

**Appendix HY-2: NRMP Potential Resource Management Actions Incorporated into the Hydraulic Modeling by Area Plan**

Area Plan	NRMP Potential Resource Management Actions	Included in Model	Details
Discovery Park			
	1. Rehabilitate homeless encampments	Yes	Included in the form of additional vegetation
	2. Establish low-growing native vegetation under power lines	No	Low growing vegetation exists, it would be converted to native vegetation
	3. Purchase and naturalize Urrutia property	Yes	Included as part of the Urrutia property redesign
	4. Establish native riparian species / remove non-natives	Yes	Included in the form of additional vegetation
	5. Expand wildlife connectivity opportunities	Yes	Included in the form of additional vegetation
	6. Address and minimize impacts associated with proposed bridge crossing	No	There is not enough information about the proposed bridge project to model, including potential impacts to vegetation
	7. Purchase and naturalize Riverdale mobile home park	Yes	Included in the form of additional vegetation
	8. Improve habitat and public access at Camp Pollock	Yes	Included in the form of additional vegetation
	9. Remediate social trail impacts to promote native vegetation growth	Yes	Included in multiple locations in the form of additional vegetation
	10. Remove urban rubble/redesign bank	Yes	Included as a part of the Urrutia property redesign
	11. Maintain tall tree overstory in parking and picnic area for nesting birds	No	Tall tree overstory is an existing condition, and therefore nothing to model
	12. Increase tall tree overstory in burned areas	Yes	Areas of fire rehabilitation included in the form of additional vegetation
Woodlake			
	1. Lower floodplain	Yes	Included as an element of the ecosystem restoration footprint, change in topography
	2. Implement USACE ecosystem restoration project	Yes	Ecosystem restoration elements included, primarily in the form of modified vegetation

Area Plan	NRMP Potential Resource Management Actions	Included in Model	Details
	3. Establish low-growing native vegetation under power lines	Yes	Included in the ecosystem restoration elements, modified vegetation
	4. Rehabilitate homeless encampment impacts	Yes	Included in the form of additional vegetation
	5. Expand riparian corridor	Yes	Included in the form of additional vegetation
	6. Expand wildlife connectivity opportunities	Yes	Included in the form of additional vegetation
	7. Suppress fire in mature vegetation stands	No	Suppressing fire would maintain the existing condition, and therefore nothing to model
	8. Remediate social trail impacts to promote native vegetation growth	Yes	Included in the form of additional vegetation
	9. Maintain flow through drainage slough	No	This is an action that would maintain the existing condition, therefore nothing to model
Cal Expo			
	1. Lower floodplain	Yes	Included as an element of the ecosystem restoration footprint, change in topography
	2. Establish low-growing native vegetation under power lines	Yes	Included in the ecosystem restoration elements, modified vegetation
	3. Rehabilitate homeless encampment impacts	Yes	Included in the form of additional vegetation
	4. Implement USACE ecosystem restoration project	Yes	Ecosystem restoration elements included, primarily in the form of modified vegetation
	5. Remediate social trail impacts to promote native vegetation growth	Yes	Included in the form of additional vegetation
	6. Manage invasive vegetation	Yes	Included in the ecosystem restoration elements, modified vegetation
	7. Improve wildlife connectivity opportunities	Yes	Included in the ecosystem restoration elements, modified vegetation
	8. Suppress fires and design fuel breaks in mature vegetation	No	Suppressing fire would maintain the existing condition, and the location and extent of fire breaks are not yet known and therefore not modeled
	9. Continue CSUS research and habitat development	Yes	The ecosystem restoration elements are considered representative of the CSUS habitat development

Area Plan	NRMP Potential Resource Management Actions	Included in Model	Details
	10. Increase tall tree overstory in burned areas	Yes	Areas of fire rehabilitation included in the form of additional vegetation in areas previously burned
Paradise Beach			
	1. Lower floodplain	Yes	Included in the form of a Water Forum rearing habitat proposal
	2. Rehabilitate homeless encampment impacts	Yes	Included in the form of additional vegetation
	3. Remediate social trail impacts to promote native vegetation growth	Yes	Included in the form of additional vegetation
	4. Suppress fires in mature vegetation	No	Suppressing fire would maintain the existing condition, and therefore nothing to model
	5. Manage invasive vegetation	No	Not specifically modeled
Campus Commons			
	1. Lower floodplain	Yes	Included in the form of a Water Forum rearing habitat proposal
	2. Rehabilitate homeless encampment impacts	Yes	Included in the form of additional vegetation
	3. Establish low-growing native vegetation under power lines	Yes	Included in the form of modified vegetation
	4. Improve floodplain connectivity to reduce fish stranding	Yes	Included in the form of a topography change
	5. Manage invasive vegetation	No	Not specifically modeled
	6. Suppress fires in mature vegetation stands	No	Suppressing fire would maintain the existing condition, and therefore nothing to model
	7. Remediate social trail impacts to promote native vegetation growth	Yes	Included in the form of additional vegetation
Howe Avenue			
	1. Lower floodplain	Yes	Included in the form of a Water Forum rearing habitat proposal

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	2. Rehabilitate homeless encampment impacts	Yes	Included in the form of additional vegetation
	3. Establish low-growing native vegetation under power lines	Yes	Included in the form of modified vegetation
	4. Suppress fires in mature vegetation stands	No	Suppressing fire would maintain the existing condition, and therefore nothing to model
	5. Remediate social trail impacts to promote native vegetation growth	Yes	Included in multiple locations in the form of additional vegetation
	6. Manage invasive vegetation	No	Not specifically modeled
Watt Avenue			
	1. Lower floodplain	Yes	Included in the form of a Water Forum rearing habitat proposal
	2. Rehabilitate homeless encampment impacts	Yes	Included in the form of additional vegetation
	3. Establish low-growing native vegetation under power lines	Yes	Included in the form of modified vegetation
	4. Manage invasive vegetation	No	Not specifically modeled
	5. Suppress fires in mature vegetation stands	No	Suppressing fire would maintain the existing condition, and therefore nothing to model
	6. Remediate social trail impacts to promote native vegetation growth	Yes	Included in multiple locations in the form of additional vegetation
SARA Park			
	1. Lower floodplain	Yes	Included in the form of a Water Forum rearing habitat proposal
	2. Rehabilitate homeless encampment impacts	Yes	Included in the form of additional vegetation
	3. Manage invasive vegetation	No	Not specifically modeled
	4. Establish valley oak riparian woodland	Yes	Included in the form of additional vegetation
	5. Maintain flow through drainage slough	No	Maintaining flow would maintain the existing condition, and therefore nothing to model

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	6. Suppress fire in mature vegetation stands	No	Suppressing fire would maintain the existing condition, and therefore nothing to model
	7. Remediate social trail impacts to promote native vegetation growth	Yes	Included in multiple locations in the form of additional vegetation
Arden Bar			
	1. Lower floodplain	Yes	Included in the form of a Water Forum rearing habitat proposal
	2. Maintain spawning riffle	Yes	Included in the form of a Water Forum/USBR gravel augmentation project
	3. Manage invasive vegetation	No	Not specifically modeled
	4. Develop naturalization plan for Arden Pond	Yes	USACE proposal included
	5. Improve native riparian and oak woodland communities	Yes	Included in the form of additional vegetation
	6. Remediate social trail impacts to promote native vegetation growth	Yes	Included in the form of additional vegetation
River Bend			
	1. Lower floodplain	Yes	Included in the form of a Water Forum rearing habitat proposal
	2. Improve spawning riffle	Yes	Included in the form of a Water Forum/USBR gravel augmentation project
	3. Manage invasive vegetation	No	Not specifically modeled
	4. Develop conceptual naturalization plan	Yes	Included in the form of modified topography and additional vegetation
	5. Remediate social trail impacts to promote native vegetation growth	Yes	Included in the form of additional vegetation
Sarah Court			
	1. Improve degraded riparian habitats	No	Not specifically modeled

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Ancil Hoffman			
	1. Lower floodplain	Yes	Included in the form of a Water Forum rearing habitat proposal
	2. Improve spawning riffle	Yes	Included in the form of a Water Forum/USBR gravel augmentation project
	3. Enhance native woodlands and grasslands	Yes	Included in the form of additional vegetation
	4. Improve habitat values on Carmichael Creek	Yes	Included in the form of additional vegetation
	5. Support interpretive uses at Effie Yeaw Nature Center	No	Not specifically modeled as the changes are either unlikely to affect hydraulics and/or not currently defined.
	6. Manage invasive vegetation	No	Not specifically modeled
	7. Remediate social trail impacts to promote native vegetation growth	No	Not specifically modeled
	8. Improve degraded riparian habitats	Yes	Included in the form of a Water Forum rearing habitat proposal
Rossmoor Bar			
	1. Improve spawning riffle	Yes	Included in the form of a Water Forum/USBR gravel augmentation project
	2. Protect recently planted vegetation	No	Protecting vegetation would maintain the existing condition
	3. Manage invasive vegetation	No	Not specifically modeled
	4. Improve degraded riparian habitats	Yes	Included in the form of additional vegetation
	5. Enhance woodland savanna and/or grasslands	Yes	Included in the form of additional/modified vegetation (USACE mitigation proposal)
	6. Maintain historic mine tailings for interpretive purposes	No	Maintaining mine tailings would maintain the existing condition
	7. Re-contour and improve substrate to support woody vegetation	Yes	Included in the form of modified topography and additional vegetation

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	8. Improve fallow agricultural areas with woodland savanna or grassland	Yes	Included in the form of additional/modified vegetation (USACE mitigation proposal)
	9. Remediate social trail impacts to promote native vegetation growth	Yes	Included in the form of additional vegetation
San Juan Bluffs			
	1. Manage invasive vegetation	No	Not specifically modeled
	2. Monitor bluff erosion	No	Monitoring would not change the existing condition
Sacramento Bar			
	1. Lower floodplain	Yes	Included in the form of a Water Forum rearing habitat proposal
	2. Improve spawning riffle	Yes	Included in the form of a Water Forum/USBR gravel augmentation project
	3. Maintain spawning riffle	Yes	Maintaining a spawning riffle would maintain the existing condition and therefore is not modeled
	4. Maintain lowered floodplain	Yes	Included in the form of a Water Forum/USBR gravel augmentation project
	5. Remediate social trail impacts and promote native vegetation growth	Yes	Included in the form of additional vegetation
	6. Improve degraded riparian habitats	Yes	Included in the form of additional vegetation
	7. Manage invasive vegetation	No	Not specifically modeled
	8. Develop conceptual naturalization plan for open mining pits/ponds	Yes	Included in the form of modified topography and additional vegetation
Lower Sunrise			
	1. Lower floodplain	Yes	Included in the form of a Water Forum rearing habitat proposal

Area Plan	NRMP Potential Resource Management Actions	Included in Model	Details
	2. Maintain spawning riffle	Yes	Included in the form of a Water Forum/USBR gravel augmentation project
	3. Maintain lowered floodplain	Yes	Included in the form of a Water Forum/USBR gravel augmentation project
	4. Manage invasive vegetation	No	Not specifically modeled
	5. Enhance woodland savanna and/or grasslands	Yes	Included in the form of additional vegetation
Sunrise Bluffs			
	1. Lower floodplain	Yes	Included in the form of a Water Forum rearing habitat proposal
	2. Improve spawning riffle	Yes	Included in the form of a Water Forum/USBR gravel augmentation project
	3. Manage invasive vegetation	No	Not specifically modeled
	4. Improve degraded riparian habitat	No	Not specifically modeled
	5. Monitor bluff erosion	No	Monitoring would not change the existing condition
Upper Sunrise			
	1. Lower floodplain	Yes	Included in the form of a Water Forum rearing habitat proposal
	2. Improve spawning riffle	Yes	Included in the form of a Water Forum/USBR gravel augmentation project
	3. Maintain spawning riffle	Yes	Included in the form of a Water Forum/USBR gravel augmentation project
	4. Maintain lowered floodplain	Yes	Included in the form of a Water Forum/USBR gravel augmentation project
	5. Manage invasive vegetation	No	Not specifically modeled
	6. Remediate social trail impacts and promote native vegetation growth	Yes	Included in the form of additional vegetation
	7. Develop conceptual naturalization plan for areas altered by mining		Included in the form of modified topography and increased vegetation

Area Plan	NRMP Potential Resource Management Actions	Included in Model	Details
Sailor Bar	1. Lower floodplain	Yes	Included in the form of a Water Forum rearing habitat proposal
	2. Maintain spawning riffle	Yes	Included in the form of a Water Forum/USBR gravel augmentation project
	3. Maintain lowered floodplain	Yes	Included in the form of a Water Forum/USBR gravel augmentation project
	4. Manage invasive vegetation	No	Not specifically modeled
	5. Maintain water levels at Sailor Bar-Pond for wildlife habitat	No	Maintaining water levels would not change the existing condition
	6. Improve degraded riparian habitats	Yes	Included in the form of increased vegetation
	7. Expand oak habitats in conservation and naturalization areas	Yes	Included in the form of increased vegetation
	8. Re-contour mined areas to support oak habitats	Yes	Included in the form of modified topography and increased vegetation
	9. Lower elevation of relict pools / remove gunite	No	Not specifically modeled
	10. Remediate social trail impacts and promote native vegetation growth	Yes	Included in the form of additional vegetation