



Topic: **Reservoir Committee Agenda Item 9-2**

2020 January 17

Subject: **Amendment 1B Work Plan**

Requested Action:

Consider approval of the work plan for the period of January 1, 2020 through August 31, 2019 as part of the no cost time extension to the current participation agreement. for the following uses:

1. Amending existing consultant contract task orders and developing new task orders as needed, including the engineering service areas HC and HR.
2. Developing a revised Exhibit B to the Phase 2 (2019) Participation Agreement through Aug 31,2020 (aka Amendment 1B).

Background:

The previously approved Phase 2 (2019) Work Plan assumed a completion of Phase 2 (2019) on December 31, 2019. The Reservoir Committee approved an extension of the Phase 2 (2019) Reservoir Project Agreement, Amendment 1B, by eight months at no additional cost to participants with a revised completion date of August 31, 2020. Staff has developed a revised work plan covering the period between January 1, 2020 and August 31, 2020 with the following general assumptions:

1. **Funding:** Re-allocate existing participant and planned (CWC) funding to cover deliverables and activities through August 31, 2020.
2. **Schedule Requirements:** Critical information for participant funding decisions will be delivered by the April Reservoir Committee and Board Meeting cycle.

Attachment A details the work plan for this period including estimated available funds, planned deliverables, estimated budgets, key personnel and estimated unallocated funds.

Prior Reservoir Committee Action:

December 19, 2019: The Reservoir Committee reviewed deliverables related primarily to work through April 2020 and provided feedback to staff that also included extending the participation agreement's end date from June 30, 2020 to August 31, 2020 (aka amendment 1B).

November 21, 2019: The Reservoir Committee provided input to staff to aid in development of a work plan through June 30, 2020.

October 18, 2019: The Reservoir Committee directed staff to extend the Phase 2 (2019) work plan by "180 days" with no additional funding provided by the

Reservoir Committee. The revised completion date is proposed to be changed from December 31, 2019 to June 30, 2020.

September 20, 2019: The Reservoir Committee approved the extension of the Phase 2 (2019) Participation Agreement by three months at no additional cost to Participants and directed staff to develop a work plan to accommodate this extension.

June 20, 2019: The Reservoir Committee approved their portion of the reduced, revised work plan and Exhibit B for inclusion in the Phase 2 (2019) Participation Agreement.

May 20, 2019: The Reservoir Committee considered approval of a reduced work plan based on revised revenue assumptions for Phase 2 (2019) and deferred approval of the revised plan back to the Budget and Finance Work Group for further evaluation.

November 19, 2018: The Authority Board approved the Final Work Plan and Budget.

November 16, 2018: The Reservoir Committee approved their portion of the work plan and Exhibit B for inclusion in the Participation Agreement.

July 16, 2018: The Authority Board approved the "Workplan and Monthly Cashflow Analysis for Phase 2 for the Sites Reservoir Project" with its release solely for the following uses:

1. Development of the Phase 2 Finance Plan.
2. Developing an Exhibit to include in the Phase 2 Reservoir Project Agreement.
3. Developing an Exhibit to include in the Phase 2 Procurement Request for Qualifications.
4. Developing the FY2019 Budget.

Fiscal Impact/Funding Source:

Not yet determined.

Staff Contact:

Joe Trapasso

Attachments:

Attachment A: Reservoir Committee Work Plan from Jan 1, 2020 to Aug 31, 2020

Reservoir Committee Work Plan from Jan 1, 2020 to Aug 31, 2020



To: Jim Watson
CC: Joe Trapasso
From: JP Robinette, Erin Heydinger
Quality Review by: Robert Boling
Authority Agent Review by: Kevin Spesert, Lee Frederiksen, Ali Forsythe, Joe Trapasso
Subject: Work Plan from Jan 1, 2020 to Aug 31, 2020

Attachments

Attachment A – Amendment 1B Budget by Deliverable
Attachment B – Amendment 1B Budget by Resource
Attachment C – Schedule Graphic

Overview

This document provides summary-level descriptions of the deliverables, lead staff and estimated work plan and budgets associated with Amendment 1B to the 2019 Reservoir Project Agreement’s Exhibit B (i.e. work through August 31, 2020). The deliverables listed below are based on near-term priorities as directed by the Reservoir Committee. The estimated budgets cover the work period between Jan 1, 2020 and Aug 31, 2020 and represent the Reservoir Committee funded activities only. The work plan has been prepared by staff for review and consideration by participants in December 2019 and approval in January 2020. The costs provided include both consultant and staff time. Final scopes of work and budgets will be developed in task orders for each consultant and routed for approval by the Reservoir Committee and Authority Board in February of 2020.

The following primary assumptions were used in the development of the Amendment 1B Work Plan:

1. Funding: Re-allocate existing participant and planned (CWC) funding to cover deliverables and activities up to August 31, 2020.
2. Schedule Requirements: Critical information for participant funding decisions will be delivered by the April 2020 Reservoir Committee and Board Meeting cycle. Work beyond April 2020 is to support the schedule shown in Attachment C.

The estimated available funds for the work period of Jan 1, 2020 through Aug 31, 2020 is found in Table 1.

Table 1 – Estimated Available Funds

Reservoir Committee cash on hand as of 11/30/19 (includes paid invoice 1 from WSIP, \$2.77 M)	\$7,370,000
December PMT of Claims (Res Com Portion, Actual)	(\$523,000)
Estimated Cost of Services Remaining (December services + November un-invoiced)*	(\$800,000)
Received WSIP Invoice 2, \$1.2 M and submitted Invoice 3, \$2.1 M	\$3,300,000
Res Comm budget Available January 1 through Aug 31, 2020	\$9,347,000

*Actuals to be confirmed with finalization of December 2019 treasurer’s report, which was not available during the development of this memo.

Estimated funds that are proposed to be unallocated during the period of Jan 1, 2020 through Aug 31, 2020 are shown in Table 2:

Table 2 – Estimate of Unallocated Funds

Res Comm budget Available January 1 through Aug 31, 2020	\$9,347,000
Proposed Work from Jan. through Aug (Refer to Attachment A)	(\$8,370,000)
Estimate of Unallocated funds	\$977,000

Draft Amendment 1B Scope of Work (Jan 1 2020 to Dec 31, 2021)

1. Value Planning Refinements

Assist participants in appraisal-level Value Planning effort. This is expected to include identifying additional cost reduction measures, formulating and evaluating additional alternatives, coordinating with the environmental team regarding the permissibility and mitigation costs for selected alternatives, coordinating with the operations modeling team to verify deliveries and conveyance capacities of the alternatives, and developing Class 5 cost estimates in accordance with AACE standards. An updated affordability assessment will be completed for the selected alternatives, along with screening criteria to establish the basis for comparison between alternatives. The comparison will assist participants in identifying the tentatively preferred project to advance. This effort will also include holding workshops and preparing the draft and final value planning report, presenting the study analyses and results. This effort will provide information regarding the annual indebtedness and dollar per acre-foot cost, for use in the CDFW and other discussions, and in participant decisions as to how they would like to proceed. It will also provide a preliminary assessment the impact of including these facilities may have on the completion of the environmental analysis process (CEQA and NEPA) and future permit applications.

Deliverable Description: Draft report presenting the value planning analyses, including identification of the preferred project and associated repayment analyses, by March 25, 2020. Final report by April 17, 2020.

Authority Agent Lead: Lee Frederiksen
Staff Lead: Jeff Herrin
Target Budget Amount: \$752,000

2. Draft Operations Plan

The existing operations planning descriptions (in the WSIP Application) are not fully consistent with the approved Draft Storage Policy, the facilities being discussed in Value Planning, and with the current understanding of potentially 'permissible' operations. This task will revise the existing Draft Operations Plan Outline consistent with these items to form a revised description of the proposed operations of the Sites Project. The document will address operations related to the cooperative operations with Reclamation and DWR and a no investment by Reclamation for storage in Sites Reservoir. It will include the framework for acceptable annual exchanges of water stored in Sites Reservoir in lieu of deliveries of water stored in Shasta Reservoir and the subsequent release of that exchanged water meeting the water rights requirements of the CVP and SWP and in a manner that benefits Sites Project participants.

Deliverable Description: Annotated Draft Operations Plan Outline – January 3, 2020; Draft Operations Plan – March 2020 Reservoir Committee Meeting. It is important to note that the March 2020 Draft Operations Plan will be as complete as possible with the information and understanding of the project at that time. However, some sections will be developed post March 2020 as more information and understanding of the project is developed / available.

Authority Agent Lead: Ali Forsythe
Staff Lead: Rob Tull
Target Budget Amount: \$314,000

3. Operations with Shasta Exchanges

Staff, advisors and consultants will continue to meet with Reclamation (CVO) and DWR staff to refine the draft Operational Principles of Agreement and exchanges needed to meet some of the goals and objectives of the Sites Project. Informed by these discussions, future operations planning efforts will evaluate the anticipated operations with CVP reservoirs. These evaluations will describe the annual exchanges among the Sites Project and COA participants and perform the operations modeling (including CALSIM II, DSM2, Upper Sacramento River HEC5Q and CE-QUAL-W2 models) to more fully consider the anticipated results of new operations.

Deliverable Description: In-progress briefings to the Reservoir Committee Operations Workgroup regarding progress on the development of the 'principles of agreement' and the anticipated operations of the Sites Project. Staff, advisors and consultants will provide a progress report in February, April and final report in June.

Authority Agent Lead: Ali Forsythe
Staff Lead: Rob Tull
Target Budget Amount: \$382,000

4. Cost of Dry Year Deliveries

An estimate of the water supply 'average annual yield' has been the basis for the current and past participation agreements. Potential participants have identified that since the project is intended to provide dry year supplies and estimate of the cost per acre foot of supplies in drier period may be a useful metric for consideration in future participation agreements.

Staff will work with the operations simulation consultants and advisors to develop a reasonable estimate of below normal, dry and critically dry year deliveries (FOB "Holthouse"). This estimate will be based on the current understanding of the anticipated project diversions and other operational parameters (informed by results from items 1, 2, 3 and 4 above). This value(s) will be used to derive an estimated cost/AF using the cost values derived in items 1 and 5, above.

Deliverable Description: In-progress briefings to the Reservoir Committee Operations Workgroup regarding approach and methodology followed with a progress report in February and final report in March.

Authority Agent Lead: Jim Watson
Staff Lead: JP Robinette
Target Budget Amount: \$58,000

5. Environmental Benefits (Including Temperature and Biological Modeling)

The operations modeling team will determine the environmental benefits of the revised operations scenarios. The team will conduct iterative modeling using the Calsim model, Daily model, along with Sacramento River HEC-5Q temperature modeling, SALMOD scenarios to verify temperature model scenarios, and DSM2 model scenarios.

Deliverable Description: In-progress briefings to the Reservoir Committee Environmental Planning and Permitting Workgroup and/or Operations Workgroup, as appropriate, regarding progress. Staff, advisors, and consultants will provide a progress report in February, April and final report in June.

Authority Agent Lead: Ali Forsythe
Staff Lead: Rob Tull
Target Budget Amount: \$428,000

6. Ongoing Environmental Planning and Permitting

Staff will continue efforts to further permitting certainty for the Project. This effort will include a continuation of the development of CEQA/NEPA compliance (through finalization of the current EIR/EIS or recirculation, as appropriate), and continue efforts to develop the major permits that have the potential to result in substantial changes to the Project or increase Project costs substantially. Coordination with the Reservoir Committee Environmental Planning and Permitting Workgroup will be needed to determine the focus of these efforts. This effort currently assumes work on the CEQA/NEPA documentation, the Federal Endangered Species Act compliance (Biological Assessment), the National Historic Preservation Act compliance (Section 106 Programmatic Agreement), the State Endangered Species Act compliance (State Incidental Take Permit), and progress toward obtaining a water right for the Project under State water right law. Specific focus of these efforts will be confirmed with the Reservoir Committee Environmental Planning and Permitting Workgroup.

Deliverable Description: In-progress briefings to the Reservoir Committee Environmental Planning and Permitting Workgroup and/or Operations Workgroup, as appropriate, regarding progress. Staff, advisors, and consultants will provide a progress report in February, April and final report in June.

Authority Agent Lead: Ali Forsythe
Staff Lead: John Spranza, Laurie Warner Herson
Target Budget Amount: \$1,555,000

7. Geotech Support to Reclamation Feasibility

Sites will continue providing biological monitors for geotechnical work performed by Reclamation.

Deliverable Description: Ongoing support – no specific deliverables anticipated. Budget target for January through March 2020.

Authority Agent Lead: Ali Forsythe
Staff Lead: John Spranza
Target Budget Amount: \$84,000

8. Response to Direction from Organizational Assessment

An Organizational Assessment conducted by Gary Darling was presented to the Authority Board and Reservoir Committee in November 2019. There were several action items identified in the assessment that will be implemented in the near- and mid-term, including hiring an Executive Director, contracting for and developing a Strategic Plan, evaluating governance and others. Staff implement specific actions as directed by participants.

Deliverable Description: Strategic Plan, short list of Executive Director candidates and Organizational Assessment Response Plan by March 19, 2020. The target budget amount also includes the Executive Director's pay from March through August.

Authority Agent Lead: Jim Watson
Staff Leads: Joe Trapasso, JP Robinette, Robert Boling
Target Budget Amount: \$719,000

9. Qualitative Risk Assessment

Revise existing Risk Assessment based on new information. The updated risk assessment will update the risk register developed in 2018 and will allow for improved certainty on the cost estimates provided in the Value Planning effort.

Deliverable Description: Risk workshop, outcomes technical memorandum draft by March 19, 2020.

Authority Agent Lead: Jim Watson
Staff Lead: Robert Boling
Target Budget Amount: \$78,000

10. Communications and Government Affairs

Staff will continue to provide ongoing landowner, local, regional and statewide communications support activities for the Project, as well as ongoing federal and state governmental affairs support activities. The Communications Team will prepare communications and stakeholder coordination/public outreach products, maintain strategic communications and message development, conduct media engagement activities, plan and facilitate public meetings and special events, conduct project site tours, and maintain and provide content for the Sites website and social media platforms. The Government Affairs Team will continue outreach to federal and state elected officials and government agencies, support efforts to secure additional federal/state funding and support the Project's legislative and regulatory strategy.

Deliverable Description: Ongoing support – no specific deliverables anticipated. Budget target for January through August 2020.

Authority Agent Lead: Kevin Spesert
Staff Leads: Keith Dunn, Roger Gwinn, Garrett Durst, Sara Katz, Conner McDonald
(landowner communications)
Target Budget Amount: \$297,000

11. Work Plan Amendment 1B and 2

Two complete work plans will be developed including:

- Amendment 1B covering the period between Jan 1, 2020 and Aug 31, 2020
- Amendment 2 covering the period between Sep 1, 2020 and Dec 31, 2021

Work plans will include a project schedule, resources and detailed revenue and expense budget for the work period in question for the Reservoir Committee. Revenue for Amendment 1B and Amendment 2 is assumed to be from a cash call and therefore not require interim financing. It is assumed that a rebalancing will occur during the transition from Amendment 1B to Amendment 2.

Deliverable Description: Amendment 1B work plan, Amendment 2 work plan

Authority Agent Lead: Joe Trapasso
Staff Lead: JP Robinette
Target Budget Amount: \$156,000

12. Financial Assistance Agreement

Staff will work with Reclamation to develop an application for a Financial Assistance Agreement. This agreement is the mechanism by which WIIN Act funding can be transferred to the JPA. Items needed for this agreement include a detailed scope of work, detailed supporting budget information and several board-approved policies (e.g. Accounting Policy, Contracting Policy).

Deliverable Description: Application for Financial Assistance submitted to Reclamation by March 2020.

Authority Agent Lead: Joe Trapasso
Staff Lead: Cathy Westcot
Target Budget Amount: \$115,000

13. WIFIA Loan Application

Staff will develop a strategy memo for the submittal of a Letter of Interest (LOI) for the 2021 application period for a low-interest loan through the WIFIA (or RIFIA) program. The LOI is anticipated to be due to the EPA in June or July of 2021. Support will be needed from the Government Affairs team (Federal), the Communications service area, Bond Counsel, the Municipal Advisor and General Counsel. In addition to a strategy for the completion and submission of a competitive LOI, the memo will include the plan for development of additional policies and procedures which will be required to be developed to become eligible for WIFIA.

Deliverable Description: WIFIA Letter of Interest Strategy Memo

Authority Agent Lead: Joe Trapasso
Staff Lead: JP Robinette
Target Budget Amount: \$20,000

14. Ongoing Business

In addition to the critical near-term needs, staff will continue with the ongoing business efforts. This includes contract management, leading and supporting ad hoc Work Groups, Reservoir Committee and Authority Board meetings, managing accounts payable and accounts receivable, managing participant ledgers and invoicing the California Water Commission under Proposition 1.

Authority Agent Lead: Joe Trapasso
Staff Lead: JP Robinette
Target Budget Amount: \$1,115,000 to be allocated as follows

- AP/AR: \$253,000
- Contract Management: \$171,000

- Monthly Board/Reservoir Committee/ad hoc Work Group Support: \$404,000
- California Water Commission Invoicing and Other Reporting: \$232,000
- Real Estate Landowner Coordination: \$55,000

Deliverable Description: Ongoing support – no specific deliverables anticipated. Budget target for January through August 2020.

15. General Counsel

As needed support from Authority’s General Counsel

Authority Agent Lead: Jim Watson
Staff Lead: Not Applicable
Target Budget Amount: \$120,000

16. Project Description Engineering

Engineering efforts will be undertaken to support the environmental impact assessment of the preferred project. A description of the key project features and their operations will be developed reflecting the results of the value planning effort and the operations planning effort. Work will include completing feasibility level designs of project features, developing feasibility level drawings of project features for use in estimating quantities and assessing impacts, assessing haul routes, identifying construction activities and schedules and identifying key operation and maintenance activities. The effort will also include completing real estate efforts with respect to obtaining access and assessing potential alignments and associated impacts. The work will be completed at a level of detail to support the environmental impact evaluations, and to support the future development of level four cost estimates.

Authority Agent Lead: Lee Frederiksen
Staff Leads: Jeff Herrin, Pete Rude
Target Budget Amount: \$1,522,000

Deliverable Description: The project description engineering will be completed by August 31, 2020. It will be used to inform the administrative draft EIR which is scheduled for completion in October 2020.

Close coordination with the environmental team and preparation of a series of technical memorandums for key project features presenting the information required for completing the environmental impact evaluation.

17. Geotech Permitting and Planning

To prepare the feasibility report meeting the state’s Prop 1 requirements (i.e. includes developing the cost estimate to at least Class 4 in accordance with AACE standards), it is anticipated that five to ten borings will be required to verify design assumptions of any proposed new facilities that will be made to complete the feasibility level design of the preferred project. The geotechnical engineer will provide input into the locations and types of geotechnical field investigation that will be required, as well as provide input to the environmental permitting team. The actual field data collection is assumed to occur as part of the next phase of work that has a current planned start date of September 1, 2020. Before this field work can start, approvals, consultations, and permits need to be completed.

Environmental planning, consultations, and permitting efforts will be undertaken to obtain permits and approvals for these geotechnical activities. The required permits and approvals will be determined once boring locations are selected.

Authority Agent Lead: Lee Frederiksen

Staff Leads: John Spranza, Laurie Warner Herson, Jeriann Alexander
Target Budget Amount: \$517,000

Deliverable Description: Select draft permits and environmental documentation needed to complete geotechnical work.

18. Participation Agreement and Rebalancing

Staff will administer Amendment 1B and Amendment 2 to the current participation agreement. A rebalancing of participation will be completed at Amendment 2. Staff will develop the participation agreement and plan of finance for the next phase of work

Authority Agent Lead: Joe Trapasso
Staff Lead: JP Robinette
Target Budget Amount: \$139,000

Deliverable Description: Final participation agreements rebalancing.

Table 3 - Scope Deliverables and Target Budget

Deliverable/Service Area	Amend 1B
01-Value Planning Refinements	\$751,720
02-Draft Operations Plan	\$314,000
03-Operations with Shasta Exchange	\$382,000
04-Cost of Dry Year Deliveries	\$57,920
05-Environmental Benefits (Inc Temperature & Biological)	\$428,000
06-Ongoing Environmental Planning and Permitting	\$1,555,300
07-Geotech Support to Reclamation Feasibility	\$84,000
08-Response to Direction from Organizational Assessment	\$719,280
09-Qualitative Risk Assessment	\$77,920
10-Communications and Government Affairs	\$296,880
11-Work Plan Amend 1B and 2	\$155,720
12-Financial Assistance Agreement (WIIN Act Funding)	\$114,600
13-WIFIA Loan Application	\$20,000
14-Accounts Payable and Accounts Receivable	\$253,164
14-Contract Management	\$170,514
14-CWC Invoicing and Other Reporting	\$232,336
14-Monthly Board/Res Comm Support	\$404,228
14-Real Estate Landowner Coordination	\$54,719
15-General Counsel	\$120,000
16-Project Description Engineering	\$1,521,680
17-Geotech Permitting and Planning	\$517,440
18-Participation Agreement and Rebalancing	\$138,640
Grand Total	\$8,370,061
Note: Green shading indicates new or substantially changed deliverable, in comparison to document presented in December 2019.	

Attachment A - Amendment 1B Budget by Deliverable

Phase 2 Work Plan Amend 1B

Reservoir Committee Budget Only, Jan 1 2020 to Aug 31, 2020

Deliverable/Resource	Amend 1B
01-Value Planning Refinements	\$751,720
CH2M Hill Engineers	\$210,000
HDR	\$150,000
MDA	\$100,000
AECOM	\$88,000
Brown and Caldwell	\$75,000
General Manager	\$51,680
Real Estate and Public Affairs Manager	\$37,440
Project Operations Manager	\$25,600
Environmental Planning and Permitting Manager	\$14,000
02-Draft Operations Plan	\$314,000
CH2M Hill Engineers	\$150,000
Environmental Planning and Permitting Manager	\$84,000
HDR	\$80,000
03-Operations with Shasta Exchange	\$382,000
CH2M Hill Engineers	\$250,000
HDR	\$76,000
Environmental Planning and Permitting Manager	\$56,000
04-Cost of Dry Year Deliveries	\$57,920
Brown and Caldwell	\$45,000
General Manager	\$12,920
05-Environmental Benefits (Inc Temperature & Biological)	\$428,000
HDR	\$150,000
CH2M Hill Engineers	\$150,000
ICF Jones and Stokes - F	\$100,000
Environmental Planning and Permitting Manager	\$28,000
06-Ongoing Environmental Planning and Permitting	\$1,555,300
ICF Jones and Stokes - E	\$428,000
ICF Jones and Stokes - F	\$298,300
Perkins Coie	\$250,000
MBK Engineers	\$176,000
CH2M Hill Engineers	\$154,000
HDR	\$150,000
Environmental Planning and Permitting Manager	\$84,000
Jerry Johns	\$15,000
07-Geotech Support to Reclamation Feasibility	\$84,000
ICF Jones and Stokes - F	\$60,000
Environmental Planning and Permitting Manager	\$14,000
HDR	\$10,000
08-Response to Direction from Organizational Assessment	\$719,280
Executive Director	\$250,000
Strategic Planner	\$100,000

Deliverable/Resource	Amend 1B
Project Operations Manager	\$76,800
HDR	\$75,000
Brown and Caldwell	\$75,000
Gary Darling	\$65,000
General Manager	\$38,760
Avery	\$20,000
Real Estate and Public Affairs Manager	\$18,720
09-Qualitative Risk Assessment	\$77,920
HDR	\$50,000
Brown and Caldwell	\$15,000
General Manager	\$12,920
10-Communications and Government Affairs	\$296,880
Katz & Associates	\$140,000
Real Estate and Public Affairs Manager	\$74,880
Ferguson Group / Natural Resources Results	\$50,000
Keith Dunn	\$32,000
11-Work Plan Amend 1B and 2	\$155,720
Brown and Caldwell	\$70,000
HDR	\$60,000
General Manager	\$12,920
Project Operations Manager	\$12,800
12-Financial Assistance Agreement (WIIN Act Funding)	\$114,600
HDR	\$73,000
Project Operations Manager	\$25,600
Brown and Caldwell	\$16,000
13-WIFIA Loan Application	\$20,000
HDR	\$10,000
Brown and Caldwell	\$10,000
14-Accounts Payable and Accounts Receivable	\$253,164
Brown and Caldwell	\$177,610
K-Coe Isom LLP	\$50,000
Project Operations Manager	\$12,800
HDR	\$12,754
14-Contract Management	\$170,514
Brown and Caldwell	\$95,000
Project Operations Manager	\$51,200
HDR	\$24,314
14-CWC Invoicing and Other Reporting	\$232,336
Brown and Caldwell	\$200,000
HDR	\$19,536
Project Operations Manager	\$12,800
14-Monthly Board/Res Comm Support	\$404,228
Brown and Caldwell	\$120,713
CH2M Hill Engineers	\$101,107

Deliverable/Resource	Amend 1B
HDR	\$66,128
General Manager	\$51,680
Board Clerk	\$39,000
Project Operations Manager	\$25,600
14-Real Estate Landowner Coordination	\$54,719
Bender Rosenthal, Inc.	\$35,999
Real Estate and Public Affairs Manager	\$18,720
15-General Counsel	\$120,000
Young Wooldridge	\$120,000
16-Project Description Engineering	\$1,521,680
Jacobs	\$800,000
AECOM	\$400,000
Bender Rosenthal, Inc.	\$150,000
HDR	\$120,000
General Manager	\$51,680
17-Geotech Permitting and Planning	\$517,440
ICF Jones and Stokes - F	\$250,000
HDR	\$100,000
Fugro	\$50,000
Permit Fees	\$50,000
Real Estate and Public Affairs Manager	\$37,440
Rights of Entry	\$30,000
18-Participation Agreement and Rebalancing	\$138,640
Doug Brown	\$50,000
MDA	\$50,000
General Manager	\$25,840
Project Operations Manager	\$12,800
Grand Total	\$8,370,061

Attachment B - Amendment 1B Budget by Resource

Phase 2 Work Plan Amend 1B

Reservoir Committee Budget Only, Jan 1 2020 to Aug 31, 2020

Resource/Deliverable	Amend 1B
AECOM	\$488,000
01-Value Planning Refinements	\$88,000
16-Project Description Engineering	\$400,000
Avery	\$20,000
08-Response to Direction from Organizational Assessment	\$20,000
Bender Rosenthal, Inc.	\$185,999
14-Real Estate Landowner Coordination	\$35,999
16-Project Description Engineering	\$150,000
Board Clerk	\$39,000
14-Monthly Board/Res Comm Support	\$39,000
Brown and Caldwell	\$899,323
01-Value Planning Refinements	\$75,000
04-Cost of Dry Year Deliveries	\$45,000
08-Response to Direction from Organizational Assessment	\$75,000
09-Qualitative Risk Assessment	\$15,000
11-Work Plan Amend 1B and 2	\$70,000
12-Financial Assistance Agreement (WIIN Act Funding)	\$16,000
13-WIFIA Loan Application	\$10,000
14-Accounts Payable and Accounts Receivable	\$177,610
14-Contract Management	\$95,000
14-CWC Invoicing and Other Reporting	\$200,000
14-Monthly Board/Res Comm Support	\$120,713
CH2M Hill Engineers	\$1,015,107
01-Value Planning Refinements	\$210,000
02-Draft Operations Plan	\$150,000
03-Operations with Shasta Exchange	\$250,000
05-Environmental Benefits (Inc Temperature & Biological)	\$150,000
06-Ongoing Environmental Planning and Permitting	\$154,000
14-Monthly Board/Res Comm Support	\$101,107
Doug Brown	\$50,000
18-Participation Agreement and Rebalancing	\$50,000
Environmental Planning and Permitting Manager	\$280,000
01-Value Planning Refinements	\$14,000
02-Draft Operations Plan	\$84,000
03-Operations with Shasta Exchange	\$56,000
05-Environmental Benefits (Inc Temperature & Biological)	\$28,000
06-Ongoing Environmental Planning and Permitting	\$84,000
07-Geotech Support to Reclamation Feasibility	\$14,000
Executive Director	\$250,000
08-Response to Direction from Organizational Assessment	\$250,000
Ferguson Group / Natural Resources Results	\$50,000
10-Communications and Government Affairs	\$50,000

Resource/Deliverable	Amend 1B
Fugro	\$50,000
17-Geotech Permitting and Planning	\$50,000
Gary Darling	\$65,000
08-Response to Direction from Organizational Assessment	\$65,000
General Manager	\$258,400
01-Value Planning Refinements	\$51,680
04-Cost of Dry Year Deliveries	\$12,920
08-Response to Direction from Organizational Assessment	\$38,760
09-Qualitative Risk Assessment	\$12,920
11-Work Plan Amend 1B and 2	\$12,920
14-Monthly Board/Res Comm Support	\$51,680
16-Project Description Engineering	\$51,680
18-Participation Agreement and Rebalancing	\$25,840
HDR	\$1,226,732
01-Value Planning Refinements	\$150,000
02-Draft Operations Plan	\$80,000
03-Operations with Shasta Exchange	\$76,000
05-Environmental Benefits (Inc Temperature & Biological)	\$150,000
06-Ongoing Environmental Planning and Permitting	\$150,000
07-Geotech Support to Reclamation Feasibility	\$10,000
08-Response to Direction from Organizational Assessment	\$75,000
09-Qualitative Risk Assessment	\$50,000
11-Work Plan Amend 1B and 2	\$60,000
12-Financial Assistance Agreement (WIIN Act Funding)	\$73,000
13-WIFIA Loan Application	\$10,000
14-Accounts Payable and Accounts Receivable	\$12,754
14-Contract Management	\$24,314
14-CWC Invoicing and Other Reporting	\$19,536
14-Monthly Board/Res Comm Support	\$66,128
16-Project Description Engineering	\$120,000
17-Geotech Permitting and Planning	\$100,000
ICF Jones and Stokes - E	\$428,000
06-Ongoing Environmental Planning and Permitting	\$428,000
ICF Jones and Stokes - F	\$708,300
05-Environmental Benefits (Inc Temperature & Biological)	\$100,000
06-Ongoing Environmental Planning and Permitting	\$298,300
07-Geotech Support to Reclamation Feasibility	\$60,000
17-Geotech Permitting and Planning	\$250,000
Jacobs	\$800,000
16-Project Description Engineering	\$800,000
Jerry Johns	\$15,000
06-Ongoing Environmental Planning and Permitting	\$15,000
Katz & Associates	\$140,000
10-Communications and Government Affairs	\$140,000

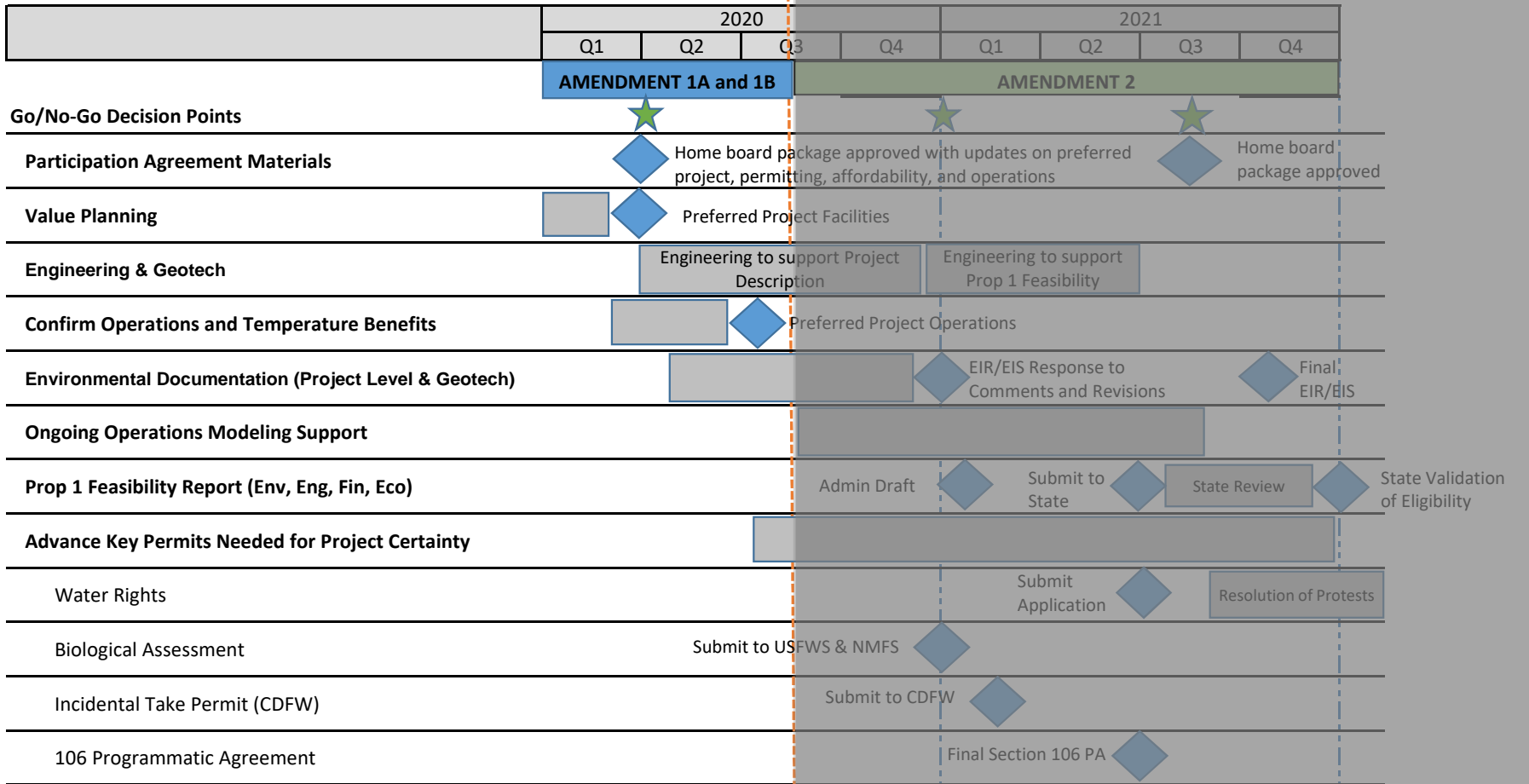
Resource/Deliverable	Amend 1B
K-Coe Isom LLP	\$50,000
14-Accounts Payable and Accounts Receivable	\$50,000
Keith Dunn	\$32,000
10-Communications and Government Affairs	\$32,000
MBK Engineers	\$176,000
06-Ongoing Environmental Planning and Permitting	\$176,000
MDA	\$150,000
01-Value Planning Refinements	\$100,000
18-Participation Agreement and Rebalancing	\$50,000
Perkins Coie	\$250,000
06-Ongoing Environmental Planning and Permitting	\$250,000
Permit Fees	\$50,000
17-Geotech Permitting and Planning	\$50,000
Project Operations Manager	\$256,000
01-Value Planning Refinements	\$25,600
08-Response to Direction from Organizational Assessment	\$76,800
11-Work Plan Amend 1B and 2	\$12,800
12-Financial Assistance Agreement (WIIN Act Funding)	\$25,600
14-Accounts Payable and Accounts Receivable	\$12,800
14-Contract Management	\$51,200
14-CWC Invoicing and Other Reporting	\$12,800
14-Monthly Board/Res Comm Support	\$25,600
18-Participation Agreement and Rebalancing	\$12,800
Real Estate and Public Affairs Manager	\$187,200
01-Value Planning Refinements	\$37,440
08-Response to Direction from Organizational Assessment	\$18,720
10-Communications and Government Affairs	\$74,880
14-Real Estate Landowner Coordination	\$18,720
17-Geotech Permitting and Planning	\$37,440
Rights of Entry	\$30,000
17-Geotech Permitting and Planning	\$30,000
Strategic Planner	\$100,000
08-Response to Direction from Organizational Assessment	\$100,000
Young Wooldridge	\$120,000
15-General Counsel	\$120,000
Grand Total	\$8,370,061

Attachment C – Schedule Graphic

**Sites Reservoir Program
2020-2021 Schedule Drivers**



September 1, 2020



NOTE: This graphic includes schedule drivers only and does not include all activities/deliverables. This work plan is based on current participation commitments.