



Topic: **Reservoir Committee Agenda Item 2-1.b**

**2020 April 17**

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

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**Requested Action:**

Approve the work plan with a period of performance of September 1, 2020 to December 31, 2021 for the following uses:

1. Planning cash call timing for participating agencies.
2. Producing a draft Exhibit A, "Amendment 2 Work Plan", to the Second Amendment to 2019 Reservoir Project Agreement.
3. Developing consultant task orders for the next stage of project development.

**Detailed Description/Background:**

The Sites Project currently follows a work plan (Amendment 1B) that identifies project activities and funding sources through August 31, 2020. It is anticipated that the Reservoir Committee's current participation agreement will be amended to extend the period of performance to December 31, 2021 (Amendment 2); therefore, a new work plan has been developed to continue advancing the project. Input from the Reservoir Committee and Authority Board in February and March has been incorporated into this work plan.

The work plan in Attachment A has been reviewed by the Ad-Hoc Budget and Finance Committee and no changes were requested. The work plan:

- Includes funding from the Reservoir Committee totaling \$100 per acre foot (AF) and leverages state and federal funds for a total revenue of \$31.75M.
- Advances the value planning preferred project through feasibility and remains eligible for \$775M in Prop 1 construction funding.
- Improves operational and permitting certainty by advancing key agreements and permits to inform funding decisions for the next phase of work.

**Prior Action:**

March 30, 2020: At a joint workshop, staff provided information that included a process overview of task order development; an updated project schedule; cash flows for Reservoir Committee and Authority Board; and preliminary task budgets including assigned resources.

Status:	Draft	Preparer:	Watson	Phase:	2	Version:	B
Purpose:	Staff Report	QA/QC:	AEF/JAT	Date:	2020 April 17		
Caveat:	Informational	Authority Agent:	Trapasso	Ref/File #:	12.221		
Notes:				Page:	1	of	2

March 19, 2020: Staff provided information on the goals, schedule, cash flow, and preliminary budget allocation by subject assuming a cash call of \$100/AF. Staff provided a preliminary cash call schedule of \$60/AF due September 1, 2020 and \$40 due February 1, 2021.

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.

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 project operations, permitting, and affordability, and to meeting the January 1, 2022 Prop 1 (WSIP) milestone to remain eligible to receive funding.

**Fiscal Impact/Funding Source:**

To extend the period of performance to December 31, 2021 and meet the work plan goals, the Reservoir Committee cash call for Phase 2 will increase from \$60/AF (received in 2019) to \$160/AF total. The additional \$100/AF cash call will be invoiced on the following schedule:

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

**Staff Contact:**

Joe Trapasso

**Attachments:**

Attachment A: Amendment 2 Work Plan

# **DRAFT: Sites Project Authority Work Plan from September 2020 through December 2021**



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**To:** Jerry Brown  
**CC:** Joe Trapasso  
**From:** JP Robinette  
**Quality Review by:** Christina Romano  
**Authority Agent Review by:** Jim Watson  
**Subject:** Work Plan from September 1, 2020, to December 31, 2021

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## **Attachments**

**Attachment A – Amendment 2 Budget by Deliverable**

**Attachment B – Amendment 2 Preliminary Budget by Firm (Resource)**

**Attachment C – Critical Path Schedule Report**

## **1.0 Introduction**

The Sites Project currently follows a work plan (Amendment 1B) that identifies project activities and funding sources through August 31, 2020. It is anticipated that the Reservoir Committee's current participation agreement will be amended to extend the period of performance to December 31, 2021; therefore, a new work plan will be needed to continue advancing the project as a part of phase 2, planning.

This document outlines the work to be performed between September 1, 2020, and December 31, 2021, to meet project goals that were developed with input from the Authority Board and Reservoir Committee in early 2020. The plan provides the deliverables, schedule, and operational budget needed to help the Sites team improve operational and permit certainty while advancing the preferred project identified in a value planning study through the Authority's project feasibility process. It also includes Authority Board and Reservoir Committee revenues and expenses. While this work plan does complete the majority of phase 2 activities, there are activities needed beyond this work plan to fully complete the planning phase of the Sites Project. This work plan will be superseded by a new participation agreement and work plan, including a project plan of finance, in January of 2022.

After the Authority Board and Reservoir Committee approve this plan, a summary will be included as an exhibit to the amended participation agreement (Amendment 2). The work plan will then be used as a basis for developing consultant task order scopes, schedules, and commitments. The development and negotiation of task orders is beyond the scope of this work plan document.

## **2.0 Work Plan Goals and Schedule Targets**

Project goals and a project schedule, based on targets determined by the Reservoir Committee and Authority Board, have been established to form the basis of the work plan by providing high level outcomes and required

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Status: Draft  
Filename: Work Plan September 1, 2020 through December 31, 2021  
Notes:

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Phase: 2 Revision: B  
Date: April 13, 2020  
Page: 1 of 11

timing. The goals and schedule are used to determine deliverables, required revenue and expenses, and a cash flow for the duration of the work plan.

## **2.1 Work Plan Goals**

The project goals are based on near-term priorities as directed by the Reservoir Committee and the Authority Board and form the basis of the work plan. The project goals of this work plan are to:

1. Improve certainty related to the reservoir's operations (fills; releases; levels of local, state, and federal investment; etc.) and degree of operational integration with the State Water Project and Central Valley Project (cooperative operations agreement) to produce benefits for both water supply and reliability purposes and water dedicated to environmental purposes.
2. Improve certainty related to the project's permitability through earlier and more focused consultations with permitting agencies that will allow the team to efficiently and effectively prepare applications for key federal and state permits and the state's water rights.
3. Largely complete the environmental analysis and documentation as required under CEQA and NEPA.
4. Improve certainty surrounding the project's affordability by advancing engineering and implementing risk management to improve the accuracy of the cost estimates, and by pursuing low-interest financing and potential grants.
5. Continue to cultivate and strengthen partnerships with local landowners, communities, and key stakeholders that represent environmental, business, labor, and other interests.
6. Meet the January 1, 2022, Prop 1 (WSIP) milestone to remain eligible to receive the \$775M in construction funding.
7. Identify continued participation Go/No-Go decision points with staggered cash calls.
8. Develop a plan of finance and a successor participation agreement, including a work plan, to advance the Sites Project beyond December 31, 2021.

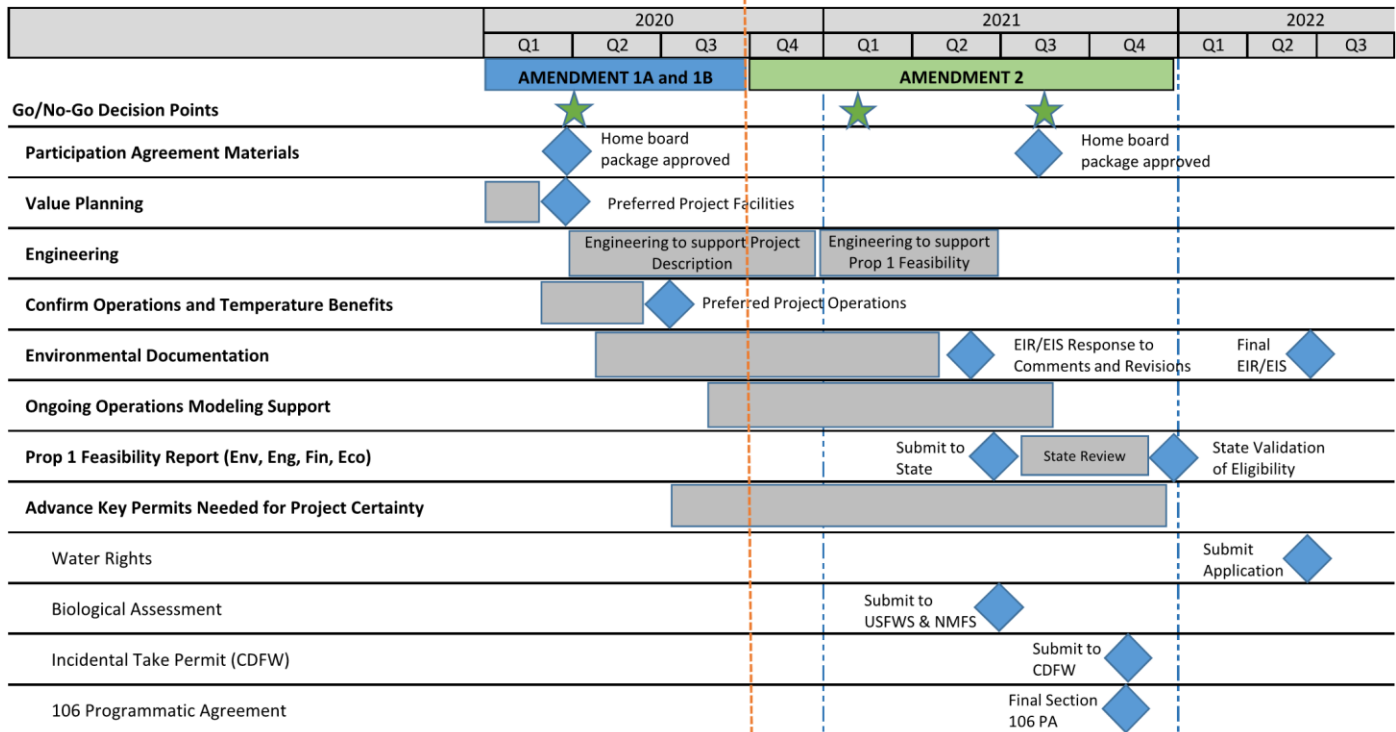
## **2.2 Project Schedule Targets**

Schedule targets were developed by Authority staff and reviewed with the Reservoir Committee and Authority Board. The project master schedule through December 31, 2021, is based on the work plan goals and the necessary steps to achieve them. Attachment C shows a critical path view of the master schedule based on the targets identified on Figure 1. The schedule is cost-loaded and provides the basis for revenue and expense budgets discussed in later sections.

**Sites Reservoir Program**  
**Updated 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.

**Figure 1. Work Plan schedule targets**

Participant funding Go / No Go decisions will be required on:

- January 2021: Decision to release second Reservoir Committee cash call invoice for payment to continue advancing the project
- August 2021: Release board package for successor agreement. Include finance plan and RFP for lending services.

### 3.0 Deliverables

To meet the goals and schedule targets and provide measurable progress, a list of key deliverables has been developed, shown in Table 1. This list is not exhaustive but provides a level that will be used to report progress through December 31, 2021. The progress as of August 1, 2021, is notable as this coincides with funding decisions that will be needed to advance the project beyond 2021.

**Table 1 – Work Plan Key deliverables**

Deliverable	Start	Finish	Anticipated Status 12/31/21	Progress Metric as 8/1/21
Draft EIR/EIS Project Description Chapter	1-Sep-20	28-Dec-20	Complete	Complete
Revised Public Draft EIR/EIS	1-Sep-20	14-Jul-21	Complete	Complete
Summary Report for CWC	28-Sep-21	3-Dec-21	CWC Determination of Environmental Feasibility	Awaiting public comments

Table 1 – Work Plan Key deliverables

Deliverable	Start	Finish	Anticipated Status 12/31/21	Progress Metric as 8/1/21
Full Operations Analysis	1-Sep-20	31-Dec-20	Complete and used to support environmental, permitting, integrated operations, and financial decisions	Complete and used to support environmental, permitting, integrated operations, and financial decisions
Term Sheets for Key Operational Agreements	1-Jan-20	31-Dec-21	Complete	Submitted for Ad-Hoc Committee Review
Operations Plan, Version 1	1-Jan-20	31-Dec-21	Complete	Submitted for Ad-Hoc Committee Review
Final Feasibility Report (without Environmental)	20-May-21	20-Aug-21	CWC Determination of Feasibility	Submitted for Ad-Hoc Committee Review
Water Right Application Advanced	1-Sep-20	31-Dec-21	Internal draft application completion within 14 days	Water Availability Analysis Complete
Biological Assessment	1-Oct-20	28-Jun-21	Complete	Reclamation submits BA to USFWS/NMFS
Section 106 Programmatic Agreement	1-Sep-20	31-Dec-21	Complete	Programmatic Agreement in final review
ITP – Section 2081 Permit	1-Sep-20	7-Dec-21	Complete	Draft ITP Application completion within 30 days
Clean Water Act 404/401 Applications	1-Sep-20	7-Dec-21	Complete	Delineation and Mitigation Plan Complete
Summary Report for Early Mitigation / Geotech Mitigation	1-Sep-20	31-Dec-21	Geotech mitigation costs (as needed) or initial payment on contract for early biological mitigation actions	Geotech mitigation costs better defined
Preliminary Hydraulics Model	20-May-21	16-Jul-21	Complete and used to integrate design	Complete and used to integrate design
WIFIA Application	5-Jan-21	29-Jun-21	Letter of Interest Submitted to EPA	Letter of Interest Submitted to EPA
Plan of Finance	1-Mar-21	2-Aug-21	Complete	Submitted for Ad-Hoc Committee Review

Table 1. Work Plan key deliverables

## 4.0 Revenue Budget

It is anticipated that \$31.75M in revenue will be generated during the work plan period, as shown in Table 2. This revenue will be generated from the following four sources:

- **Reservoir Committee cash calls:** These are individual agency cash call invoices based on member agencies' level of participation in terms of dollars per acre foot of participation. The Reservoir Committee has directed staff to develop a work plan based on \$100 per acre-foot at Phase 2 (2019) participation levels (rounded to 192,000 acre-feet).
- **Authority Board annual seat dues:** Each Authority Board member pays membership dues annually. The work period includes the dues for 2021 membership at the same level as 2020.
- **State funding:** California provides revenue in the form of reimbursements through Prop 1 (Water Storage Investment Program) early funding. This funding is subject to the terms of the existing Early Funding Agreement and is capped at \$40.8M. Generally, the state reimburses 50 percent of eligible activities. For this work plan, it is assumed that approximately 30 percent of the non-state spend is reimbursable, which is consistent with prior eligibility ranges.
- **Federal funding:** Federal participation is assumed to continue through the Water Infrastructure Improvements for the Nation (WIIN) Act. The work plan includes a portion of the federal \$6M WIIN Act

appropriation that occurred in December 2019. This funding will be in the form of reimbursements accessed through an upcoming Financial Assistance Agreement with the Bureau of Reclamation.

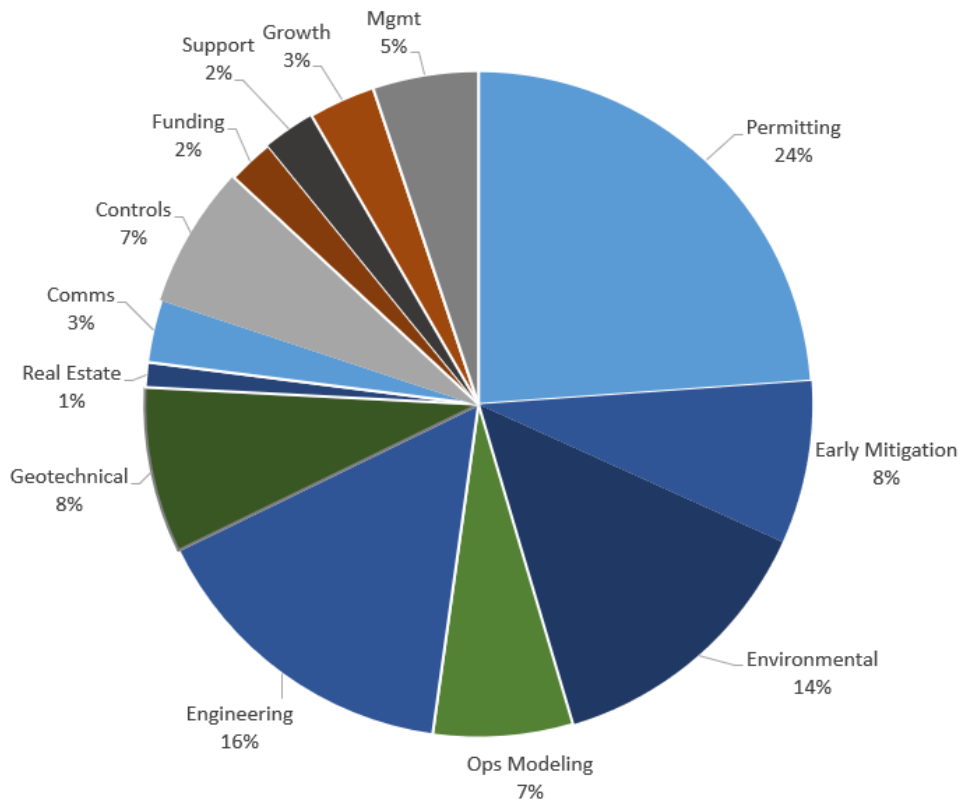
Table 2. Estimated Work Plan Revenue	
Work Plan Funding Source	Revenue
Projected total cash on hand as of 8.1.2020 (carryover funds)	\$750,000
Reservoir Committee Cash Calls (\$100/acre-foot)	\$19,200,000
Authority Board Seats*	500,000
Federal (WIIN Act) Funding	\$4,000,000
State (Prop 1)	\$7,300,000
Total Revenue Sept. 1, 2020 through Dec. 31, 2021	\$31,750,000

\* Assumes change in Reservoir Committee or Authority Board participation from 2019 levels.

## 5.0 Expense Budget

Estimated task-level costs were developed by Authority staff and loaded into the project master schedule. Preliminary costs by subject area are shown in Table 3 and on Figure 2. Detailed tables can be found in Attachment A by deliverable and Attachment B by resource. The attached tables include information on Authority Board and Reservoir Committee share of expenses.

Table 3. Budgets by Subject Area	
Subject Area	Work Plan Budget
Permitting	\$7,569,000
Early Mitigation	\$2,500,000
Environmental Planning	\$4,331,800
Operations Modeling	\$2,146,200
Engineering	\$4,940,500
Geotechnical	\$2,543,800
Real Estate	\$383,000
Communications	\$975,800
Project Controls	\$2,156,800
Funding	\$705,600
Support	\$800,400
Growth	\$1,022,400
Management	\$1,622,600
Grand Total	\$31,697,900



**Figure 2. Budget percent by subject area**

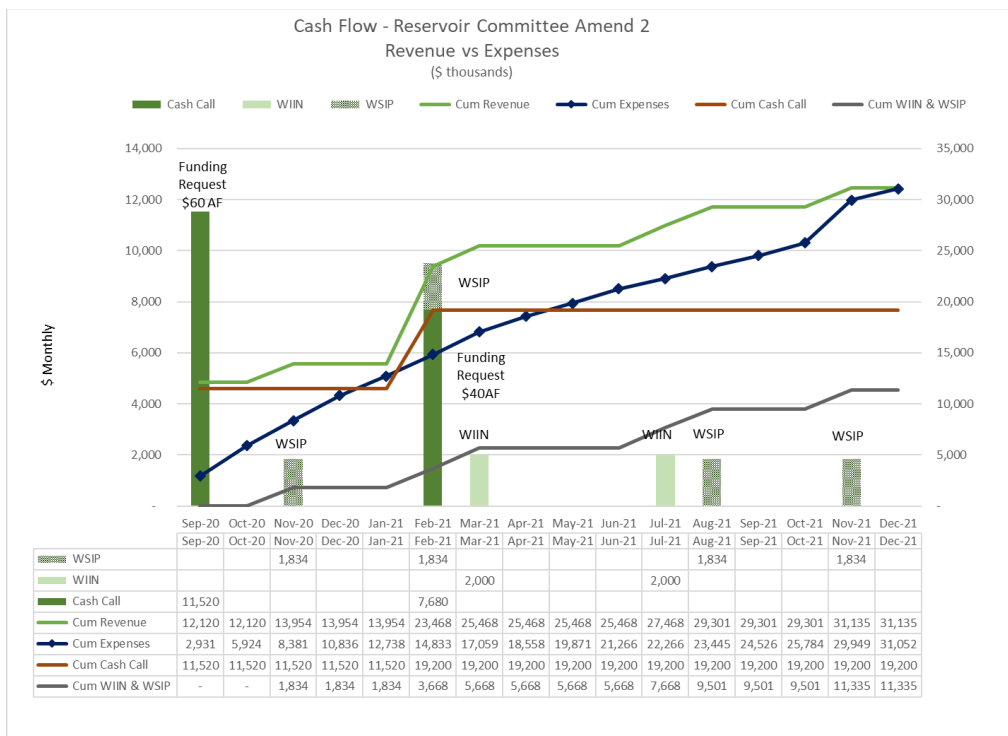
## 6.0 Work Plan Cash Flow

The master schedule was used to create a cash flow and determine the required timing of cash calls from the Reservoir Committee. A preliminary cash call schedule has been developed to maintain a cash-positive position to help avoid project delays. Cash call invoices totaling \$100/acre-foot (AF) will occur as follows:

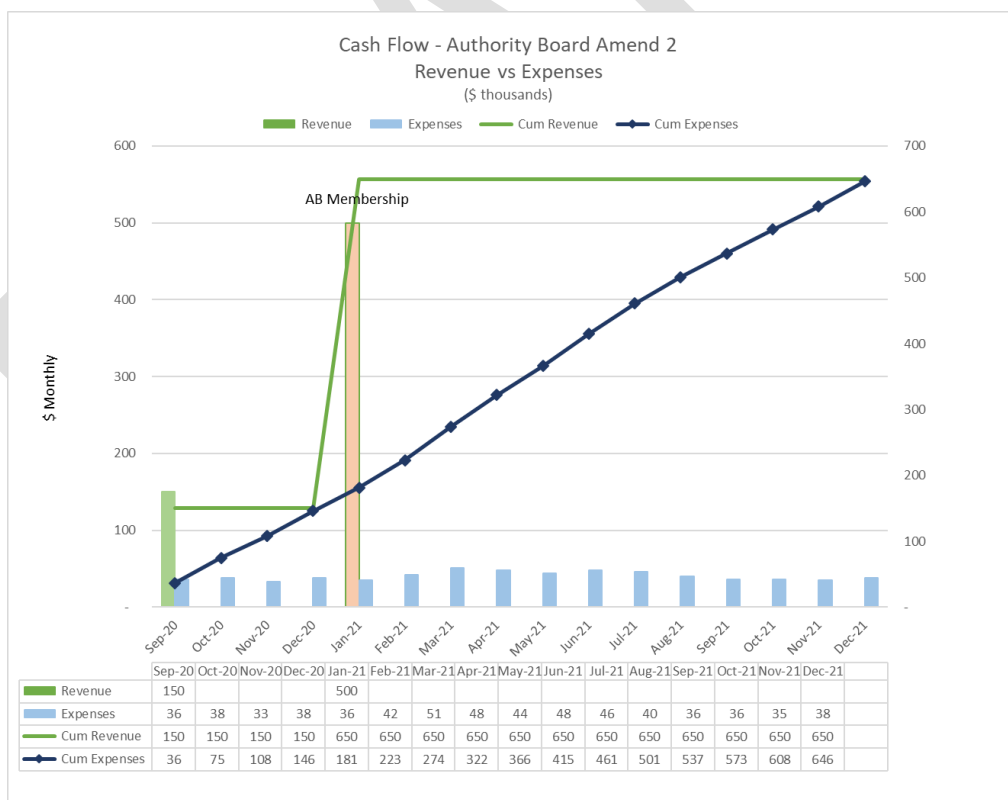
- \$60/AF, due September 1, 2020
- \$40/AF, due February 1, 2021

Cash flow graphs are included for the Reservoir Committee and Authority Board on Figure 3 and Figure 4, respectively.





**Figure 3. Amendment 2 cash flow, Reservoir Committee**



**Figure 4. Amendment 2 cash flow, Authority Board**

## 7.0 Work Plan Outcomes by Subject

The following outcomes will be used in conjunction with the deliverables list included in Attachment A as a starting point for project consultants to develop task orders within each subject area. The task orders will be based on a bottoms-up estimate and will contain budgets less than the subject area budgets defined in the work plan.

### 1. Permitting

**Authority Agent Lead:** Ali Forsythe

**Outcomes:**

- Federal Endangered Species Act (ESA) compliance document received (Biological Opinion)
- California Endangered Species Act (CESA) Incidental Take Permit applications submitted
- National Historic Preservation Act compliance: Section 106 Programmatic Agreement final submitted for signatures
- Sites water rights application advanced
- State and Federal Clean Water Act (CWA) permit application packets submitted (404 and 401)
- Mitigation costs for Prop 1 Feasibility Report completed
- Additional geotechnical data collection field monitoring completed
- Public benefit agreements (Prop 1) completed

### 2. Early Mitigation

**Authority Agent Lead:** Ali Forsythe

**Outcomes:**

- Geotech mitigation completed

### 3. Environmental Planning

**Authority Agent Lead:** Ali Forsythe

**Outcomes:**

- Description of Preferred Project and Alternatives for EIR/EIS Analysis
- AB 52 Consultation On-going
- Draft EIR/EIS Released for Public Review and Comment
- Summary Report for California Water Commission completed
- Draft Responses to Comments and Final EIR/EIS advanced
- Environmental Feasibility for Prop 1 completed
- Environmental Planning Support for Outreach and Public Meetings

### 4. Operations Modeling

**Authority Agent Lead:** Ali Forsythe

**Outcomes:**

- Development of operations criteria and operations project description
- Full operations analysis completed with updated criteria, including the following:
- Hydrology & System Operations
  - Fisheries
  - Delta Hydrodynamics

- Delta Water Quality
- Power
- Economics
- Development of Operations Plan, Version 1 completed
- Additional modeling and operations to support permit applications
- Bridging simulation(s) to support California Water Commission
- Term Sheets for Key Operational Agreements with DWR, Reclamation, TCCA, GCID, and the Colusa Basin Drain entities completed

## 5. Engineering

**Authority Agent Lead:** Lee Frederiksen

### **Outcomes:**

- Feasibility level designs completed
- CADD drawings of key facilities
- GIS drawings of facility footprints to support environmental analyses completed
- Class 4 construction estimate completed
- Construction sequencing and schedule completed
- Support geotechnical field investigation for feasibility study
- Support development of geotechnical field investigation plan for design
- Develop and implement DSOD engagement plan
- Support development design/construction/permitting plan
- Advance of hydraulic modeling
- Support environmental/permitting
- Update risk assessment

### **Engineering Support for:**

- Prop 1 Feasibility Report (technical & economic)
- Environmental analysis & documentation
- Critical permits
- Water right application

## 6. Geotechnical

**Authority Agent Lead:** Lee Frederiksen

### **Outcomes:**

- Support planning and permitting, right of access, scheduling for feasibility field investigation
- Conduct field investigation for feasibility field investigation
- Complete data evaluation and prepare geotechnical design reports for feasibility study
- Complete data gap assessment design level geotechnical field investigation plan

## 7. Real Estate

**Authority Agent Lead:** Kevin Spesert

### **Outcomes:**

- Landowner engagement and coordination
- Negotiate TROE agreements in support of field activities
- Support for public outreach & public meetings

## 8. Communications

**Authority Agent Lead:** Kevin Spesert

### **Outcomes:**

- Authority strategic communications
- Government (Federal & State) outreach, advocacy, and funding support
- Local Government/Agency coordination
- Stakeholder coordination and general public outreach

## 9. Project Controls

**Authority Agent Lead:** Joe Trapasso

### **Outcomes:**

- Financial and project cost management
- Document, data and schedule management
- Contract procurement, management and compliance
- Monthly, quarterly, and annual reporting continued
- Accounting compliance (Authority Board and Reservoir Committee)

## 10. Funding

**Authority Agent Lead:** Joe Trapasso

### **Outcome:**

- Funding agreements administered to maximize utilization of participant funding
- WIFIA letter of interest submitted

## 11. Support

**Authority Agent Lead:** Joe Trapasso

### **Outcomes:**

- Support is provided to the Authority as a business including legal, IT, office space, document management

## 12. Growth

**Authority Agent Lead:** Joe Trapasso

### **Outcomes:**

- Project plan of finance in place
- Successor agreement developed and executed for work beyond 2021, including an updated work plan
- Organizational assessment actions completed

### 13. Management

**Authority Agent Lead:** Joe Trapasso

**Outcomes:**

- Project oversight and governance
- Support to Authority Board & Reservoir Committee
- Document, data and schedule management
- Government (Federal & State) outreach, advocacy, and funding support
- Local Government/Agency coordination
- Stakeholder coordination and general public outreach

## 8.0 Activities Needed to Complete the Planning Phase

The activities in this work plan significantly complete the planning phase. The activities needed to fully complete the planning phase, Phase 2 and begin Phase 3 are:

- A Final EIR/EIS
- Accepted Water Rights
- Finalize remaining permits
  - Completing tier 1 environmental permits as listed in the Amendment 2 work plan
  - Completing tier 2 environmental permits
  - Completing tier 3 technical permits (DSOD)
- Finalize operational agreements to comply with Prop 1
  - Operations with Reclamation and DWR
  - Operations with CDFW
  - Recreation and flood with DWR
  - Funding agreement with CWC
- Repay Phase 1 contributed credit to former participants
- Acquire temporary rights of entry
- Develop policies, procedures, and implement systems necessary to complete phase 3

## Attachment A - Amendment 2 Budget by Deliverable

## ATTACHMENT A: BUDGET BY DELIVERABLE

Subject Area	Authority Board	Reservoir Committee	Total
<b>Permitting</b>		<b>\$7,569,000</b>	<b>\$7,569,000</b>
Clean Water Act 404/401 Permit Applications		\$1,417,500	\$1,417,500
Biological Assessment/Biological Opinion Support		\$1,302,000	\$1,302,000
Water Right Application		\$1,016,500	\$1,016,500
Section 106 Programmatic Agreement		\$927,500	\$927,500
ITP-Section 2081 Permit- Construction Application		\$599,500	\$599,500
ITP-Section 2081 Permit-Operations Application		\$576,000	\$576,000
Mitigation Plan		\$465,800	\$465,800
Geotechnical Field Monitoring		\$450,400	\$450,400
Section 408 Draft Packet		\$313,000	\$313,000
Adaptive Management Plan		\$299,300	\$299,300
Focused Species Surveys		\$201,500	\$201,500
<b>Early Mitigation</b>		<b>\$2,500,000</b>	<b>\$2,500,000</b>
Early Mitigation		\$2,500,000	\$2,500,000
<b>Environmental Planning</b>		<b>\$4,331,750</b>	<b>\$4,331,750</b>
Revised Admin Draft EIR/EIS		\$2,676,500	\$2,676,500
Admin Final EIR/EIS Response to Comments		\$611,250	\$611,250
Revised Public Draft EIR/EIS		\$450,250	\$450,250
Response to Comments/Summary Report for CWC		\$242,750	\$242,750
Draft EIR/EIS Project Description Chapter		\$230,500	\$230,500
Public Review Period/Public Meetings		\$120,500	\$120,500
<b>Operations Modeling</b>		<b>\$2,146,200</b>	<b>\$2,146,200</b>
Full Operations Analysis		\$1,486,400	\$1,486,400
Ops/Modeling Coordination		\$659,800	\$659,800
<b>Engineering</b>		<b>\$4,940,535</b>	<b>\$4,940,535</b>
Feasibility Design and CADD Drawings for Modified Alternative A		\$1,350,948	\$1,350,948
Project Description Key Project Features & Facilities		\$605,254	\$605,254
Cost Estimate, Feasibility, Constructability Analysis for Feasibility Report		\$525,374	\$525,374
Class 4 Cost Estimate		\$508,424	\$508,424
DSOD Engagement Plan		\$423,684	\$423,684
Draft Feasibility Report		\$387,370	\$387,370
Risk Workshop Outcomes TM		\$270,000	\$270,000
Engineering Project Coordination		\$217,896	\$217,896
Final Feasibility Report		\$181,579	\$181,579
Economics and Financial for Feasibility Report		\$179,474	\$179,474
Program Design/Construction/Permit Implementation		\$121,054	\$121,054
Preliminary Hydraulics Model		\$121,054	\$121,054
Geotechnical Permit Planning & Investigation Plan		\$48,424	\$48,424
<b>Geotech</b>		<b>\$2,543,840</b>	<b>\$2,543,840</b>
Field Data Collection Work Plan/Cost Estimate		\$1,443,840	\$1,443,840
Geotechnical Data Reports		\$650,000	\$650,000
Preliminary Planning for Design		\$300,000	\$300,000
Site Plan with Proposed Borings		\$150,000	\$150,000
<b>Real Estate</b>	<b>\$20,800</b>	<b>\$362,200</b>	<b>\$383,000</b>
Real Estate Landowner Coordination	\$20,800	\$362,200	\$383,000
<b>Communications</b>	<b>\$205,005</b>	<b>\$770,795</b>	<b>\$975,800</b>
Government Affairs WP 2021	\$153,700	\$278,150	\$431,850
Communications		\$400,000	\$400,000
Government Affairs WP 2020	\$51,305	\$92,645	\$143,950
<b>Project Controls</b>	<b>\$123,600</b>	<b>\$2,033,200</b>	<b>\$2,156,800</b>
Monthly Board/Res Comm Support	\$107,600	\$603,600	\$711,200
Accounts Payable and Receivable	\$16,000	\$479,600	\$495,600

Subject Area	Authority Board	Reservoir Committee	Total
Contract Management		\$490,000	\$490,000
Project Master Schedule		\$360,000	\$360,000
State Invoice/Progress Reports & Quarterly Reports		\$100,000	\$100,000
<b>Funding</b>		<b>\$705,600</b>	<b>\$705,600</b>
State Invoice/Progress Reports & Quarterly Reports		\$465,600	\$465,600
WIFIA Application		\$240,000	\$240,000
<b>Support</b>	<b>\$284,400</b>	<b>\$516,000</b>	<b>\$800,400</b>
Business Management Vendors	\$12,400	\$335,000	\$347,400
Legal Counsel	\$240,000		\$240,000
Business Management	\$32,000	\$64,000	\$96,000
IT and GIS Support		\$63,000	\$63,000
Document Management		\$54,000	\$54,000
<b>Growth</b>	<b>\$12,400</b>	<b>\$1,010,000</b>	<b>\$1,022,400</b>
Successor Agreement		\$480,000	\$480,000
Successor Agreement Work Plan		\$250,000	\$250,000
Plan of Finance	\$12,400	\$180,000	\$192,400
Organizational Assessment		\$100,000	\$100,000
<b>Management</b>		<b>\$1,622,600</b>	<b>\$1,622,600</b>
Project Management		\$730,600	\$730,600
Executive Director		\$672,000	\$672,000
Business Management		\$120,000	\$120,000
Strategic Planner		\$100,000	\$100,000
<b>Total</b>	<b>\$646,205</b>	<b>\$31,051,720</b>	<b>\$31,697,925</b>



## Attachment B - Amendment 2 Preliminary Budget by Resource

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## ATTACHMENT B: BUDGET BY RESOURCE

Subject Area	Authority Board	Reservoir Committee	Total
<b>01-HDR</b>		<b>\$4,413,575</b>	<b>\$4,413,575</b>
<b>Engineering</b>		<b>\$910,535</b>	<b>\$910,535</b>
Feasibility Design and CADD Drawings for Modified Alternative A		\$234,948	\$234,948
Risk Workshop Outcomes TM		\$120,000	\$120,000
Project Description Key Project Features & Facilities		\$105,254	\$105,254
Cost Estimate, Feasibility, Constructability Analysis for Feasibility Report		\$91,374	\$91,374
Class 4 Cost Estimate		\$88,424	\$88,424
DSOD Engagement Plan		\$73,684	\$73,684
Draft Feasibility Report		\$67,370	\$67,370
Engineering Project Coordination		\$37,896	\$37,896
Final Feasibility Report		\$31,579	\$31,579
Program Design/Construction/Permit Implementation		\$21,054	\$21,054
Preliminary Hydraulics Model		\$21,054	\$21,054
Economics and Financial for Feasibility Report		\$9,474	\$9,474
Geotechnical Permit Planning & Investigation Plan		\$8,424	\$8,424
<b>Environmental Planning</b>		<b>\$832,000</b>	<b>\$832,000</b>
Revised Admin Draft EIR/EIS		\$520,000	\$520,000
Admin Final EIR/EIS Response to Comments		\$110,000	\$110,000
Revised Public Draft EIR/EIS		\$70,000	\$70,000
Response to Comments/Summary Report for CWC		\$52,000	\$52,000
Public Review Period/Public Meetings		\$50,000	\$50,000
Draft EIR/EIS Project Description Chapter		\$30,000	\$30,000
<b>Funding</b>		<b>\$200,000</b>	<b>\$200,000</b>
WIFIA Application		\$160,000	\$160,000
State Invoice/Progress Reports & Quarterly Reports		\$40,000	\$40,000
<b>Geotech</b>		<b>\$43,840</b>	<b>\$43,840</b>
Field Data Collection Work Plan/Cost Estimate		\$43,840	\$43,840
<b>Growth</b>		<b>\$160,000</b>	<b>\$160,000</b>
Successor Agreement Work Plan		\$70,000	\$70,000
Plan of Finance		\$60,000	\$60,000
Successor Agreement		\$30,000	\$30,000
<b>Management</b>		<b>\$327,000</b>	<b>\$327,000</b>
Project Management		\$207,000	\$207,000
Business Management		\$120,000	\$120,000
<b>Modeling</b>		<b>\$211,200</b>	<b>\$211,200</b>
Full Operations Analysis		\$158,400	\$158,400
Ops/Modeling Coordination		\$52,800	\$52,800
<b>Permitting</b>		<b>\$1,096,000</b>	<b>\$1,096,000</b>
Biological Assessment/Biological Opinion Support		\$219,200	\$219,200
Water Right Application		\$137,000	\$137,000
Section 106 Programmatic Agreement		\$137,000	\$137,000
Clean Water Act 404/401 Permit Applications		\$137,000	\$137,000
ITP-Section 2081 Permit-Operations Application		\$109,600	\$109,600
Mitigation Plan		\$87,680	\$87,680
ITP-Section 2081 Permit- Construction Application		\$82,200	\$82,200
Adaptive Management Plan		\$60,280	\$60,280
Section 408 Draft Packet		\$54,800	\$54,800
Geotechnical Field Monitoring		\$43,840	\$43,840
Focused Species Surveys		\$27,400	\$27,400
<b>Project Controls</b>		<b>\$260,000</b>	<b>\$260,000</b>
Monthly Board/Res Comm Support		\$100,000	\$100,000
Project Master Schedule		\$80,000	\$80,000
Contract Management		\$50,000	\$50,000
Accounts Payable and Receivable		\$30,000	\$30,000

Subject Area	Authority Board	Reservoir Committee	Total
<b>Real Estate</b>		<b>\$160,000</b>	<b>\$160,000</b>
Real Estate Landowner Coordination		\$160,000	\$160,000
<b>Support</b>		<b>\$213,000</b>	<b>\$213,000</b>
Business Management Vendors		\$96,000	\$96,000
IT and GIS Support		\$63,000	\$63,000
Document Management		\$54,000	\$54,000
<b>02-Brown &amp; Caldwell</b>		<b>\$2,360,000</b>	<b>\$2,360,000</b>
<b>Engineering</b>		<b>\$160,000</b>	<b>\$160,000</b>
Risk Workshop Outcomes TM		\$80,000	\$80,000
Economics and Financial for Feasibility Report		\$80,000	\$80,000
<b>Funding</b>		<b>\$480,000</b>	<b>\$480,000</b>
State Invoice/Progress Reports & Quarterly Reports		\$400,000	\$400,000
WIFIA Application		\$80,000	\$80,000
<b>Growth</b>		<b>\$380,000</b>	<b>\$380,000</b>
Successor Agreement Work Plan		\$180,000	\$180,000
Plan of Finance		\$120,000	\$120,000
Successor Agreement		\$80,000	\$80,000
<b>Project Controls</b>		<b>\$1,340,000</b>	<b>\$1,340,000</b>
Monthly Board/Res Comm Support		\$360,000	\$360,000
Accounts Payable and Receivable		\$360,000	\$360,000
Project Master Schedule		\$280,000	\$280,000
Contract Management		\$240,000	\$240,000
State Invoice/Progress Reports & Quarterly Reports		\$100,000	\$100,000
<b>03-Katz &amp; Associates</b>		<b>\$400,000</b>	<b>\$400,000</b>
<b>Communications</b>		<b>\$400,000</b>	<b>\$400,000</b>
Communications		\$400,000	\$400,000
<b>04-CH2M Hill Engineers</b>		<b>\$1,730,000</b>	<b>\$1,730,000</b>
<b>Modeling</b>		<b>\$1,730,000</b>	<b>\$1,730,000</b>
Full Operations Analysis		\$1,205,000	\$1,205,000
Ops/Modeling Coordination		\$525,000	\$525,000
<b>05-ICF Environmental</b>		<b>\$2,705,000</b>	<b>\$2,705,000</b>
<b>Environmental Planning</b>		<b>\$2,705,000</b>	<b>\$2,705,000</b>
Revised Admin Draft EIR/EIS		\$1,745,000	\$1,745,000
Admin Final EIR/EIS Response to Comments		\$400,000	\$400,000
Revised Public Draft EIR/EIS		\$280,000	\$280,000
Draft EIR/EIS Project Description Chapter		\$120,000	\$120,000
Response to Comments/Summary Report for CWC		\$110,000	\$110,000
Public Review Period/Public Meetings		\$50,000	\$50,000
<b>06-ICF Permitting</b>		<b>\$4,400,000</b>	<b>\$4,400,000</b>
<b>Permitting</b>		<b>\$4,400,000</b>	<b>\$4,400,000</b>
Biological Assessment/Biological Opinion Support		\$855,000	\$855,000
Section 106 Programmatic Agreement		\$705,000	\$705,000
Clean Water Act 404/401 Permit Applications		\$700,000	\$700,000
ITP-Section 2081 Permit-Operations Application		\$400,000	\$400,000
Geotechnical Field Monitoring		\$400,000	\$400,000
Mitigation Plan		\$365,000	\$365,000
ITP-Section 2081 Permit- Construction Application		\$325,000	\$325,000
Section 408 Draft Packet		\$250,000	\$250,000
Adaptive Management Plan		\$230,000	\$230,000
Focused Species Surveys		\$170,000	\$170,000
<b>08-AECOM</b>		<b>\$1,900,000</b>	<b>\$1,900,000</b>
<b>Engineering</b>		<b>\$1,900,000</b>	<b>\$1,900,000</b>
Feasibility Design and CADD Drawings for Modified Alternative A		\$558,000	\$558,000
Project Description Key Project Features & Facilities		\$250,000	\$250,000
Cost Estimate, Feasibility, Constructability Analysis for Feasibility Report		\$217,000	\$217,000
Class 4 Cost Estimate		\$210,000	\$210,000

Subject Area	Authority Board	Reservoir Committee	Total
DSOD Engagement Plan		\$175,000	\$175,000
Draft Feasibility Report		\$160,000	\$160,000
Engineering Project Coordination		\$90,000	\$90,000
Final Feasibility Report		\$75,000	\$75,000
Preliminary Hydraulics Model		\$50,000	\$50,000
Program Design/Construction/Permit Implementation		\$50,000	\$50,000
Economics and Financial for Feasibility Report		\$45,000	\$45,000
Geotechnical Permit Planning & Investigation Plan		\$20,000	\$20,000
<b>09-Jacobs</b>		<b>\$1,900,000</b>	<b>\$1,900,000</b>
<b>Engineering</b>		<b>\$1,900,000</b>	<b>\$1,900,000</b>
Feasibility Design and CADD Drawings for Modified Alternative A		\$558,000	\$558,000
Project Description Key Project Features & Facilities		\$250,000	\$250,000
Cost Estimate, Feasibility, Constructability Analysis for Feasibility Report		\$217,000	\$217,000
Class 4 Cost Estimate		\$210,000	\$210,000
DSOD Engagement Plan		\$175,000	\$175,000
Draft Feasibility Report		\$160,000	\$160,000
Engineering Project Coordination		\$90,000	\$90,000
Final Feasibility Report		\$75,000	\$75,000
Preliminary Hydraulics Model		\$50,000	\$50,000
Program Design/Construction/Permit Implementation		\$50,000	\$50,000
Economics and Financial for Feasibility Report		\$45,000	\$45,000
Geotechnical Permit Planning & Investigation Plan		\$20,000	\$20,000
<b>10-Fugro</b>		<b>\$2,500,000</b>	<b>\$2,500,000</b>
<b>Geotech</b>		<b>\$2,500,000</b>	<b>\$2,500,000</b>
Field Data Collection Work Plan/Cost Estimate		\$1,400,000	\$1,400,000
Geotechnical Data Reports		\$650,000	\$650,000
Preliminary Planning for Design		\$300,000	\$300,000
Site Plan with Proposed Borings		\$150,000	\$150,000
<b>AA-Authority Agents</b>	<b>\$130,205</b>	<b>\$1,859,595</b>	<b>\$1,989,800</b>
<b>Communications</b>	<b>\$21,005</b>	<b>\$186,795</b>	<b>\$207,800</b>
Government Affairs WP 2021	\$15,700	\$140,150	\$155,850
Government Affairs WP 2020	\$5,305	\$46,645	\$51,950
<b>Engineering</b>		<b>\$70,000</b>	<b>\$70,000</b>
Risk Workshop Outcomes TM		\$70,000	\$70,000
<b>Environmental Planning</b>		<b>\$164,000</b>	<b>\$164,000</b>
Revised Admin Draft EIR/EIS		\$61,500	\$61,500
Admin Final EIR/EIS Response to Comments		\$30,750	\$30,750
Response to Comments/Summary Report for CWC		\$20,500	\$20,500
Draft EIR/EIS Project Description Chapter		\$20,500	\$20,500
Public Review Period/Public Meetings		\$20,500	\$20,500
Revised Public Draft EIR/EIS		\$10,250	\$10,250
<b>Funding</b>		<b>\$25,600</b>	<b>\$25,600</b>
State Invoice/Progress Reports & Quarterly Reports		\$25,600	\$25,600
<b>Growth</b>		<b>\$82,000</b>	<b>\$82,000</b>
Organizational Assessment		\$50,000	\$50,000
Successor Agreement		\$32,000	\$32,000
<b>Management</b>		<b>\$523,600</b>	<b>\$523,600</b>
Project Management		\$523,600	\$523,600
<b>Modeling</b>		<b>\$164,000</b>	<b>\$164,000</b>
Ops/Modeling Coordination		\$82,000	\$82,000
Full Operations Analysis		\$82,000	\$82,000
<b>Permitting</b>		<b>\$164,000</b>	<b>\$164,000</b>
Biological Assessment/Biological Opinion Support		\$32,800	\$32,800
Water Right Application		\$20,500	\$20,500
Section 106 Programmatic Agreement		\$20,500	\$20,500
Clean Water Act 404/401 Permit Applications		\$20,500	\$20,500

Subject Area	Authority Board	Reservoir Committee	Total
ITP-Section 2081 Permit-Operations Application		\$16,400	\$16,400
Mitigation Plan		\$13,120	\$13,120
ITP-Section 2081 Permit- Construction Application		\$12,300	\$12,300
Adaptive Management Plan		\$9,020	\$9,020
Section 408 Draft Packet		\$8,200	\$8,200
Geotechnical Field Monitoring		\$6,560	\$6,560
Focused Species Surveys		\$4,100	\$4,100
<b>Project Controls</b>	<b>\$88,400</b>	<b>\$292,400</b>	<b>\$380,800</b>
Contract Management		\$200,000	\$200,000
Monthly Board/Res Comm Support	\$88,400	\$66,800	\$155,200
Accounts Payable and Receivable		\$25,600	\$25,600
<b>Real Estate</b>	<b>\$20,800</b>	<b>\$187,200</b>	<b>\$208,000</b>
Real Estate Landowner Coordination	\$20,800	\$187,200	\$208,000
<b>AE-Authority Ex Director</b>		<b>\$710,000</b>	<b>\$710,000</b>
<b>Growth</b>		<b>\$38,000</b>	<b>\$38,000</b>
Successor Agreement		\$38,000	\$38,000
<b>Management</b>		<b>\$672,000</b>	<b>\$672,000</b>
Executive Director		\$672,000	\$672,000
<b>OP-Auditor</b>	<b>\$12,400</b>		<b>\$12,400</b>
<b>Growth</b>	<b>\$12,400</b>		<b>\$12,400</b>
Plan of Finance	\$12,400		\$12,400
<b>OP-Board Clerk</b>	<b>\$19,200</b>	<b>\$76,800</b>	<b>\$96,000</b>
<b>Project Controls</b>	<b>\$19,200</b>	<b>\$76,800</b>	<b>\$96,000</b>
Monthly Board/Res Comm Support	\$19,200	\$76,800	\$96,000
<b>OP-Doug Brown</b>		<b>\$50,000</b>	<b>\$50,000</b>
<b>Growth</b>		<b>\$50,000</b>	<b>\$50,000</b>
Successor Agreement		\$50,000	\$50,000
<b>OP-Ferguson Group</b>	<b>\$120,000</b>	<b>\$120,000</b>	<b>\$240,000</b>
<b>Communications</b>	<b>\$120,000</b>	<b>\$120,000</b>	<b>\$240,000</b>
Government Affairs WP 2021	\$90,000	\$90,000	\$180,000
Government Affairs WP 2020	\$30,000	\$30,000	\$60,000
<b>OP-Gary Darling</b>		<b>\$50,000</b>	<b>\$50,000</b>
<b>Growth</b>		<b>\$50,000</b>	<b>\$50,000</b>
Organizational Assessment		\$50,000	\$50,000
<b>OP-Jerry Johns</b>		<b>\$14,000</b>	<b>\$14,000</b>
<b>Permitting</b>		<b>\$14,000</b>	<b>\$14,000</b>
Water Right Application		\$14,000	\$14,000
<b>OP-K-Coe Isom LLP</b>	<b>\$16,000</b>	<b>\$64,000</b>	<b>\$80,000</b>
<b>Project Controls</b>	<b>\$16,000</b>	<b>\$64,000</b>	<b>\$80,000</b>
Accounts Payable and Receivable	\$16,000	\$64,000	\$80,000
<b>OP-Keith Dunn</b>	<b>\$64,000</b>	<b>\$64,000</b>	<b>\$128,000</b>
<b>Communications</b>	<b>\$64,000</b>	<b>\$64,000</b>	<b>\$128,000</b>
Government Affairs WP 2021	\$48,000	\$48,000	\$96,000
Government Affairs WP 2020	\$16,000	\$16,000	\$32,000
<b>OP-MBK Engineers</b>		<b>\$650,000</b>	<b>\$650,000</b>
<b>Permitting</b>		<b>\$650,000</b>	<b>\$650,000</b>
Water Right Application		\$650,000	\$650,000
<b>OP-MDA</b>		<b>\$250,000</b>	<b>\$250,000</b>
<b>Growth</b>		<b>\$250,000</b>	<b>\$250,000</b>
Successor Agreement		\$250,000	\$250,000
<b>OP-Perkins Coie</b>		<b>\$1,250,000</b>	<b>\$1,250,000</b>
<b>Environmental Planning</b>		<b>\$600,000</b>	<b>\$600,000</b>
Revised Admin Draft EIR/EIS		\$350,000	\$350,000
Revised Public Draft EIR/EIS		\$90,000	\$90,000
Draft EIR/EIS Project Description Chapter		\$60,000	\$60,000
Admin Final EIR/EIS Response to Comments		\$50,000	\$50,000

Subject Area	Authority Board	Reservoir Committee	Total
Response to Comments/Summary Report for CWC		\$50,000	\$50,000
<b>Permitting</b>		<b>\$650,000</b>	<b>\$650,000</b>
Clean Water Act 404/401 Permit Applications		\$260,000	\$260,000
Biological Assessment/Biological Opinion Support		\$195,000	\$195,000
ITP-Section 2081 Permit- Construction Application		\$130,000	\$130,000
Section 106 Programmatic Agreement		\$65,000	\$65,000
<b>OP-Strategic Planner</b>		<b>\$100,000</b>	<b>\$100,000</b>
<b>Management</b>		<b>\$100,000</b>	<b>\$100,000</b>
Strategic Planner		\$100,000	\$100,000
<b>OP-Wiseman</b>		<b>\$15,000</b>	<b>\$15,000</b>
<b>Real Estate</b>		<b>\$15,000</b>	<b>\$15,000</b>
Real Estate Landowner Coordination		\$15,000	\$15,000
<b>OP-Young Wooldridge</b>	<b>\$240,000</b>	<b>\$195,000</b>	<b>\$435,000</b>
<b>Permitting</b>		<b>\$195,000</b>	<b>\$195,000</b>
Water Right Application		\$195,000	\$195,000
<b>Support</b>	<b>\$240,000</b>		<b>\$240,000</b>
Legal Counsel	\$240,000		\$240,000
<b>VE-ACWA</b>	<b>\$10,700</b>	<b>\$14,000</b>	<b>\$24,700</b>
<b>Support</b>	<b>\$10,700</b>	<b>\$14,000</b>	<b>\$24,700</b>
Business Management Vendors	\$10,700	\$14,000	\$24,700
<b>VE-JPIA Insurance</b>	<b>\$1,700</b>		<b>\$1,700</b>
<b>Support</b>	<b>\$1,700</b>		<b>\$1,700</b>
Business Management Vendors	\$1,700		\$1,700
<b>VE-Other</b>		<b>\$296,750</b>	<b>\$296,750</b>
<b>Environmental Planning</b>		<b>\$30,750</b>	<b>\$30,750</b>
Admin Final EIR/EIS Response to Comments		\$20,500	\$20,500
Response to Comments/Summary Report for CWC		\$10,250	\$10,250
<b>Modeling</b>		<b>\$41,000</b>	<b>\$41,000</b>
Full Operations Analysis		\$41,000	\$41,000
<b>Support</b>		<b>\$225,000</b>	<b>\$225,000</b>
Business Management Vendors		\$225,000	\$225,000
<b>VE-Permit Fees</b>		<b>\$2,900,000</b>	<b>\$2,900,000</b>
<b>Early Mitigation2</b>		<b>\$2,500,000</b>	<b>\$2,500,000</b>
Early Mitigation		\$2,500,000	\$2,500,000
<b>Permitting</b>		<b>\$400,000</b>	<b>\$400,000</b>
Clean Water Act 404/401 Permit Applications		\$300,000	\$300,000
ITP-Section 2081 Permit- Construction Application		\$50,000	\$50,000
ITP-Section 2081 Permit-Operations Application		\$50,000	\$50,000
<b>VE-Rent</b>	<b>\$32,000</b>	<b>\$64,000</b>	<b>\$96,000</b>
<b>Support</b>	<b>\$32,000</b>	<b>\$64,000</b>	<b>\$96,000</b>
Business Management	\$32,000	\$64,000	\$96,000
<b>Total</b>	<b>\$646,205</b>	<b>\$31,051,720</b>	<b>\$31,697,925</b>

## Attachment C – Critical Path Schedule

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Sites Reservoir Project

Date: 13-Apr-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				
SITES PROJECT			548	02-Jan-20	25-Feb-22																												
MILESTONES			327	31-Aug-20	15-Dec-21																												
MS-001-LF	Local Funding (Go/No-go #1)		0		31-Aug-20																												
MS-002-LF	Local Funding (Go/No-go #2)		0		08-Jan-21																												
MS-003-LF	Local Funding (Go/No-go #3)		0		15-Dec-21																												
LOCAL FUNDING			509	02-Jan-20	31-Dec-21																												
Execute Participation Ageement 1B			95	23-Jan-20	04-Jun-20																												
PA-010	Amend Task Orders		26	23-Jan-20	27-Feb-20																												
PA-020	Final Participation Agreement Amendment 1B		15	18-Mar-20	08-Apr-20																												
PA-030	Engineering Task Orders (HC, HR)		30	23-Jan-20	04-Mar-20																												
PA-040	Amendment 1B Exhibit B		5	01-Apr-20	08-Apr-20																												
PA-050	Executed 1B		0		04-Jun-20																												
Execute Participation Agreement 2			114	18-Mar-20	26-Aug-20																												
PA-120	Draft Participation Agreement Amend 2 for Home Board Review		15	18-Mar-20	08-Apr-20																												
PA-130	Home Board Review - Determine Participation Level		44	17-Apr-20	18-Jun-20																												
PA-140	Rebalance Participation		8	19-Jun-20	30-Jun-20																												
PA-150	Final Participation Agreement Amend 2 with Exhibits		0		30-Jun-20																												
PA-160	Execute Amendment 2		0		26-Aug-20																												
Execute Successor Participation Areement 2			106	02-Aug-21	31-Dec-21																												
PA-210	Prepare Successor Agreement Work Plan		85	02-Aug-21*	01-Dec-21																												
PA-220	Execute Successor Agreement		22	02-Dec-21	31-Dec-21																												
Work Plan Amend 1B			40	02-Jan-20	26-Feb-20																												
WP-005	Incorporate Comments from Dec Res Comm Mtg		9	02-Jan-20*	14-Jan-20																												
WP-015	Prepare Final Work Plan		14	15-Jan-20	03-Feb-20																												
WP-020	Budget & Finance Work Group Review		5	04-Feb-20	10-Feb-20																												
WP-025	Work Plan 1B Approved		0		26-Feb-20																												
Work Plan Amend 2			153	28-Jan-20	01-Sep-20																												
Develop Schedule			29	28-Jan-20	06-Mar-20																												
WP-040	Develop Draft Schedule thru Dec 31, 2021		13	28-Jan-20	13-Feb-20																												
WP-060	Develop Final Schedule through Dec 2021		10	24-Feb-20	06-Mar-20																												
Work Plan Scope Document			50	28-Jan-20	06-Apr-20																												
WP-050	Draft Work Plan Task List		13	28-Jan-20	13-Feb-20																												
WP-070	Final Work Plan Scope Document		31	24-Feb-20	06-Apr-20																												
Work Plan Budget			50	28-Jan-20	06-Apr-20																												
WP-035	Budget Scenarios and Assumptions		2	11-Feb-20	12-Feb-20																												
WP-055	Draft Work Plan Budget		13	28-Jan-20	13-Feb-20																												
WP-090	Final Work Plan Budget		31	24-Feb-20	06-Apr-20																												
Amendment 2			103	07-Apr-20	01-Sep-20																												
WP2-095	Final Amendment 2 Work Plan		5	07-Apr-20	13-Apr-20																												
WP2-110	Develop Task Orders (Sep 2020 to Dec 2021)		51	14-Apr-20	24-Jun-20																												
WP2-120	Work Plan 2 Approved		0		24-Jun-20																												
WP2-130	Start of Amend 2		0	01-Sep-20																													
VALUE PLANNING			73	02-Jan-20	13-Apr-20																												
Value Planning Analysis			44	02-Jan-20	03-Mar-20																												
VP-001	Refine Value Planning Options		3	02-Jan-20	06-Jan-20																												
VP-002	Screen Value Planning Options		20	07-Jan-20	03-Feb-20																												

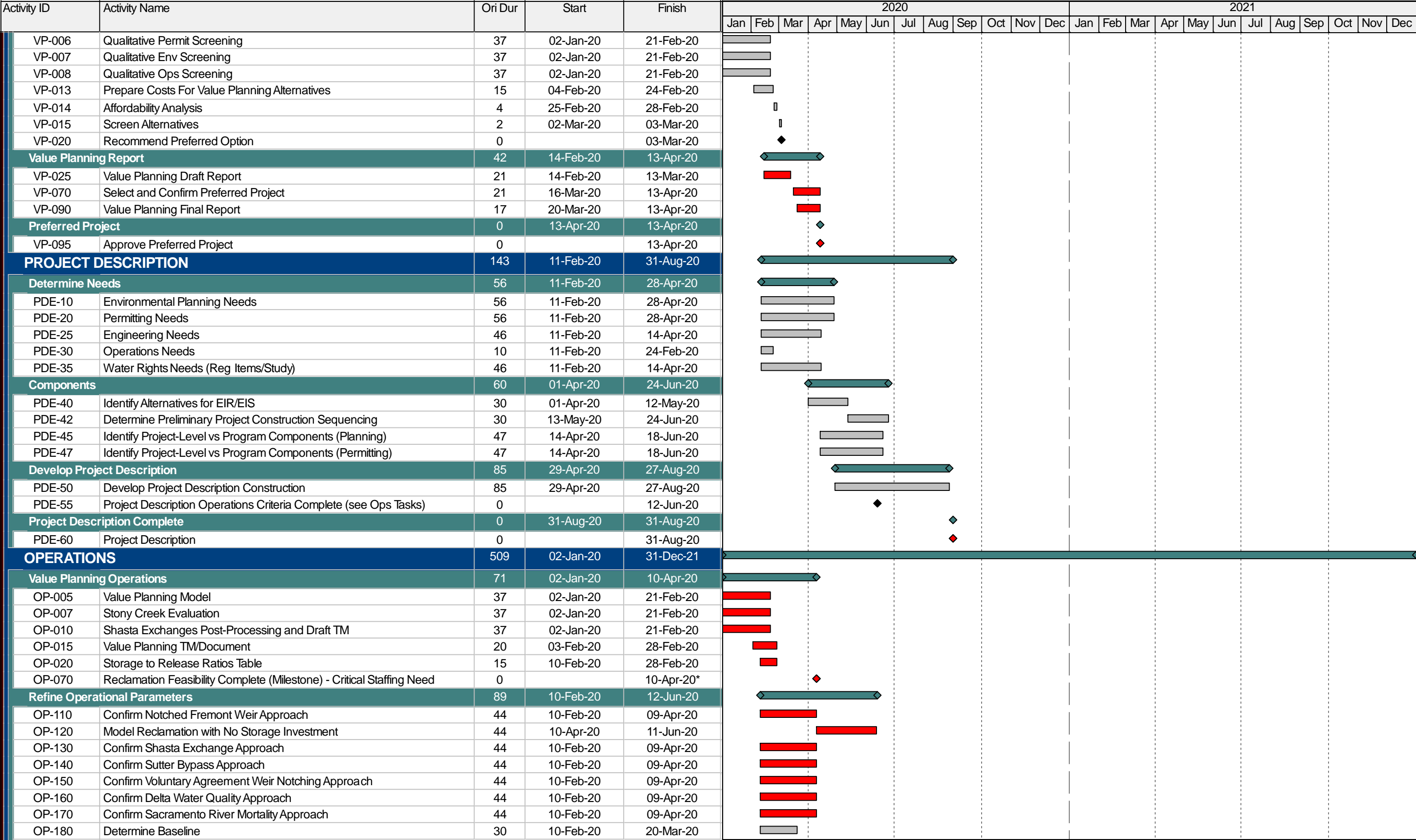
Actual Work Critical Remaining Work Critical Milestone Cal Days  
Remaining Work Milestone Summary

Project Schedule



Sites Reservoir Project

Date: 13-Apr-20

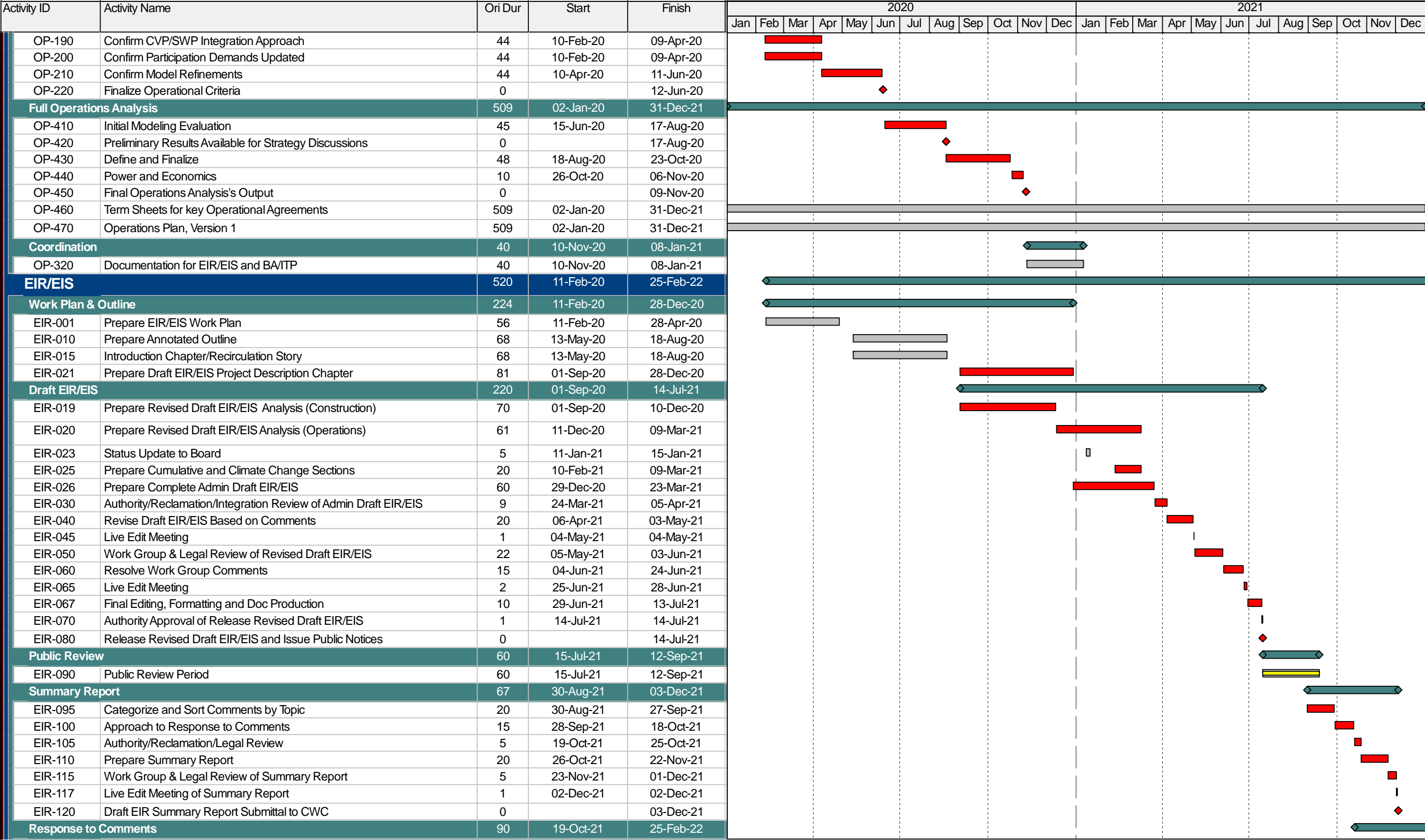


Actual Work Critical Remaining Work Critical Milestone Cal Days  
Remaining Work Milestone Summary

Project Schedule

Sites Reservoir Project

Date: 13-Apr-20

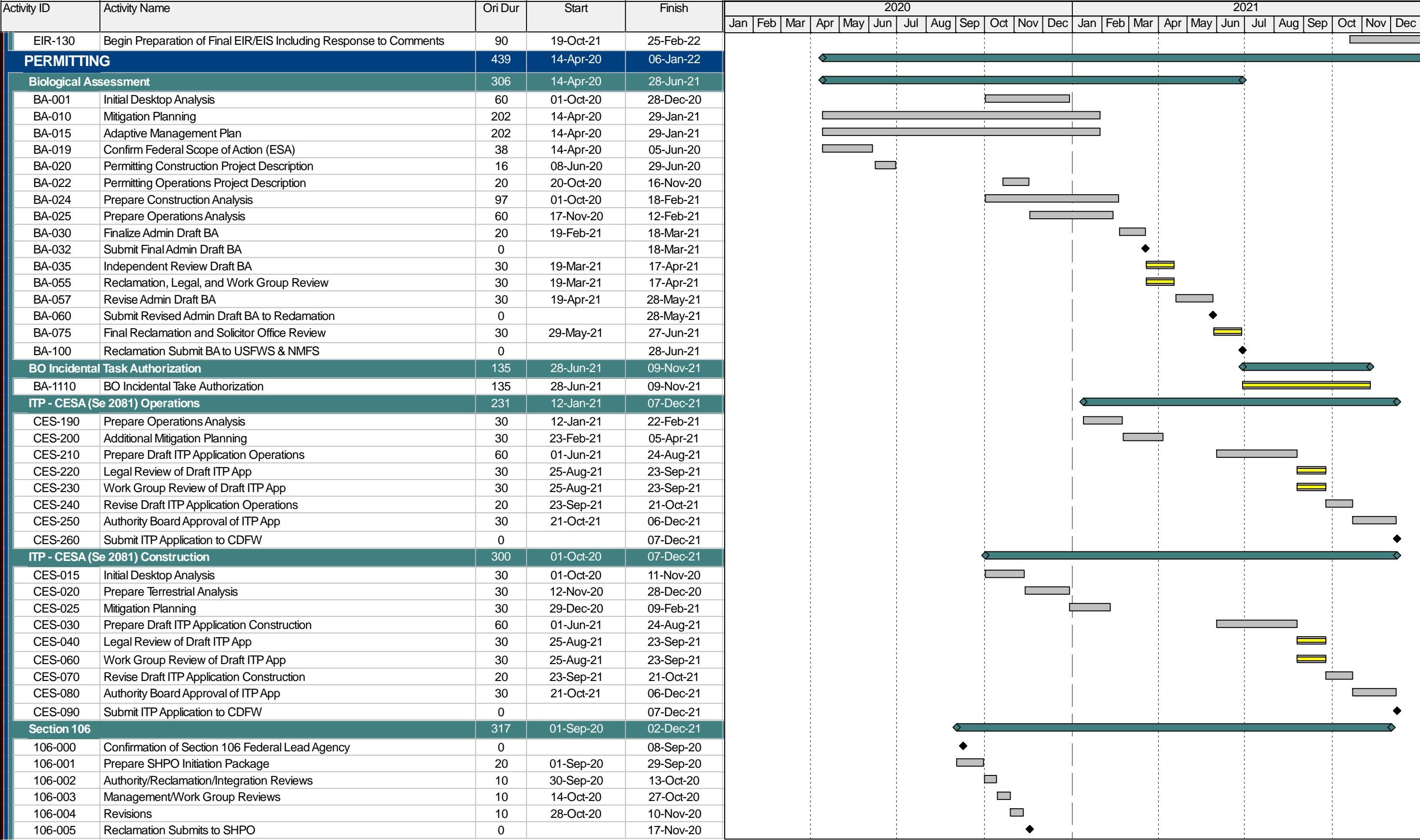


Actual Work Critical Remaining Work Critical Milestone Cal Days  
Remaining Work Milestone Summary

Project Schedule

Sites Reservoir Project

Date: 13-Apr-20

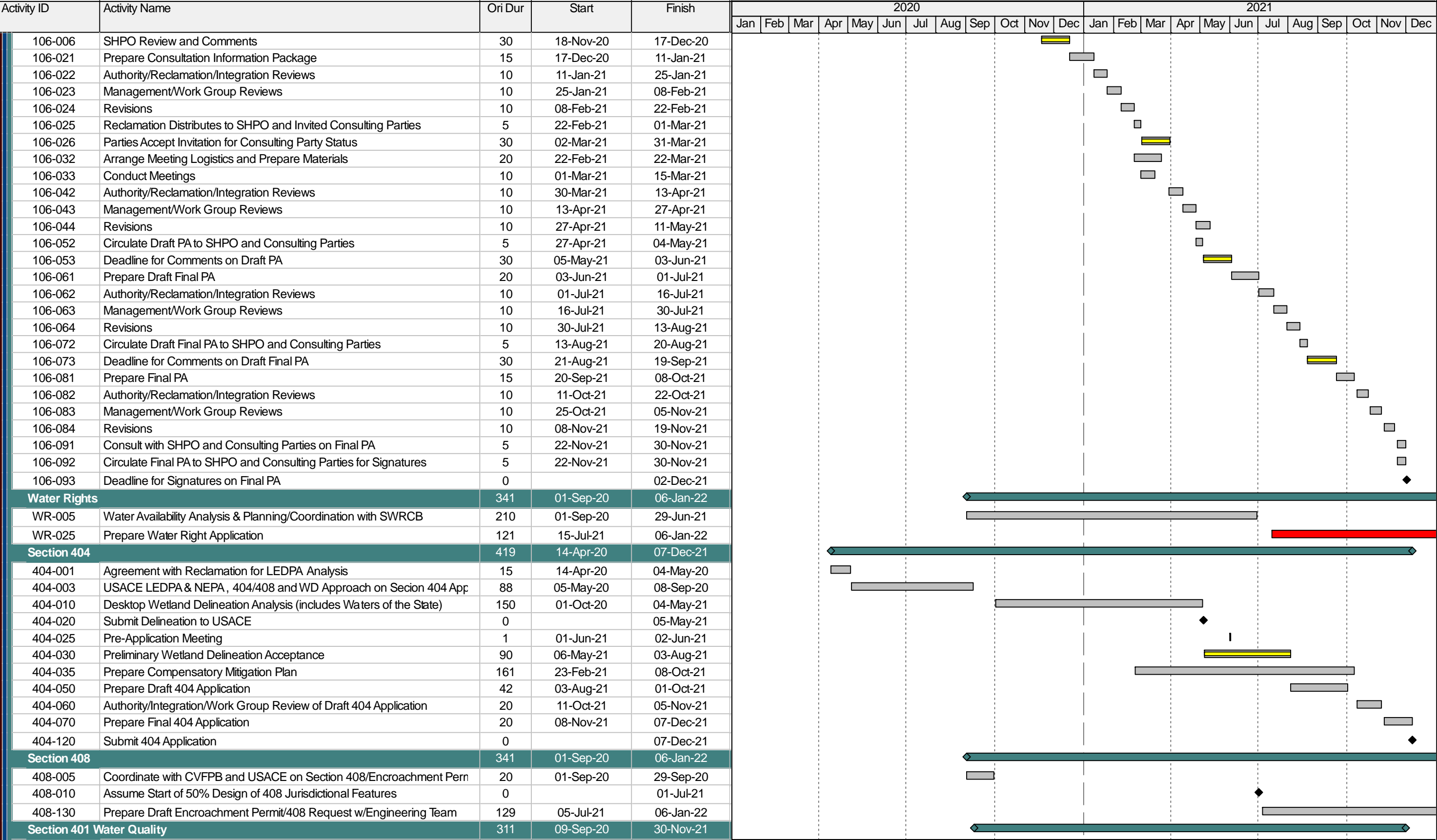


Actual Work Critical Remaining Work Critical Milestone Cal Days  
Remaining Work Milestone Summary

Project Schedule

Sites Reservoir Project

Date: 13-Apr-20



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

Project Schedule



Sites Reservoir Project

Date: 13-Apr-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
	401-120	Coordinate with RWQCB and SWRCB	84	09-Sep-20	08-Jan-21																							
	401-130	Prepare Draft 401 Application	42	03-Aug-21	01-Oct-21																							
	401-140	Authority/Integration/Work Group Review of Draft 401	20	01-Oct-21	29-Oct-21																							
	401-150	Prepare Final 401 Application	20	29-Oct-21	30-Nov-21																							
	401-160	Submit 401 Application	0		30-Nov-21																							
FEASIBILITY-LEVEL GEOTECH			449	25-Mar-20	30-Dec-21																							
GSR-000	Continuted Geotechnical Support for Reclamation	112	25-Mar-20	31-Aug-20																								
GSR-010	Geotechnical Permitting & Planning, Right of Access	61	01-Sep-20	25-Nov-20																								
GSR-020	Conduct Geotechnical Field Investigation	85	30-Nov-20	30-Mar-21																								
GSR-030	Data Evaluation and Prepare Geotechnical Data Reports	107	29-Jan-21	29-Jun-21																								
GSR-040	Data Gap Assessment and Preliminary Planning for Design Level Inv for f	149	28-May-21	30-Dec-21																								
GSR-050	Geotechnical Field Monitoring	85	30-Nov-20	30-Mar-21																								
ENGINEERING			449	24-Mar-20	30-Dec-21																							
Support of Project Description			449	24-Mar-20	30-Dec-21																							
ENG-110	Engineering Consultants Brought On Board (complete prior to Sept 1)	0		24-Mar-20																								
ENG-120	Coordination of CADD and GIS Standards	5	25-Mar-20	31-Mar-20																								
ENG-130	Coordination to Identify Alternatives for EIR/EIS & Related Studies	5	25-Mar-20	31-Mar-20																								
ENG-140	Coordination to Finalize Storage & Conveyance Capacities	5	25-Mar-20	31-Mar-20																								
ENG-145	Coordination with Reclamantion on Approach	5	25-Mar-20	31-Mar-20																								
ENG-150	Gather Data from Prior Draft EIR/EIS	10	25-Mar-20	07-Apr-20																								
ENG-160	Prepare Project Base Map	20	01-Apr-20	28-Apr-20																								
ENG-170	Prepare Basis of Feasibility Design	22	01-Apr-20	30-Apr-20																								
ENG-180	Conduct Field Reviews (as needed)	5	01-Apr-20	07-Apr-20																								
ENG-190	Prepare Preliminary Feasibility Level Design	55	01-May-20	20-Jul-20																								
ENG-193	Develop Hydaulic Model	30	01-May-20	12-Jun-20																								
ENG-195	Prepare Final Feasibility Level Design	30	21-Jul-20	31-Aug-20																								
ENG-200	Develop CADD Drawings of Key Features	85	01-May-20	31-Aug-20																								
ENG-210	Provide Information on Key Project Features & Facilities	21	01-Sep-20	30-Sep-20																								
ENG-220	Convert Drawings to GIS Geodatabase File Format to Support Environm	21	01-Sep-20	30-Sep-20																								
ENG-230	Support to Environmental and Permitting Team	316	01-Oct-20	30-Dec-21																								
ENG-233	Engineering Support for Alternative A	46	01-Sep-20	04-Nov-20																								
ENG-236	Engineering Support for Modified Alternative A	46	01-Sep-20	04-Nov-20																								
Cost Estimate, Feasibility, Constructability			295	01-Oct-20	30-Nov-21																							
ENG-240	Identify Project Objectives	11	01-Oct-20	15-Oct-20																								
ENG-250	Feasibility Project Description	0		15-Oct-20																								
ENG-260	Obtain Operations Simulation Results of Preferred Option	0		16-Nov-20																								
ENG-270	Develop Costs Associated with Mitigation Measures	15	16-Oct-20	05-Nov-20																								
ENG-280	Develop Class 4 Cost Estimate (State Feasibility)	25	17-Nov-20	23-Dec-20																								
ENG-290	Risk and Uncertainty Assessment	20	06-Nov-20	07-Dec-20																								
ENG-300	Coordinate with Operations to Confirm Project Benefits	45	17-Nov-20	22-Jan-21																								
ENG-310	Project Benefits Consist with the Ops Plan	40	08-Dec-20	03-Feb-21																								
ENG-320	Cost Allocation	20	04-Feb-21	03-Mar-21																								
ENG-330	Technical Feasibility	20	04-Feb-21	03-Mar-21																								
ENG-340	Obtain the Finding of Env Feasibility with Mitigation	5	04-May-21	10-May-21																								
ENG-370	Constructability	20	04-Mar-21	31-Mar-21																								
ENG-400	Develop DSOD Engagement Plan	96	15-Jul-21	30-Nov-21																								

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

Project Schedule

Sites Reservoir Project

Date: 13-Apr-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
ENG-404	Coordinate on a Geotechnical Investigation Plan	96	15-Jul-21	30-Nov-21																								
ENG-406	Coordinate to Develop Geotechnical Permitting Plan	96	15-Jul-21	30-Nov-21																								
ENG-410	Develop Program Design/Construction/Permit Implementation Plan	96	15-Jul-21	30-Nov-21																								
ENG-420	Advance Preliminary Hydraulics Model	40	20-May-21	16-Jul-21																								
ENG-440	Final Hydraulics Model	23	19-Jul-21	18-Aug-21																								
Economics and Financial		20	04-Mar-21	31-Mar-21																								
Feasibility Report		20	04-Mar-21	31-Mar-21																								
ENG-350	Economic Feasibility	5	04-Mar-21	10-Mar-21																								
ENG-360	Financial Feasibility	20	04-Mar-21	31-Mar-21																								
Authority Feasibility Report		70	01-Apr-21	09-Jul-21																								
Feasibility Report		70	01-Apr-21	09-Jul-21																								
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																								
PROP 1		289	23-Oct-20	15-Dec-21																								
CWC Feasibility Review		180	31-Mar-21	15-Dec-21																								
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																								
Revised Public Benefits		0	23-Oct-20	23-Oct-20																								
CWC-420	Provide CWC with Revised Public Benefits	0		23-Oct-20																								
CWC Review of Public Draft EIR/EIS		30	15-Jul-21	25-Aug-21																								
CWC-450	CWC Public Review Draft EIR/EIS	30	15-Jul-21	25-Aug-21																								
CWC Determination		0	15-Dec-21	15-Dec-21																								
CWC-500	State Determination of Feasibility	0		15-Dec-21*																								
PROJECT OPERATIONS AND FINANCES		509	02-Jan-20	31-Dec-21																								
REAL ESTATE		509	02-Jan-20	31-Dec-21																								
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																								
COMMUNICATIONS & GOVERNMENT AFFAIRS		509	02-Jan-20	31-Dec-21																								
CG-000	Communication & Government Affairs	171	02-Jan-20	31-Aug-20																								
CG-10	Communication	338	01-Sep-20	31-Dec-21																								
GS-20	Government Affairs Work Plan 2020	84	01-Sep-20	31-Dec-20																								
GS-30	Government Affairs Work Plan 2021	254	04-Jan-21	31-Dec-21																								
Organizational Assessment		255	02-Jan-20	31-Dec-20																								
ORA-000	Organizational Assessment Direction	171	02-Jan-20	31-Aug-20																								
ORA-010	Organizational Assessment	84	01-Sep-20	31-Dec-20																								
Contract Amendments		486	04-Feb-20	31-Dec-21																								
CON-010	Contract Management	338	01-Sep-20	31-Dec-21																								

Actual Work    Critical Remaining Work    Critical Milestone    Cal Days  
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Project Schedule

Sites Reservoir Project

Date: 13-Apr-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				
CON-022	Revise Service Area Task Orders for Approval	20	04-Feb-20	02-Mar-20																												
Accounts Payable & Receivable		509	02-Jan-20	31-Dec-21																												
AP-010	Accounts Payable & Accounts Receivable	171	02-Jan-20	31-Aug-20																												
AP-012	Accounts Payable & Accounts Receivable	338	01-Sep-20	31-Dec-21																												
Invoicing & Reporting		499	16-Jan-20	31-Dec-21																												
INV-00-30	CWC Invoicing Amend 1B	161	16-Jan-20	31-Aug-20																												
INV-010	CWC Invoicing Amend 2	338	01-Sep-20	31-Dec-21																												
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 Amend 2	338	01-Sep-20	31-Dec-21																												
REP-020	Annual Reporting	338	01-Sep-20	31-Dec-21																												
Project Scheduling		509	02-Jan-20	31-Dec-21																												
PS-010	Project Scheduling	171	02-Jan-20	31-Aug-20																												
PS-020	Project Scheduling	338	01-Sep-20	31-Dec-21																												
Monthly Board/Res Comm Support		509	02-Jan-20	31-Dec-21																												
MB-000	Monthly Board/Res Comm Support	171	02-Jan-20	31-Aug-20																												
MB-010	Monthly Board/Res Comm Support	338	01-Sep-20	31-Dec-21																												
Financial Assistance Agreement		79	14-Jan-20	01-May-20																												
FAA-005	Prepare Draft FA Scope and Form 424	15	14-Jan-20	03-Feb-20																												
FAA-010	Review Scope with USBR	5	04-Feb-20	10-Feb-20																												
FAA-015	Prepare Budget Estimates, Narrative and Form 424A/B, SFLLL	44	11-Feb-20	10-Apr-20																												
FAA-020	Review with USBR	5	13-Apr-20	17-Apr-20																												
FAA-025	Finalize Draft FA	10	20-Apr-20	01-May-20																												
Plan of Finance		319	30-Apr-20	02-Aug-21																												
POF-005	Plan of Finance Update 1 (Update Affordability)	0	30-Apr-20*																													
POF-010	Plan of Finance (Fin Feas)	0	01-Mar-21*																													
POF-015	Plan of Finance (WIFIA Loan)	0	01-Apr-21*																													
POF-020	WIFIA/LOI	0	30-Jun-21*																													
POF-025	Plan of Finance (Home Board Pkg)	0		02-Aug-21*																												
WIFIA Loan Application		381	02-Jan-20	29-Jun-21																												
WL-00-00	WIFIA Loan Application Prep	171	02-Jan-20	31-Aug-20																												
WL-005	Prepare Initial Loan Application	60	05-Jan-21	29-Mar-21																												
WL-010	Review Loan Application	35	30-Mar-21	17-May-21																												
WL-015	Prepare Loan Application for Facilities	30	18-May-21	29-Jun-21																												
Risk Assessment		195	25-Feb-20	30-Nov-20																												
RA-005	Risk Analysis of Recommend Option Meeting	40	25-Feb-20	20-Apr-20																												
RA-010	Prepare Cost Risk Update	10	21-Apr-20	04-May-20																												
RA-020	Prepare RA	66	26-Aug-20	30-Nov-20*																												
RA-030	Submit Admin Final RA	0		30-Nov-20*																												
General Counsel		338	01-Sep-20	31-Dec-21																												
GC-020	General Counsel	338	01-Sep-20	31-Dec-21																												
Cost of Year Deliveries		51	02-Jan-20	12-Mar-20																												
CYD-005	Prepare Progress Report	30	02-Jan-20	12-Feb-20																												
CYD-010	In-progress Briefing	1	13-Feb-20	13-Feb-20																												
CYD-015	Prepare Final Report	20	13-Feb-20	11-Mar-20																												
CYD-020	In-progress Briefing	1	12-Mar-20	12-Mar-20																												

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