

AD-HOC ENVIRONMENTAL PLANNING AND PERMITTING WORKGROUP

MARCH 2020





Agenda

- Previous Action Item Review
- Value Planning Update
- Planning and Permitting Schedule Update
 - Risks and Assumptions
- Organizational Assessment
- Upcoming Work and Priorities
- Next Meeting
- New Action Item Review

Previous Action Item Review



Action Item Review

1. Provide Integration and EPP costs for Phase 1B support. Provide information on who from HDR is supporting Integration. Provide description/definition of Integration to Work Group.
2. Provide information on Program costs and accomplishments to date.
 - Note, this will be in the upcoming Annual Report being prepared by the Controls Team and thus, will not be tracked here.
3. Provide clarity on critical path schedule items with a focus on what is needed for the January 1, 2022 requirements (graphic is desired). Develop simplified chart of schedule for April package.



Action Item Review

- Integration / Program Management
 - Ensures work being performed by consultant team meets the agreed to performance requirements
 - May represent or otherwise stand in place for an Authority Agent but without the ability to bind the Authority
 - Provides all Program / staffing support to keep the Program going
 - Analogous to Program Management function

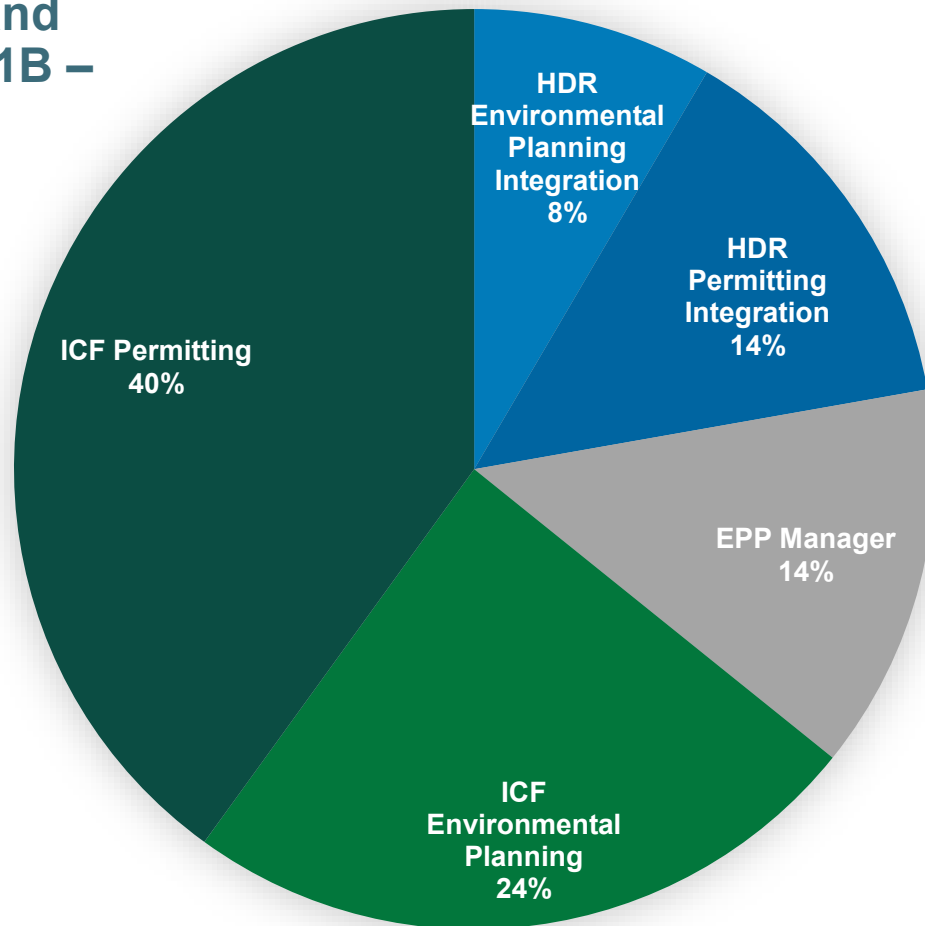
Action Item Review

- Integration budget for Amendment 1B (Jan 2020 thru Aug 2020) for Service Area E & F with staff resources identified

Task	Fee	Budgeted Staff
<i>Environmental Planning Integration</i>	\$149,357	Laurie Warner Herson Linda Fisher
<i>Permitting Integration</i>	\$243,884	John Spranza Jelica Arsenijevic Josh Peabody
<i>Total</i>	\$393,241	

Action Item Review

Budget by Consultant for Environmental Planning and Permitting – Amendment 1B – January 2020 thru August 2020



EPP + HDR = about 36% of budget

Total budget for E & F = \$1.77M

Environmental Planning and Permitting (EPP) Manager budget for Amendment 1B :

- \$30,000/month + expenses = about \$240,000 for 1/2020 to 8/2020

Value Planning Update



Value Planning Update - Process

- October 2019 - Began Value Planning Efforts
- Value Planning Work Group established:
 - Wheeler-Ridge Maricopa Water Storage District
 - RD 108
 - Carter Mutual
 - Colusa County
 - Davis Water District
 - TCCA
 - Colusa County Water District
 - GCID
 - MWD
- Met about 6 times since October 2019

Value Planning Update – Alternatives Considered During Value Planning

Features	Value Planning Alternatives															
	1	2	3	4a	4b	5a	5b	6a	6b	VP1	VP2	VP3	VP4	VP5	VP6	VP7
Cost (\$billions)	\$4.0	\$4.0	\$3.9	\$3.8	\$3.9	\$3.5	\$3.9	\$3.4	\$3.6	\$3.3	\$2.8	\$3.3	\$3.0	\$2.7	\$2.9	\$2.9
Savings from 1.8 MAF Alternative D (\$billions)	\$1.2	\$1.2	\$1.3	\$1.4	\$1.3	\$1.7	\$1.3	\$1.8	\$1.6	\$1.9	\$2.3	\$1.9	\$2.1	\$2.4	\$2.2	\$2.2
1.5 MAF Reservoir
1.3 MAF Reservoir
Funks/Sites PGP
Funks PGP
TRR and TRR PGP
TCRR with Pumping Plant and Pipeline
Delevan Canal/Pipeline Release
Delevan Pipeline
Dunnigan Pipeline to CBD Release (750 cfs)
Dunnigan Pipeline to CBD Release (1,000 cfs)
Dunnigan to River Release (750 cfs)
Dunnigan Pipeline to River Release (1,000 cfs)
Bridge (sized for 1.3 MAF)
Bridge (sized for 1.5 MAF)
South Road to Lodoga
South Road to Local Residents
Rockfill Embankment Dam
Earthfill Dam
Hardfill Dam



Value Planning Update - Enviro Appendix

- Value Planning Alternatives Appraisal Report
- Memo ID's key differences of the value planning alternatives when compared to Alternative D as described in the Draft EIR/EIS:
 - Species within the alternatives footprint that could potentially be impacted through construction and operation of the Project;
 - Key permits and approvals required to construct and operate the Project including any additional regulatory requirements beyond those identified in the Draft EIR/EIS;
 - Environmental planning considerations related to CEQA/NEPA analysis;
 - Qualitative change in mitigation cost; and
 - A relative weighting associated with environmentally related criteria (and associated metrics) compared to Alternative D in the Draft EIR/EIS.

Value Planning Update – Relative Permittability of Each Alternative Compared to Alternative D

Permits	Alternatives															
	D (EIR/EIS)	1	2	3	4a and 4b	5a	5b	6a	6b	VP1	VP2	VP3	VP4	VP5	VP6	VP7
Federal																
Clean Water Act (404)	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Section 408	1	2	2	2	2	3	2	3	2	3	3	1	1	3	1	3
Federal ESA (NMFS and USFWS)	1	2	2	2	2	3	2	3	2	3	3	2	2	3	2	3
Section 106	1	2	2	2	2	3	2	3	2	3	3	2	2	3	2	3
State																
Clean Water Act (401) and Wetland Policy	1	2	2	2	2	2	1	2	1	2	2	2	2	2	1	2
California ESA	1	2	2	2	2	3	2	3	2	3	3	2	2	3	2	3
1602 Lake and/or Streambed Alteration Agreements	1	2	2	2	2	2	1	2	1	2	2	1	2	2	1	2
Water Right(s)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
sum of points	8	15	15	15	15	19	13	19	13	19	19	15	15	19	15	19
Average	1.00	1.88	1.88	1.88	1.88	2.38	1.63	2.38	1.63	2.38	2.38	1.88	1.88	2.38	1.88	2.38

Notes:
Relative Permeability Scale: 0 = more difficult; 1 = approximately the same; 2 = slightly less difficult; 3 = moderately less difficult
higher number - relatively easier to obtain permit/approval from regulatory resource agency compared to Alternative D

No Delevan diversion, slightly smaller inundation (smaller size), narrower Delevan easement to river, river outfall

No Delevan diversion, slightly smaller inundation (smaller size), no easement to river, shorter conveyance off TCC, northern regulating reservoir facilities (6a)

No Delevan diversion, slightly smaller inundation (smaller size), no Delevan easement to river, easement to river off TCC and river outfall, northern regulating reservoir facilities (6b)

No Delevan diversion, slightly smaller inundation (smaller size), no Delevan easement to river, easement to river off TCC and river outfall, northern regulating reservoir facilities removed

No Delevan diversion, slightly smaller inundation (smaller size), Delevan canal/pipeline easement to river, easement to river off TCC and river outfall, northern regulating reservoir facilities removed

Value Planning Update – CEQA/NEPA Considerations

Alternative	CEQA/NEPA Key Considerations
VP5 Alternate 1	<p>Reduction in reservoir size may reduce effects on cultural, biological, and land use (agriculture) resources, but not to less-than-significant levels.</p> <p>Elimination of the Delevan pipeline or canal would potentially reduce land use (agricultural) effects, but effects would likely still be considered significant and unavoidable for the overall Project.</p> <p>Earthfill dam rather than rockfill dam would need to be analyzed for potential changes in environmental effects.</p> <p>Release from the southern terminus of the T-C Canal to the CBD would require additional study.</p>
VP6 Alternate 1A	<p>Similar to Alternative VP5, reduction in reservoir size may reduce effects on cultural, biological, and land use (agriculture) resources, but not to less-than-significant levels.</p> <p>Elimination of Delevan pipeline or canal would potentially reduce agricultural effects, but effects would likely still be considered significant and unavoidable for the overall Project.</p> <p>Release from the southern terminus of the T-C Canal would require additional study; the proposed Dunnigan pipeline to Sacramento River may affect federal project levees (though likely less than Alternative D).</p> <p>Earthfill dam rather than rockfill dam would need to be analyzed for potential changes in environmental effects.</p>
VP7 Recommended	<p>Similar to VP5 and VP6, reduction in reservoir size may reduce effects on cultural, biological, and land use (agriculture) resources, but not to less-than-significant levels.</p> <p>Elimination of Delevan pipeline or canal would potentially reduce agricultural effects, but effects would likely still be considered significant and unavoidable for the overall Project.</p> <p>Earthfill dam rather than rockfill dam would need to be analyzed for potential changes in environmental effects.</p> <p>Release from the southern terminus of the T-C Canal to the CBD would require additional study.</p>

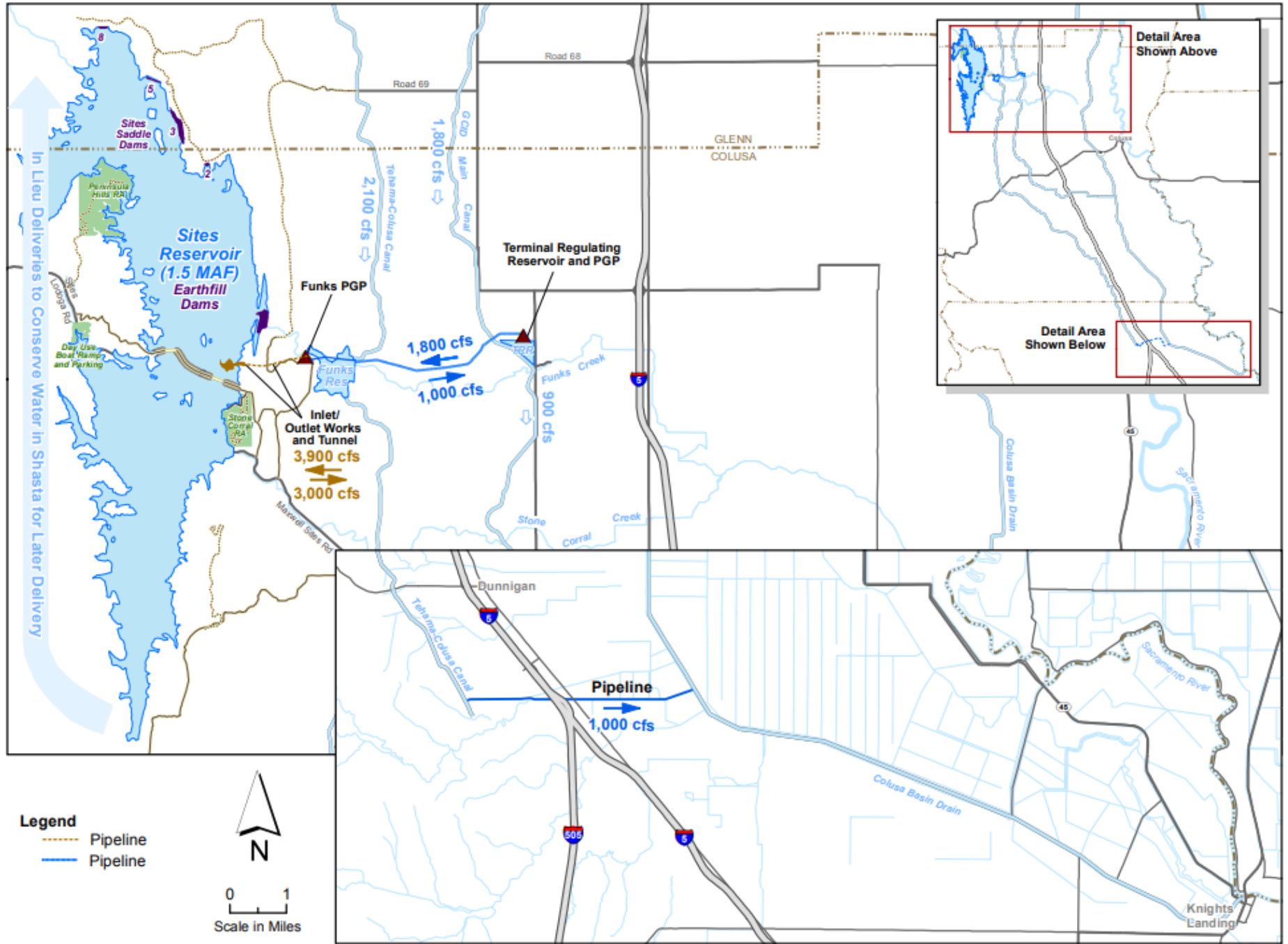
Value Planning Update – Recommended Alternative

Major Facilities	VP5 Alternate 1	VP6 Alternate 1A	VP7 Recommended
Reservoir Size	1.3 MAF	1.3 MAF	1.5 MAF
Bridge Size (avoids future traffic Interruption)	1.5 MAF	1.5 MAF	1.5 MAF
South Road to Local Residents	Included	Included	Included
Misc. Local and Project Roads	Included	Included	Included
Diversion Locations	Funks and TRR	Funks and TRR	Funks and TRR
Dunnigan Release	1,000 cfs to CBD	1,000 cfs to River	1,000 cfs to CBD

CBD = Colusa Basin Drain

MAF = Million Acre-feet

TRR = Terminal Regulating Reservoir



Planning and Permitting Schedule Updates Thru 12/2021

Planning and Permitting Schedule Updates

Sites Reservoir Project

Activity ID	Summary Tasks	Activity Name	Ori Dur	Start	Finish	Total Float	Predecessors	2020					2021					2022								
								J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J
Biological Assessment																										
BA-001	Permit	Initial Desktop Analysis	60	29-Sep-20	14-Jun-21	44																				
BA-003	Permit	Strategize with USFWS and Reclamation on Surveys, Impacts & Mitigation	171	02-Jan-20	31-Aug-20	149																				
BA-010	Permit	Mitigation Planning	202	15-Apr-20	01-Feb-21	44	VP-095																			
BA-015	Permit	Adaptive Management Plan	202	15-Apr-20	01-Feb-21	44	VP-095																			
BA-019	Permit	Confirm Federal Scope of Action (ESA)	85	15-Apr-20	13-Aug-20	48	VP-095																			
BA-020	Permit	Permitting Construction Project Description	16	14-Aug-20	04-Sep-20	48	BA-019																			
BA-022	Permit	Permitting Operations Project Description	20	13-Oct-20	09-Nov-20	40	OP-290, OP-300																			
BA-024	Permit	Prepare Construction Analysis	97	14-Sep-20	01-Feb-21	44	VP-070, BA-001, BA-019, PDE-50, BA-019																			
BA-025	Permit	Prepare Operations Analysis	60	10-Nov-20	05-Feb-21	40	VP-095, BA-022, BA-010, OP-290, OP-300																			
BA-030	Permit	Finalize Admin Draft BA	20	08-Feb-21	05-Mar-21	40	BA-010, BA-015, BA-024, BA-003, BA-030																			
BA-032	Permit	Submit Finalize Admin Draft BA	0		05-Mar-21	40	BA-030																			
BA-035	Permit	Independent Review Draft BA (Cal Days)	30	06-Mar-21	04-Apr-21	58	BA-030, BA-032																			
BA-055	Permit	Reclamation, Legal, and Work Group Review (Cal Days)	30	06-Mar-21	04-Apr-21	58	BA-035																			
BA-057	Permit	Revise Admin Draft BA	30	05-Apr-21	14-May-21	41	BA-055, BA-035																			
BA-060	Permit	Submit Revised Admin Draft BA	0		14-May-21	41	BA-057																			
BA-075	Permit	Final BOR and Solicitor Office Review (Cal Days)	30	15-May-21	13-Jun-21	61	BA-055, BA-057, BA-060																			
BA-100	Permit	BOR Submit BA to USFWS & NMFS	0		14-Jun-21	44	BA-075																			
BO Incidental Take Authorization																										
BA-1110	Permit	BO Incidental Take Authorization (Cal Days)	135	14-Jun-21	26-Oct-21*	63	BA-075, BA-100																			
ITP- CESA (Sec 2081) Operations																										
CES-180	Permit	Operations Project Description	30	29-Sep-20	09-Nov-20	401	OP-230, OP-290, OP-300																			
CES-190	Permit	Prepare Operations Analysis	30	05-Jan-21	15-Feb-21	365	BA-025, CES-180																			
CES-200	Permit	Mitigation Planning	30	16-Feb-21	29-Mar-21	365	CES-190																			
CES-210	Permit	Prepare Draft ITP Application	60	17-May-21	10-Aug-21	371	VP-095, BA-057																			
CES-220	Permit	Legal Review of Draft ITP App (Cal Days)	30	11-Aug-21	09-Sep-21	535	CES-210																			
CES-230	Permit	Work Group Review of Draft ITP App (Cal Days)	30	11-Aug-21	09-Sep-21	535	CES-210																			
CES-240	Permit	Revise Draft ITP Application	20	09-Sep-21	07-Oct-21	370	CES-230, CES-220																			
CES-250	Permit	Authority Board Approval of ITP App	30	07-Oct-21	18-Nov-21	370	CES-240																			
CES-260	Permit	Submit ITP Application to CDFW	0		19-Nov-21	370	CES-250																			
ITP- CESA (Sec 2081) Construction																										
CES-015	Permit	Initial Desktop Analysis	30	29-Sep-20	09-Nov-20	572	ENG-220, VP-095																			
CES-020	Permit	Prepare Terrestrial Analysis	30	10-Nov-20	23-Dec-20	572	CES-015																			
CES-025	Permit	Mitigation Planning	30	24-Dec-20	05-Feb-21	572	CES-020																			
CES-030	Permit	Prepare Draft ITP Application	60	17-May-21	10-Aug-21	371	VP-095, BA-057																			
CES-040	Permit	Legal Review of Draft ITP App (Cal Days)	30	11-Aug-21	09-Sep-21	535	CES-030																			
CES-060	Permit	Work Group Review of Draft ITP App (Cal Days)	30	11-Aug-21	09-Sep-21	535	CES-030																			
CES-070	Permit	Revise Draft ITP Application	20	09-Sep-21	07-Oct-21	370	CES-060, CES-040																			
CES-080	Permit	Authority Board Approval of ITP App	30	07-Oct-21	18-Nov-21	370	CES-070																			
CES-090	Permit	Submit ITP Application to CDFW	0		19-Nov-21	370	CES-080																			
Section 106																										
			318	28-Aug-20	30-Nov-21	365																				

█ Level of Effort
 █ Critical Remaining Work
 ◆ Critical Milestone
 █ Work...
█ Actual Work
 █ Remaining WBS Summary
 ▬ Summary
 Remaining Work
 ◆ Milestone
 Cal Days

Project Schedule

Date Printed: 17-Feb-20

Page 4 of 7



Schedule Risks and Assumptions – All Service Areas

In development of the project schedule we have identified some risks and methods to mitigate those risks:

- Funding limitations – for all three service areas there is some risk that estimated funding is not sufficient to complete work and some tasks would not be completed according to schedule
 - Monitor budget regularly with the controls team and elevate any concerns to the Work Group and others so that we can prioritize activities



Schedule Risks and Assumptions – Planning

- Revised Draft EIR/EIS - Due to Reclamation's NEPA process, the joint Draft EIR/EIS may be delayed and could risk missing Prop 1 funding deadline
 - Early and frequent coordination with Reclamation to confirm process and schedule; if necessary, separate EIR from EIS
- EIR Feasibility Summary Report for CWC – If the number and substantive content of comments on the Revised Draft EIR are greater than anticipated the report could be delayed and may risk the determination of environmental feasibility
 - Work with CWC to determine their needs; proactive outreach to prior commenters so that comments on the previous Draft EIR/EIS are addressed to the extent possible in the Revised Draft EIR
- EIR/EIS Alternatives – An increase in the range or number of alternatives may result in additional costs and schedule delays, also a risk to Prop 1 funding
 - Development of EIR/EIS alternatives will be coordinated with Work Group, Reservoir Committee and Board as EIR/EIS approach is developed



Schedule Risks and Assumptions – Permitting

- Activities completed to date to mitigate risks:
 - Extensive agency coordination
 - ✓ Agreed on many species modeled habitats for impact analysis
 - ✓ Site tours and information sharing
 - ✓ Agency workshops
 - ✓ Building relationships with staff
 - Looking to add modeling resources
 - Additional coordination with Reclamation



Schedule Risks and Assumptions – Permitting

- ESA and 106 Compliance - Reclamation Not on Same Page
- Modeling Efforts
 - Baseline changes
 - Modeling resources become limited
 - Low projected benefits
 - Criteria acceptance delays

Organizational Assessment



Organizational Assessment Matrix

- See Organizational Assessment Matrix handout (MS Word file)
- Format
 - Helpful?
 - Suggested improvements?
- Content
 - Responses appropriate?
 - Additional actions?
 - Right prioritization levels?
 - Timing for updates on responses / actions?

We're almost to the end...





Upcoming Work and Priorities – March / April Focus

- Project Description Development
 - Project Management Plan and kick off meeting with internal team
 - Key questions / challenges and *approach* for resolution
 - Approach for addressing comments on the 2017 Draft EIR/EIS and identification of commenters that Sites may want to meet with
- Schedule
 - Refinements and summary graphic / flow chart
- Organizational Assessment
 - Near term items



Upcoming Work and Priorities – May

- Amendment 2 Task Orders (9/2020 to 12/2021) + refined costs for Planning / Permitting
- Continue Project Description Development



Schedule Next Meeting

- Before April Reservoir Committee meeting (April 17)
 - Topics –
 - Project Description – Alternatives and Baseline
 - Others??



Action Item Review

- Identify and Assign Action Items