has allocated storage space in Sites Reservoir (termed “Storage Allocation” in the Storage Principles discussed in Item 2.1 of today’s agenda). This Storage Allocation is managed by the Storage Partner to optimize the benefits received from the Sites Project and is used to determine the proportion of diverted water provided to each Storage Partner.

If approved, the recommended method would identify the amount of storage allocation to each Storage Partner. Future documents and contracts would include the amount of storage allocated to the respective Storage Partner.

In February 2021, staff reviewed principles and objectives of allocating reservoir storage with the Reservoir Committee and Authority Board. Principles included equitable treatment between local participants, confirming neither the State nor Reclamation receive disproportionate benefits when compared to local participants, and considerations of the Credit Reimbursement Policy. Staff reviewed the proposed allocation again in March 2021 to provide participants a second opportunity to review and ask questions.

The proposed allocation for local, State and Federal Storage Partners, based on a 1.5 million acre-foot reservoir, is shown in Table 1 below.

Table 1. Summary of Storage Allocation for Local, State and Federal Storage Partners

Storage Type	Storage Allocation (thousand acre-feet)	Percent Active Storage
Dead Pool	120	N/A
State – CDFW	244	17.7%
Federal - Reclamation (low end of range)	91	6.6%
Local Storage Partners	1,045	75.7%
Total	1,500	100%

The State Storage Allocation is estimated based on the amount of storage required to meet ecosystem benefits awarded through Proposition 1 which is to be “trued up” later this year through the State’s feasibility evaluation.

The Federal Storage Allocation is based on assumptions consistent with Alternative 1B, the Authority’s preferred alternative in the Revised Draft EIR/Supplemental Draft EIS. Up to 25% cost share was found to be feasible by the Secretary of Interior and could be accommodated with voluntary reductions in the local agency participation consistent with Alternative 3 in the Revised Draft EIR/Supplemental Draft EIS if funding is available. Increasing the reservoir size beyond 1.5 million acre-feet is not being contemplated at this time.

A recommended methodology for allocating storage to local Storage Partners was provided in February and March 2021 and remains unchanged. The recommended method is the following mathematical conversion based on a 1.5 million-acre-foot reservoir:

$$\text{Existing participation} \times 6.234 = \text{Storage Allocation}$$

Example: 1,000 acre-feet per year Amendment 2 participation = 6,234 acre-feet Storage Allocation

The recommended methodology allocates all available storage based on existing participation and after accounting for estimated storage for the State and Federal government along with the dead pool. The State and Federal estimates are expected to be finalized over the next six to nine months. The final State and Federal numbers can affect the local storage amounts but the proportionate shares of the local storage among the participants would remain unchanged. Similarly, using the Alternative 2 reservoir size of 1.3 million-acre-feet would have an effect on the local storage amount allocated to each participant but the proportionate share of space among participants would remain the same.

The recommended methodology was reviewed and recommended for approval by the Storage Policy Small Group and the Ad Hoc Reservoir Operations and Engineering Workgroup. Staff recommends that the Reservoir Committee approve the recommended methodology for allocating storage space in Sites Reservoir to each local Storage Partner using the final proposed formulaic approach of 1 acre-foot Amendment 2 participation to 6.234 acre-feet of storage space.

Prior Action:

March Meetings & February 19, 2021: Reviewed and commented on the approach for allocating storage space in the reservoir.

Fiscal Impact/Funding Source:

None.

Staff Contact:

Ali Forsythe

Attachments:

Attachment A - Storage Allocation Based on Amendment 2 Participation

Storage Allocation Based on Amendment 2 Participation Levels
 April 16, 2021

Participant Name	Storage (AF)	% Active Storage
Antelope Valley-East Kern WA	3,117	0.2%
Carter MWC	1,870	0.1%
City of American Canyon	24,937	1.8%
Coachella Valley WD	62,343	4.5%
Colusa County	62,343	4.5%
Colusa County WD	62,799	4.6%
Cortina WD	2,805	0.2%
Davis WD	12,469	0.9%
Desert WA	40,523	2.9%
Dunnigan WD	18,528	1.3%
Glenn-Colusa ID	31,172	2.3%
Irvine Ranch WD	6,234	0.5%
LaGrande WD	6,234	0.5%
Metropolitan Water District of SC	311,717	22.6%
Reclamation District 108	24,937	1.8%
Rosedale-Rio Bravo WD	3,117	0.2%
San Bernardino Valley Municipal WD	133,415	9.7%
San Geronio Pass WA	87,281	6.3%
Santa Clara Valley WD	3,117	0.2%
Santa Clarita Valley WA	31,172	2.3%
Westside WD	33,510	2.4%
Wheeler Ridge - Maricopa WSD	19,015	1.4%
Zone 7 WA	62,343	4.5%
Reclamation	91,000	6.6%
State of California - Ecosystem	244,000	17.7%
Dead Pool	120,000	N/A
Total	1,500,000	100%

Attachment D

Assumptions for Releases or Demands and Deliveries by Year Type

Draft – Subject to Revision Sites Project: Participant Delivery Reports

This document summarizes Sites Project Participants Delivery Reports that have been prepared for Alternative 1A 011221, Alternative 1B 011221, Alternative 2 011221, and Alternative 3 020121. These reports allow each participant to see their long-term and water year-type average Sites Project deliveries as modeled in CalSim II.

Summary of Reports

This document consists of a summary table and individual reports for each participant. The summary table reports the modeled end-point deliveries of Sites Project water to participants for each alternative. Participants are listed alphabetically, grouped by North of Delta and South of Delta.

The individual participants reports display long-term, dry, and critically dry water year, and water year type average end-point deliveries for each Sites Project participant. Water year types are assigned using the D-1641 Sacramento Valley 40-30-30 water year type calculation and annual averages are calculated on a March-February CVP contract year for North of Delta participants and a January-December SWP contract year for South of Delta participants.

Assumptions

End-point deliveries of Sites Project water to each region was assigned proportionally to each participant based on their participation level in Amendment 2 on November 20, 2020.

The following assumptions apply to deliveries to each participant group:

Tehama-Colusa Canal Authority (TCCA)

Water is released from the TCCA Sites account with the intention of meeting up to 100% of participants' CVP contract amount. When water is not needed to meet TCCA participants contract amounts, water may be transferred to the South of Delta Participants account during May of Above Normal and Below Normal water years when account storage is over two-thirds of capacity. Releases are made directly to the Tehama-Colusa Canal. Deliveries are equal to these releases; no conveyance losses are assumed.

Glenn-Colusa Irrigation District (GCID)

Water is released from the GCID Sites account in April and May when CVP Settlement Contract deliveries are reduced to 75% in Shasta critical years. In all other years, except for wet years, water is transferred to the South of Delta Participants account. Releases are made directly to the Glenn-Colusa Canal. Deliveries are equal to these releases; no conveyance losses are assumed.

Reclamation District 108 (RD-108) and Carter MWC

Water is released from the RD-108 and Carter MWC Sites account in April and May when CVP Settlement Contract deliveries are reduced to 75% in Shasta critical years. In all other years, except for wet years, water is transferred to the South of Delta Participants account. Releases are made through the Tehama-Colusa Canal to the Dunnigan Pipeline to facilitate an exchange with the Sacramento River. Deliveries are equal to these releases; no conveyance losses are assumed.

County of Colusa

Water is released from the County of Colusa Sites account for groundwater replenishment. Releases are limited to 10 TAF per year from June through September. Releases are made directly to the Tehama-Colusa Canal. Deliveries are equal to these releases; no conveyance losses are assumed.

South of Delta Participants

Water may be released from the South of Delta Participants Sites account in all but wet water years. There are four ways that water may be delivered to South of Delta Participants: direct release to the Sacramento River through the Dunnigan Pipeline, exchanges with Sacramento River at Hamilton City by replacing CVP diversions to GCID with releases from Sites, exchanges with Shasta Lake, and exchanges with the SWP at Lake Oroville. Releases are then exported from the Delta through Banks Pumping Plant. Exports of releases of South of Delta Participants water are limited to July through November.

Deliveries to South of Delta participants are based on the export at the Banks Pumping Plant. In these reports, deliveries are allocated based on Sites Project participation levels. The difference between the release from Sites Reservoir and Delta Exports accounts for carriage water and other losses. Exports to South of Delta Participants are subject to export availability. It is assumed that all South of Delta participants proportionally share exported water regardless of the pattern of exports.

Limitations

These reports only include deliveries to Sites Project participants from the Sites PWA accounts. It does not report incidental changes in SWP and CVP deliveries or additional CVP deliveries due to CVP Operational Flexibility from federal investment in the Sites Project.

Sites Project Deliveries

DRAFT-Subject to Revision

Participant	Long Term Average Deliveries (TAF/year)			
	ALT 1A 011221	ALT 1B 011221	ALT 2 011221	ALT 3 020121
North of Delta Participants				
Carter Mutual Water Company	0.03	0.03	0.03	0.02
Colusa County WD	10.4	9.7	9.9	8.2
Cortina WD	0.5	0.4	0.4	0.4
County of Colusa	7.0	6.9	7.0	6.7
Davis Water District	2.1	1.9	2.0	1.6
Dunnigan WD	3.1	2.9	2.9	2.4
Glenn Colusa Irrigation District	0.5	0.5	0.5	0.4
LaGrande Water District	1.0	1.0	1.0	0.8
RD-108	0.4	0.4	0.4	0.3
Westside W.D.	5.6	5.2	5.3	4.4
Total NOD Delivery	30.5	28.9	29.3	25.2
South of Delta Participants				
Antelope Valley East Kern WA	0.4	0.4	0.3	0.3
City of American Canyon	2.1	2.1	2.1	2.1
Coachella Valley Water District	7.8	7.2	7.0	5.6
Desert WA	5.1	4.7	4.5	3.7
Irvine Ranch Water District	0.8	0.7	0.7	0.6
Metropolitan Water District of Southern California	38.9	36.1	34.8	28.2
Rosedale-Rio Bravo Water District	0.4	0.4	0.3	0.3
San Bernardino Valley Municipal Water District	16.6	15.4	14.9	12.1
San Geronio Pass Water Agency	10.9	10.1	9.7	7.9
Santa Clara Valley WD	0.4	0.4	0.3	0.3
Santa Clarita Valley Water Agency	3.9	3.6	3.5	2.8
Wheeler Ridge-Maricopa WSD	2.4	2.2	2.1	1.7
Zone 7 Water Agency	7.8	7.2	7.0	5.6
Total SOD Delivery	97.4	90.5	87.3	71.3
Total Sites PWA Delivery	127.9	119.4	116.6	96.5

Notes:

1. Water year types are calculated using the D-1641 Sacramento Valley 40-30-30 water year type calculation
2. End-point deliveries assume the NOD to SOD transfer operation as defined in the assumptions
3. Annual average deliveries are calculated on a Mar-Feb CVP contract year for North of Delta participants
4. Annual average deliveries are calculated on a Jan-Dec SWP contract year for South of Delta participants
5. South of Delta deliveries are based on Authority exports modeled in CalSim II
6. Deliveries do not include any San Luis reoperation or south of Delta storage agreements
7. South of Delta delivery arcs were combined and then deliveries were distributed proportional to participation

Sites Project Deliveries

DRAFT-Subject to Revision

Sites Participant: Carter Mutual Water Company

Deliveries (TAF/year)

	ALT 1A 011221	ALT 1B 011221	ALT 2 011221	ALT 3 020121
Long-term Average	0.0	0.0	0.0	0.0
Dry and Critically Dry Years	0.1	0.1	0.1	0.1
Wet Years	0.0	0.0	0.0	0.0
Above Normal Years	0.0	0.0	0.0	0.0
Below Normal Years	0.0	0.0	0.0	0.0
Dry Years	0.0	0.0	0.0	0.0
Critically Dry Years	0.2	0.2	0.2	0.1

Notes:

1. Water year types are calculated using the D-1641 Sacramento Valley 40-30-30 water year type calculation
2. End-point deliveries assume the NOD to SOD transfer operation as defined in the assumptions
3. Annual average deliveries are calculated on a Mar-Feb CVP contract year for NOD participants

Sites Project Deliveries

DRAFT-Subject to Revision

Sites Participant: Colusa County WD

Deliveries (TAF/year)

	ALT 1A 011221	ALT 1B 011221	ALT 2 011221	ALT 3 020121
Long-term Average	10.4	9.7	9.9	8.2
Dry and Critically Dry Years	24.3	22.6	23.3	19.4
Wet Years	0.8	0.8	0.8	0.8
Above Normal Years	0.3	0.3	0.3	0.3
Below Normal Years	6.5	6.3	5.5	4.0
Dry Years	21.7	20.8	21.2	17.7
Critically Dry Years	28.3	25.2	26.4	22.0

Notes:

1. Water year types are calculated using the D-1641 Sacramento Valley 40-30-30 water year type calculation
2. End-point deliveries assume the NOD to SOD transfer operation as defined in the assumptions
3. Annual average deliveries are calculated on a Mar-Feb CVP contract year for NOD participants

Sites Project Deliveries

DRAFT-Subject to Revision

Sites Participant: Cortina WD

Deliveries (TAF/year)

	ALT 1A 011221	ALT 1B 011221	ALT 2 011221	ALT 3 020121
Long-term Average	0.5	0.4	0.4	0.4
Dry and Critically Dry Years	1.1	1.0	1.0	0.9
Wet Years	0.0	0.0	0.0	0.0
Above Normal Years	0.0	0.0	0.0	0.0
Below Normal Years	0.3	0.3	0.2	0.2
Dry Years	1.0	0.9	0.9	0.8
Critically Dry Years	1.3	1.1	1.2	1.0

Notes:

1. Water year types are calculated using the D-1641 Sacramento Valley 40-30-30 water year type calculation
2. End-point deliveries assume the NOD to SOD transfer operation as defined in the assumptions
3. Annual average deliveries are calculated on a Mar-Feb CVP contract year for NOD participants

Sites Project Deliveries

DRAFT-Subject to Revision

Sites Participant: County of Colusa

Deliveries (TAF/year)

	ALT 1A 011221	ALT 1B 011221	ALT 2 011221	ALT 3 020121
Long-term Average	7.0	6.9	7.0	6.7
Dry and Critically Dry Years	8.7	8.5	8.7	7.8
Wet Years	5.1	5.1	5.1	5.1
Above Normal Years	5.7	5.7	5.7	5.7
Below Normal Years	8.0	8.0	8.1	8.1
Dry Years	8.4	8.6	8.6	8.7
Critically Dry Years	9.1	8.3	8.7	6.5

Notes:

1. Water year types are calculated using the D-1641 Sacramento Valley 40-30-30 water year type calculation
2. Annual average deliveries are calculated on a Mar-Feb CVP contract year for NOD participants

Sites Project Deliveries

DRAFT-Subject to Revision

Sites Participant: Davis Water District

Deliveries (TAF/year)

	ALT 1A 011221	ALT 1B 011221	ALT 2 011221	ALT 3 020121
Long-term Average	2.1	1.9	2.0	1.6
Dry and Critically Dry Years	4.8	4.5	4.6	3.9
Wet Years	0.2	0.2	0.2	0.2
Above Normal Years	0.0	0.0	0.0	0.0
Below Normal Years	1.3	1.3	1.1	0.8
Dry Years	4.3	4.1	4.2	3.5
Critically Dry Years	5.6	5.0	5.2	4.4

Notes:

1. Water year types are calculated using the D-1641 Sacramento Valley 40-30-30 water year type calculation
2. End-point deliveries assume the NOD to SOD transfer operation as defined in the assumptions
3. Annual average deliveries are calculated on a Mar-Feb CVP contract year for NOD participants

Sites Project Deliveries

DRAFT-Subject to Revision

Sites Participant: Dunnigan WD

Deliveries (TAF/year)

	ALT 1A 011221	ALT 1B 011221	ALT 2 011221	ALT 3 020121
Long-term Average	3.1	2.9	2.9	2.4
Dry and Critically Dry Years	7.2	6.7	6.9	5.7
Wet Years	0.2	0.2	0.2	0.2
Above Normal Years	0.1	0.1	0.1	0.1
Below Normal Years	1.9	1.9	1.6	1.2
Dry Years	6.4	6.1	6.3	5.2
Critically Dry Years	8.4	7.4	7.8	6.5

Notes:

1. Water year types are calculated using the D-1641 Sacramento Valley 40-30-30 water year type calculation
2. End-point deliveries assume the NOD to SOD transfer operation as defined in the assumptions
3. Annual average deliveries are calculated on a Mar-Feb CVP contract year for NOD participants

Sites Project Deliveries

DRAFT-Subject to Revision

Sites Participant: Glenn Colusa Irrigation District

Deliveries (TAF/year)

	ALT 1A 011221	ALT 1B 011221	ALT 2 011221	ALT 3 020121
Long-term Average	0.5	0.5	0.5	0.4
Dry and Critically Dry Years	1.4	1.2	1.4	1.2
Wet Years	0.0	0.0	0.0	0.0
Above Normal Years	0.0	0.0	0.0	0.0
Below Normal Years	0.0	0.0	0.0	0.0
Dry Years	0.3	0.2	0.3	0.2
Critically Dry Years	3.0	2.8	3.0	2.6

Notes:

1. Water year types are calculated using the D-1641 Sacramento Valley 40-30-30 water year type calculation
2. End-point deliveries assume the NOD to SOD transfer operation as defined in the assumptions
3. Annual average deliveries are calculated on a Mar-Feb CVP contract year for NOD participants

Sites Project Deliveries

DRAFT-Subject to Revision

Sites Participant: LaGrande Water District

Deliveries (TAF/year)

	ALT 1A 011221	ALT 1B 011221	ALT 2 011221	ALT 3 020121
Long-term Average	1.0	1.0	1.0	0.8
Dry and Critically Dry Years	2.4	2.2	2.3	1.9
Wet Years	0.1	0.1	0.1	0.1
Above Normal Years	0.0	0.0	0.0	0.0
Below Normal Years	0.6	0.6	0.5	0.4
Dry Years	2.1	2.1	2.1	1.8
Critically Dry Years	2.8	2.5	2.6	2.2

Notes:

1. Water year types are calculated using the D-1641 Sacramento Valley 40-30-30 water year type calculation
2. End-point deliveries assume the NOD to SOD transfer operation as defined in the assumptions
3. Annual average deliveries are calculated on a Mar-Feb CVP contract year for NOD participants

Sites Project Deliveries

DRAFT-Subject to Revision

Sites Participant: RD-108

Deliveries (TAF/year)

	ALT 1A 011221	ALT 1B 011221	ALT 2 011221	ALT 3 020121
Long-term Average	0.4	0.4	0.4	0.3
Dry and Critically Dry Years	1.0	1.0	1.0	0.9
Wet Years	0.0	0.0	0.0	0.0
Above Normal Years	0.0	0.0	0.0	0.0
Below Normal Years	0.0	0.0	0.0	0.0
Dry Years	0.1	0.1	0.1	0.1
Critically Dry Years	2.3	2.2	2.3	2.0

Notes:

1. Water year types are calculated using the D-1641 Sacramento Valley 40-30-30 water year type calculation
2. End-point deliveries assume the NOD to SOD transfer operation as defined in the assumptions
3. Annual average deliveries are calculated on a Mar-Feb CVP contract year for NOD participants

Sites Project Deliveries

DRAFT-Subject to Revision

Sites Participant: Westside W.D.

Deliveries (TAF/year)

	ALT 1A 011221	ALT 1B 011221	ALT 2 011221	ALT 3 020121
Long-term Average	5.6	5.2	5.3	4.4
Dry and Critically Dry Years	13.0	12.0	12.4	10.4
Wet Years	0.4	0.4	0.4	0.4
Above Normal Years	0.1	0.1	0.1	0.1
Below Normal Years	3.5	3.4	2.9	2.2
Dry Years	11.6	11.1	11.3	9.4
Critically Dry Years	15.1	13.5	14.1	11.7

Notes:

1. Water year types are calculated using the D-1641 Sacramento Valley 40-30-30 water year type calculation
2. End-point deliveries assume the NOD to SOD transfer operation as defined in the assumptions
3. Annual average deliveries are calculated on a Mar-Feb CVP contract year for NOD participants

Sites Project Deliveries

DRAFT-Subject to Revision

Sites Participant: Total NOD Delivery

Deliveries (TAF/year)

	ALT 1A 011221	ALT 1B 011221	ALT 2 011221	ALT 3 020121
Long-term Average	30.5	28.9	29.3	25.2
Dry and Critically Dry Years	63.9	59.8	61.7	52.0
Wet Years	6.8	6.8	6.8	6.8
Above Normal Years	6.2	6.2	6.2	6.2
Below Normal Years	22.0	21.7	20.0	16.8
Dry Years	55.8	54.1	55.1	47.4
Critically Dry Years	76.0	68.2	71.5	59.0

Notes:

1. Water year types are calculated using the D-1641 Sacramento Valley 40-30-30 water year type calculation
2. End-point deliveries assume the NOD to SOD transfer operation as defined in the assumptions
3. Annual average deliveries are calculated on a Mar-Feb CVP contract year for NOD participants

Sites Project Deliveries

DRAFT-Subject to Revision

Sites Participant: Antelope Valley East Kern WA

Deliveries (TAF/year)

	ALT 1A 011221	ALT 1B 011221	ALT 2 011221	ALT 3 020121
Long-term Average	0.4	0.4	0.3	0.3
Dry and Critically Dry Years	1.0	0.9	0.9	0.7
Wet Years	0.0	0.0	0.0	0.0
Above Normal Years	0.0	0.0	0.0	0.0
Below Normal Years	0.2	0.1	0.2	0.1
Dry Years	1.0	0.9	0.9	0.7
Critically Dry Years	0.9	0.9	0.8	0.7

Notes:

1. Water year types are calculated using the D-1641 Sacramento Valley 40-30-30 water year type calculation
2. End-point deliveries assume the NOD to SOD transfer operation as defined in the assumptions
3. Annual average deliveries are calculated on a Jan-Dec SWP contract year for SOD participants
4. South of Delta deliveries are based on Authority exports modeled in CalSim II
5. Deliveries do not include any San Luis reoperation or south of Delta storage agreements
6. South of Delta delivery arcs were combined and then deliveries were distributed proportional to participation

Sites Project Deliveries

DRAFT-Subject to Revision

Sites Participant: City of American Canyon

Deliveries (TAF/year)

	ALT 1A 011221	ALT 1B 011221	ALT 2 011221	ALT 3 020121
Long-term Average	2.1	2.1	2.1	2.1
Dry and Critically Dry Years	3.9	3.9	3.9	3.9
Wet Years	0.0	0.0	0.0	0.0
Above Normal Years	0.0	0.0	0.0	0.0
Below Normal Years	4.0	4.0	4.0	4.0
Dry Years	4.0	4.0	4.0	4.0
Critically Dry Years	3.7	3.7	3.7	3.7

Notes:

1. Water year types are calculated using the D-1641 Sacramento Valley 40-30-30 water year type calculation
2. End-point deliveries assume the NOD to SOD transfer operation as defined in the assumptions
3. Annual average deliveries are calculated on a Jan-Dec SWP contract year for SOD participants
4. South of Delta deliveries are based on Authority exports modeled in CalSim II
5. Deliveries do not include any San Luis reoperation or south of Delta storage agreements
6. South of Delta delivery arcs were combined and then deliveries were distributed proportional to participation

Sites Project Deliveries

DRAFT-Subject to Revision

Sites Participant: Coachella Valley Water District

Deliveries (TAF/year)

	ALT 1A 011221	ALT 1B 011221	ALT 2 011221	ALT 3 020121
Long-term Average	7.8	7.2	7.0	5.6
Dry and Critically Dry Years	19.5	18.2	17.3	14.2
Wet Years	0.0	0.0	0.0	0.0
Above Normal Years	0.0	0.0	0.0	0.0
Below Normal Years	3.1	2.8	3.2	2.2
Dry Years	20.8	18.9	18.6	14.6
Critically Dry Years	17.7	17.0	15.3	13.5

Notes:

1. Water year types are calculated using the D-1641 Sacramento Valley 40-30-30 water year type calculation
2. End-point deliveries assume the NOD to SOD transfer operation as defined in the assumptions
3. Annual average deliveries are calculated on a Jan-Dec SWP contract year for SOD participants
4. South of Delta deliveries are based on Authority exports modeled in CalSim II
5. Deliveries do not include any San Luis reoperation or south of Delta storage agreements
6. South of Delta delivery arcs were combined and then deliveries were distributed proportional to participation

Sites Project Deliveries

DRAFT-Subject to Revision

Sites Participant: Desert WA

Deliveries (TAF/year)

	ALT 1A 011221	ALT 1B 011221	ALT 2 011221	ALT 3 020121
Long-term Average	5.1	4.7	4.5	3.7
Dry and Critically Dry Years	12.7	11.8	11.2	9.2
Wet Years	0.0	0.0	0.0	0.0
Above Normal Years	0.0	0.0	0.0	0.0
Below Normal Years	2.0	1.9	2.1	1.5
Dry Years	13.5	12.3	12.1	9.5
Critically Dry Years	11.5	11.1	9.9	8.8

Notes:

1. Water year types are calculated using the D-1641 Sacramento Valley 40-30-30 water year type calculation
2. End-point deliveries assume the NOD to SOD transfer operation as defined in the assumptions
3. Annual average deliveries are calculated on a Jan-Dec SWP contract year for SOD participants
4. South of Delta deliveries are based on Authority exports modeled in CalSim II
5. Deliveries do not include any San Luis reoperation or south of Delta storage agreements
6. South of Delta delivery arcs were combined and then deliveries were distributed proportional to participation

Sites Project Deliveries

DRAFT-Subject to Revision

Sites Participant: Irvine Ranch Water District

Deliveries (TAF/year)

	ALT 1A 011221	ALT 1B 011221	ALT 2 011221	ALT 3 020121
Long-term Average	0.8	0.7	0.7	0.6
Dry and Critically Dry Years	2.0	1.8	1.7	1.4
Wet Years	0.0	0.0	0.0	0.0
Above Normal Years	0.0	0.0	0.0	0.0
Below Normal Years	0.3	0.3	0.3	0.2
Dry Years	2.1	1.9	1.9	1.5
Critically Dry Years	1.8	1.7	1.5	1.4

Notes:

1. Water year types are calculated using the D-1641 Sacramento Valley 40-30-30 water year type calculation
2. End-point deliveries assume the NOD to SOD transfer operation as defined in the assumptions
3. Annual average deliveries are calculated on a Jan-Dec SWP contract year for SOD participants
4. South of Delta deliveries are based on Authority exports modeled in CalSim II
5. Deliveries do not include any San Luis reoperation or south of Delta storage agreements
6. South of Delta delivery arcs were combined and then deliveries were distributed proportional to participation

Sites Project Deliveries

DRAFT-Subject to Revision

Sites Participant: Metropolitan Water District of Southern California

Deliveries (TAF/year)

	ALT 1A 011221	ALT 1B 011221	ALT 2 011221	ALT 3 020121
Long-term Average	38.9	36.1	34.8	28.2
Dry and Critically Dry Years	97.7	90.8	86.3	71.0
Wet Years	0.0	0.0	0.0	0.0
Above Normal Years	0.0	0.0	0.0	0.0
Below Normal Years	15.6	14.2	16.1	11.2
Dry Years	103.9	94.5	92.9	73.2
Critically Dry Years	88.4	85.2	76.4	67.7

Notes:

1. Water year types are calculated using the D-1641 Sacramento Valley 40-30-30 water year type calculation
2. End-point deliveries assume the NOD to SOD transfer operation as defined in the assumptions
3. Annual average deliveries are calculated on a Jan-Dec SWP contract year for SOD participants
4. South of Delta deliveries are based on Authority exports modeled in CalSim II
5. Deliveries do not include any San Luis reoperation or south of Delta storage agreements
6. South of Delta delivery arcs were combined and then deliveries were distributed proportional to participation

Sites Project Deliveries

DRAFT-Subject to Revision

Sites Participant: Rosedale-Rio Bravo Water District

Deliveries (TAF/year)

	ALT 1A 011221	ALT 1B 011221	ALT 2 011221	ALT 3 020121
Long-term Average	0.4	0.4	0.3	0.3
Dry and Critically Dry Years	1.0	0.9	0.9	0.7
Wet Years	0.0	0.0	0.0	0.0
Above Normal Years	0.0	0.0	0.0	0.0
Below Normal Years	0.2	0.1	0.2	0.1
Dry Years	1.0	0.9	0.9	0.7
Critically Dry Years	0.9	0.9	0.8	0.7

Notes:

1. Water year types are calculated using the D-1641 Sacramento Valley 40-30-30 water year type calculation
2. End-point deliveries assume the NOD to SOD transfer operation as defined in the assumptions
3. Annual average deliveries are calculated on a Jan-Dec SWP contract year for SOD participants
4. South of Delta deliveries are based on Authority exports modeled in CalSim II
5. Deliveries do not include any San Luis reoperation or south of Delta storage agreements
6. South of Delta delivery arcs were combined and then deliveries were distributed proportional to participation

Sites Project Deliveries

DRAFT-Subject to Revision

Sites Participant: San Bernardino Valley Municipal Water District

Deliveries (TAF/year)

	ALT 1A 011221	ALT 1B 011221	ALT 2 011221	ALT 3 020121
Long-term Average	16.6	15.4	14.9	12.1
Dry and Critically Dry Years	41.8	38.9	37.0	30.4
Wet Years	0.0	0.0	0.0	0.0
Above Normal Years	0.0	0.0	0.0	0.0
Below Normal Years	6.7	6.1	6.9	4.8
Dry Years	44.5	40.5	39.8	31.3
Critically Dry Years	37.8	36.5	32.7	29.0

Notes:

1. Water year types are calculated using the D-1641 Sacramento Valley 40-30-30 water year type calculation
2. End-point deliveries assume the NOD to SOD transfer operation as defined in the assumptions
3. Annual average deliveries are calculated on a Jan-Dec SWP contract year for SOD participants
4. South of Delta deliveries are based on Authority exports modeled in CalSim II
5. Deliveries do not include any San Luis reoperation or south of Delta storage agreements
6. South of Delta delivery arcs were combined and then deliveries were distributed proportional to participation

Sites Project Deliveries

DRAFT-Subject to Revision

Sites Participant: San Geronio Pass Water Agency

Deliveries (TAF/year)

	ALT 1A 011221	ALT 1B 011221	ALT 2 011221	ALT 3 020121
Long-term Average	10.9	10.1	9.7	7.9
Dry and Critically Dry Years	27.4	25.4	24.2	19.9
Wet Years	0.0	0.0	0.0	0.0
Above Normal Years	0.0	0.0	0.0	0.0
Below Normal Years	4.4	4.0	4.5	3.1
Dry Years	29.1	26.5	26.0	20.5
Critically Dry Years	24.7	23.9	21.4	19.0

Notes:

1. Water year types are calculated using the D-1641 Sacramento Valley 40-30-30 water year type calculation
2. End-point deliveries assume the NOD to SOD transfer operation as defined in the assumptions
3. Annual average deliveries are calculated on a Jan-Dec SWP contract year for SOD participants
4. South of Delta deliveries are based on Authority exports modeled in CalSim II
5. Deliveries do not include any San Luis reoperation or south of Delta storage agreements
6. South of Delta delivery arcs were combined and then deliveries were distributed proportional to participation

Sites Project Deliveries

DRAFT-Subject to Revision

Sites Participant: Santa Clara Valley WD

Deliveries (TAF/year)

	ALT 1A 011221	ALT 1B 011221	ALT 2 011221	ALT 3 020121
Long-term Average	0.4	0.4	0.3	0.3
Dry and Critically Dry Years	1.0	0.9	0.9	0.7
Wet Years	0.0	0.0	0.0	0.0
Above Normal Years	0.0	0.0	0.0	0.0
Below Normal Years	0.2	0.1	0.2	0.1
Dry Years	1.0	0.9	0.9	0.7
Critically Dry Years	0.9	0.9	0.8	0.7

Notes:

1. Water year types are calculated using the D-1641 Sacramento Valley 40-30-30 water year type calculation
2. End-point deliveries assume the NOD to SOD transfer operation as defined in the assumptions
3. Annual average deliveries are calculated on a Jan-Dec SWP contract year for SOD participants
4. South of Delta deliveries are based on Authority exports modeled in CalSim II
5. Deliveries do not include any San Luis reoperation or south of Delta storage agreements
6. South of Delta delivery arcs were combined and then deliveries were distributed proportional to participation

Sites Project Deliveries

DRAFT-Subject to Revision

Sites Participant: Santa Clarita Valley Water Agency

Deliveries (TAF/year)

	ALT 1A 011221	ALT 1B 011221	ALT 2 011221	ALT 3 020121
Long-term Average	3.9	3.6	3.5	2.8
Dry and Critically Dry Years	9.8	9.1	8.6	7.1
Wet Years	0.0	0.0	0.0	0.0
Above Normal Years	0.0	0.0	0.0	0.0
Below Normal Years	1.6	1.4	1.6	1.1
Dry Years	10.4	9.5	9.3	7.3
Critically Dry Years	8.8	8.5	7.6	6.8

Notes:

1. Water year types are calculated using the D-1641 Sacramento Valley 40-30-30 water year type calculation
2. End-point deliveries assume the NOD to SOD transfer operation as defined in the assumptions
3. Annual average deliveries are calculated on a Jan-Dec SWP contract year for SOD participants
4. South of Delta deliveries are based on Authority exports modeled in CalSim II
5. Deliveries do not include any San Luis reoperation or south of Delta storage agreements
6. South of Delta delivery arcs were combined and then deliveries were distributed proportional to participation

Sites Project Deliveries

DRAFT-Subject to Revision

Sites Participant: Wheeler Ridge-Maricopa WSD

Deliveries (TAF/year)

	ALT 1A 011221	ALT 1B 011221	ALT 2 011221	ALT 3 020121
Long-term Average	2.4	2.2	2.1	1.7
Dry and Critically Dry Years	6.0	5.5	5.3	4.3
Wet Years	0.0	0.0	0.0	0.0
Above Normal Years	0.0	0.0	0.0	0.0
Below Normal Years	1.0	0.9	1.0	0.7
Dry Years	6.3	5.8	5.7	4.5
Critically Dry Years	5.4	5.2	4.7	4.1

Notes:

1. Water year types are calculated using the D-1641 Sacramento Valley 40-30-30 water year type calculation
2. End-point deliveries assume the NOD to SOD transfer operation as defined in the assumptions
3. Annual average deliveries are calculated on a Jan-Dec SWP contract year for SOD participants
4. South of Delta deliveries are based on Authority exports modeled in CalSim II
5. Deliveries do not include any San Luis reoperation or south of Delta storage agreements
6. South of Delta delivery arcs were combined and then deliveries were distributed proportional to participation

Sites Project Deliveries

DRAFT-Subject to Revision

Sites Participant: Zone 7 Water Agency

Deliveries (TAF/year)

	ALT 1A 011221	ALT 1B 011221	ALT 2 011221	ALT 3 020121
Long-term Average	7.8	7.2	7.0	5.6
Dry and Critically Dry Years	19.5	18.2	17.3	14.2
Wet Years	0.0	0.0	0.0	0.0
Above Normal Years	0.0	0.0	0.0	0.0
Below Normal Years	3.1	2.8	3.2	2.2
Dry Years	20.8	18.9	18.6	14.6
Critically Dry Years	17.7	17.0	15.3	13.5

Notes:

1. Water year types are calculated using the D-1641 Sacramento Valley 40-30-30 water year type calculation
2. End-point deliveries assume the NOD to SOD transfer operation as defined in the assumptions
3. Annual average deliveries are calculated on a Jan-Dec SWP contract year for SOD participants
4. South of Delta deliveries are based on Authority exports modeled in CalSim II
5. Deliveries do not include any San Luis reoperation or south of Delta storage agreements
6. South of Delta delivery arcs were combined and then deliveries were distributed proportional to participation

Sites Project Deliveries

DRAFT-Subject to Revision

Sites Participant: Total SOD Delivery

Deliveries (TAF/year)

	ALT 1A 011221	ALT 1B 011221	ALT 2 011221	ALT 3 020121
Long-term Average	97.4	90.5	87.3	71.3
Dry and Critically Dry Years	243.2	226.2	215.3	177.7
Wet Years	0.0	0.0	0.0	0.0
Above Normal Years	0.0	0.0	0.0	0.0
Below Normal Years	42.2	38.9	43.5	31.5
Dry Years	258.5	235.5	231.6	183.2
Critically Dry Years	220.1	212.3	190.8	169.6

Notes:

1. Water year types are calculated using the D-1641 Sacramento Valley 40-30-30 water year type calculation
2. End-point deliveries assume the NOD to SOD transfer operation as defined in the assumptions
3. Annual average deliveries are calculated on a Jan-Dec SWP contract year for SOD participants
4. South of Delta deliveries are based on Authority exports modeled in CalSim II
5. Deliveries do not include any San Luis reoperation or south of Delta storage agreements
6. South of Delta delivery arcs were combined and then deliveries were distributed proportional to participation

Sites Project Deliveries

DRAFT-Subject to Revision

Sites Participant: Total Sites PWA Delivery

Deliveries (TAF/year)

	ALT 1A 011221	ALT 1B 011221	ALT 2 011221	ALT 3 020121
Long-term Average	127.9	119.4	116.6	96.5
Dry and Critically Dry Years	307.1	286.0	277.0	229.8
Wet Years	6.8	6.8	6.8	6.8
Above Normal Years	6.2	6.2	6.2	6.2
Below Normal Years	64.2	60.6	63.6	48.3
Dry Years	314.4	289.6	286.7	230.5
Critically Dry Years	296.1	280.5	262.3	228.6

Notes:

1. Water year types are calculated using the D-1641 Sacramento Valley 40-30-30 water year type calculation
2. End-point deliveries assume the NOD to SOD transfer operation as defined in the assumptions
3. Annual average deliveries are calculated on a Mar-Feb CVP contract year for NOD participants and on a Jan-Dec SWP contract year for SOD participants
4. South of Delta deliveries are based on Authority exports modeled in CalSim II
5. Deliveries do not include any San Luis reoperation or south of Delta storage agreements
6. South of Delta delivery arcs were combined and then deliveries were distributed proportional to participation

Attachment E

Memorandum Identifying Modeled Criteria for Shasta Exchanges

Draft – Subject to Revision

Sites Project: Shasta Lake Exchange Modeling Assumptions

This document summarizes Sites Reservoir exchange operations with Shasta Lake. Then, details Reclamation's Cold Water Pool management at Shasta, as described in ROC on LTO. Finally, modeling assumptions are tabulated and expected benefits of the Shasta Exchange operation are highlighted.

Summary of Shasta Exchange Operation

Shasta Exchange is designed to support the Cold Water Pool Management and Fall and Winter Refill and Redd Maintenance Actions in the 2019 BiOps. In the Spring of Shasta Exchange years, Sacramento River Settlement Contractors (SRSC) and Tehama-Colusa Canal Authority (TCCA) members would receive water from Sites in lieu of Shasta. As Shasta is not delivering water to the SRSC and TCCA members, its releases would be reduced. Therefore, Shasta storage and cold water pool would be preserved through the Spring.

At the end of Spring, Sites has delivered CVP water instead of Shasta. The volume of delivered water is equivalent to the exchange volume preserved in Shasta. The exchange volume sustains Shasta cold water pool for use during the critical months of the cold water pool management season (August and September). In Late-Summer and Fall (August – November), the exchange volume augments releases from Shasta with cooler water and provides deliveries to Sites participants.

All exchange water must be released in the August through November period. Release of exchange water shall support the Cold Water Pool Management Action and Fall stability flows aspect of the Fall and Winter Refill and Redd Maintenance Action in the 2019 BiOps. As such, Shasta Exchanges would occur in years when forecasted temperature-based mortality of early life stage winter-run Chinook salmon would be reduced by a Shasta Exchange.

Summary of ROC on LTO Cold Water Pool Management

In the ROC on LTO Alternative 1 description, Reclamation proposes changes to cold water pool management during the temperature management period: May 15th to October 31st or when 95% of Winter-Run Chinook Salmon eggs have hatched and alevin have emerged, whichever is earlier. During the temperature management period, Reclamation will implement a tiered strategy based on Shasta cold water pool or total Shasta storage:

- ∞ Tier 1: May 1st cold water pool > 2.8 MAF (total Shasta storage > 4.1 MAF)
 - Daily average temperature of 53.5 deg F at Sacramento River below Clear Creek (CCR) throughout temperature management period
- ∞ Tier 2: May 1st cold water pool > 2.3 MAF (total Shasta storage > 3.5 MAF)
 - Daily average temperature of 53.5 deg F at CCR during hatch period (when highest concentration of hatching occurs; estimated as 2 months centered on August 7th)
 - Daily average temperature of 56 deg F at CCR for the rest of the temperature management period (before and after hatch period)
- ∞ Tier 3: May 1st total Shasta storage > 2.5 MAF
 - Allow daily average temperature above 53.5 deg F (up to 56 deg F) at CCR during hatch period
 - Attempt to maintain daily average temperature of 56 deg F at CCR for rest of temperature management period (before and after hatch period)
- ∞ Tier 4: May 1st total Shasta storage < 2.5 MAF
 - Discuss following intervention measures with USFWS and NMFS:
 - Reclamation would work with USFWS to increase hatchery production of Winter-Run Chinook Salmon
 - Reclamation would implement a downstream trap and haul strategy for the capture and transport of juvenile Chinook Salmon and Steelhead in the Sacramento River watershed.
 - In the event of two successive years with total egg-to-fry survival less than 15% in each year, Reclamation would convene a meeting of the Regional Directors of DWR, NMFS, USFWS, and CDFW to identify and implement actions to address the potential for a third year of low survival.

A decision tree of the tiered strategy is shown on page 5 (Figure 3.4-3 from the ROC on LTO FEIS).

Shasta Exchange Criteria

	Modeled Criteria	Notes
Exchange Period	Dry: Apr – Jun Critical: Apr - May	
Exchange Constraints		
Water year types	Dry and Critically Dry water years	
Temperature Management Tier	Tier 2, 3 and 4 years	
Minimum flow at Sacramento River at Keswick	Apr – May: 6,000 cfs Jun: 10,000 cfs	Exchanges in Dry and Critically Dry water years will not likely impact ROC on LTO Spring Pulse Flows action
Maximum allowable temperature at Sacramento River below Clear Creek	Apr – Jun: Tiers 2 and 3 years: 53.5 deg F Tier 4 years: 56 deg F	Per ROC on LTO FEIS
Sacramento Valley Conditions	Only during Excess conditions	
Release Period	Aug – Nov	Releases are prioritized in August through October.
Release Constraints		
Preferred flow at Sacramento River at Keswick	Aug: 12,000 cfs Sep: 10,000 cfs Oct: 5,000 cfs Nov: 5,000 cfs	Not explicitly modeled
Maximum volume	Limited to Banks Pumping Plant Capacity	Not an explicit constraint; model accounts for mass balance

¹Several assumptions are required to assume exchange operation criteria per ROC on LTO operations. Main assumptions are provided in “Notes” column.

Shasta Exchange Benefits to ROC on LTO Cold Water Pool Management

- ∞ Tier 1 years:
 - No benefit
- ∞ Tier 2 years:
 - Decreasing releases in April through June could preserve Shasta cold water pool for more targeted release in the hatching period (described above).
- ∞ Tier 3 years:
 - Decreasing releases in April through June could preserve Shasta cold water pool for more targeted release in the hatching period (described above).
- ∞ Tier 4 years:
 - Little benefit – On its own, Sites could not benefit Shasta cold water pool in an appreciable manner. In combination with intervention measures, Sites may prove beneficial.

Attachment from ROC on LTO FEIS

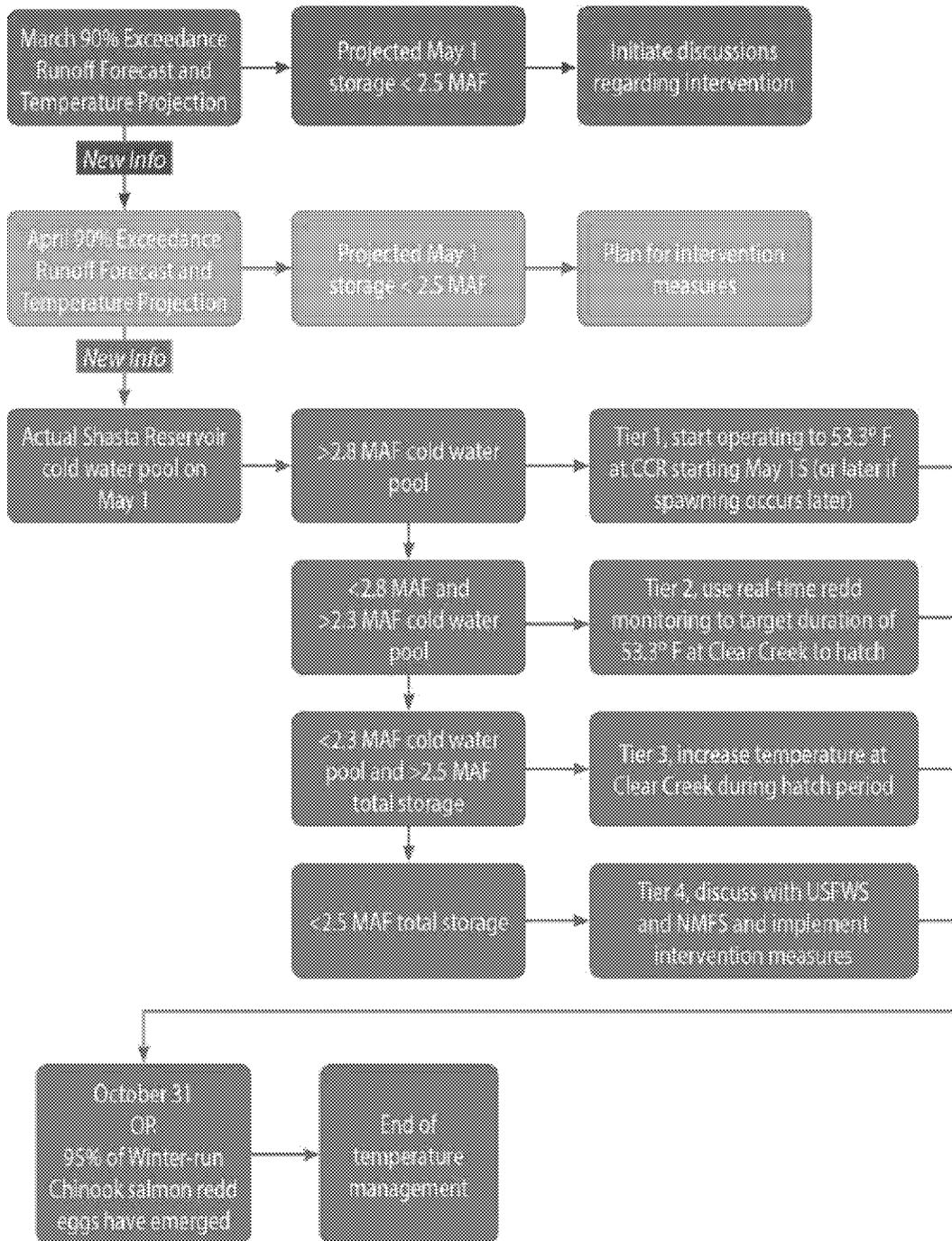


Figure 3.4-3. Decision Tree for Shasta Reservoir Temperature Management

Attachment F

Memorandum Identifying Modeled Criteria for Oroville Exchanges

Draft – Subject to Revision

Sites Project: Lake Oroville Exchange Modeling Assumptions

This document summarizes Sites Reservoir exchange operations with Lake Oroville. Then, details and tabulates modeling assumptions.

Summary of Oroville Exchange Operation

The Oroville exchange is designed to support cold water pool management of Oroville and augment delivery of Sites water to Delta Participants during the transfer window. In June and July of Oroville exchange years, a portion of SWP obligated releases would come from Sites in lieu of Oroville, reducing releases from Oroville. Therefore, Oroville storage and cold water pool would be preserved through the end of July.

At the end of July, Sites has released SWP water instead of Oroville. The volume of released water is equivalent to the exchange volume preserved in Oroville. In the late-Summer and Fall (August – November), the exchange volume augments Oroville releases, provides deliveries to Sites participants, and supports Oroville cold water pool management.

Oroville Exchange Operational Criteria

Assumptions of Oroville exchange operational criteria are detailed below. These criteria are also summarized in Table 1.

Exchange Period

In terms of physical Oroville storage capacity for an exchange, there is no assumed limit. Instead, the Oroville exchange volume is estimated in June and July based on Sites' forecasted transfer volume to south of Delta Storage Partners in August through November. If the Oroville exchange volume overestimates Sites' ability to transfer water south of the Delta, a portion of Sites exchange water remains in Oroville. This remaining exchange water is subject to spill.

The Oroville exchange period is limited to June and July. The Oroville exchange period starts in June due to the high degree of uncertainty in forecasting south of Delta transfers. Forecasting south of Delta transfers any earlier than June would pose a significant risk to losing Sites water, via spills from Oroville. Additionally, to protect Green Sturgeon habitat, Feather River flows must not decrease in August.

In Wet and Above Normal water years, Sites transfers to south of Delta Storage Partners are limited. As such, Oroville exchanges occur in Below Normal, Dry and Critically Dry water year types.

Release Period

The majority of exchange water is released in August and September, as October and November must consider Feather River fall stability flow targets. Per fall stability flow requirements, total Oroville releases are limited to 2,500 cfs from October 16th through November.

All exchange water must be released in the August through November period. If exchange water is not released by the end of November, it is subject to spill.

Table 1. Oroville Exchange Criteria

	Modeled Criteria	Notes
Exchange Period	June – July	Estimating volume of exchange water before June poses risk of losing Sites water to spill; Per Green Sturgeon requirements, Sites may not decrease Feather River flows in August
Exchange Constraints		
Water year types	Below Normal, Dry and Critically Dry water years	Oroville exchange not necessary in Wet and Above Normal water year types
Exchange Volume		Limited to minimize potential for spills of Sites water from Oroville
Release Period	August – November	
Release Constraints		
Delta Export Capacity		Considers conveyance capacity based on Feather River, Sacramento River and Delta regulatory requirements, and Banks Pumping Plant capacity
Max Feather River Flow	Oct: 4,000 cfs Nov: 2,250 cfs	Feather River fall stability flow requirements. October average flow of 4,000 cfs assumes flow requirement of 2,500 cfs for the 16 th through 31 st . November average of 2,250 cfs to protect fall stability flow requirement.
Spills	Spill Sites water in December	Unused Sites water in Oroville is subject to spill

From: Alicia Forsythe [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=A6CDF06A7E904B65BAA21702A82AD329-AFORSYTHE]
Sent: 2/25/2022 6:03:32 PM
To: Arsenijevic, Jelica [Jelica.Arsenijevic@hdrinc.com]; Spranza, John [john.spranza@hdrinc.com]
Subject: RE: Open Space Conservation for Climate Adaptation

Thanks Jelica. Appreciate you sending this over! I have a conflict on Monday, but I do wonder how maybe we could use some of our mitigation to achieve our net zero GHG goal. Interesting!

Ali

Alicia Forsythe | Environmental Planning and Permitting Manager | Sites Project Authority | 916.880.0676
| aforsythe@sitesproject.org | www.SitesProject.org

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-----Original Message-----

From: Arsenijevic, Jelica <Jelica.Arsenijevic@hdrinc.com>
Sent: Monday, February 21, 2022 12:23 PM
To: Alicia Forsythe <aforsythe@sitesproject.org>; Spranza, John <john.spranza@hdrinc.com>
Subject: FW: Open Space Conservation for Climate Adaptation

This may be useful/interesting for Sites. Cost is free. I am a member of AEP too (if we need it).

Jelica Arsenijevic
Environmental Project Manager

Due to COVID-19, I will be working from home. Please contact me via cell # listed below. Be safe out there!

2379 Gateway Oaks Drive, Suite 200
Sacramento, CA 95833
D 916-679-8854
M 209-329-6897
Jelica.Arsenijevic@hdrinc.com
hdrinc.com/follow-us

-----Original Message-----

From: Peacock, Neil@DOT <Neil.Peacock@dot.ca.gov>
Sent: Monday, February 21, 2022 4:20 AM
To: Peacock, Neil@DOT <Neil.Peacock@dot.ca.gov>
Subject: Open Space Conservation for Climate Adaptation

Luncheon Webinar

Open Space Conservation
for
Climate Adaptation

Monday, February 28th; Noon - 1:00 pm

February Program Overview

Our panel for this month will focus on how open space conservation is being used for climate adaptation & resiliency planning purposes. Speakers from the California Department of Conservation, the East Bay Regional Park District, and consulting firm AECOM will provide the audience with an overview of the subject and discuss why open space conservation matters for climate planning. They will outline state open space conservation goals, describe available grant & technical assistance, and share a local implementation example, with advice for practitioners to consider.

Keali'i Bright is the assistant director of the Division for Land Resource Protection at the California Department of Conservation. In this role, Keali'i leads multiple programs to build regional capacity to lead protection and stewardship agricultural and watershed resources. Prior to this, Keali'i held multiple roles in the legislature and at the California Natural Resources Agency.

Kristin Tremain Davis is a climate ecologist who leads AECOM's Nature-based Solutions Practice for the Americas. She works on a variety of projects to integrate natural resources into project planning and design that improves project resiliency and provides biodiversity uplift.

Dina Robertson is the wildland vegetation program manager for the East Bay Regional Park District. The Park District spans 125,000 acres in Contra Costa and Alameda Counties and is the largest urban regional park system in the US.

AEP is inviting you to a scheduled Zoom meeting.

Join Zoom Meeting

<https://us06web.zoom.us/j/89540261991?pwd=VVgyMkRPS0F0KzNVRkdDSXNVMWVBU09>

Meeting ID: 895 4026 1991

Passcode: 511493

One tap mobile

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+1 301 715 8592 US (Washington DC)

+1 312 626 6799 US (Chicago)

+1 929 205 6099 US (New York)

Meeting ID: 895 4026 1991

Passcode: 511493

Find your local number: <https://us06web.zoom.us/j/89540261991?pwd=VVgyMkRPS0F0KzNVRkdDSXNVMWVBU09>

From: Luu, Henry [Henry.Luu@hdrinc.com]
Sent: 2/28/2022 10:31:13 AM
To: JP Robinette [jrobinette@sitesproject.org]
Subject: FW: Sites request for DSOD engagement

JP - FYI

Henry H. Luu, PE
D 916.679.8857 M 916.754.7566

hdrinc.com/follow-us

From: Luu, Henry
Sent: Monday, February 28, 2022 10:30 AM
To: Malvick, Erik@DWR <Erik.Malvick@water.ca.gov>
Subject: RE: Sites request for DSOD engagement

Erik,

Thank you for the quick response. Noted re: schedule constraints – let's target early April, if possible. We'll prepare a draft agenda and list of questions for your review by the end of this week.

Much appreciated,
Henry H. Luu, PE
D 916.679.8857 M 916.754.7566

hdrinc.com/follow-us

From: Malvick, Erik@DWR <Erik.Malvick@water.ca.gov>
Sent: Monday, February 28, 2022 8:41 AM
To: Luu, Henry <Henry.Luu@hdrinc.com>
Subject: RE: Sites request for DSOD engagement

CAUTION: [EXTERNAL] This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Henry,

Thanks for reaching out. Scheduling in our office is difficult on a 2 week basis as you've requested. Currently, we may be restricted to early April for a meeting at the earliest.

However, if you could perhaps provide a draft agenda (with expected meeting duration) and potential questions (slightly more detailed) you'd have for us, I can use that to identify specific participants on our side that can help narrow some potential meeting times down. I am also hoping that you can present a broad schedule at a meeting. It is good to be engaged with DSOD early with steady engagement through the project. We independently review all aspects of a project from design focused exploration of a dam, to stability, deformation, hydrologic, and hydraulic analyses of dam(s) and their components. For a project such as this, DSOD may have over a year of review (spread out potentially).

Please let me know if you have any questions. I'm generally in the office these days, but often in meetings, so voice mail and email work. My office number forwards to mobile as well.

Thanks.

Erik J. Malvick, Ph.D., P.E., G.E.
Branch Manager
Design Engineering Branch
Division of Safety of Dams
erik.malvick@water.ca.gov

2720 Gateway Oaks Drive, Suite 300
Sacramento, California 95833

Office: 916-565-7840
Mobile: 916-820-7820

From: Luu, Henry <Henry.Luu@hdrinc.com>
Sent: Sunday, February 27, 2022 14:10
To: Malvick, Erik@DWR <Erik.Malvick@water.ca.gov>
Cc: JP Robinette <jrobinette@sitesproject.org>; Tapia, Sharon@DWR <Sharon.Tapia@water.ca.gov>
Subject: RE: Sites request for DSOD engagement

Hi Erik,

My name is Henry and I support JP on the Sites Project. We would like to schedule an initial meeting with you to discuss process & procedures for the dam construction application with the following topics in mind:

- Communication protocols
- Application fee and deposit schedule
- Design coordination/reviews
- Agenda for follow-up Sites Reservoir project update

Can you provide a few dates/timeslots that works best with your schedule, between now and mid-March, for a Teams virtual meeting?

Thank you,

Henry H. Luu, PE
D 916.679.8857 M 916.754.7566

hdrinc.com/follow-us

From: JP Robinette <jrobinette@sitesproject.org>
Sent: Wednesday, February 16, 2022 2:04 PM
To: Tapia, Sharon@DWR <Sharon.Tapia@water.ca.gov>
Cc: Luu, Henry <Henry.luu@hdrinc.com>; Malvick, Erik@DWR <Erik.Malvick@water.ca.gov>
Subject: Re: Sites request for DSOD engagement

CAUTION: [EXTERNAL] This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Excellent, thank you Sharon. We will reach out to Erik soon and get the ball rolling. I look forward to our working relationship as well.

Thanks,
JP

From: Tapia, Sharon@DWR <Sharon.Tapia@water.ca.gov>
Sent: Wednesday, February 16, 2022 12:05 PM
To: JP Robinette <jrobinette@sitesproject.org>
Cc: Henry.luu@hdrinc.com <Henry.luu@hdrinc.com>; Malvick, Erik@DWR <Erik.Malvick@water.ca.gov>
Subject: RE: Sites request for DSOD engagement

Hi JP,

Thanks for reaching out to start coordinating a meeting for Sites Reservoir. We had been anticipating that our involvement in the project was forthcoming this year.

Erik Malvick, who is cc'd on this email, is the Branch Manager of the Design Engineering Branch. He oversees all application work through the design and application approval processes. He is the best person to contact to start coordination efforts.

I look forward to the upcoming meeting and establishing an effective working relationship between DSOD and your team on this project.

Sharon

From: JP Robinette <jrobinette@sitesproject.org>
Sent: Wednesday, February 16, 2022 11:37 AM
To: Tapia, Sharon@DWR <Sharon.Tapia@water.ca.gov>
Cc: Henry.luu@hdrinc.com
Subject: Sites request for DSOD engagement

Hello Sharon,

I am reaching out to you to provide an update on the Sites Reservoir Project. Members of our project team last met with you and other DSOD staff in early 2019 to discuss the Sites team, the project description, site conditions, project features, schedule and the path forward. Progress has been made since then on the project feasibility evaluation, and we are developing our approach for establishing project design criteria, engineering analyses, an extensive geotechnical investigation program, and preliminary designs that will be completed over the next couple of years.

We would like to request a briefing with you and your team on the Sites Reservoir Project sometime within the next two months, if possible. In advance of that meeting we would like to hold a call with DSOD's point of contact for the Sites Reservoir Project to discuss DSOD engagement, communication protocols, schedule, and the agenda for the briefing. We would also like to discuss DSOD fees for the project and the anticipated payment schedule.

Please let me know who is best to coordinate with at DSOD – we look forward to working with you and your team to advance this project.

Thank you,

JP Robinette, PE

Engineering and Construction Manager | Sites Project Authority
801-819-4306

From: Jerry Brown [jbrown@sitesproject.org]
Sent: 2/28/2022 11:09:28 AM
To: Marcia Kivett [MKivett@sitesproject.org]
Subject: Re: Leadership Meeting Notes

Thanks. I asked and was granted a hardship so my service is complete. See if Roger and John Watts want to meet before 1230pst or after 230 pst today of tomorrow or Wednesday.

From: Marcia Kivett <MKivett@sitesproject.org>
Date: Monday, February 28, 2022 at 10:42 AM
To: Jerry Brown <jbrown@sitesproject.org>
Subject: Leadership Meeting Notes

60,000 AF of Deadpool.
Working with MET and their legal counsel.
NGO meeting on water rights this Friday. Overview of the water availability analysis.

We will discuss "What If" scenarios to discuss at the scheduling meeting.

CWC quarterly report regarding meeting deadlines. Review all deadlines.

Geotech starts this week.
Surveying going on with access agreements.
Placing several landowner checks requests Mid-March.

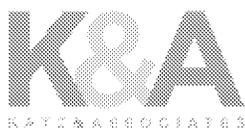
Erin shared the Jacobs team modeling deliverables. (historic, climate change, WSIP, etc)
Ali/Erin meeting with SWC on Wednesday.

E&O - Contract strategies delivery process.
P1A occurs around summertime.

Marcia Kivett
Sites Project Admin
Phone: 561.843.9740
Email: mkivett@sitesproject.org
Web: www.SitesProject.org
P.O. Box 517
122 Old Hwy 99W
Maxwell, CA 95955

From: Sara M. Katz [skatz@katzandassociates.com]
Sent: 2/28/2022 11:50:29 AM
To: Jerry Brown [jbrown@sitesproject.org]; Kevin Spesert [kspesert@sitesproject.org]
CC: Ann Newton [anewton@katzandassociates.com]; Sarah Rossetto [srossetto@katzandassociates.com]; Sharon Han [shan@katzandassociates.com]
Subject: FW: Full Sites Reservoir Article
Importance: Low

Here you go Jerry – full version of the Appeal Democrat article.



Sara M. Katz
Founder/CEO
mobile: [619.813.9551](tel:619.813.9551)
[San Diego](#) · [Los Angeles](#) · [San Francisco](#)

From: Lynzie Lowe <llowe@appealdemocrat.com>
Sent: Monday, February 28, 2022 11:06 AM
To: Sara M. Katz <skatz@katzandassociates.com>
Subject: Re: Full Sites Reservoir Article
Importance: Low

Here you go!

Sites Reservoir Project reaches another milestone

By Lynzie Lowe /
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Jerry Brown, executive director for the Sites Project Authority, said the Sites Reservoir Project reached another major milestone in December with the completion of the draft Environmental Impact Report/Supplemental Draft Environmental Impact Statement public comment period – bringing the project one step closer to fruition.

The project, which has been in the works for more than 60 years, hopes to turn the Sites Valley located 10 miles west of Maxwell where Colusa and Glenn counties meet, into a state-of-the-art off-stream water storage facility that captures and stores stormwater flows in the Sacramento River – after all other water rights and regulatory requirements are met – for release in dry and critical years for environmental use and for communities, farms and businesses statewide to utilize when it is needed.

“Sites is unique because it would not rely on snowpacks like Folsom and Oroville do,” said Brown. “It would also bring a much needed water supply to the west side of the valley.”

According to Brown, the Sites Valley has been identified as an optimal place for a reservoir of this kind because of the “bowl-like” topography of the land as well as the proximity to the Sacramento River and existing conveyance facilities – the Glenn-Colusa Canal and the Tehama-Colusa Canal.

The plan is to block off the valley with two dams – The Golden Gate Dam to the north and the Sites Dam near the community of Sites – while adding a pump station and a series of smaller staddle dams at the most northern point of the valley to turn the existing valley into a water storage facility.

Because there are already two existing conveyance facilities in the vicinity, Brown said the project would only need to build a connecting canal about ten miles long to connect to the existing facilities to pump water in and out of the reservoir – a huge cost saver for the project.

There are also plans to utilize the reservoir for recreational purposes, including boating, fishing and possibly horse trails.

Kevin Spesert, external affairs manager for the Sites Project Authority, said there are about 30 residents in the community of Sites at this time that would be affected.

To begin the process of turning the valley into a reservoir, Spesert said all of the existing trees, structures and debris would have to be removed. Roads in the area, including Maxwell Sites Road, would have to be rerouted as well because they would be underwater should the reservoir get built.

“Maxwell Sites Road is the main road in and out for the residents of Stonyford,” said Spesert. “Students from Stonyford utilize Maxwell High School so shutting down this road for any length of time is not an option.”

To address this issue, Spesert said the project plans to begin with rerouting Maxwell Sites Road to go up and over the hills instead of cutting through them as they do now. A two part bridge will be constructed, said Spesert, to connect the roadway to the other side of the valley via an island created by the reservoir and the roadway would be renamed Maxwell Stonyford Road.

Brown said the biggest concerns that have been voiced about this project are how diversions out of the water will affect aquatic resources, how the Trinity River will be affected and how water quality will be affected when it is returned to the river.

“We are not here to damage the rivers,” said Brown. “No water will be diverted from the Trinity River to fill Sites Reservoir. The unique location of the reservoir means the project is not competing for other water resources, but instead will be complementary to these facilities and enhance the ability to optimize the limited water resources.”

According to Brown, water diverted into Sites Reservoir will come from the streams and creeks that flow into the Sacramento River downstream of the Shasta and Keswick Dams.

There are also highly protective operating conditions that must be in place before diversions into Sites Reservoir can be made that adapt to evolving conditions. Brown said the intakes being used for diverting water into Sites Reservoir include state-of-the-art fish screens that are proven to be highly effective at protecting fish and the project includes more cold water for salmon in drier years.

According to Brown, the reservoir will also be constantly monitored to ensure that quality of water returning into the river is optimal.

“The quality of water returning to the river is probably going to be better than it was,” said Brown.

According to Brown, the Sites Reservoir Project is slated to cost \$4 billion dollars. This estimate, said Brown, includes all permitting, preparation, construction and maintenance costs.

Brown said funding for the project is like a pie, with \$836 million anticipated from the federal level and \$360 million allotted by the state at this time.

“The local agencies would have to handle the rest,” said Brown. “If we received more state or federal funding, the cost for local agencies would go down. We just have to fill in that pie.”

At the end of 2021, the California Water Commission determined that Sites Reservoir will continue to be eligible for

funding through the state's Proposition 1 Water Storage Investment.

According to Brown, the Authority is now working through the public comments received regarding the draft Environmental Impact Report to make any needed adjustments to the draft. In the coming months, Brown said the project will also be working to secure permitting and water rights.

In the coming year, the project is expected to progress with field studies and engineering evaluations to advance the design to a 30 percent design level by mid-2023, achieve key inter-agency agreements and develop the final plan of finance.

According to Brown, construction is expected to begin in 2024 and full operations at Sites Reservoir are anticipated to begin by the end of the decade.

The Sites Reservoir Project is led by a Joint Powers Authority made up of irrigation agencies, water districts, cities and counties in the Sacramento Valley area. The Project is being developed on a beneficiary pays principle where the benefits received are paid for by those receiving the benefits and beneficiaries include the federal government, state government, and local public agencies.

For more information, visit www.sitesproject.org.

On Sun, Feb 27, 2022 at 8:56 PM Sara M. Katz <skatz@katzandassociates.com> wrote:

Hi Lizzy – can you please send me us the full article that appeared in the Appeal Democrat this weekend. I do not have a subscription and as such, we are unable to read the complete article. Thanks in advance.

Best regards.

Sara



Sara M. Katz
Founder/CEO

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Op-Ed Title: Sites Reservoir is a Solution to California’s Megadrought

Author: Sites Project Authority

Word Count: 460

When it comes to water, California continues to break records, and not the kind we like to brag about.

According to a recent study by Nature Climate Change, the West Coast’s drought has worsened so much in one year, that it is now the driest in at least 1,200 years and is a worst-case climate change scenario playing out live. In fact, it’s being labeled as a “megadrought.”

With January and February 2022 turning out to be the driest months on record, many water suppliers are leaning more on their stored water supplies or shifting to other also limited sources, such as groundwater.

So, what do we need when supplies are running low and there isn’t rain to be found? Sites Reservoir.

In many ways, Sites is exactly what a state burdened by droughts and atmospheric rivers needs. Sites captures and stores water from the Sacramento River during high flows—after all other water rights and regulatory requirements are met— and is made available to California’s environment, communities, and farms when it’s most needed – especially during times of drought. But Sites Reservoir is just part of the solution – we can and must utilize **all** the tools in our toolbox—recycling, conservation, desalination, groundwater replenishment, and more yes, more water storage.

Conservationists and environmentalists alike can rest assured that Sites Reservoir does not dam any major river. The reservoir would be located off-stream and be situated in the Glenn and Colusa counties. Sites is designed to **help** the environment, not cause harm. And a large portion of the water saved in Sites is specifically set aside for fisheries and the environment during dry years.

If Sites had been in place prior to 2021, we could have captured and stored much of the excess runoff for use in a dry year, and California would have had an additional 1 million acre-feet of water available for use during this drought.

In summation, Sites can best be described as an insurance policy. And if the scientific projections are correct about the impacts of climate change, then having Sites Reservoir will mean we can safely collect more water in the reservoir for use during future droughts.

The Sites Authority is advancing Sites Reservoir because it’s built for the community by the community. And we’re proud to say the project is funded by local, state, and federal dollars, and water agencies, irrigation districts, and municipalities across California. Sites has broad statewide support that starts with participants right in the proposed project area’s backyard.

It’s critical that we continue to invest in a broad range of solutions to ensure a resilient water future, and Sites Reservoir would increase water storage, help alleviate symptoms, and address the impacts of a megadrought. It’s time to build Sites now.

www.sitesproject.org.

From: Alicia Forsythe [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=A6CDF06A7E904B65BAA21702A82AD329-AFORSYTHE]
Sent: 2/28/2022 2:33:02 PM
To: Lassell, Susan [Susan.Lassell@icf.com]; janis@horizonh2o.com; Briard, Monique [Monique.Briard@icf.com]
CC: Laurie Warner Herson [laurie.warner.herson@phenixenv.com]; Kevin Spesert [kspesert@sitesproject.org]; Risse, Danielle [Danielle.Risse@hdrinc.com]; Havelaar, Christiaan [Christiaan.Havelaar@icf.com]
Subject: RE: Sites Project - Site Records

Thanks Janis.

Yes, lets proceed with this effort. I do wonder if a call with the ICF folks, yourself, and Andrew would be of value to make sure we are getting what he is asking for. Just want to make sure that we are meeting their needs.

Monique – I assume that this would fit within your current contract scope and budget. I could see this fitting under the EIR/EIS response to comments, AB 52, or Implementation of Cultural Compliance tasks. I am flexible on where this goes as it could fit in a few spots. Please let me know if you don't think this fits within your current scope and budget.

Ali

Alicia Forsythe | Environmental Planning and Permitting Manager | Sites Project Authority | 916.880.0676 |
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From: Lassell, Susan <Susan.Lassell@icf.com>
Sent: Monday, February 28, 2022 2:13 PM
To: janis@horizonh2o.com; Alicia Forsythe <aforsythe@sitesproject.org>
Cc: Laurie Warner Herson <laurie.warner.herson@phenixenv.com>; Kevin Spesert <kspesert@sitesproject.org>; Risse, Danielle <Danielle.Risse@hdrinc.com>; Havelaar, Christiaan <Christiaan.Havelaar@icf.com>; Briard, Monique <Monique.Briard@icf.com>
Subject: RE: Sites Project - Site Records

Looping Monique in for awareness

SUSAN LASSELL | +1.916.231.7612 direct | +1.415.238.9086 mobile

From: Janis Offermann <janis@horizonh2o.com>
Sent: Monday, February 28, 2022 1:20 PM
To: Alicia Forsythe <aforsythe@sitesproject.org>
Cc: Laurie Warner Herson <laurie.warner.herson@phenixenv.com>; Kevin Spesert <kspesert@sitesproject.org>; Lassell, Susan <Susan.Lassell@icf.com>; Risse, Danielle <Danielle.Risse@hdrinc.com>; Havelaar, Christiaan <Christiaan.Havelaar@icf.com>
Subject: RE: Sites Project - Site Records

Hi, Ali

We heard from Andrew, Yocha Dehe's GIS person last week, saying that he still didn't have sufficient GIS data to do their analysis. I had a very enlightening conversation with him about this and apparently he needs specific data listed in the meta data for each shape file so that he can query certain site characteristics (such as human remains). There are a number of blank fields in the meta data, but he was most concerned about the "notes" field, which would contain a list

of the site attributes. I discussed this with the cultural team (ICF and HDR) at our biweekly call and we thought perhaps we could add data for specific elements (i.e., human remains) where we know that only a handful of sites would be involved. I followed up with another call to Andrew, and he really didn't like that idea, as it would continue to limit his ability to conduct a full analysis. He did say that he would be fine with just having the notes field filled in, and that he didn't have a preference for terminology, as long as it was consistent. He also noted that the tribe was not interested in the historic sites.

There are 105 sites that contain Native American resources. In order to fill in the notes data, we would need to come up with a nomenclature that would provide for consistency and then translate the site descriptions for use in the notes. I would be happy to fill in the notes to keep this moving, but I just chatted with Christiaan, who has led the effort at ICF to get Yocha Dehe the site records, and he thinks the GIS group would be involved since they are in charge of those kind of data. That works for me. We think the effort would take about 24 hours of time.

If you think this is a good approach, we would like your approval to move forward. Let me know if you have any questions.

Thanks!

Janis

Janis Offermann, MA, RPA
Cultural Resources Practice Leader
Horizon Water and Environment
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530.220.4918 (cell)

From: Laverne Bill <LBill@yochadehe-nsn.gov>
Sent: Friday, February 18, 2022 10:38 AM
To: 'Alicia Forsythe' <aforsythe@sitesproject.org>; Victoria Delgado <VDelgado@yochadehe-nsn.gov>
Cc: 'Laurie Warner Herson' <laurie.warner.herson@phenixenv.com>; 'Kevin Spesert' <kspesert@sitesproject.org>; 'Janis Offermann' <janis@horizonh2o.com>
Subject: RE: Sites Project - Site Records

Alicia, thank you for all your help on this issue.

Laverne Bill
Director of Cultural Resources

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PO Box 18 | Brooks, CA 95606
p 530.796.3400 | c 530.723.3891
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From: Alicia Forsythe <aforsythe@sitesproject.org>
Sent: Thursday, February 17, 2022 11:29 AM
To: Laverne Bill <LBill@yochadehe-nsn.gov>; Victoria Delgado <VDelgado@yochadehe-nsn.gov>
Cc: Laurie Warner Herson <laurie.warner.herson@phenixenv.com>; Kevin Spesert <kspesert@sitesproject.org>; Janis Offermann <janis@horizonh2o.com>
Subject: Sites Project - Site Records

[Warning External Sender]

Laverne – We have clearance from DWR to send you the site records! Thank you so much for your patience on this! We really appreciate it.

Janis – Can you work with ICF to transfer the files to Laverne?

Ali

Alicia Forsythe | Environmental Planning and Permitting Manager | Sites Project Authority | 916.880.0676 |
aforsythe@sitesproject.org | www.SitesProject.org

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From: Janis Offermann <janis@horizonh2o.com>
Sent: Thursday, February 17, 2022 8:58 AM
To: Laverne Bill <LBill@yochadehe-nsn.gov>; Kevin Spesert <kspesert@sitesproject.org>
Cc: Alicia Forsythe <aforsythe@sitesproject.org>; Laurie Warner Herson <laurie.warner.herson@phenixenv.com>;
Victoria Delgado <VDelgado@yochadehe-nsn.gov>
Subject: RE: Sites Reservoir monthly meeting today

OK . So let's cancel today, but hope for a good outcome at the meeting with DWR today and a reason to meet next week.

Thanks, everyone!

janis

From: Laverne Bill <LBill@yochadehe-nsn.gov>
Sent: Thursday, February 17, 2022 8:47 AM
To: Kevin Spesert <kspesert@sitesproject.org>
Cc: Janis Offermann <janis@horizonh2o.com>; Alicia Forsythe <aforsythe@sitesproject.org>; Laurie Warner Herson <laurie.warner.herson@phenixenv.com>; Victoria Delgado <VDelgado@yochadehe-nsn.gov>
Subject: Re: Sites Reservoir monthly meeting today

Good morning everyone. That works for me

Laverne Bill
Cultural Resources Department Manager
Tewe Kewe Cultural Center
PO Box 18, Brooks, CA 95606
c 530-723-3891
f 530-796-2143

Sent from my iPhone

On Feb 17, 2022, at 7:52 AM, Kevin Spesert <kspesert@sitesproject.org> wrote:

[Warning External Sender]

I recommend that we cancel today and reschedule pending the DWR meeting...maybe reschedule for the middle of next week if that works for the group.

Thanks!

Kevin

From: Janis Offermann <janis@horizonh2o.com>
Sent: Thursday, February 17, 2022 7:42 AM
To: Laverne Bill; Alicia Forsythe; Kevin Spesert; Laurie Warner Herson
Cc: Victoria Delgado
Subject: Sites Reservoir monthly meeting today

Good morning, everyone
Our monthly meeting is scheduled for today.

Laverne, Ali learned yesterday that there is to be a meeting this morning among DWR legal and management, including Anecita, to discuss getting the site information to you.

Ali, do you think we will have heard the results of that meeting by the time our meeting occurs at 2pm?

I wanted to bring this to everyone's attention, so we can decide whether we want to go ahead with the call, or cancel.

Also, FYI, I am scheduled to participate in an interview for a project with Horizon today at 1pm. Those interviews tend to only be an hour, but I might jump into our meeting a little late, if we choose to continue to have our meeting.

What does everyone think about continuing with the meeting today?

Thanks
janis

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