



Topic: **Reservoir Committee Agenda Item 7-1**

**2020 March 19**

Subject: **September 1, 2020 through December 2021 Updated Work Plan (Amendment 2)**

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**Requested Action:**

Discussion and possible direction to staff regarding the development of the updated work plan for the period of performance starting September 1, 2020 and ending December 31, 2021 in accordance with a proposed Amendment 2 to the current Participation Agreement.

**Background:**

To continue to advance the Sites Project beyond August 31, 2020, an amended participation agreement (Amendment 2) is needed that includes an additional funding commitment (aka cash call). These funds can then be leveraged using a combination of the Prop 1 (WSIP) early funding, which is capped at \$40.8 million, and a portion of the \$6 million WIIN Act appropriation that occurred in December. Based on estimates of local, state, and federal funding available, a work plan needs to be prepared and be based on the current level of local and state conditional investments and the current level of federal interest. The proposed goals of this work plan are:

- a. To improve certainty related to the reservoir's operations and degree of operational integration with the State Water Project and Central Valley Project to produce benefits for both water supply and reliability purposes and water dedicated to environmental purposes;
- b. To improve certainty related to the project's permitability through more-focused early agencies' consultations to then prepare applications for key federal and state permits and the state's water rights;
- c. To complete the environmental analysis and documentation as required under CEQA and NEPA;
- d. To improve certainty related to the project's affordability by advancing the level of engineering and implementing risk management to improve the accuracy of the cost estimates. In addition, pursue low interest financing and potential grants;
- e. To continue to cultivate and strengthen partnerships with local landowners, communities, and key stakeholders that represent environmental, business, labor, and other interests;
- f. To meet the January 1, 2022 Prop 1 (WSIP) milestone to remain eligible to receive the \$775 million in construction funding;
- g. To identify continued participation Go/No-Go decision points with staggered cash calls; and

h. To develop a successor participation agreement, work plan, and funding or finance plan to advance the Sites Project beyond December 31, 2021.

Proposed Schedule:

- January 17: Obtain input to overall goals, priorities, and milestones.
- February 21: Obtain input to *strawman* work plan (task list, initial milestones, and range of proposed cash calls) and proposed information package to be provided to each home board.
- March 19: Obtain input to an initial work plan (revised task list, more-defined CPM schedule, and cash call timing) and proposed information package.
- March 30: At a workshop, obtain input to the schedule, the proposed allocation of costs, and the proposed cash call timing for the purpose of developing a final draft of work plan for approval at the April meetings.
- April 17: Obtain final input and approval of the work plan to create Exhibit B to the amended participation agreement.

NOTE: Authority Board's consideration to approve is scheduled for April 22.

- May 1: Distribute document package for Home Boards' consideration.
- July 9: Response from Home Board for inclusion into agenda package for July 16 Reservoir Committee meeting to:
  1. Consider approving the participation responses.
  2. Authorize preparation of the first invoice due in 30 days (i.e. September 1, 2020). Plan is to distribute invoices to home boards on or before July 31.
  3. If needed, authorize the rebalancing process.

NOTE: Authority Board's consideration to approve is scheduled for July 22.

- August 21: Reservoir Committee approve consultant services contract amendments and initial set of task orders to issue near-term Notices to Proceed on or before September 1.
- September 1: Formal start of amendment 2 to the current participation agreement.

**Updated Work Plan:**

Process: Based on input from the Reservoir Committee, staff continued to develop a project schedule through 2021 (Attachment A), with particular focus given to the critical path. Based on the activities scheduled for September 1, 2020 through December 31, 2021, preliminary cost estimates were developed, and the schedule was cost loaded. The cash flow based on this exercise, including cash calls from the Reservoir Committee, is included in Attachment B. Based on this scenario, the cash call invoices totaling \$100/AF would occur as follows:

- \$60/AF, Due September 1, 2020.
- \$40/AF, Due February 1, 2021.

Preliminary cost estimates by subject area are shown in Attachment C, reflecting highest priority spending on project permitting (36%), engineering in support of the project description and feasibility (15%), and the environmental planning documents (13%).

Based on the revenue scenario and focusing on the work plan goals as defined, the following activities are proposed to be **deferred beyond December 31, 2021**:

- Any additional repayment of Phase 1 contributed credit to participants.
- Payment of permit application fees.
- Purchasing of real estate.
- Early procurement of equipment.
- Development of alternative delivery bridging documents, which includes alternative delivery legal support.
- Development of a detailed Program Management Plan (PMP) and associated standards.
- Development of policies and procedures beyond those necessary to receive previously identified grants or funding agreements.
- Implementation of a Project Management Information System (PMIS) or an enterprise-wide solution for business and asset management (e.g. ERP).

**Prior Action:**

February 21, 2020: Staff provided information on three possible revenue scenarios and a task list for Amendment 2 (September 1, 2020 and ending December 31, 2021). Staff received direction to continue to develop the \$100/AF revenue scenario assuming a reduction in participation up to 10%.

January 17, 2020: Staff provided information regarding the proposed process for developing a work plan. This work plan proposes to focus on improving certainty related to the operations, permitting, and affordability and meet the January 1, 2022 Prop 1 (WSIP) milestone to remain eligible to receive funding.

**Fiscal Impact/Funding Source:**

Not yet determined

**Staff Contact:**

Joe Trapasso

**Attachments:**

Attachment A: Project Schedule Through Dec 31, 2021 (Amendment 2)

Attachment B: Amendment 2 Cash Flow Curves, Reservoir Committee and Authority Board

Attachment C: Amendment 2 Work Plan Spend by Subject Area

# Sites Reservoir Project

Activity ID	Activity Name	Ori Dur	Start	Finish	2020												2021											
					Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>SITES PROJECT</b>					[Summary bar: 02-Jan-20 to 25-Feb-22]																							
<b>MILESTONES</b>					[Summary bar: 31-Aug-20 to 15-Dec-21]																							
MS-001	Local Funding (Go/No-go #1)	0		31-Aug-20	[Milestone diamond at Aug 31, 2020]																							
MS-002	Local Funding (Go/No-go #2)	0		08-Jan-21	[Milestone diamond at Jan 8, 2021]																							
MS-003	Local Funding (Go/No-go #3)	0		15-Dec-21	[Milestone diamond at Dec 15, 2021]																							
<b>LOCAL FUNDING</b>					[Summary bar: 02-Jan-20 to 31-Dec-21]																							
<b>Execute Participation Agreement 1B</b>					[Summary bar: 23-Jan-20 to 04-Jun-20]																							
PA-010	Amend Task Orders	26	23-Jan-20	27-Feb-20	[Bar: Jan 23 to Feb 27, 2020]																							
PA-020	Final Participation Agreement Amendment 1B	15	18-Mar-20	08-Apr-20	[Bar: Mar 18 to Apr 8, 2020]																							
PA-030	Engineering Task Orders (HC, HR)	30	23-Jan-20	04-Mar-20	[Bar: Jan 23 to Mar 4, 2020]																							
PA-040	Amendment 1B Exhibit B	5	01-Apr-20	08-Apr-20	[Bar: Apr 1 to Apr 8, 2020]																							
PA-050	Executed 1B	0		04-Jun-20	[Milestone diamond at Jun 4, 2020]																							
<b>Execute Participation Agreement 2</b>					[Summary bar: 18-Mar-20 to 26-Aug-20]																							
PA-120	Draft Participation Agreement Amend 2 for Home Board Review	15	18-Mar-20	08-Apr-20	[Bar: Mar 18 to Apr 8, 2020]																							
PA-130	Home Board Review - Determine Participation Level	44	17-Apr-20	18-Jun-20	[Bar: Apr 17 to Jun 18, 2020]																							
PA-140	Rebalance Participation	8	19-Jun-20	30-Jun-20	[Bar: Jun 19 to Jun 30, 2020]																							
PA-150	Final Participation Agreement Amend 2 with Exhibits	0		30-Jun-20	[Milestone diamond at Jun 30, 2020]																							
PA-160	Execute Amendment 2	0		26-Aug-20	[Milestone diamond at Aug 26, 2020]																							
<b>Execute Successor Participation Agreement 2</b>					[Summary bar: 02-Aug-21 to 31-Dec-21]																							
PA-210	Execute Successor Agreement	106	02-Aug-21*	31-Dec-21	[Bar: Aug 2, 2021 to Dec 31, 2021]																							
<b>Work Plan Amend 1B</b>					[Summary bar: 02-Jan-20 to 26-Feb-20]																							
WP-005	Incorporate Comments from Dec Res Comm Mtg	9	02-Jan-20*	14-Jan-20	[Bar: Jan 2 to Jan 14, 2020]																							
WP-015	Prepare Final Work Plan	14	15-Jan-20	03-Feb-20	[Bar: Jan 15 to Feb 3, 2020]																							
WP-020	Budget & Finance Work Group Review	5	04-Feb-20	10-Feb-20	[Bar: Feb 4 to Feb 10, 2020]																							
WP-025	Work Plan 1B Approved	0		26-Feb-20	[Milestone diamond at Feb 26, 2020]																							
<b>Work Plan Amend 2</b>					[Summary bar: 28-Jan-20 to 01-Sep-20]																							
<b>Develop Schedule</b>					[Summary bar: 28-Jan-20 to 06-Mar-20]																							
WP-040	Develop Draft Schedule thru Dec 31, 2021	13	28-Jan-20	13-Feb-20	[Bar: Jan 28 to Feb 13, 2020]																							
WP-060	Develop Final Schedule through Dec 2021	10	24-Feb-20	06-Mar-20	[Bar: Feb 24 to Mar 6, 2020]																							
<b>Work Plan Scope Document</b>					[Summary bar: 28-Jan-20 to 06-Apr-20]																							
WP-050	Draft Work Plan Task List	13	28-Jan-20	13-Feb-20	[Bar: Jan 28 to Feb 13, 2020]																							
WP-070	Final Work Plan Scope Document	31	24-Feb-20	06-Apr-20	[Bar: Feb 24 to Apr 6, 2020]																							
<b>Work Plan Budget</b>					[Summary bar: 28-Jan-20 to 06-Apr-20]																							
WP-035	Budget Scenarios and Assumptions	2	11-Feb-20	12-Feb-20	[Bar: Feb 11 to Feb 12, 2020]																							
WP-055	Draft Work Plan Budget	13	28-Jan-20	13-Feb-20	[Bar: Jan 28 to Feb 13, 2020]																							
WP-090	Final Work Plan Budget	31	24-Feb-20	06-Apr-20	[Bar: Feb 24 to Apr 6, 2020]																							
<b>Amendment 2</b>					[Summary bar: 07-Apr-20 to 01-Sep-20]																							
WP-095	Final Amendment 2 Work Plan	5	07-Apr-20	13-Apr-20	[Bar: Apr 7 to Apr 13, 2020]																							
WP-110	Develop Task Orders (Sep 2020 to Dec 2021)	51	14-Apr-20	24-Jun-20	[Bar: Apr 14 to Jun 24, 2020]																							
WP-120	Work Plan 2 Approved	0		24-Jun-20	[Milestone diamond at Jun 24, 2020]																							
WP-130	Start of Amend 2	0		01-Sep-20	[Milestone diamond at Sep 1, 2020]																							
<b>VALUE PLANNING</b>					[Summary bar: 02-Jan-20 to 13-Apr-20]																							
<b>Value Planning Analysis</b>					[Summary bar: 02-Jan-20 to 03-Mar-20]																							
VP-001	Refine Value Planning Options	3	02-Jan-20	06-Jan-20	[Bar: Jan 2 to Jan 6, 2020]																							
VP-002	Screen Value Planning Options	20	07-Jan-20	03-Feb-20	[Bar: Jan 7 to Feb 3, 2020]																							
VP-006	Qualitative Permit Screening	37	02-Jan-20	21-Feb-20	[Bar: Jan 2 to Feb 21, 2020]																							

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## Project Schedule

# Sites Reservoir Project

Date: 12-Mar-20

Activity ID	Activity Name	Ori Dur	Start	Finish	2020												2021											
					Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
VP-007	Qualitative Env Screening	37	02-Jan-20	21-Feb-20	[Gantt bar]																							
VP-008	Qualitative Ops Screening	37	02-Jan-20	21-Feb-20	[Gantt bar]																							
VP-013	Prepare Costs For Value Planning Alternatives	15	04-Feb-20	24-Feb-20	[Gantt bar]																							
VP-014	Affordability Analysis	4	25-Feb-20	28-Feb-20	[Gantt bar]																							
VP-015	Screen Alternatives	2	02-Mar-20	03-Mar-20	[Gantt bar]																							
VP-020	Recommend Preferred Option	0		03-Mar-20	[Gantt bar]																							
<b>Value Planning Report</b>		42	14-Feb-20	13-Apr-20	[Summary bar]																							
VP-025	Value Planning Draft Report	21	14-Feb-20	13-Mar-20	[Gantt bar]																							
VP-070	Select and Confirm Preferred Project	21	16-Mar-20	13-Apr-20	[Gantt bar]																							
VP-090	Value Planning Final Report	17	20-Mar-20	13-Apr-20	[Gantt bar]																							
<b>Preferred Project</b>		0	13-Apr-20	13-Apr-20	[Milestone diamond]																							
VP-095	Approve Preferred Project	0		13-Apr-20	[Milestone diamond]																							
<b>PROJECT DESCRIPTION</b>		143	11-Feb-20	31-Aug-20	[Summary bar]																							
<b>Determine Needs</b>		56	11-Feb-20	28-Apr-20	[Summary bar]																							
PDE-10	Environmental Planning Needs	56	11-Feb-20	28-Apr-20	[Gantt bar]																							
PDE-20	Permitting Needs	56	11-Feb-20	28-Apr-20	[Gantt bar]																							
PDE-25	Engineering Needs	46	11-Feb-20	14-Apr-20	[Gantt bar]																							
PDE-30	Operations Needs	10	11-Feb-20	24-Feb-20	[Gantt bar]																							
PDE-35	Water Rights Needs (Reg Items/Study)	46	11-Feb-20	14-Apr-20	[Gantt bar]																							
<b>Components</b>		60	01-Apr-20	24-Jun-20	[Summary bar]																							
PDE-40	Identify Alternatives for EIR/EIS	30	01-Apr-20	12-May-20	[Gantt bar]																							
PDE-42	Determine Preliminary Project Construction Sequencing	30	13-May-20	24-Jun-20	[Gantt bar]																							
PDE-45	Identify Project-Level vs Program Components (Planning)	47	14-Apr-20	18-Jun-20	[Gantt bar]																							
PDE-47	Identify Project-Level vs Program Components (Permitting)	47	14-Apr-20	18-Jun-20	[Gantt bar]																							
<b>Develop Project Description</b>		85	29-Apr-20	27-Aug-20	[Summary bar]																							
PDE-50	Develop Project Description Construction	85	29-Apr-20	27-Aug-20	[Gantt bar]																							
PDE-55	Project Description Operations Criteria Complete (see Ops Tasks)	0		12-Jun-20	[Milestone diamond]																							
<b>Project Description Complete</b>		0	31-Aug-20	31-Aug-20	[Milestone diamond]																							
PDE-60	Project Description	0		31-Aug-20	[Milestone diamond]																							
<b>OPERATIONS</b>		486	02-Jan-20	29-Nov-21	[Summary bar]																							
<b>Value Planning Operations</b>		71	02-Jan-20	10-Apr-20	[Summary bar]																							
OP-005	Value Planning Model	37	02-Jan-20	21-Feb-20	[Gantt bar]																							
OP-007	Stony Creek Evaluation	37	02-Jan-20	21-Feb-20	[Gantt bar]																							
OP-010	Shasta Exchanges Post-Processing and Draft TM	37	02-Jan-20	21-Feb-20	[Gantt bar]																							
OP-015	Value Planning TM/Document	20	03-Feb-20	28-Feb-20	[Gantt bar]																							
OP-020	Storage to Release Ratios Table	15	10-Feb-20	28-Feb-20	[Gantt bar]																							
OP-070	Reclamation Feasibility Complete (Milestone) - Critical Staffing Need	0		10-Apr-20*	[Milestone diamond]																							
<b>Refine Operational Parameters</b>		89	10-Feb-20	12-Jun-20	[Summary bar]																							
OP-110	Confirm Notched Fremont Weir Approach	44	10-Feb-20	09-Apr-20	[Gantt bar]																							
OP-120	Model Reclamation with No Storage Investment	44	10-Apr-20	11-Jun-20	[Gantt bar]																							
OP-130	Confirm Shasta Exchange Approach	44	10-Feb-20	09-Apr-20	[Gantt bar]																							
OP-140	Confirm Sutter Bypass Approach	44	10-Feb-20	09-Apr-20	[Gantt bar]																							
OP-150	Confirm Voluntary Agreement Weir Notching Approach	44	10-Feb-20	09-Apr-20	[Gantt bar]																							
OP-160	Confirm Delta Water Quality Approach	44	10-Feb-20	09-Apr-20	[Gantt bar]																							
OP-170	Confirm Sacramento River Mortality Approach	44	10-Feb-20	09-Apr-20	[Gantt bar]																							
OP-180	Determine Baseline	30	10-Feb-20	20-Mar-20	[Gantt bar]																							

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## Project Schedule

# Sites Reservoir Project

Date: 12-Mar-20

Activity ID	Activity Name	Ori Dur	Start	Finish	2020												2021											
					Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
OP-190	Confirm CVP/SWP Integration Approach	44	10-Feb-20	09-Apr-20																								
OP-200	Confirm Participation Demands Updated	44	10-Feb-20	09-Apr-20																								
OP-210	Confirm Model Refinements	44	10-Apr-20	11-Jun-20																								
OP-220	Finalize Operational Criteria	0		12-Jun-20																								
<b>Full Operations Analysis</b>		104	15-Jun-20	09-Nov-20																								
OP-410	Initial Modeling Evaluation	45	15-Jun-20	17-Aug-20																								
OP-420	Preliminary Results Available for Strategy Discussions	0		17-Aug-20																								
OP-430	Define and Finalize	48	18-Aug-20	23-Oct-20																								
OP-440	Power and Economics	10	26-Oct-20	06-Nov-20																								
OP-450	Final Operations Analysis's Output	0		09-Nov-20																								
<b>Coordination</b>		350	14-Jul-20	29-Nov-21																								
OP-320	Documentation for EIR/EIS and BA/ITP	40	10-Nov-20	08-Jan-21																								
OP-330	Ongoing Support to EPP, Engineering, & Financial	350	14-Jul-20	29-Nov-21																								
OP-340	Cumulative and Climate Change	62	10-Nov-20	09-Feb-21																								
OP-350	Bridging Simulation	126	10-Nov-20	10-May-21																								
OP-360	Ops Support for Local Feasibility - Water Commission	160	10-Nov-20	28-Jun-21																								
<b>EIR/EIS</b>		520	11-Feb-20	25-Feb-22																								
<b>Work Plan &amp; Outline</b>		134	11-Feb-20	18-Aug-20																								
EIR-001	Prepare EIR/EIS Work Plan	56	11-Feb-20	28-Apr-20																								
EIR-010	Prepare Annotated Outline	68	13-May-20	18-Aug-20																								
EIR-015	Introduction Chapter/Recirculation Story	68	13-May-20	18-Aug-20																								
<b>Draft EIR/EIS</b>		220	01-Sep-20	14-Jul-21																								
EIR-019	Prepare Revised Draft EIR/EIS Analysis (Construction)	70	01-Sep-20	10-Dec-20																								
EIR-020	Prepare Revised Draft EIR/EIS Analysis (Operations)	61	11-Dec-20	09-Mar-21																								
EIR-021	Status Update to Board	5	11-Jan-21	15-Jan-21																								
EIR-025	Prepare Cumulative and Climate Change Sections	20	10-Feb-21	09-Mar-21																								
EIR-026	Prepare Complete Admin Draft EIR/EIS	60	29-Dec-20	23-Mar-21																								
EIR-030	Authority/Reclamation/Integration Review of Admin Draft EIR/EIS	9	24-Mar-21	05-Apr-21																								
EIR-040	Revise Draft EIR/EIS Based on Comments	20	06-Apr-21	03-May-21																								
EIR-045	Live Edit Meeting	1	04-May-21	04-May-21																								
EIR-050	Work Group & Legal Review of Revised Draft EIR/EIS	22	05-May-21	03-Jun-21																								
EIR-060	Resolve Work Group Comments	15	04-Jun-21	24-Jun-21																								
EIR-065	Live Edit Meeting	2	25-Jun-21	28-Jun-21																								
EIR-067	Final Editing, Formatting and Doc Production	10	29-Jun-21	13-Jul-21																								
EIR-070	Authority Approval of Release Revised Draft EIR/EIS	1	14-Jul-21	14-Jul-21																								
EIR-080	Release Revised Draft EIR/EIS and Issue Public Notices	0		14-Jul-21																								
<b>Public Review</b>		60	15-Jul-21	12-Sep-21																								
EIR-090	Public Review Period	60	15-Jul-21	12-Sep-21																								
<b>Summary Report</b>		67	30-Aug-21	03-Dec-21																								
EIR-095	Categorize and Sort Comments by Topic	20	30-Aug-21	27-Sep-21																								
EIR-100	Approach to Response to Comments	15	28-Sep-21	18-Oct-21																								
EIR-105	Authority/Reclamation/Legal Review	5	19-Oct-21	25-Oct-21																								
EIR-110	Prepare Summary Report	20	26-Oct-21	22-Nov-21																								
EIR-115	Work Group & Legal Review of Summary Report	5	23-Nov-21	01-Dec-21																								
EIR-117	Live Edit Meeting of Summary Report	1	02-Dec-21	02-Dec-21																								
EIR-120	Draft EIR Summary Report Submittal to CWC	0		03-Dec-21																								

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## Project Schedule

# Sites Reservoir Project

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					Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>Response to Comments</b>					90   19-Oct-21   25-Feb-22																							
EIR-130	Begin Preparation of Final EIR/EIS Including Response to Comments	90	19-Oct-21	25-Feb-22	[Gantt bar for EIR-130]																							
<b>PERMITTING</b>					439   14-Apr-20   06-Jan-22																							
<b>Biological Assessment</b>					306   14-Apr-20   28-Jun-21																							
BA-001	Initial Desktop Analysis	60	01-Oct-20	28-Dec-20	[Gantt bar for BA-001]																							
BA-010	Mitigation Planning	202	14-Apr-20	29-Jan-21	[Gantt bar for BA-010]																							
BA-015	Adaptive Management Plan	202	14-Apr-20	29-Jan-21	[Gantt bar for BA-015]																							
BA-019	Confirm Federal Scope of Action (ESA)	38	14-Apr-20	05-Jun-20	[Gantt bar for BA-019]																							
BA-020	Permitting Construction Project Description	16	08-Jun-20	29-Jun-20	[Gantt bar for BA-020]																							
BA-022	Permitting Operations Project Description	20	20-Oct-20	16-Nov-20	[Gantt bar for BA-022]																							
BA-024	Prepare Construction Analysis	97	01-Oct-20	18-Feb-21	[Gantt bar for BA-024]																							
BA-025	Prepare Operations Analysis	60	17-Nov-20	12-Feb-21	[Gantt bar for BA-025]																							
BA-030	Finalize Admin Draft BA	20	19-Feb-21	18-Mar-21	[Gantt bar for BA-030]																							
BA-032	Submit Final Admin Draft BA	0		18-Mar-21	[Milestone for BA-032]																							
BA-035	Independent Review Draft BA	30	19-Mar-21	17-Apr-21	[Gantt bar for BA-035]																							
BA-055	Reclamation, Legal, and Work Group Review	30	19-Mar-21	17-Apr-21	[Gantt bar for BA-055]																							
BA-057	Revise Admin Draft BA	30	19-Apr-21	28-May-21	[Gantt bar for BA-057]																							
BA-060	Submit Revised Admin Draft BA to Redamation	0		28-May-21	[Milestone for BA-060]																							
BA-075	Final Reclamation and Solicitor Office Review	30	29-May-21	27-Jun-21	[Gantt bar for BA-075]																							
BA-100	Reclamation Submit BA to USFWS & NMFS	0		28-Jun-21	[Milestone for BA-100]																							
<b>BO Incidental Task Authorization</b>					135   28-Jun-21   09-Nov-21																							
BA-1110	BO Incidental Take Authorization	135	28-Jun-21	09-Nov-21	[Gantt bar for BA-1110]																							
<b>ITP - CESA (Se 2081) Operations</b>					231   12-Jan-21   07-Dec-21																							
CES-190	Prepare Operations Analysis	30	12-Jan-21	22-Feb-21	[Gantt bar for CES-190]																							
CES-200	Additional Mitigation Planning	30	23-Feb-21	05-Apr-21	[Gantt bar for CES-200]																							
CES-210	Prepare Draft ITP Application	60	01-Jun-21	24-Aug-21	[Gantt bar for CES-210]																							
CES-220	Legal Review of Draft ITP App	30	25-Aug-21	23-Sep-21	[Gantt bar for CES-220]																							
CES-230	Work Group Review of Draft ITP App	30	25-Aug-21	23-Sep-21	[Gantt bar for CES-230]																							
CES-240	Revise Draft ITP Application	20	23-Sep-21	21-Oct-21	[Gantt bar for CES-240]																							
CES-250	Authority Board Approval of ITP App	30	21-Oct-21	06-Dec-21	[Gantt bar for CES-250]																							
CES-260	Submit ITP Application to CDFW	0		07-Dec-21	[Milestone for CES-260]																							
<b>ITP - CESA (Se 2081) Construction</b>					300   01-Oct-20   07-Dec-21																							
CES-015	Initial Desktop Analysis	30	01-Oct-20	11-Nov-20	[Gantt bar for CES-015]																							
CES-020	Prepare Terrestrial Analysis	30	12-Nov-20	28-Dec-20	[Gantt bar for CES-020]																							
CES-025	Mitigation Planning	30	29-Dec-20	09-Feb-21	[Gantt bar for CES-025]																							
CES-030	Prepare Draft ITP Application	60	01-Jun-21	24-Aug-21	[Gantt bar for CES-030]																							
CES-040	Legal Review of Draft ITP App	30	25-Aug-21	23-Sep-21	[Gantt bar for CES-040]																							
CES-060	Work Group Review of Draft ITP App	30	25-Aug-21	23-Sep-21	[Gantt bar for CES-060]																							
CES-070	Revise Draft ITP Application	20	23-Sep-21	21-Oct-21	[Gantt bar for CES-070]																							
CES-080	Authority Board Approval of ITP App	30	21-Oct-21	06-Dec-21	[Gantt bar for CES-080]																							
CES-090	Submit ITP Application to CDFW	0		07-Dec-21	[Milestone for CES-090]																							
<b>Section 106</b>					317   01-Sep-20   02-Dec-21																							
106-000	Confirmation of Section 106 Federal Lead Agency	0		08-Sep-20	[Milestone for 106-000]																							
106-001	Prepare SHPO Initiation Package	20	01-Sep-20	29-Sep-20	[Gantt bar for 106-001]																							
106-002	Authority/Reclamation/Integration Reviews	10	30-Sep-20	13-Oct-20	[Gantt bar for 106-002]																							
106-003	Management/Work Group Reviews	10	14-Oct-20	27-Oct-20	[Gantt bar for 106-003]																							
106-004	Revisions	10	28-Oct-20	10-Nov-20	[Gantt bar for 106-004]																							

WORKING DRAFT

█ Actual Work   
 █ Critical Remaining Work   
 ◆ Critical Milestone   
  Cal Days  
 Remaining Work   
 ◆ Milestone   
 Summary

## Project Schedule

# Sites Reservoir Project

Date: 12-Mar-20

Activity ID	Activity Name	Ori Dur	Start	Finish	2020												2021											
					Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
106-005	Reclamation Submits to SHPO	0		17-Nov-20																								
106-006	SHPO Review and Comments	30	18-Nov-20	17-Dec-20																								
106-021	Prepare Consultation Information Package	15	17-Dec-20	11-Jan-21																								
106-022	Authority/Reclamation/Integration Reviews	10	11-Jan-21	25-Jan-21																								
106-023	Management/Work Group Reviews	10	25-Jan-21	08-Feb-21																								
106-024	Revisions	10	08-Feb-21	22-Feb-21																								
106-025	Reclamation Distributes to SHPO and Invited Consulting Parties	5	22-Feb-21	01-Mar-21																								
106-026	Parties Accept Invitation for Consulting Party Status	30	02-Mar-21	31-Mar-21																								
106-032	Arrange Meeting Logistics and Prepare Materials	20	22-Feb-21	22-Mar-21																								
106-033	Conduct Meetings	10	01-Mar-21	15-Mar-21																								
106-042	Authority/Reclamation/Integration Reviews	10	30-Mar-21	13-Apr-21																								
106-043	Management/Work Group Reviews	10	13-Apr-21	27-Apr-21																								
106-044	Revisions	10	27-Apr-21	11-May-21																								
106-052	Circulate Draft PA to SHPO and Consulting Parties	5	27-Apr-21	04-May-21																								
106-053	Deadline for Comments on Draft PA	30	05-May-21	03-Jun-21																								
106-061	Prepare Draft Final PA	20	03-Jun-21	01-Jul-21																								
106-062	Authority/Reclamation/Integration Reviews	10	01-Jul-21	16-Jul-21																								
106-063	Management/Work Group Reviews	10	16-Jul-21	30-Jul-21																								
106-064	Revisions	10	30-Jul-21	13-Aug-21																								
106-072	Circulate Draft Final PA to SHPO and Consulting Parties	5	13-Aug-21	20-Aug-21																								
106-073	Deadline for Comments on Draft Final PA	30	21-Aug-21	19-Sep-21																								
106-081	Prepare Final PA	15	20-Sep-21	08-Oct-21																								
106-082	Authority/Reclamation/Integration Reviews	10	11-Oct-21	22-Oct-21																								
106-083	Management/Work Group Reviews	10	25-Oct-21	05-Nov-21																								
106-084	Revisions	10	08-Nov-21	19-Nov-21																								
106-091	Consult with SHPO and Consulting Parties on Final PA	5	22-Nov-21	30-Nov-21																								
106-092	Circulate Final PA to SHPO and Consulting Parties for Signatures	5	22-Nov-21	30-Nov-21																								
106-093	Deadline for Signatures on Final PA	0		02-Dec-21																								
<b>Water Rights</b>		<b>341</b>	<b>01-Sep-20</b>	<b>06-Jan-22</b>																								
WR-005	Water Availability Analysis & Planning/Coordination with SWRCB	210	01-Sep-20	29-Jun-21																								
WR-025	Prepare Water Right Application	121	15-Jul-21	06-Jan-22																								
<b>Section 404</b>		<b>419</b>	<b>14-Apr-20</b>	<b>07-Dec-21</b>																								
404-001	Agreement with Reclamation for LEDPA Analysis	15	14-Apr-20	04-May-20																								
404-003	USACE LEDPA & NEPA, 404/408 and WD Approach	88	05-May-20	08-Sep-20																								
404-010	Desktop Wetland Delineation Analysis (includes Waters of the State)	150	01-Oct-20	04-May-21																								
404-020	Submit Delineation to USACE	0		05-May-21																								
404-025	Pre-Application Meeting	1	01-Jun-21	02-Jun-21																								
404-030	Preliminary Wetland Delineation Acceptance	90	06-May-21	03-Aug-21																								
404-035	Prepare Compensatory Mitigation Plan	161	23-Feb-21	08-Oct-21																								
404-050	Prepare Draft 404 Application	42	03-Aug-21	01-Oct-21																								
404-060	Authority/Integration/Work Group Review of Draft 404 Application	20	11-Oct-21	05-Nov-21																								
404-070	Prepare Final 404 Application	20	08-Nov-21	07-Dec-21																								
404-120	Submit 404 Application	0		07-Dec-21																								
<b>Section 408</b>		<b>341</b>	<b>01-Sep-20</b>	<b>06-Jan-22</b>																								
408-005	Coordinate with CVFPB and USACE	20	01-Sep-20	29-Sep-20																								
408-010	Assume Start of 50% Design of 408 Jurisdictional Features	0		01-Jul-21																								
408-130	Prepare Draft Encroachment Permit/408 Request w/Engineering Team	129	05-Jul-21	06-Jan-22																								
<b>Section 401 Water Quality</b>		<b>311</b>	<b>09-Sep-20</b>	<b>30-Nov-21</b>																								

WORKING DRAFT

█ Actual Work   
 █ Critical Remaining Work   
 ◆ Milestone   
 ◆ Critical Milestone   
 █ Cal Days   
 █ Remaining Work   
 ◆ Milestone   
 ◆ Critical Milestone   
 ◆ Summary

## Project Schedule





# Sites Reservoir Project

Date: 12-Mar-20

Activity ID	Activity Name	Ori Dur	Start	Finish	2020												2021											
					Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>Economics and Financial</b>																												
<b>Feasibility Report</b>																												
ENG-350	Economic Feasibility	5	04-Mar-21	10-Mar-21																								
ENG-360	Financial Feasibility	20	04-Mar-21	31-Mar-21																								
<b>Authority Feasibility Report</b>																												
<b>Feasibility Report</b>																												
ENG-380	Prepare Draft Feasibility Report	30	01-Apr-21	12-May-21																								
ENG-382	Executive Summary (Storyboard)	5	01-Apr-21	07-Apr-21																								
ENG-384	Executive Summary Final	5	06-May-21	12-May-21																								
ENG-385	Work Group Review	5	13-May-21	19-May-21																								
ENG-390	Prepare Final Feasibility Report	30	20-May-21	01-Jul-21																								
ENG-392	Reservoir Committee and Board Approval	5	05-Jul-21	09-Jul-21																								
<b>PROP 1</b>																												
<b>CWC Feasibility Review</b>																												
CWC-391	Release for CWC Review Pkg 1: Engineering	0		09-Jul-21																								
CWC-393	Release for CWC Review Pkg 2: Economic and Finance	0		31-Mar-21																								
CWC-396	Release for CWC Review Pkg 3: Environmental with Res Ops	0		03-Dec-21																								
CWC-397	CWC Review Pkg 1: Engineering	30	12-Jul-21	20-Aug-21																								
CWC-407	CWC Review Pkg 2: Economic and Finance	30	01-Apr-21	12-May-21																								
CWC-417	CWC Review Pkg 3: Environmental with Res Ops	8	06-Dec-21	15-Dec-21																								
<b>CWC Determination</b>																												
CWC-420	Provide CWC with Revised Public Benefits	0		23-Oct-20																								
CWC-450	CWC Public Review Draft EIR/EIS	30	15-Jul-21	25-Aug-21																								
CWC-500	State Determination of Feasibility	0		15-Dec-21*																								
<b>PROJECT OPERATIONS AND FINANCES</b>																												
<b>REAL ESTATE</b>																												
<b>Real Estate Landowner Coordination</b>																												
RE-200	Real Estate Landowner Coordination	171	02-Jan-20	31-Aug-20																								
RE-210	Real Estate Landowner Coordination	338	01-Sep-20	31-Dec-21																								
<b>COMMUNICATIONS &amp; GOVERNMENT AFFAIRS</b>																												
CG-000	Communication & Government Affairs	171	02-Jan-20	31-Aug-20																								
CG-10	Communication & Government Affairs	338	01-Sep-20	31-Dec-21																								
<b>Organizational Assessment</b>																												
ORA-000	Organizational Assessment Direction	171	02-Jan-20	31-Aug-20																								
ORA-010	Organizational Assessment	84	01-Sep-20	31-Dec-20																								
<b>Executive Director</b>																												
EXD-010	Executive Director	338	01-Sep-20	31-Dec-21																								
<b>Contract Amendments</b>																												
CON-010	Contract Management	338	01-Sep-20	31-Dec-21																								
CON-022	Revise Service Area Task Orders for Approval	20	04-Feb-20	02-Mar-20																								
<b>Invoicing &amp; Reporting</b>																												
INV-032	Prepare 4Q2019 CWC invoice	17	16-Jan-20*	07-Feb-20																								
INV-033	Prepare Q12020 CWC invoice	18	16-Jan-20*	10-Feb-20																								
REP-010	Quarterly Reporting	338	01-Sep-20	31-Dec-21																								
REP-020	Annual Reporting	338	01-Sep-20	31-Dec-21																								
<b>Financial Assistance Agreement</b>																												
		55	14-Jan-20	30-Mar-20																								

█ Actual Work   
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 █ Cal Days  
█ Remaining Work   
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▬ Summary

## Project Schedule

# Sites Reservoir Project

Date: 12-Mar-20

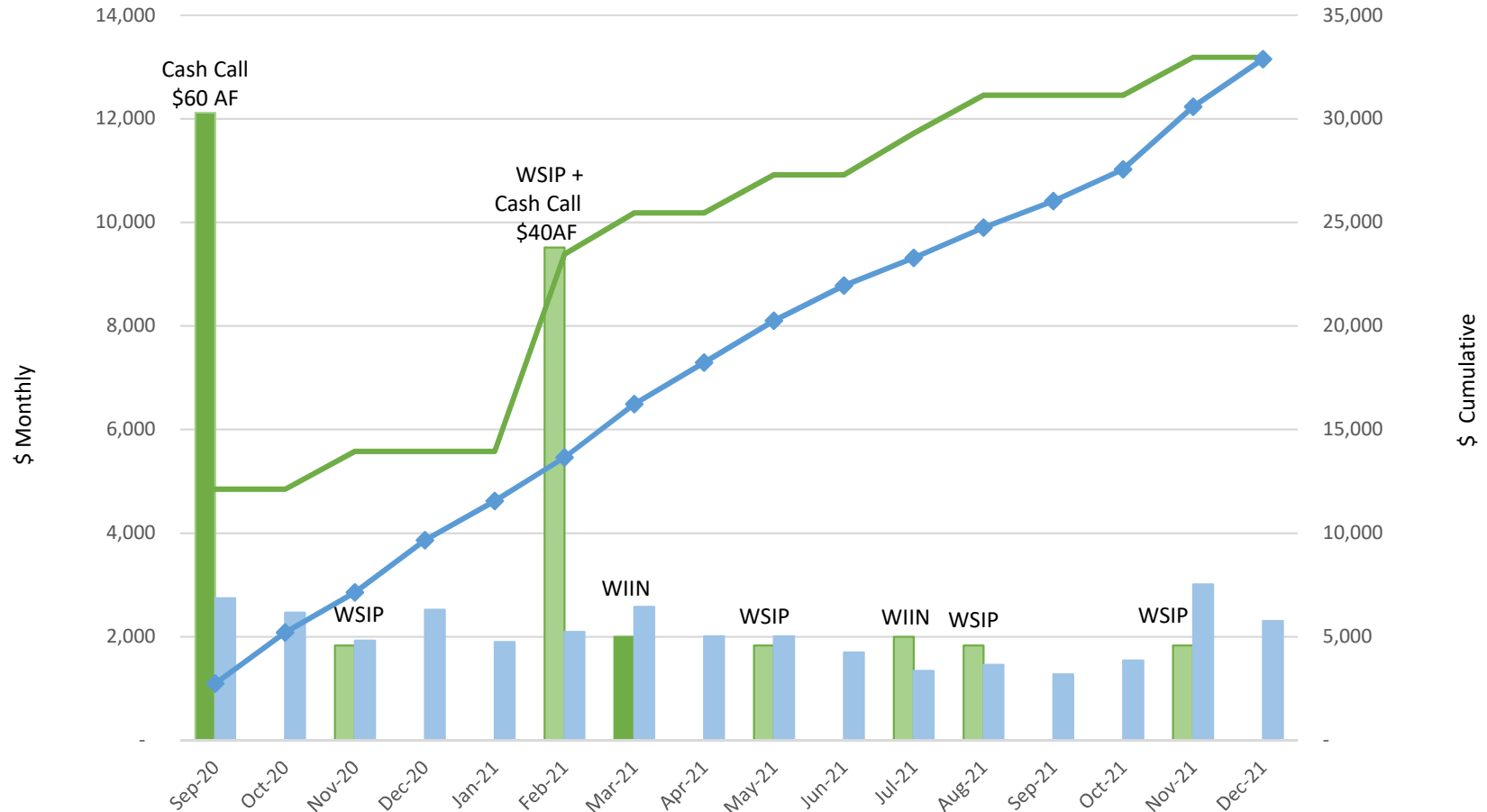
Activity ID	Activity Name	Ori Dur	Start	Finish	2020												2021											
					Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
FAA-005	Prepare Draft FA Scope and Form 424	15	14-Jan-20	03-Feb-20	[Gantt bar]																							
FAA-010	Review Scope with USBR	5	04-Feb-20	10-Feb-20	[Gantt bar]																							
FAA-015	Prepare Budget Estimates, Narrative and Form 424A/B, SFLLL	15	11-Feb-20	02-Mar-20	[Gantt bar]																							
FAA-020	Review with USBR	10	03-Mar-20	16-Mar-20	[Gantt bar]																							
FAA-025	Finalize Draft FA	10	17-Mar-20	30-Mar-20	[Gantt bar]																							
<b>Plan of Finance</b>		<b>319</b>	<b>30-Apr-20</b>	<b>02-Aug-21</b>	[Summary bar]																							
POF-005	Plan of Finance Update 1 (Update Affordability)	0	30-Apr-20*		[Milestone diamond]																							
POF-010	Plan of Finance (Fin Feas)	0	01-Mar-21*		[Milestone diamond]																							
POF-015	Plan of Finance (WIFIA Loan)	0	01-Apr-21*		[Milestone diamond]																							
POF-020	WIFIA/LOI	0	30-Jun-21*		[Milestone diamond]																							
POF-025	Plan of Finance (Home Board Pkg)	0		02-Aug-21*	[Milestone diamond]																							
<b>WIFIA Loan Application</b>		<b>75</b>	<b>20-Jan-20</b>	<b>01-May-20</b>	[Summary bar]																							
WL-005	Prepare Initial Loan Application	20	20-Jan-20*	14-Feb-20	[Gantt bar]																							
WL-010	Review Loan Application	35	17-Feb-20	03-Apr-20	[Gantt bar]																							
WL-015	Prepare Loan Application for Facilities	20	06-Apr-20	01-May-20	[Gantt bar]																							
<b>Risk Assessment</b>		<b>195</b>	<b>25-Feb-20</b>	<b>30-Nov-20</b>	[Summary bar]																							
RA-005	Risk Analysis of Recommend Option Meeting	40	25-Feb-20	20-Apr-20	[Gantt bar]																							
RA-010	Prepare Cost Risk Update	10	21-Apr-20	04-May-20	[Gantt bar]																							
RA-020	Prepare RA	66	26-Aug-20	30-Nov-20*	[Gantt bar]																							
RA-030	Submit Admin Final RA	0		30-Nov-20*	[Milestone diamond]																							
<b>Cost of Year Deliveries</b>		<b>51</b>	<b>02-Jan-20</b>	<b>12-Mar-20</b>	[Summary bar]																							
CYD-005	Prepare Progress Report	30	02-Jan-20	12-Feb-20	[Gantt bar]																							
CYD-010	In-progress Briefing	1	13-Feb-20	13-Feb-20	[Gantt bar]																							
CYD-015	Prepare Final Report	20	13-Feb-20	11-Mar-20	[Gantt bar]																							
CYD-020	In-progress Briefing	1	12-Mar-20	12-Mar-20	[Gantt bar]																							
<b>Strategic Planner</b>		<b>338</b>	<b>01-Sep-20</b>	<b>31-Dec-21</b>	[Summary bar]																							
STP-010	Strategic Planner	338	01-Sep-20	31-Dec-21	[Gantt bar]																							

WORKING DRAFT

█ Actual Work   
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 Summary

## Project Schedule

### Cash Flow - Reservoir Committee Amend 2 Revenue vs Expenses (x000s)



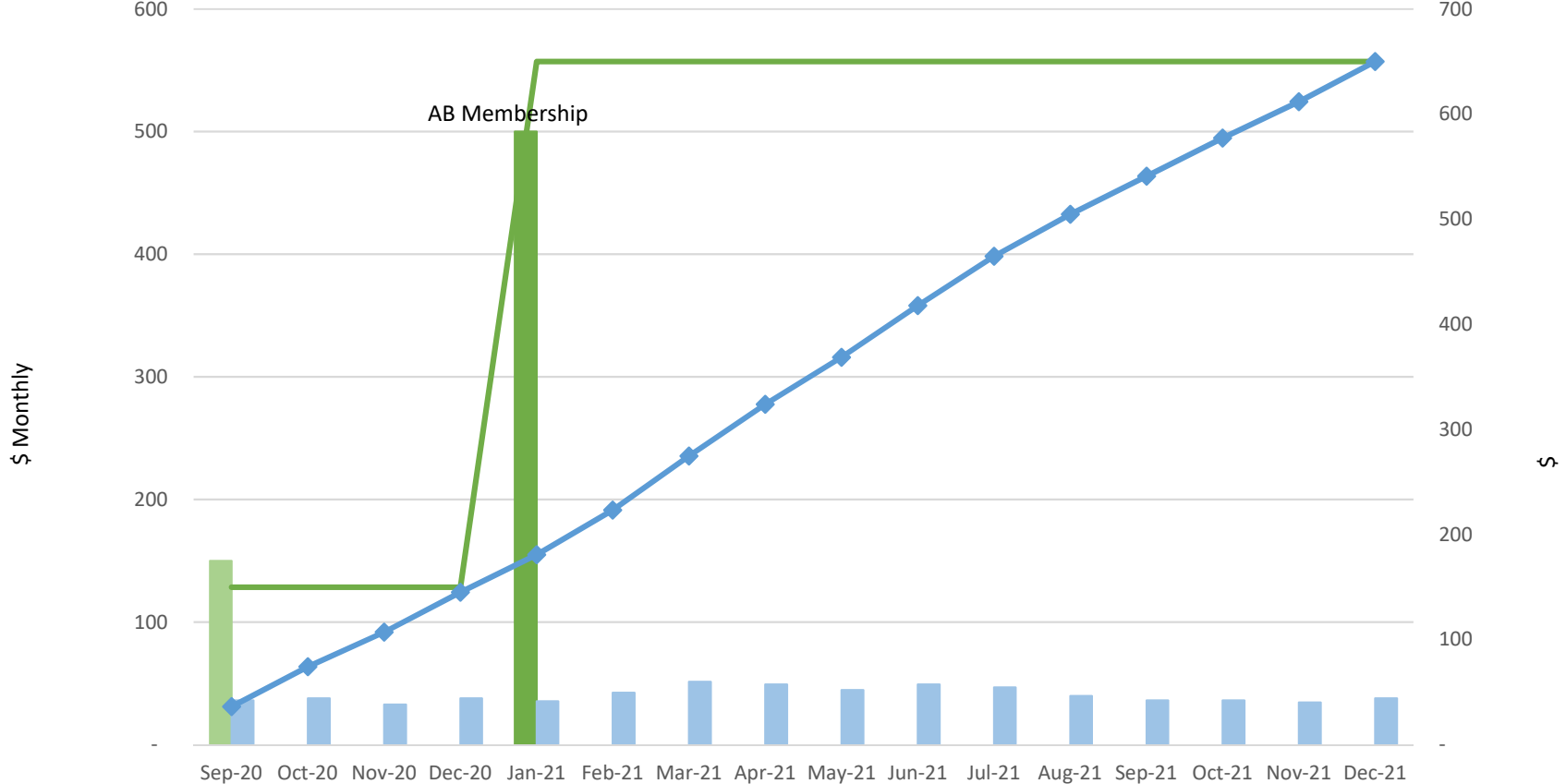
	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21
Revenue	12,120		1,834			9,514	2,000		1,834		2,000	1,834			1,834	
Expenses	2,743	2,468	1,926	2,522	1,900	2,092	2,579	2,011	2,012	1,698	1,342	1,460	1,274	1,542	3,013	2,303
Cum Revenue	12,120	12,120	13,954	13,954	13,954	23,468	25,468	25,468	27,301	27,301	29,301	31,135	31,135	31,135	32,969	32,969
Cum Expenses	2,743	5,211	7,136	9,658	11,559	13,651	16,230	18,241	20,254	21,952	23,293	24,753	26,027	27,569	30,582	32,885

■ Revenue   
 ■ Expenses   
 — Cum Revenue   
 —◆ Cum Expenses

### Cash Flow - Authority Board Amend 2

#### Revenue vs Expenses

(x000s)



	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21
Revenue	150				500											
Expenses	36	38	33	38	36	42	51	49	45	49	47	40	36	36	35	38
Cum Revenue	150	150	150	150	650	650	650	650	650	650	650	650	650	650	650	650
Cum Expenses	36	74	107	145	181	223	275	324	369	418	465	505	541	577	612	650

■ Revenue   
 ■ Expenses   
 — Cum Revenue   
 —◆— Cum Expenses

Summary Tasks    Resource Name    Funding Type

Budgeted Cost

### Key Consulant Allocation By Subject

