

<b>PHYSICAL PUBLIC BENEFITS TAB</b>	
<b>ECOSYSTEM BENEFITS</b>	
	<p>A.1 Attach completed Ecosystem Priorities worksheets. Be sure to include the general information worksheet as well as worksheets for each priority being claimed for which funds are being requested. Identify at least one Program ecosystem priority for any ecosystem public benefit quantified. See section 6003(a)(1)(Q) of the regulations.</p> <p><b>See filename: Sites_A1 Ecosystem General Information under the PHYSICAL PUBLIC BENEFITS TAB.</b></p>
	<p>A.2 Attach supporting documentation requested in Ecosystem Priorities worksheets such as maps or other information not already provided elsewhere in the application.</p> <p><b>See filename: Sites_A2 Ecosystem Documentation under the PHYSICAL PUBLIC BENEFITS TAB.</b></p>
<b>WATER QUALITY BENEFITS</b>	
	<p>A.1 Attach completed Water Quality Priorities table(s). If the project is claiming water quality benefits that meet the water quality priorities, be sure to include the general application questions table as well as tables for each priority being claimed for which funds are being requested. Identify at least one Program water quality priority for any water quality public benefit quantified See section 6003(a)(1)(Q) of the regulations.</p> <p><b>See filename: Sites_A1 Ecosystem Priority under the PHYSICAL PUBLIC BENEFITS TAB.</b></p>
	<p>A.2 Attach supporting documentation requested in Water Quality Priorities tables such as maps or other information not already provided elsewhere in the application.</p> <p><b>See filename: Sites_A2_Documentation WQ Priority under the PHYSICAL PUBLIC BENEFITS TAB.</b></p>
<b>FLOOD CONTROL BENEFITS If the proposed project is not claiming flood control benefits, leave the following questions blank</b>	
	<p>Q.1 If applicable, how will the project provide flood control benefits? If some project operations will be for flood control purposes, explain. Are the flood control benefits realized locally and/or throughout the larger flood control system? (TR section 4.9.2.1) Describe any negative impacts of providing the flood control benefit. (TR section 4.9.2.4)</p> <p><b>The proposed project is located in the Colusa Basin watershed in Colusa and Glenn counties. It consists of constructing two main dams, Golden State Dam on Funks Creek and Sites Dam on Stone Corral Creek, and nine saddle dams on the northern end of the reservoir between the Funks Creek and Hunter Creek watersheds along the Glenn-Colusa county line. The existing Funks Dam is located on Funks Creek would be replaced with a new, larger Holthouse Reservoir.</b></p> <p><b>As an offstream reservoir, Sites Reservoir does not have a large, upstream watershed. Sites Reservoir can, nevertheless, be operated to provide local flood control benefits by capturing and attenuating flood flows associated with Stone Corral and Funks Creeks and the other local ephemeral watersheds. By capturing flows from extreme storm events, the project will reduce flood damages, such as the February 18, 2017 event that flooded the community of Maxwell and temporarily closed Interstate 5.</b></p>
	<p>What methods were used to calculate flood damage reduction? Identify which of the following methods was used to quantify physical flood control benefits:</p> <ol style="list-style-type: none"> <li>1. Modeling provided with feasibility study</li> <li>2. New modeling using historical flood events or historical hydrology</li> <li>3. New modeling using the climate change hydrology data set provided</li> </ol> <p>If 1 or 2 is used, explain how benefits might be different under the provided future climate and sea levels projections. Provide justification for any methods not identified in section 5.4.3 of the TR. See also regulations section 6004(a)(1)(F).</p> <p><b>New modeling using historical flood events or historical hydrology was used to determine physical flood damage reduction benefits. Flooding in the watershed currently occurs between October and April due to rainfall-runoff. If rainfall run-off timing and duration are affected by climate change, it is anticipated that the project will provide additional flood damage reduction benefits. Additional information is provided in Attachment A1 (Sites_A1 Flood Control under the PHYSICAL PUBLIC BENEFITS TAB).</b></p>
	<p>A.1 Attach any relevant flood damage reduction supporting documentation, such as hydraulic and hydrologic modeling studies, and property flood damage analysis (TR section 4.9.4). If information to support this question is located in another attachment, provide the location.</p> <p><b>See filename: Sites_A1 Flood Control under the PHYSICAL PUBLIC BENEFITS TAB.</b></p>

STATUS: FINAL

PREPARER: J HERRIN

PHASE: 1 VERSION: A

PURPOSE: PHYSICAL PUBLIC BENEFITS

CHECKER:

DATE: 2017 AUGUST

CAVEAT:

QA/QC:

REF/FILE #: WSIP APPLICATION

NOTES:

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## PHYSICAL PUBLIC BENEFITS TAB

**EMERGENCY RESPONSE BENEFITS** If the proposed project is not claiming emergency response benefits, leave the following questions blank.

	<p>Q.1 If applicable, how will the project be operated to provide emergency response benefits? Identify the types of emergency benefits the proposed project could provide. (TR section 4.11.1). If additional information to support this question is located in another attachment, provide the location.</p> <p><b>The Authority is committed to working with the state and federal water managers and emergency personnel to provide water to support emergency events such as, but not limited to, firefighting, drought relief, and Delta levee failures. Instead of dedicating a volume of water that may not be called upon by the state until at least a one-in-ten year event (or longer) occurs, the Authority proposes that should water from Sites Reservoir be used to aid in responding to or recovery from an emergency, that repayment would occur through a mutually-acceptable exchange or transfer of water. As such, this benefit was not monetized and the Authority is not requesting Proposition 1 funding for this purpose.</b></p> <p><b>Should the Water Commission be interested in acquiring water to reserve storage for a qualifying Proposition-1 emergency event, the Sites Project Authority will work with the Water Commission to evaluate the concept and, if appropriate, prepare an amendment to this application for the Water Commission's consideration.</b></p>
	<p>A.1 Attach a description of the amount or share of stored water to be provided for the emergency benefits and define the conditions under which water would be made available. Describe how the applicant can commit to the conditions under which the emergency benefits would be made available. (TR section 4.11.2)</p> <p style="background-color: #90EE90; display: inline-block; padding: 2px;"><b>Not Applicable</b></p>

**RECREATION BENEFITS** If the proposed project is not claiming recreation benefits, leave the following questions blank.

	<p>Q.1 If applicable, how will the project be operated to provide recreation benefits? If additional information to support this question is located in another attachment, provide the location.</p> <p><b>Sites Reservoir will provide new opportunities for surface-water recreation, such as boating, fishing, and swimming. New shoreline facilities at the reservoir will be constructed to support camping, hiking, horseback riding, mountain biking, picnicking, and sightseeing. The project includes two new recreation areas, Stone Corral and Peninsula Hills. Two boat ramps would provide access to the reservoir. Day-use and overnight camping facilities would be constructed on the shore.</b></p> <p><b>Sites Reservoir operations would also support the maintenance of higher water levels at Shasta and Folsom Lakes. Beneficial effects were noted in some instances where additional storage in existing facilities resulting from the operation of Sites Reservoir would provide more frequent access to boat ramps at these facilities.</b></p> <p><b>Additional recreational benefits will be provided for fishermen in the Sacramento and American River watersheds as a result of increased populations of Chinook salmon and steelhead. Additional information is provided in Sites_A2 Recreation under the PHYSICAL PUBLIC BENEFITS TAB.</b></p>
	<p>Q.2 By providing new recreation benefits, does the proposed project negatively affect any existing recreation activities either at the proposed project site, at another facility, or nearby recreation area? (TR section 4.10.1.1)</p> <p><b>Recreational impacts are evaluated in Chapter 21 of the Draft EIR/EIS (Posted at <a href="http://sitesproject.org/information/DraftEIR-EIS">http://sitesproject.org/information/DraftEIR-EIS</a>). No potentially significant impacts were identified. There are no existing recreational activities in the project footprint. Beneficial effects were noted in some instances where additional storage at nearby recreation areas (e.g., Shasta Lake) will result from the operation of Sites Reservoir, providing more frequent access to boat ramps at these facilities.</b></p>
	<p>Q.3 Attach an assessment of the proposed recreation physical benefits. Include the size of the facility, recreation activities allowed, recreation facilities associated with these activities, and their capacities and seasonal closures and conditions in which facilities are not usable or activities cannot occur. (TR section 4.10.1.2).</p> <p><b>Sites_A2 Recreation under the PHYSICAL PUBLIC BENEFITS TAB contains a description of the proposed recreation facilities.</b></p>
	<p>A.1 Attach recreation visitation estimates including documentation of estimation methodology.</p> <p><b>See filename: Sites_A1 Recreation Visitation under the PHYSICAL PUBLIC BENEFITS TAB</b></p>
	<p>A.2 Attach or provide links to any relevant recreation studies associated with the proposed project.</p> <p><b>See filename: Sites_A2 Recreation under the PHYSICAL PUBLIC BENEFITS TAB</b></p>

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