Shasta Dam is the fourth highest dam in California\(^1\) and its 4.55 million acre-foot reservoir is the largest in the state.\(^2\) The dam captures water from three rivers (the upper Sacramento, McCloud, and Pit),\(^3\) blocking migratory fish access and affecting downstream flows in the process. Constructed and operated by the U.S. Bureau of Reclamation, the Shasta Dam and Reservoir is the cornerstone of the giant Central Valley Project (CVP), which provides irrigation and drinking water for much of California’s Central Valley and parts of, and valleys just south of, the San Francisco Bay Area.\(^4\)

**Reclamation 2015 Feasibility Report and EIS**

In the Shasta Lake Water Resources Investigation (SLWRI) 2015 final Feasibility Report and 2014 Final Environmental Impact Statement (FEIS), the Bureau of Reclamation (Reclamation, USBR, or the Bureau) identified a plan with the greatest level of National Economic Development (NED) benefits as one including an 18.5-foot raise of Shasta Dam,\(^5\) which would increase water storage capabilities behind the dam by about 13%.\(^6\) This alternative, identified as the preferred alternative,\(^7\) was advertised to improve conditions in the Sacramento River for threatened and endangered salmon and steelhead and increase the state’s overall water supply reliability.\(^8\) The Bureau released a final Feasibility Report and environmental impact statement (FEIS) which did not recommend any action (dam) alternative because of serious outstanding considerations,\(^9\) including: (1) the Bureau’s desire to have upfront funding from non-federal cost-sharing partners,\(^10\) (2) concerns by CVP contractors about CVP facilities serving non-CVP contractors,\(^11\) (3) California law prohibiting the expansion of Shasta Reservoir,\(^12\) (4) applicability of state environmental law to the project,\(^13\) and (5) process considerations. There has been no Record of Decision for the FEIS,\(^14\) although a Supplemental FEIS was prepared in 2020 (to be discussed later.)

**Costs, Benefits, and Cost-Sharers**

Cost and Benefits – In 2015, raising Shasta Dam by 18.5 feet was estimated to cost nearly $1.4 billion 2014 dollars,\(^15\) approximately equal to the unpaid reimbursable debt for the CVP.\(^16\) Reclamation’s 2019 estimate was $2 billion in 2019 dollars. Reclamation’s final feasibility report allocates nearly 50% of the dam-raise cost to providing salmon benefits,\(^17\) which means that nearly 50% of the dam-raise costs could be borne by American taxpayers and not the water contractors who directly benefit from the dam raise.\(^18\) The U.S. Fish & Wildlife Service (USFWS) strongly questioned the Bureau’s claim that raising the dam will benefit salmon.\(^19\)

Water Yield – The 18.5-foot raise will increase the reservoir’s capacity by 634,000 acre-feet.\(^20\) But the average increased deliveries provided by the enlarged reservoir by the Reclamation preferred alternative are only 51,300 acre-feet\(^21\) (or 0.7% of CVP annual deliveries or a little more than 1/10th of 1% of the state’s annual developed water use\(^22\)). To put this in perspective, California’s urban water users saved, in three months in the summer of the drought year 2015, more than 8 times the amount of the dam raise’s average annual water yield (increased deliveries).\(^23\) Of course, the Bureau admits that hydrology, climate change, water system operations, water supply reliability and water demand are all "significant uncertainties" in regard to the project’s actual yield of water.\(^24\)

Water Contracts – There are no identified specific beneficiaries of the project, but the Bureau speaks of selling the additional supply to CVP contractors and even to State Water Project contractors,\(^25\) an eye opener to CVP contractors.\(^26\) Most of the increased supply is expected to be sold to water contractors south of the Delta.\(^27\) Easing delivery constraints through the Delta by routing Sacramento River flows through proposed tunnel or tunnels...
underneath the Delta increases the utility of the dam raise. The Bureau's previous study of the Shasta Dam raise was shelved when voters rejected the proposed Peripheral Canal in 1982.

**Non-Federal Cost-Sharing Partners** – California law prohibits the dam raise by not allowing the creation of an expanded reservoir that would inundate free-flowing sections of the McCloud River, or even further inundate the McCloud arm of Shasta Reservoir upstream of the McCloud River Bridge. The Bureau's 2015 Final Feasibility Report announced that they would require cost-sharing partners, and in 2016 Congress created a special authorization process that required at least a 50% non-federal contribution from cost-sharing partners. No cost-sharing partners applied for Proposition 1 water storage funding from the California Water Commission as provisions in the bond made such grants for projects in conflict with the California and National Wild and Scenic Rivers Acts ineligible. Likely potential governmental cost-sharing partners are prohibited by California state law from assisting and cooperating with federal agencies in reservoir expansion projects that could adversely affect free-flowing reaches of the McCloud River or wild trout fishery.

**Significant & Unavoidable Impacts**

The Bureau's 2014 FEIS admits to many significant and unavoidable environmental impacts that cannot be mitigated. In addition, there are serious concerns about the validity of many of the Bureau's assumptions. Significant impacts and concerns include:

**Threatened & Endangered Salmon and Steelhead** – Even though the dam raise is proposed by the Bureau to supposedly improve conditions in the Sacramento River for threatened and endangered salmon and steelhead, the U.S. Fish & Wildlife Service (USFWS) said that the claimed benefit to salmonids was not "substantial" downstream of the Red Bluff pumping plant and "only provides minimal benefit" for spring and winter-run chinook salmon upstream. However, the proposed action, "by further restricting high water flows will result in additional losses of salmonid rearing and riparian habitat and adversely affect the recruitment and natural succession of riparian habitat along the Sacramento River and bypasses." The Service "was unable to support the adoption of any of the proposed [dam-raise] alternatives." The USFWS also noted that improving the dam's existing temperature-control device, restoring downstream spawning gravel and rearing habitat, improving fish passage, increasing minimum flows, and screening water diversions all would increase salmon survival more than the dam raise.

**Native American Cultural Heritage** – The Bureau admits that the dam raise and reservoir expansion will have "disproportionally high" impacts on Native Americans, specifically the Winnemem Wintu Tribe. The Tribe lost most of their traditional homeland under the existing reservoir. Raising the dam will drown cultural and sacred sites still used by the Winnemem to this day.

**National Forest Lands & Infrastructure** – Raising Shasta Dam and enlarging its reservoir would drown more than 5,600 acres of private and public lands, most within the Whiskeytown-Shasta-Trinity National Recreation Area, which is managed by the U.S. Forest Service within the Shasta – Trinity National Forest for public recreation and conservation. The dam raise would also require the relocation of more than six miles of public roads, the relocation or modification of five bridges, dozens of recreation facilities (marinas, campgrounds, etc.), and utilities and wastewater systems.

**Wild & Scenic Rivers** – Expanding Shasta Reservoir would flood upstream rivers and streams, including the McCloud River, which is protected under the California Wild & Scenic Rivers Act. The expanded reservoir would also flood segments of the McCloud and upper Sacramento Rivers identified by the Forest Service as eligible for protection in the National Wild & Scenic Rivers System. Not only would the dam raise flood these important river segments, it would harm the river’s outstandingly remarkable scenic, recreational, wild trout, and Native American cultural values. The dam raise would also modify flows in a segment of the Sacramento River below the dam identified by the Bureau of Land Management for potential National Wild & Scenic River protection.

**Flora and Fauna** – The enlarged reservoir footprint would cause permanent loss of habitat for numerous sensitive wildlife species, including Pacific fisher, northern spotted owl, northern goshawk, Cooper's hawk, purple martin, foothill yellow-legged frog, three Shasta salamander species, and several special status bat and mollusk species. The project would also result in the flooding of several rare plant populations and their habitat (including fully or partially inundating 11 of the 24 known sites where the Shasta snow-wreath, a rare flowering shrub found
nowhere else on earth – photo front page right). Critical deer fawning areas and winter habitat will also drown beneath the expanded reservoir. Sacramento River National Wildlife Refuge – The dam raise/reservoir expansion would modify flows through the Sacramento River National Wildlife Refuge, with potentially significant impacts on the river’s riparian ecosystem and protected wildlife species that depend on that ecosystem (including the threatened yellow-billed cuckoo and bank swallow). The Bureau proposed a so-called Adaptive Management Plan to mitigate these impacts but provided no information on how the Plan would be implemented, how the needs of water contracts would be weighed against ecosystem flow needs, and what guarantees would be provided to ensure that these significant impacts are truly mitigated to less than significant levels. 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Delta – The effects of the dam raise/reservoir expansion would be felt all the way downstream to the Sacramento-San Joaquin Delta. Storing more water behind the expanded dam and reservoir would reduce fresh-water flows into the Delta during critical periods with increases in mortality for endangered Delta fish due to continued and increased reverse flows in the south Delta.

Water Infrastructure Improvements for the Nation Act of 2016

In 2016 Congress created the Water Infrastructure Improvements for the Nation Act of 2016, otherwise known as the WIIN. This legislation (S. 612) became law on December 16, 2016, and was a hybrid of a federal program for lead pollution management legislation for Flint Michigan, the 2016 Water Resources Development Act (WRDA), a slimmed-down version of the California Emergency Drought Relief Act of 2015 (S. 1894) from Senator Feinstein (D-CA), and other miscellaneous water matters. Subtitle J of Title 3 of the WIIN (especially §4007) created a new Reclamation authorization and funding program for federal and non-federal water projects — along with other matters. Most provisions of Subtitle J sunset five years from the date of enactment. ($4007 storage projects already under construction are not sunsetted. §4007 storage projects without Secretarial feasibility determinations by December 31, 2020, lose WIIN program status and eligibility.) The Shasta Dam raise has been proceeding as a WIIN project.

2018 Unlawful WIIN “Authorization” (Secretarial Determination for Commencement of Construction) and 2018 sequelae

In January 2018, the federal administration appeared to have informed the Congress that a “Secretarial Determination for Commencement of Construction” had been made to begin construction on the 18.5-foot raise under the authority of the WIIN. According to the document, a cost-sharing partner was expected by the fall of 2019 and construction would begin in late 2019 (early fiscal year 2020). The communication did not inform the Congress that the raise is illegal under state and federal law nor made with the required conditions for such a determination. This is in contrast to Reclamation’s 2014 SLWRI FEIS, which acknowledged “[t]he impact [of the dam-raise alternatives] will be significant” on the free-flowing characteristics of the McCloud River above current gross pool and be “in conflict with the PRC” (California Public Resources Code; in this case, the Wild & Scenic Rivers Act chapter).

The WIIN provides for special Secretarial authorizations for storage projects in Reclamation states. For Reclamation projects, they must have at least a 50% non-federal cost-sharing partner or partners and comply with law, including state law. Then House Majority Leader McCarthy attempted to eliminate the cost-sharing requirement and fund $20 million of pre-construction and design work for the dam raise in the federal fiscal year 2018 omnibus appropriations bill (the Consolidated Appropriations Act, 2018 (Pub.L. 115–141)). California Natural Resources Secretary Laird, citing the state’s Wild and Scenic Rivers Act, opposed the funding and asked that the project not be pursued. The cost-sharing waiver was defeated, but the design funding was approved.

Consistent with the Dept. of Interior cost-sharing policy later incorporated in the WIIN, the Westlands Board authorized entering into agreements-in-principle to cost share the dam raise with Reclamation in 2009 and 2014. These agreements were executed, although both have expired, the last one in 2017. In February 2018, the Westlands Water District, the largest irrigation district in the country, and since 2007 the owner of the Bollibokka fishing club on the lower McCloud River, again authorized their general manager to “submit a request to the Secretary of the Interior for the enlargement of Shasta Dam and Reservoir, indicating a willingness to potentially...
On March 8, 2018, the San Luis and Delta Mendota Water Agency (SLDMWA), "authorized sending a letter to the United States Department of the Interior for Potential Sharing Cost for Enlarging Shasta Dam and Reservoir." On March 22, 2018, seven environmental, sportfishing, and commercial fishing groups sent a letter to SLDMWA explaining that it and some of its members under the California water and government codes are agencies of the state and thus subject to the restrictions of the California Wild and Scenic Rivers Act that prevent assistance or cooperation with the federal government in the dam raise. In addition, local governments such as the City of Tracy that are members of the Authority must "exercise their powers granted under any other provision of law in a manner consistent with the policy and provisions of this chapter." Op eds, press accounts, and legal filings by and about the Authority and Westlands Water District say they dispute the California Natural Resources Secretary's and group's assertions that raising Shasta Dam and cooperating with Reclamation to raise the dam and thus place a reservoir on the McCloud River above the McCloud River Bridge are illegal. However, to date there is no evidence that Westlands or SLDMWA sent these letters.

In response to a member of Congress's inquiry about the California's assertion that the dam raise is illegal, the Administration replied, "...Reclamation does not interpret the California Public Resources Code to explicitly prohibit enlargement of Shasta Dam; rather, the statute speaks to impacts on the McCloud River and fisheries. Legal, factual, technical and engineering questions exist as to whether the state law applies and whether those provisions are triggered by the Shasta enlargement." This statement is of course in conflict with the SLWRI final EIS that states that the dam raise is in conflict with state law and maps the geography of the impermissible reservoir expansion.

2019–21 WIIN Reauthorization Attempts

On June 20, 2019, Senator Feinstein and others introduced the "Drought Resiliency and Water Supply Infrastructure Act" (S. 1932, DRWSIA). This legislation would have eliminated the sunset clause for the WIIN storage program, extended funding authority for the WIIN storage program for an additional five years, increased the authorized ceiling for appropriations to just over a billion dollars, provided that canals to and from storage facilities would be eligible for WIIN/DRWSIA funding, provided more guidance on how appropriations committees would hand over WIIN/DRWSIA design and construction funding decisions over to the Secretary of the Interior, and provided for Reclamation to issue loans and grants to applicants seeking to fund storage projects. The proposed legislation does not clarify that a Secretarial determination for commencement of construction or feasibility can only be for lawful projects. The WIIN anti-preemption language (existing duties to follow state law are not changed) is not materially changed by DRWSIA as introduced. The legislation did not pass in the 116th Congress but is expected to be reintroduced in the first session of the 117th Congress since the WIIN expires on December 16, 2021.

WIIN-extension legislation has been introduced in the 117th Congress by Rep. David Valadao (R-Hanford), and more introductions are expected.

Trump Administration Developments

Since at least the time of the “Secretarial Determination for Commencement of Construction,” Reclamation has called the project the Shasta Dam & Reservoir Expansion Project (SDREP). Their announced activities have been the following: engineering design for 18.5 feet dam raise; coordination with various federal, state, railroad and local agencies; consultations with tribal interests, land-owners, government and non-government agencies, preparing various required documents; identifying non-federal cost-share partner(s); public involvement and stakeholder outreach; land resource management work such as, interagency agreements and land acquisition planning; and design activities for facilities to be relocated, including: roads, railroad, bridges and marinas.

On November 29, 2018, the Center for Biological Diversity filed a complaint for injunctive and declaratory relief against the Department of the Interior and the U.S. Fish & Wildlife Service for failure to make a mandatory finding on whether three range-restricted Shasta salamander species (Hydromantes sp.) should be listed as threatened or endangered under the Endangered Species Act. The complaint says that the salamanders are present on the lands...
that would be inundated by the expanded Shasta Reservoir. The SLWRI FEIS called the impacts to the salamander(s) significant and unavoidable even with mitigation. On May 4–5, 2021, the U.S. Fish & Wildlife Service denied the request.

On November 30, 2018, the Westlands Water District, as lead agency, issued a Notice of Preparation for an environmental impact report (EIR) for what it calls the "Shasta Dam Raise Project," (SDRP). The minutes for Westlands' September 18, 2018, Board of Directors meeting indicate that Westlands considers this CEQA review "necessary to become a cost-share partner," and that it believed it should commence the California Environmental Quality Act (CEQA) EIR process "as soon as possible" in order to "adhere to the current schedule" communicated by Reclamation. The deadline for comments was on January 14, 2019. The District held an open house and scoping session and an unannounced off-the-record public comment session on December 12, 2018, in Redding California. Westlands then contemplated that a draft EIR would be released in early spring 2019 but never released the draft EIR and was enjoined from pursuing the draft EIR by a July 29, 2019, preliminary injunction until the April 2020 trial decision that was contemplated at that time. (see following “Lawsuits” section).

In addition to scoping comments by the Winnemem Wintu Tribe and environmental groups, state agencies also provided comments to Westlands. For example, the California Department of Fish and Wildlife noted that the project would "convert part of the McCloud River into reservoir habitat, changing the free-flowing condition of the McCloud River. It further stated that "[i]nundation of the McCloud River would result in a significant loss of this river ecosystem to a reservoir ecosystem, resulting in direct and indirect adverse impacts to the current trout fishery in conflict with State law and policy."

In its comments, the State Water Resources Control Board’s executive officer stated that Westlands is an agency of the state, thus subject to the state law prohibition on assistance in planning with federal, state, or local agencies for impoundment facilities that "could have an adverse effect on the free-flowing condition of the McCloud River or its wild trout fishery." The letter said that EIR lead-agency status is "planning" for the purposes of this part of the California Wild and Scenic Rivers Act. It also stated that preparation of an EIR to support state and local approvals is similarly unlawful, as is sharing EIR or construction costs with others. In summary, the expanded reservoir would convert a free-flowing reach of river to "impounded waters" and Westlands' EIR preparation is thus prohibited by the statutory language. The comment letter also noted the Water Code prohibits the Board from issuing permits or “otherwise” to such projects and highlights that the construction of SDRP requires the Board to provide time extensions on Reclamation's Shasta Dam water rights permits, an action that the Board believes the California Wild & Scenic Rivers Act prohibits.

State objections to the project did not seem to be a concern of Reclamation. KQED’s science reporter Craig Miller interviewed Reclamation’s Area Manager Don Bader during pre-construction core drilling:

"We're proceeding along the federal route here," says Bader. "If California does not participate in this process, we'll move along forward by getting the federal approval."

Some might interpret that as saying they're going through with this regardless of what California thinks. "That's one way to say it," says Bader.

In April 2019, in response to a question about his concerns about Reclamation's Shasta Dam Raise & Enlargement Project (SDREP) by the Water Education Foundation, California Natural Resources Secretary Wade Crowfoot replied:

Federal officials are pursuing efforts to raise Shasta Dam on the Sacramento River in Northern California, despite state concerns that raising the dam would violate the protection for the McCloud River under California’s Wild and Scenic Rivers Act. The state’s concerns center on the project's adverse impacts on the McCloud River, which is specifically protected under state law. The California Department of Fish and Wildlife and the State Water Resources Control Board restated these concerns in recent comment letters regarding the proposed raise. We hope the Bureau of Reclamation will closely consider our state agencies' concerns in the coming months.
Reclamation maintains a webpage providing SDREP status. At this writing, they continue to project awarding the construction contract in December 2019, although that date has passed, along with some other missed project milestones. The website materials state that the project is projected to be completed in 2025.87

Reclamation has offered to conduct tours of Shasta Dam and the McCloud River reach that would be inundated by the reservoir expansion project for potential cost-sharing partners, including the San Luis and Delta-Mendota Water Authority. On March 22, 2019, Reclamation construction engineer Richard Welsh informed the SLDMWA general manager that the estimated cost for the dam raise was currently $2 billion. (It is unknown what the seismic dam-safety retrofit costs might be, but only 15% of the costs of such projects would be borne by CVP contractors.) On June 25, 2019, Reclamation Commissioner Brenda Burman, implementing Reclamation Central Valley Project Power Initiative, directed Reclamation's Mid-Pacific Region to "work with Reclamation's Policy and Administration Directorate, the non-Federal cost share partners, preference power customers, WAPA, and other stakeholders to update the benefits, costs and financial impacts associated with inclusion of a hydropower purpose for the proposed Shasta Dam and Reservoir Enlargement project during the pre-construction true-up process."88

At least by February and March of 2019, Westlands was outreaching to other prominent CVP contractors in hopes of acting as the Reclamation's middleman, reselling Shasta Dam-raise water that it contracts for as the local cost-sharing partner with Reclamation to other prominent CVP contractors.89

On September 30, 2019, a California Endangered Species Act listing petition for the Shasta Snow Wreath, Neviusia cliftonii, was received by the California Fish & Game Commission.90 (Photo on front page right.)This review continued.91 The Commission declared the Snow Wreath a candidate species on April 21, 2020.92

The Administration FY2020 budget request was for $57 million for the Shasta Dam and Reservoir Enlargement Project (SDREP).93 In June of 2019, it was learned that the California House of Representative Republicans remaining after the 2018 general election, Representatives Calvert, McCarthy, McClintock, Nunes, LaMalfa, Cook, and Hunter, are all offering an amendment to the House Energy and Water Appropriations bill to make funding available to the Shasta Dam and Reservoir Enlargement project, a water project recommended by the Administration under the WIIN Act. According to press accounts, appropriations for funding the Shasta Dam raise has been a matter of dispute between Speaker Pelosi and Majority Leader McCarthy for the FY 2020 final appropriations bill in December 2019.94 The FY 2019-20 Energy and Water Appropriations bill (that's where the federal government funds dams and water projects) was put into a "minibus" called the "Further Consolidated Appropriations Act, 2020," H.R. 1865. It reappropriated WIIN study funds from FY2017 & 2018 into FY2020 for a number of California proposed dams. The Shasta Dam raise was not on the list of these projects.95

On February 4, 2020, House Minority Leader McCarthy announced a Secretarial “additional distribution of funding” of WIIN appropriations for FY 2020 of $8 million for pre-construction engineering and design for the Shasta Dam raise.96 This Secretarial distribution was apparently from H.R. 1865 unspecified WIIN appropriations in addition to the specified project appropriations largely derived from the President's budget.97 This appears to be the first time the Secretary of the Interior has made his own distributions of discretionary funds under his control for storage projects in the Reclamation states.

On February 18, 2020, U.S. Secretary of the Interior David Bernhardt spoke at the California Water Forum in Tulare, California, and stated that raising of Shasta Dam is “a priority” for the Trump Administration and that the Department of Interior is “pushing it.” Secretary Bernhardt also stated that Interior had "put money in our budget, and we've been making progress every day, and we'll be modifying...Actually, you don't have to take Dave Bernhardt's word on this. The last administration thought that Shasta was a pretty good idea too. They put this EIS together and made some policy calls about its feasibility.” He further stated that "we'll be updating that environmental document in the next short period of time, so that will be the next step you see on us moving."98

On February 19, 2020, President Donald Trump promised Bakersfield crowds that he would get them “a lot of water, a lot of dam, a lot of everything.”99 He then signed an executive order saying: "To help develop and deliver water supplies in the Central Valley of California, I direct those Secretaries to coordinate efforts to: (a) implement the relevant authorities of subtitle J of the Water Infrastructure Improvements for the Nation Act (Public Law 114-322), which include provisions focused on (1) developing water storage..."100
On February 27, 2020, the Bureau of Reclamation posted the following on Twitter: “President Trump told us to improve #CAwater reliability. Today we’re continuing pre-construction work at Shasta Dam to improve water supplies for farms, family and fish and wildlife. #RaiseShasta, @USBR.”

On February 25, 2020, the State Central Valley Regional Water Quality Control Board received a letter from Reclamation rejecting the Board’s rescission and denial of a §401 Clean Water Act permit for Reclamation’s “Shasta Lake Geologic Testing and Scope Project.” Reclamation would therefore be proceeding with the Project.

On June 4, 2020, President Donald Trump signed an executive order in part “to facilitate the Nation’s economic recovery, the Secretary of Defense, the Secretary of the Interior, and the Secretary of Agriculture shall use all relevant emergency and other authorities to expedite work on, and completion of, all authorized and appropriated infrastructure, energy, environmental, and natural resources projects on Federal lands that are within the authority of each of the Secretaries to perform or to advance.”

On June 22, 2020, Assistant Secretary of the Interior Timothy Petty requested $15 million in preconstruction design and construction funding for the Shasta Dam Raise and Reservoir Expansion Project in a letter to the chair of the House of Representatives Appropriations Committee.

In December 2020, it was reported that House Minority Leader Kevin McCarthy was seeking to authorize the construction of the Shasta Dam raise and a time extension on the WIIN in the federal FY 2020–21 omnibus appropriations bill. That request was not accepted. On December 20, 2020, Reclamation posted a post-omnibus-bill-signing press release complaining that “[d]espite previously approving $20 million, Democratic leaders in Congress blocked $115 million in additional requested funding for this project, one of the smartest and most cost-effective opportunities California has to create additional water storage.” Instead, under the omnibus appropriations bill no pre-construction and construction expenditures from this bill could be made for the Shasta Dam raise project. It is unclear to these writers if the Secretary has the authority to make pre-construction or construction “additional distribution of funding” from unearmarked prior-year WIIN §4007(h) or §4011(e) appropriations or repayment contributions to the Reclamation Water Storage Account. However, it is unlikely that the Biden Administration will do so for this project. If so, it is unlikely that Reclamation could meet the December 16, 2021, WIIN §4013 construction-start deadline to maintain WIIN program eligibility.

Reclamation apparently did not send a Secretarial feasibility determination letter shortly before the WIIN §4007(i) December 31, 2020, as it did for at least three other California dam projects that might receive WIIN subsidies. If so, this would mean that the Shasta Dam raise would no longer be a WIIN-eligible federal storage project. However, on January 28, 2021, the Congressional Research Service (CRS) reported, without providing a WIIN Secretarial determination letter, that the SDREP was “found feasible prior to the WIIN Act deadline of January 1, 2021.” Speculation for the basis of this conclusion may rest on that when “Reclamation Transmits to Congress Final Report on Proposed Shasta Dam Raise” on July 29, 2015, before the passage of the WIIN, the Report carried the imprimatur of both Reclamation and the Department of the Interior. Such a “Secretarial” feasibility determination is inconsistent with the procedures Reclamation reported it would follow in its FY 2021 Budget Justifications where it stated that Secretarial determinations would separately follow final feasibility reports or accompany a Record of Decision:

The CALFED water storage program plans to complete Final Feasibility Report for the North of the Delta Offstream Storage Project and submit to the Secretary of the Interior for a Feasibility determination; complete Final Feasibility Report and/or Concluding Report for the Upper San Joaquin River Storage Project and submit to the Regional Director; and Secretary Determination of Feasibility and signing of the Record of Decision for the Supplement to the Final Environmental Impact Statement for the Los Vaqueros Phase II Feasibility Investigation.

Of course, after meeting certain pre-conditions, the Shasta Dam raise might be eligible for DRWSIA status, as this proposed successor to the WIIN would make effective modifications to WIIN §4007 storage program a permanent part of Reclamation law and thus not impose these types of project deadlines.
As of this writing, we have no information that a Record of Decision for the project’s National Environmental Policy Act (NEPA) documents was made before the January 20, 2021, Presidential inauguration.

2020 SLWRI Supplemental Environmental Impact Statement

On August 6, 2020, Reclamation issued a draft supplemental environmental impact statement (DSEIS) for the SLWRI.\(^{114}\) It provided a digital open house to explain the project.\(^{115}\) The purpose of the DSEIS was to provide Reclamation with a Clean Water Act 404(r) exemption from certain state water quality permits and to excise some statements in Chapter 25 of the SLWRI FEIS that the dam raise was in conflict with state law. As part of that latter effort, Reclamation also appeared to adopt an aberrant reading of the California Wild & Scenic Rivers Act that the statute’s language protecting the McCloud River did not apply to their proposed Shasta Dam raise. It started by noting in its Virtual Open House\(^{116}\) to the DSEIS the following:

> Reclamation’s view is that there is a question as to whether the legislature intended to prohibit the Shasta Dam raise... (Virtual Open House, station 8).

The Virtual Open House also answered Reclamation’s preceding question:

> California did take legislative measures to protect the River’s wild trout fishery below McCloud Dam from the construction of new dams. The enlargement of Shasta Dam was exempt. (Virtual Open House, station 6)

This statement, of course, is an incomplete discussion of the statute and effectively not true. The last sentence is a complete fabrication.\(^{117}\) The Supplemental EIS, with only partial success, attempted to eliminate the SLWRI FEIS discussion of the California Wild & Scenic Rivers Act of the project’s conflict with state law:

> Reclamation has no obligation to analyze state law requirements under the California Wild and Scenic Rivers Act, and this section is therefore being revised to reflect and re-focus the analysis on the federal requirements. (Draft & Final SEIS p. 5-3)

Thus the SEIS seemed to exempt itself from repeating the clear but erroneous statements in its Virtual Open House that Reclamation’s proposed reservoir expansion project was exempt from the provisions of the California Wild & Scenic Rivers Act. The SEIS did opine, however, on another subsection (PRC Section 5093.542(c))." of the California Wild & Scenic Rivers Act that prohibits state permitting and potential non-federal cost-sharing partners:

> “In other words, the legislature specifically excepted enlargement of Shasta Dam from the prohibition on assisting or cooperating in projects such as the facilities identified in PRC Section 5093.542(b).” (SLWRI Draft & Final SEIS, p. 5-4).

The statute does not exempt the dam raise; rather, it specifically mentions the project and carves a limited exception from its applicability for certain DWR studies.\(^{118}\) This was demonstrated in the Westlands litigation to be discussed subsequently.

The draft supplemental drew comments from the State Water Resources Control Board that the state’s wild & scenic rivers act did, indeed, require that state agencies not provide required permits and other approvals for the dam raise project. The Board also reminded Reclamation that the 404(r) exemption would not be achieved by the supplemental EIS and that 404(r) does not apply to all needed state permits, including a change in Reclamation’s CVP water rights permits or state Porter-Cologne Act water quality permits.\(^{119}\) The California Department of Fish & Game provide some considerable discussion correcting Reclamation’s misunderstandings about the California Wild & Scenic Rivers Act and re-emphasized their conclusion that “[t]he Department finds this project’s impacts are in conflict with California Public Resources Code section 5093.542.”\(^{120}\) The California Attorney General’s comments also emphasized this conflict.\(^{121}\) Environmental groups offered similar and often considerably expanded subject-area comments.\(^{122}\) They also asked for a public update of the 2014–2015-era SLWRI Feasibility Report.\(^{123}\) Environmental groups also surfaced redacted internal but-not-final Reclamation documents obtained under the Freedom of Information Act of a 2019 Reclamation analysis that suggested that Shasta Dam required
seismic upgrade work. This work could not begin until 2028 and it would delay any dam-raise construction start to 2028 as well.\textsuperscript{124}

Reclamation announced the completion of the Final Supplemental EIS on November 19, 2020.\textsuperscript{125} The Supplemental FEIS did not favorably respond to state agency or environmental group comments.\textsuperscript{126} As an example, Reclamation, without explanation, claimed that the WIIN \textsection 4007(b)(4) WIIN requirements to follow environmental law (including state law) and that the \textsection 4007(j) and \textsection 4012 requirement to meet its existing obligations to follow state law under (including the Central Valley Project Improvement Act) were limited solely to its Reclamation Act \textsection 8 obligations.\textsuperscript{127}

Second, several commenters asserted the WIIN Act requires strict compliance with all state environmental laws, and that the SEIS therefore failed to explain how the project specifically adheres to all relevant state environmental laws. However, the WIIN Act does not expand Reclamation’s obligation to comply with any state law beyond that which is already required under \textsection 8 of the Reclamation Act, which requires consistency with state water law—those laws addressing the control, appropriation, use, or distribution of water. 43 U.S.C. \textsection 373.\textsuperscript{128}

Reclamation “transmitted” the FEIS to the ranking member of the Subcommittee on Water Oceans, and Wildlife of the House Committee on Natural Resources, Rep. Tom McClintock, on January 12, 2021. The transmittal letter noted that “Reclamation determined that it was appropriate and necessary to provide supplemental analysis in order to proceed with the SLWRI under the authority of the Water Infrastructure Improvements for the Nation Act (P.L. 114-322), Section 4007.”\textsuperscript{129} The transmittal letter was silent on whether there had been a Secretarial feasibility determination before January 1, 2021. The transmittal letter did not describe how the Secretary’s apparent 2018 WIIN “determination for commencement of construction” had been undertaken since it was contrary to WIIN statutory requirements.

2021 Developments

On April 13, 2021, the environmental group American Rivers placed the McCloud River on its 2021 “ten most endangered rivers list,”\textsuperscript{130} calling for the new Department of the Interior to end the project.\textsuperscript{131} The FOR et al. introductory comments on Reclamation’s draft Supplemental Environmental Impact Statement provides advice on how to do this:

\begin{quote}
[T]here is sufficient information in the SLWRI FEIS, Final Feasibility Report, the DSEIS, and comments to the DSEIS to conclude that the action alternatives of the SLWRI and synonymous Shasta Dam and Reservoir Expansion Project (SDREP) and Shasta Dam Raise Project (SDRP) are not feasible, in part because (1) California law prevents cost-sharing partners from cooperating and assisting Reclamation with this project, (2) certain required permits will not be available to Reclamation and others, and (3) that the action alternatives are unlawful under federal law. Information developed in the SLWRI requires that a non-reservoir expansion alternative be adopted in the project Record of Decision (ROD) as the preferred and recommended alternative for the SLWRI/SDREP — and the SLWRI ended. Information developed in the SLWRI (or information that should have been developed) does not support adoption of the dam-raise (action) alternatives.\textsuperscript{132}
\end{quote}

There have been follow-up letters to Interior Secretary Haaland.\textsuperscript{133}

2019–2020 Lawsuits

On May 13, 2019, in separate lawsuits, the California Attorney General, representing the people of California, and Friends of the River \textit{et al.} (Friends of the River, Golden Gate Salmon Association, Pacific Coast Fishermen’s Association, Institute for Fisheries Resources, Sierra Club, Defenders of Wildlife, and the Natural Resources Defense Council), represented by Earthjustice, filed a complaint in Shasta County Superior Court against the Westlands Water District for violation of the California Wild & Scenic Rivers Act. The complaints sought declaratory and injunctive relief and a writ of mandate or preliminary writ that Westlands is prohibited from
undertaking the SDRP EIR, signing a cost-sharing agreement with Reclamation, and must halt its assistance and cooperation with Reclamation's Shasta Dam raise project.134

On June 12, 2019, Westland petitioned for a change in venue from the superior court in Shasta County to Fresno County.135 Also on June 12, 2019, the California Attorney General sought a preliminary injunction against Westlands’ continued violations of the California Wild & Scenic Rivers Act, including its preparation of an Environmental Impact Report.136 Action on the preliminary injunction request could not take place until venue was established. On June 20, 2019, the North Coast Rivers Alliance and the San Francisco Bay Crab Boat Owners Association, represented by the law office of Stephen Volker, filed a complaint against Westlands Water District for violation of the California Wild & Scenic Rivers Act, the Public Trust Doctrine, and the Delta Reform Act. Reclamation was named as a "real party in interest." The venue and relief sought was similar to the May 13 lawsuits.137 On July 8, 2019, Friends of the River et al. and the CA Attorney General filed their opposition to the proposed venue change.138 Westlands’ reply to opposition to their venue change motion was filed on July 15th. Judge Wood issued a tentative ruling on July 19th, keeping venue in Shasta County Superior Court. At the July 22, 2019, venue hearing, Westlands did not contest the tentative venue ruling. After a July 29, 2019, hearing on the CA Attorney General’s request for a preliminary injunction in Shasta County Superior Court a preliminary injunction was issued barring Westlands from continuing with the EIR and planning and construction of the dam raise project.139

Reclamation’s response was covered in Damon Arthur’s article in the Redding Record Searchlight on the preliminary injunction quoting Reclamation spokesperson Jeff Hawk:

“We have not reviewed the ruling, however such a ruling would not prevent [R]eclamation from moving forward with the Shasta Dam and Reservoir Enlargement Project,” Hawk said.140

Mr. Hawk did not note that Reclamation is proceeding forward on the project under the authority of the Water Infrastructure Improvements for the Nation Act of 2016 (WIIN). This statute requires a 50% non-federal cost-sharing partner (presumably Westlands), compliance with "environmental" law (presumably including CAWSRA), and leaves unaltered Reclamation’s CVPIA requirements to comply with state law.

Reclamation’s response to the California Supreme Court’s denial of Westlands’ request to vacate the injunction was also covered by the Redding Record Searchlight:

Jeffrey Hawk, a bureau spokesman, said there were other non-federal partners interested in helping to pay for raising the height of the dam, but he declined to say who they were.

He said the bureau also is still planning to issue construction contracts for the dam project by the end of the year, but that is “contingent on necessary congressional and statutory compliance approvals.”141

On August 12, 2019, Westlands Water District ("Westlands") petitioned the Third Appellate District for a writ of mandate and/or prohibition, or other appropriate relief, directing respondent Shasta County Superior Court to vacate its preliminary injunction.142 The request, as well as the venue appeal, was rejected on August 29, 2019.143 On September 6, 2019, Westlands petitioned the California Supreme Court to block the preliminary injunction, a petition rejected by the court on September 25, 2019.144 On August 30, 2019, Westlands moved to strike plaintiffs’ declaratory relief claims.145 This October 7 hearing on the motion and opposition to it was continued for parties to explore settlement.146

On September 30, Westlands announced that it was terminating its existing EIR.147 A Politico article148 on the same day offered the explanation on the same day:

Westlands Water District, the largest agricultural water district in the country, said it would instead perform a separate analysis of whether raising the Northern California dam would harm the McCloud River upstream, which could eventually lead to resuming environmental permitting work.

On November 8, 2019, the parties announced a tentative settlement that would ask the court to forbid Westlands from initiating an EIR, signing a cost-sharing agreement with Reclamation, or acquiring any real property to
facilitate the reservoir expansion — to the extent that this would violate the California Wild & Scenic Rivers Act.

On November 20, 2019, the court accepted the settlement. It should be noted that in the Politico article above and a subsequent press account that Westlands has indicated its belief that none of these activities are inconsistent with this statute once they make a determination that the reservoir expansion "would" not have an adverse effect on the free-flowing status of the McCloud River or its wild trout fishery.

On December 20, 2019, the Golden State Salmon Association et al. (GGSA, PCFFA, IFR, Friends of the River, & the Sierra Club), represented by Earthjustice, filed a complaint in the Northern District of California against Reclamation for failure to comply with the Freedom of Information Act (FOIA) regarding information requests associated with their proposed project. On March 23, 2020, a second lawsuit was filed to produce additional documents, and a motion made to consolidate the FOIA cases. Document production has begun by agreement of the parties under the supervision of the court.

For current fact sheets and more resources see: https://www.friendsoftheriver.org/our-work/rivers-under-threat/sacramento-threat-shasta/ For additional information concerning this project, please contact Steve Evans, Wild Rivers Project Consultant for the California Wilderness Coalition, phone: (916) 708-3155, sevans@calwild.org; or Ronald Stork, Friends of the River, (916) 442-3155 x 220, rstork@friendsoftheriver.org.

4 SLWRI Final Feasibility Report, pp. 1-9, 1-12 figure 1-5.
5 SLWRI Final Feasibility Report, pp. 6-1-2.
6 The 18.5 ft. dam raise would increase the reservoir full-pool elevation by 20.5 feet, representing an enlargement of reservoir storage capacity by 634,000 acre-feet to a total capacity of 5.19 million acre-feet. SLWRI Final Feasibility Report, p. ES-19.
7 SLWRI Final Feasibility Report p. 6-7 and Final Environmental Impact Statement Shasta Lake Water Resources Investigation, United States Department of the Interior Bureau of Reclamation, Mid-Pacific Region, Final Environmental Impact Statement, December 2014, (SLWRI FEIS) pp. S-34 and 32-8 identifies the National Economic Development (NED) project as the preferred alternative. The entire FEIS can be found on Reclamation's website: https://www.usbr.gov/mp/nepa/nepa_project_details.php?Project_ID=1915
8 For more discussion and an expanded list of intended or modeled benefits of the NED alternative, see SLWRI Final Feasibility Report, pp. 6-3–4. In the preferred alternative, the Shasta power plant is modeled to increase Energy production by 5% resulting in a 2% increase in net CVP energy production. SLWRI FEIS p. 23–21, table 23-7.
9 SLWRI Final Feasibility Report p. 9-1. Although no plan is recommended, a plan (CP4A) is identified as the preferred plan. Table 6-15 from page 45, Chapter 6, “Timeline and Status of Feasibility Study,” states: “This Final Feasibility Report evaluates and compares comprehensive plans and identifies the NED Plan. The Final EIS includes responses to public comments and identifies the Preferred Alternative.” However, identification of a preferred but not recommended alternative in the Final Feasibility Report that is released to Congress was inconsistent with the 2004 federal statute authorizing the Secretary of the Interior to, in consultation with the Governor of California, submit the feasibility report of this and other named federal projects to the Congress once the Secretary determines that it should be constructed using in whole or in part federal funds. HR 2828, 108th Congress. The “Water Supply, Reliability, and Environmental Improvement Act.” MP-15-122 Reclamation Transmits to Congress Final Report on Proposed Shasta Dam Raise, U.S. Bureau of Reclamation, Mid Pacific Region News Release, July 29, 2015. http://www.usbr.gov/newsroom/newsrelease/detail.cfm?RecordID=49890.
10 “Current Federal Budget conditions and the impacts those conditions have on Reclamation's budgetary resources significantly constrain Reclamation's ability to fund new construction activities of the scope and magnitude required by the SLWRI. As a result, the traditional model under Federal reclamation law, with Congress providing funding from annual appropriations to cover all the costs of construction over a relatively short period of time, and a portion of those funds being repaid to the Treasury over 40–50 years, is unrealistic for the identified SLWRI NED Plan. Alternative means of financing (primarily non-Federal) for a majority of the construction costs of the NED Plan would have to be identified and secured in order for the Secretary of the Interior to be able to recommend a construction authorization to Congress...” SLWRI Final Feasibility Report, p. 9-1.
However, the proposed action, “by further restricting high water flows will result in additional losses of salmonid rearing and riparian habitat and adversely affect the recruitment and natural succession of riparian habitat along the Sacramento River and bypasses.” The Service “was unable to support the adoption of any of the proposed [dam-raise]


27 The report does not contain a breakdown of south of delta versus north of delta average annual delivery increases. Instead, it provides a breakdown of dry year delivery increases. See SLWRI Feasibility Report, pp. ES-28 table ES-3, 4-23 table 4-2.
“Modifications of Shasta Dam and Reservoir could allow for increased system flexibility and further use of new Delta conveyance facilities, providing for even greater water supply reliability benefits.” SLWRI Feasibility Report, p. 1-36.

“All SLWRI comprehensive plans were formulated specifically to increase CVP and SWP water deliveries and water supply reliability. Isolated north Delta diversion facilities implemented as part of the BDCP could increase water deliveries to CVP and SWP SOD water users and improve water quality for urban and agricultural water users. Implementation of an enlarged Shasta Dam and Reservoir in combination with any BDCP alternative would likely provide greater water supply benefits than implementing either proposed project independently. Modifications of Shasta Dam and Reservoir could increase system flexibility and potential use of new Delta conveyance facilities, providing for even greater water supply reliability. However, the magnitude of the combined benefits is dependent upon type and size of conveyance facilities included in BDCP alternatives.” SLWRI Feasibility Report, p. 6-30.

The reservoir expansion would violate the California Wild & Scenic Rivers Act, in part, by impermissibly creating a new reservoir on a protected section of the McCloud River and the McCloud arm of Shasta Reservoir. California Public Resources Code §5093.542 (b).


See later discussion and accompanying endnotes and references in later sections of this fact sheet on the Water Infrastructure for the Nation Act of 2016 (WIFIN).

With regard to Proposition 1 bond act funding, see Chapter 4, 79711(e) “Nothing in this division [bond act] shall be construed to affect the California Wild and Scenic Rivers Act (Chapter 1.4 (commencing line 5 with Section 5093.50) of Division 5 of the Public Resources Code) or the federal Wild and Scenic Rivers Act (16 U.S.C. Sec. 1271 line 7 et seq.) and funds authorized pursuant to this division shall not be available for any project that could have an adverse effect on the values upon which a wild and scenic river or any other river is afforded protections pursuant to the California Wild and Scenic Rivers Act or the federal Wild and Scenic Rivers Act.” By regulation (California Code of Regulations Title 23. Waters. Division 7. California Water Commission, Chapter 1 Water Storage Investment Program, §6001(a)(10)), the Shasta Dam Project was excluded from the California Water Commission list of Water Supply Investment Program CALFED projects. Staff explained the exclusion: “Shasta Enlargement has been removed from the eligible projects list. Although certain CALFED projects are deemed eligible under Section 79751 (a), the exception in this Section incorporating by reference prohibitions in the Wild and Scenic Rivers Act, including Section 5093.542 (c) of such Act, would preclude the enlargement of Shasta Dam from being an eligible project under current law.” https://cwc.ca.gov/-/media/CWC-website/Files/Documents/2015/07_July/July2015_Agenda_Item_13_Attach_2_Summary_of_SAC_Comment_Letters.pdf See comment I.D. EP-1.

“Three alternatives provide some tangible benefit for anadromous fish, CP4, CP4A, and CPS. CP4 provides for the dedication of 378,000 acre-feet of the cold-water pool for the purpose of maintaining the required downstream temperatures below Keswick Dam. CP4A would dedicate half that amount of the cold-water pool, 191,000 acre-feet, for water management to benefit anadromous fish. CP4, CP4A, and CPS include a plan for proposed increase of riparian, floodplain, and/or side channel habitat between Keswick Dam and the REPP. Only one alternative (CP4) provides any substantial benefit to anadromous fish survival; however, alternate CP4, in the majority of years, would result in either negligible or slightly negative impacts to Chinook salmon survival overall. In about 90 percent of the years, there would be no benefit to anadromous fish survival. Even in CP4, the benefits of an enlarged cold water pool for each of the four runs of Chinook salmon are limited to a few critical and dry water years representing 6–16 percent of the water years, based on the 1922–2002 period of simulation. Simulations based on current Chinook salmon population levels (i.e., 1999–2006 population average) and predicted higher future Chinook salmon population levels (i.e., Anadromous Fish Restoration Program [AFRP] population goals) show that increases in immature smolt production of winter-, fall-, and late fall-run Chinook salmon relative to No Action in excess of 10 percent occurred in only 5–11 percent of the years simulated. Increases in springrun Chinook salmon immature smolt production of greater than 10 percent occurred in 15–16 percent of the years simulated. The modelling results do not take into account the conditions that would exist within the Sacramento River and the Delta and how that would affect the overall production and survivability of Chinook salmon.” (2015 CAR, p. viii)

“For the period of 81 years (1922–2002) used for Reclamation’s modeling (SALMOD), no significant (an increase or decrease of greater than, or equal to 5 percent) change in overall production for any of the Chinook salmon runs (winter-run, spring-run, fall-run, and late fall-run) resulted from any of the proposed alternatives (CP1, CP2, CP3, CP4, CP4A, and CPS) compared to either the No-Action Alternative (Future Conditions 2030) or the Existing Condition (2005).” (2015 CAR, p. ix)
Based on the Service’s evaluation of the information available, as contained in this report, as well as evaluations contained in the EIS and associated documents provided by Reclamation, the Service has determined that the proposed project does not provide substantial benefits to fish and wildlife resources within the Shasta Lake pool or the adjacent upland habitats. The Service has also determined that the proposed project does not provide any substantial benefit to anadromous fish downstream of the RBPP and only provides minimal benefit to anadromous fish (winter- and spring-run Chinook salmon) upstream of the RBPP. It is the Service’s opinion that based on the existing information; the proposed action, by further restricting high water flows, will result in additional losses of salmonid rearing and riparian habitat, and adversely affect the recruitment and natural succession of riparian forest along the Sacramento River and bypasses. Upon consideration of the information provided to date, the level of potential impacts to fish and wildlife resources, and the lack of specificity on potential mitigation and compensation measures the Service is unable to support the adoption of any of the proposed action alternatives.” (2015 CAR, p. xiii.)


36 SLWRI Feasibility Report, p. 5-15 table 5-8.
39 The inundated acreage estimate can be found in the sequential incremental estimates for the three examined dam-raise heights: (SLWRI Feasibility Report, pp. 4-42 [1,100 acres], 4-52 [1,900 acres], and 4-72 [2,600 acres]). The 20.5-foot reservoir expansion alternatives sum to 5,600 inundated acres.
42 The California Wild & Scenic Rivers Act prohibits new dam and reservoir construction that would increase reservoir levels above the McCloud River Bridge (California Public Resources Code §5093.542 (b)). The bridge is a bit more than a mile (5,440 feet) downstream of the current reservoir gross (full) pool and approximately one and two thirds of a mile (5,440 feet plus 3550 feet, the latter above current gross pool) downstream of the gross (full) pool that would be formed in the 18.5-foot dam raise alternatives (SLWRI FEIS, pp. 25-4–5, 25-36–40). The SLWRI FEIS map (Figure 25-2, p. 25-5) depicts both of the preceding reaches (McCloud River Bridge up to current gross pool elevation of 1070’, and from the current gross pool elevation of 1070’ to 1090’, the approximate gross pool elevation of the 20.5-ft preferred-alternative reservoir elevation increase). It also depicts some of the potential river-bed area subject to yearly high-pool reservoir inundation, treated as elevation 1020 feet (upper limit of “lake” in critical dry year) to elevation 1070 feet (present gross pool). According to the SLWRI FEIS (pp. 25-4–5), this reach is treated by the USFS Shasta-Trinity National Forest Land and Resource Management Plan in 1994 as part of the reservoir. This reach is called the transition reach in the SLWRI FEIS (pp. 25-3–4) since the reservoir yearly high pool is usually within this reach. Referring to the lineal distance from reservoir elevation 1020 ft. to expanded reservoir elevation 1090 ft., the 20.5-ft. reservoir raise is described as increasing the length of this “transition” reach to 12,550 lineal feet or 2.38 miles (SLWRI FEIS, p. 25-37). It may also be relevant that under the lowest of the dam-raise alternatives (the 6.5-ft. CP1 dam raise), the reservoir gross pool would rise to 1,078 feet, inundating 1470 lineal feet of the McCloud River upstream of the current Shasta Reservoir gross pool (SLWRI FEIS p. 25-27). The SLWRI FEIS Wild & scenic rivers chapter can be found here: https://www.friendsoftheriver.org/wp-content/uploads/2019/05/SLWRI-FEIS-Chapter-25-ws.pdf.
It should also be noted that there may be some confusion between documents on the existing gross pool of Shasta Reservoir, described as elevation 1070 feet msl at SLWRI FEIS p. 25-4. The Shasta Dam and Lake, Sacramento River, Report on Reservoir Regulation for Flood Control, Appendix 1 to Master Manual of Reservoir Regulation, Sacramento River Basin, California, April 1952, Rev. January 1977, Department of the Army, Sacramento District, Corps of Engineers, Sacramento California, Shasta Dam and Lake, Sacramento River, California, Pertinent Data describes the gross pool at elevation 1067. This is likely because two msl datum are used: "Two elevation datum are referenced in text and figures herein and in the accompanying EIS. The National Geodetic Vertical Datum of 1929 (NGVD29) is used in reference to Shasta Dam and appurtenant facility designs. The North American Vertical Datum of 1988 (NAVD88) is used in reference to Shasta Reservoir inundation pool elevations, and the elevations of potential reservoir area infrastructure that may need to be modified or relocated to accommodate increased water levels, consistent with a 2001 aerial survey of the reservoir area that referenced the NAVD88 datum. The NGVD88 is 2.66 feet higher than NGVD29" (SLWRI Feasibility Report, p. 2-19). Again, any potential discrepancy or confusion between or within documents relating to the vertical datum used can usually be resolved by careful reading. Regardless, any pool-elevation discrepancies are not of relevance given that all the SLWRI pool-elevation/dam-raise alternatives raise the reservoir gross pool by 8.5 to 20.5 feet.

44 SLWRI FEIS pp. 25-36-40.
49 November 2015 CAR, pp. 164–165. The Bureau, however, believes that there are no significant Delta impacts (SLWRI FEIS pp. S-72–73). In their comments, however, the California Department of Fish and Wildlife (CDFW) emphasized the lack of information that they possessed to analyze the FEIS preferred but not recommended alternative (CP4A): "While the Department participated in the SLWRI in its current iteration since 2000 and is a member of the SLWRI Project Coordination Team, we were not aware of the development of a new alternative, CP4A. The lack of detailed information on Alternative CP4A, now the preferred alternative, hampered our ability to provide a thorough review of the CAR. Our review and comments are therefore based solely on the content of the CAR, with the acknowledgement that additional information may have affected our response. In addition, the CAR repeatedly states that, "... there is insufficient information provided ... to analyze the effects ...," or "... the Service is unable to analyze the effects ... due to insufficient information on project details." (California Department of Fish and Wildlife Comments on the U.S. Department of the Interior, U.S. Fish and Wildlife Service, Fish and Wildlife Coordination Act Report for the Proposed Shasta Dam Enlargement Project, Shasta Lake Water Resources Investigation, February 13, 2015, p. 1–2.) Reclamation’s SLWRI project manager Michelle Denning’s forward to the U.S. Fish and Wildlife Service about the CDFW comments (available at http://www.friendsoftheriver.org/wp-content/uploads/2016/01/20150214-2wFwD-cDFW-cmts-Adoe-OCR.pdf) notes that CDFW no longer had a review function except through the Fish and Wildlife Coordination Act Report once the federal FEIS was no longer accompanied by a California Environmental Quality Act (CEQA) environmental impact report (EIR) because Reclamation had determined that “there were no imminent CEQA compliance activities for raising.” The SLWRI Feasibility Report was somewhat more candid: "From discussions with the State, it is our understanding there has been a determination that the PRC protecting the McCloud River prohibits State participation in the planning or construction of enlarging Shasta Dam other than participating in technical and economic feasibility studies." (p. 9-1)

The November 2014 CAR carries the word “draft.” However, according to internal correspondence within the U.S. Fish & Wildlife Service, the “draft” annotation was a mistake. The November version was intended to be final. https://www.friendsoftheriver.org/wp-content/uploads/2019/07/20141209-November-2014-Version-of-Shasta-FWCAR.pdf. The CAR was forwarded to Reclamation by the Field Supervisor, Bay-Delta U.S. Fish and Wildlife Office Sacramento, California on November 24, 2014. However, something was soon amiss. The Fish & Wildlife Service prepared talking points for Secretary of the Interior Sally Jewell’s February 6, 2015, trip to Sacramento, asserting that the 2014 CAR had been forwarded to Reclamation by mistake and that they had been rescinded for internal and NMFS review. https://www.friendsoftheriver.org/wp-content/uploads/2019/07/20150205-Talking-points-for-Sec-Jewell-hi-lighted.pdf. On February 13, 2015, Reclamation’s SLWRI project manager Michelle Denning notes in her comments to the Fish & Wildlife Service about the CDFW 2014 CAR comments that apparently no one had informed CDFW that the 2014 CAR had been “rescinded to allow for higher level review.” http://www.friendsoftheriver.org/wp-content/uploads/2016/01/20150214-FwD-CDFW-cmts-Adoe-OCR.pdf. The 2014 CAR was obtained by a Freedom of
The San Jose Mercury News published a news article covering reactions to the rescinded report. See: http://www.mercurynews.com/science/ci_27406666/plan-raise-shasta-dam-takes-hit-after-federal. A year later, the U.S. Fish & Wildlife Service’s November 2015 SLWRI Fish & Wildlife Coordination Act Report (2015 CAR) covered Reclamation’s late-developing preferred alternative, 4a. As before, the 2015 CAR recommended a number of actions that were not included in the SLWRI FEIS alternatives. The actions were to mitigate impacts of the action alternatives and achieve project objectives. In the end, however, the 2015 CAR did not reach different conclusions than the 2014 CAR. For example:

Based on the Service’s evaluation of the information available, as contained in this report, as well as evaluations contained in the EIS and associated documents provided by Reclamation, the Service has determined that the proposed project does not provide substantial benefits to fish and wildlife resources within the Shasta Lake pool or the adjacent upland habitats. The Service has also determined that the proposed project does not provide any substantial benefit to anadromous fish downstream of the RBPP and only provides minimal benefit to anadromous fish (winter- and spring-run Chinook salmon) upstream of the RBPP. It is the Service’s opinion that based on the existing information; the proposed action, by further restricting high water flows, will result in additional losses of salmonid rearing and riparian habitat, and adversely affect the recruitment and natural succession of riparian forest along the Sacramento River and bypasses. Upon consideration of the information provided to date, the level of potential impacts to fish and wildlife resources, and the lack of specificity on potential mitigation and compensation measures the Service is unable to support the adoption of any of the proposed action alternatives. (2015 CAR p. xiii)


This determination is supposed to be contingent on several matters. WIIN § 4007(b) (3) COMMENCEMENT. — The construction of a federally owned storage project that is the subject of an agreement under this subsection shall not commence until the Secretary of the Interior—
(A) determines that the proposed federally owned storage project is feasible in accordance with the reclamation laws;
(B) secures an agreement providing upfront funding as is necessary to pay the non-Federal share of the capital costs; and
(C) determines that, in return for the Federal cost-share investment in the federally owned storage project, at least a proportionate share of the project benefits are Federal benefits, including water supplies dedicated to specific purposes such as environmental enhancement and wildlife refuges.
We are not aware of any meaningful explanation of how the determination was reached.

Report to the House and Senate Committees on Appropriations, Distribution of Fiscal Year 2017 Funding for Water Conservation and Delivery- Pub. L. 114-322 (Section 4007), Water and Related Resources, Bureau of Reclamation and Discussion of Criteria and Recommendations.,” (WIIN Funding Report)

See pp. 3 and 4 for the “Secretarial Determination for Commencement of Construction for the dam raise.”

WIIN Funding Report. http://www.friendsoftheriver.org/wp-content/uploads/2018/03/Adm-rprt-on-2018-CA-reservoir-enlargement-approps-request-ocr.pdf. See pp. 1, 3, 6. WIIN § 4007(b) (3) COMMENCEMENT. — The construction of a federally owned storage project that is the subject of an agreement under this subsection shall not commence until the Secretary of the Interior — ...(B) secures an agreement providing upfront funding as is necessary to pay the non-Federal share of the capital costs...

SLWRI FEIS 25-40.


The provisions of interest that touch on requirements to follow federal and state law are the following: § 4007(b) Federally Owned Storage Projects (4) ENVIRONMENTAL LAWS. — In participating in a federally owned storage project under this subsection, the Secretary of the Interior shall comply with all applicable environmental laws, including the
National Environmental Policy Act of 1969 (42 U.S.C. 4321 et seq.) § 4007(j). Consistency with State Law: Nothing in this section preempts or modifies any obligation of the United States to act in conformance with applicable State law. § 4012. Savings Language. Subtitle J, California, should not be interpreted or implemented in a manner that preempts state law, affects obligations of the Central Valley Improvement Act (except for the Stanislaus River predator program), changes the Endangered Species Act (ESA), would cause additional adverse effects on fish species, and affects obligations of the Pacific Fishery Management Council under the ESA or Magnuson Stevens Act to manage California to Washington coastal fisheries.

65 See various press accounts from March 2018 and later for stories about Congressional maneuverings to advance or defeat the proposed dam raise at Legislative/Congressional/Trump Administration attempts to advance the Shasta Dam – Press and Related Documents at the Friends of the River website. https://www.friendsoftheriver.org/our-work/rivers-under-threat/sacramento-threat-shasta/


66 The SLDMWA is a joint powers authority comprising water districts, two reclamation districts, a canal company, and a city with the powers held in common by the members. One or more all of the water district members of the Authority are special districts. Cal. Gov. Code § 16271(d) defines special districts as agencies of the state. The Authority would seem to meet the definition of a special district (“Special district” means any agency of the state for the local performance of governmental or proprietary functions within limited boundaries.) Westlands is specifically defined by statute as an agency of the state. Cal. Water Code § 37823. The California Wild & Scenic Rivers Act imposes further specific duties on agencies of the state: “Except for participation by the Department of Water Resources in studies involving the technical and economic feasibility of enlargement of Shasta Dam, no department or agency of the state shall assist or cooperate with, whether by loan, grant, license, or otherwise, any agency of the federal, state, or local government in the planning or construction of any dam, reservoir, diversion, or other water impoundment facility that could have an adverse effect on the free-flowing condition of the McCloud River, or on its wild trout fishery.” [emphasis added] Cal. Pub. Res. Code § 5093.542(c). Local governments such as the City of Tracy (the lone city member of SLDMWA) are subject to the following CAWSRA code section, which requires conformance to the policy section of the Act. “...All local government agencies shall exercise their powers granted under any other provision of law in a manner consistent with the policy and provisions of this chapter.” Cal. PRC§5093.61. [“this chapter” is the PRC code wild & scenic river chapter]. The pertinent policy section of the CAWSRA is as follows: “It is the policy of the State of California that certain rivers which possess extraordinary scenic, recreational, fishery, or wildlife values shall be preserved in their free-flowing state, together with their immediate environments, for the benefit and enjoyment of the people of the state. The Legislature declares that such use of these rivers is the highest and most beneficial use and is a reasonable and beneficial use of water within the meaning of Section 2 of Article X of the California Constitution.” PRC §5093.50 (emphasis added)

These provisions and policy responsibilities make cooperation with Reclamation by the Authority or its members unlawful.

67 For various press accounts on Westlands’ and SLDMWA’s reaction to legal opposition to their proposed cooperation with Reclamation to raise the dam see “Legislative/Congressional/Trump Administration attempts to advance the Shasta Dam – Official Documents, response, and commentary,” “Lawsuits,” and “Press” at the Friends of the River website. https://www.friendsoftheriver.org/our-work/rivers-under-threat/sacramento-threat-shasta/


65 See endnotes 42, 43, and 52.
§ 4007(i) Sunset - This section shall apply only to federally owned storage projects and State-led storage projects that the Secretary of the Interior determines to be feasible before January 1, 2021. § 4013. Duration - Subtitle J, California, expires five years from the date of enactment with the exception of § 4007 storage projects already under construction.
The key provision of the “Further Consolidated Appropriations Act, 2020,” H.R. 1865, was the following:

That in accordance with section 4007 of Public Law 114–322, and as recommended by the Secretary in a letter dated February 13, 2019, funding provided for such purpose in fiscal years 2017 and 2018 shall be made available to the Cle Elum Pool Raise, the Boise River Basin Feasibility Study, the Del Puerto Water District, the Los Vaqueros Reservoir Phase 2 Expansion Project, the North-of-the-Delta Offstream Storage (Sites Reservoir Project), and the Friant-Kern Canal Capacity Correction Resulting Subsidence.

See page 144 of [link to document]. The report language was not immediately accessible, but Rep. Harder provided a list of project funding amounts: [link to document].

Here’s the H.R. 1865 language where the Secretarial distribution appears to have come from the following provision:

Additional Funding for Water and Related Resources Work — The agreement includes funds above the budget request for Water and Related Resources studies, projects, and activities. This funding is for additional work that either was not included in the budget request or was inadequately budgeted. Priority in allocating these funds should be given to advance and complete ongoing work, including preconstruction activities and where environmental compliance has been completed; improve water supply reliability; improve water deliveries; enhance national, regional, or local economic development; promote job growth; advance tribal and nontribal water settlement studies and activities; or address critical backlog maintenance and rehabilitation activities. Of the additional funding provided under the heading "Water Conservation and Delivery,” $134,000,000 shall be for water storage projects as authorized in section 4007 of the WUN Act (Public Law114-322).

[link to document] (see PDF page 63)
These provisions of the WIIN can be reviewed here: https://www.friendsoftheriver.org/wp-content/uploads/2020/12/PLAW-114publ322.pdf. It is unclear to these writers from the implementation of the WIIN what funds are available to the Congressional appropriators and the Secretary of the Interior to spend. For example, is the Reclamation Water Storage Account only being funded by advanced payments of CVP capital debt, only by appropriations, or by both? Do Water Storage Account funds derived from advanced payments require Congressional appropriations for the Secretary to spend? Are direct appropriations independent of the Water Storage Account? What is the status of the Water Storage Account? What happens if the advanced payments are ruled to be premature by the courts? What is the rationale for Congressional appropriators to appropriate more funds than authorized by the WIIN? (For the latter numbers, see “Recent Funding, Project Allocations” https://www.friendsoftheriver.org/wp-content/uploads/2021/02/crs_infocus_reclamation_section4007_28jan20217.pdf. More questions could be raised.

“WIIN §4007(i) SUNSET.—This section shall apply only to federally owned storage projects and State-led storage projects that the Secretary of the Interior determines to be feasible before January 1, 2021.” §4007 is the provision of the WIIN for which the Shasta Dam raise is proceeding under. Other projects in California received this Secretarial feasibility determination.


129 MER2021_FINAL_Report_ReducedSize-1-1.pdf (americanrivers.org).

