

CALENDAR ITEM

C48

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08/19/15

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W 26851

W. Hall

GENERAL LEASE – PUBLIC AGENCY USE

APPLICANT:

Carmichael Water District
7837 Fair Oaks Blvd.
Sacramento, CA 95608

AREA, LAND TYPE, AND LOCATION:

Sovereign land located in the American River, between Carmichael and the city of Rancho Cordova, Sacramento County.

AUTHORIZED USE:

Removal of a 33-inch diameter abandoned water pipeline, related structures, and culvert, not previously authorized by the Commission, and the construction, use and maintenance of a 30-inch diameter water pipeline, culvert, stream restoration and bank protection.

LEASE TERM:

25 years, beginning August 19, 2015.

CONSIDERATION:

The public use and benefit; with the State reserving the right at any time to set a monetary rent if the Commission finds such action to be in the State's best interests.

SPECIFIC LEASE PROVISIONS:

At all times while construction activities are taking place, Lessee shall install warning signs at the construction sites, to provide notice to the public that construction activities are taking place and to exercise caution.

OTHER PERTINENT INFORMATION:

1. The Carmichael Water District (District) owns or has the right to use the uplands adjacent to the lease premises.
2. The American River Pipeline Conveyance Project (Project) consists of:
1) new pipeline construction beneath the American River from Carmichael to the city of Rancho Cordova; 2) old pipeline removal from

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the American River; 3) culvert replacement and bank stabilization; and 4) stream restoration along the north and south banks of the American River.

3. **New Pipeline Construction:** The new pipeline will be installed from the District's Bajamont Water Treatment Plant (WTP) to an existing Golden State Water Company (GSWC) water main located along Coloma Road near Rossmoor Drive. Approximately 1,060 feet of 30-inch-diameter high density polyethylene (HDPE) pipeline will be installed underneath the American River using horizontal directional drilling (HDD) techniques to a depth of up to 85 feet.
4. **Existing Pipeline Removal:** The existing pipeline was installed in the 1950's without prior authorization from the Commission. Although the existing pipeline was trenched below river grade at the time of initial construction, natural scouring of the river bottom has gradually exposed the pipeline, creating a potential safety hazard for those using the river. The 300 feet of exposed and buried 33-inch-diameter pipeline and associated concrete and steel structures will be removed from the American River during low water flows.
5. **Culvert Replacement and Restoration:** The existing culvert will be replaced with a bottomless 47 inch by 60 inch arch culvert approximately 150 feet long, extending approximately 70 feet beyond the location of the existing undersized culvert. Restoration activities recommended for the North Bank Restoration Area include: the removal of the existing culvert, installation of a bottomless culvert, grading of the riverbank to reduce erosion, removing the abandoned steel and concrete utility pads, and planting of native vegetation.
6. **Project components would be designed and constructed in accordance with applicable codes and industry recognized standards.** Components of the proposed Project would require general construction activities, and would include grading, trenching, demolition, and import and export of materials. Construction staging will occur on the adjacent upland parcels. Construction of project components is anticipated to begin in July 2015, and occur periodically over the course of approximately one to two years and would not occur simultaneously. In-water work will be completed by October 15th each year.

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7. Construction activities may include equipment such as a front-end loader, crane, excavator, HDD equipment and drilling fluid pumps, compaction equipment, trencher, backhoe/loader and other equipment as identified in the Mitigated Negative Declaration.
8. A Mitigated Negative Declaration, State Clearinghouse No. 2015022027, was prepared by the Carmichael Water District and adopted on April 20, 2015, for this project. The California State Lands Commission staff has reviewed the document.

A Mitigation Monitoring Program was adopted by the Carmichael Water District.
9. This activity involves lands identified as possessing significant environmental values pursuant to Public Resources Code section 6370 et seq., but such activity will not affect those significant lands. Based upon the staff's consultation with the persons nominating such lands and through the California Environmental Quality Act (CEQA) review process, it is the staff's opinion that the project, as proposed, is consistent with its use classification.

APPROVALS OBTAINED:

None

FURTHER APPROVALS REQUIRED:

U. S. Army Corps of Engineers
Central Valley Regional Water Quality Control Board
California Department of Fish and Wildlife
Central Valley Flood Protection Board

EXHIBITS:

- A. Land Description
- B. Site and Location Map
- C. Mitigation Monitoring Program

RECOMMENDED ACTION:

It is recommended that the Commission:

CEQA FINDING:

Find that a Mitigated Negative Declaration, State Clearinghouse No. 2015022027, and a Mitigation Monitoring Program were prepared by the Carmichael Water District and adopted on April 20,

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2015, for this Project and that the Commission has reviewed and considered the information contained therein.

Adopt the Mitigation Monitoring Program, as contained in Exhibit C, attached hereto.

SIGNIFICANT LANDS INVENTORY FINDING:

Find that this activity is consistent with the use classification designated by the Commission for the land pursuant to Public Resources Code section 6370 et seq.

AUTHORIZATION:

Authorize issuance of a General Lease – Public Agency Use to Carmichael Water District beginning August 19, 2015, for a term of 25 years, for the removal of a 33-inch diameter abandoned water pipeline, related structures, and culvert, not previously authorized by the Commission, and the construction, use and maintenance of a 30-inch diameter water pipeline, culvert, stream restoration and bank protection, as described in Exhibit A and shown on Exhibit B (for reference purposes only) attached and by this reference made a part hereof, consideration to be the public use and benefit, with the State reserving the right at any time to set a monetary rent as specified in the lease if the Commission finds such action to be in the State's best interests.

EXHIBIT A

W 26851

LAND DESCRIPTION

A parcel of State owned submerged land situated in the bed of the American River, lying adjacent on the right bank to Rancho San Juan patented July 9, 1880, and on the left bank to Rancho Rio De Los Americanos patented November 4, 1864, County of Sacramento, State of California and more particularly described as follows:

A 150 foot wide strip of land, lying 50 feet northeasterly and 100 feet southwesterly of the following described line:

BEGINNING at a point on the right bank of the American River which bears South 76° 33' 27" East 9801.01 feet from NGS monument "Garfield" (PID DL9167, Epoch 2010.00) having CCS83, Zone II coordinates: Northing (y) = 1992641.41 feet and Easting (x) = 6751058.96 feet; thence from said point South 50° 35' 46" East 340.00 feet to a point on the left bank of said river and the TERMINUS of described line.

The sidelines of said strip to be lengthened or shortened as to terminate at the low water mark of the right and left banks of said river.

EXCEPTING THEREFROM any portion lying landward of the low water mark of the right and left banks of said river.

END OF DESCRIPTION

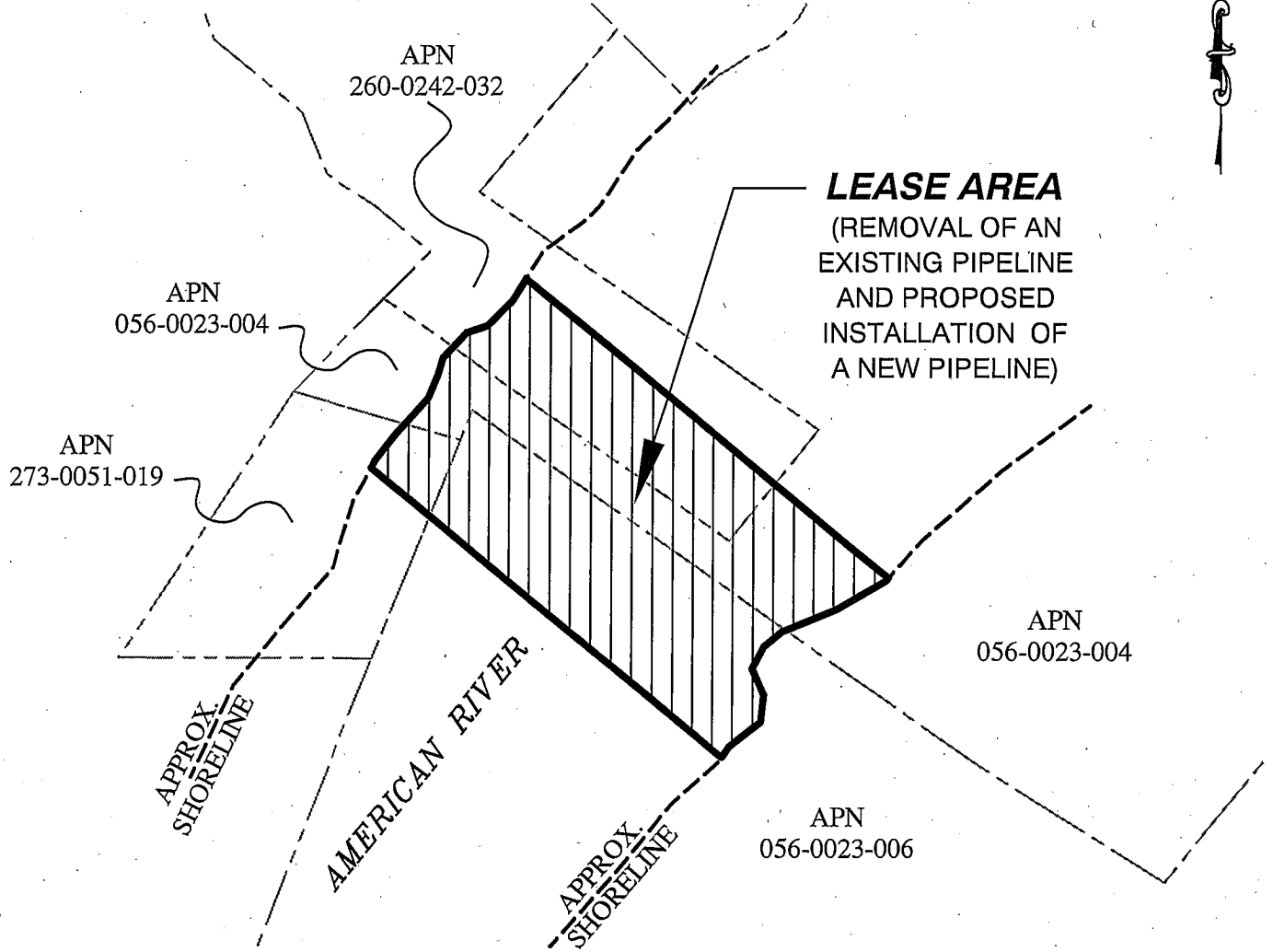
This description is based on Applicant provided design plans for a proposed pipeline, together with any and all appurtenances pertaining thereto, to be built at a later date within the Lease time frame. This description is to be updated once final as-built plans are submitted.

Prepared 04/27/15 by the California State Lands Commission Boundary Unit



NO SCALE

SITE



3501 BAJAMONT WAY, CARMICHAEL, AMERICAN RIVER

NO SCALE

LOCATION

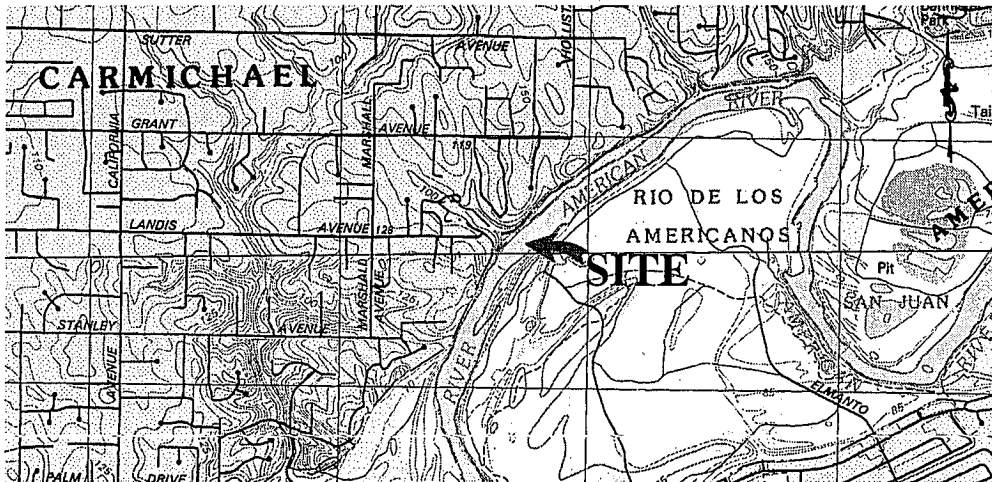


Exhibit B

W 26851
 CARMICHAEL WATER DISTRICT
 APNs 260-0242-032; 273-0051-019;
 056-0023-004 & -006
 GENERAL LEASE -
 PUBLIC AGENCY USE
 SACRAMENTO COUNTY



This Exhibit is solely for purposes of generally defining the lease premises, is based on unverified information provided by the Lessee or other parties and is not intended to be, nor shall it be construed as, a waiver or limitation of any State interest in the subject or any other property.

EXHIBIT C
CALIFORNIA STATE LANDS COMMISSION
MITIGATION MONITORING PROGRAM
AMERICAN RIVER PIPELINE CONVEYANCE PROJECT
(W26851, State Clearinghouse No. 2015022027)

The California State Lands Commission (Commission) is a responsible agency under the California Environmental Quality Act (CEQA) for the American River Pipeline Conveyance Project (Project). The CEQA lead agency for the Project is the Carmichael Water District.

In conjunction with approval of this Project, the Commission adopts this Mitigation Monitoring Program (MMP) for the implementation of mitigation measures for the portion(s) of the Project located on Commission lands. The purpose of a MMP is to discuss feasible measures to avoid or substantially reduce the significant environmental impacts from a project identified in an Environmental Impact Report (EIR) or a Mitigated Negative Declaration. State CEQA Guidelines section 15097, subdivision (a), states in part:¹

In order to ensure that the mitigation measures and project revisions identified in the EIR or negative declaration are implemented, the public agency shall adopt a program for monitoring or reporting on the revisions which it has required in the project and the measures it has imposed to mitigate or avoid significant environmental effects. A public agency may delegate reporting or monitoring responsibilities to another public agency or to a private entity which accepts the delegation; however, until mitigation measures have been completed the lead agency remains responsible for ensuring that implementation of the mitigation measures occurs in accordance with the program.

The lead agency has adopted a MMP for the whole of the Project (see Exhibit C, Attachment C-1) and remains responsible for ensuring that implementation of the mitigation measures occurs in accordance with its program. The Commission's action and authority as a responsible agency apply only to the mitigation measures listed in Table C-1 below. Any mitigation measures adopted by the Commission that differ substantially from those adopted by the lead agency are shown as follows:

- Additions to the text of the mitigation measure are underlined; and
- Deletions of the text of the mitigation measure are shown as ~~strikeout~~ or as otherwise noted.

¹ The State CEQA Guidelines are found at California Code of Regulations, Title 14, section 15000 et seq.

Table C-1. Project Impacts and Applicable Mitigation Measures.

Potential Impact	Mitigation Measure (MM) ²	Difference Between CSLC MMP and Lead Agency MMP
Biological Resources		
Woolly rose-mallow	BR-1	None.
Special-status fish	BR-3, BR-4, BR-5, & BR-6	None.
Western pond turtle	BR-7	None.
Nesting birds	BR-8 & BR-9	None.
Cultural Resources - Unanticipated discovery	CR-1, CR-2, CR-3	See addition to CR-1, below.
Geology & Soils		
Geotechnical	GS-1	None.
Erosion	GS-2	None.
Hazards & Hazardous Materials – Hazardous Spills	HM-1	None.
Hydrology and Water Quality	GS-2, BR-3, BR-4, BR-5, BR-6	None.
Transportation/Traffic – American River bike trail closures	T-2	None.

CR-1. The District shall require that, in the event of any inadvertent discovery of archaeological resources, all such finds shall be subject to PRC 21083.2 and CEQA Guidelines 15064.5. All work within 50 feet of the find will be halted until a qualified professional archaeologist can evaluate the significance of the find in accordance with NRHP and California Register of Historical Resources (CRHR) criteria. Work shall not resume in the vicinity of the find until any required mitigation has been completed.

The title to all abandoned archaeological sites, and historic or cultural resources on or in the tide and submerged lands of California is vested in the State and under the jurisdiction of the CSLC (Pub. Resources Code, § 6313). The Carmichael Water District shall consult with CSLC staff should any cultural resources on State lands be discovered during construction of the proposed Project. In addition, the final disposition of archaeological, historical, and paleontological resources recovered on State lands under the jurisdiction of the CSLC must be approved by the Commission.

² See Attachment C-1 for the full text of each MM taken from the MMP prepared by the CEQA lead agency.

ATTACHMENT C-1

**Mitigation Monitoring Program Adopted by the
Carmichael Water District**

Appendix G
Mitigation Monitoring and Reporting Plan

Mitigation Measure	Responsible Party for Monitoring / Reporting	Timing of Action	Verification (Date and Initials)
AIR QUALITY			
<p>AQ-1 The following BMPs shall be implemented by the project applicant:</p> <ul style="list-style-type: none"> ▪ Water exposed graded surfaces twice a day or as needed to address dust during construction. All material excavated, stockpiled, or graded should be sufficiently watered to prevent fugitive dust from leaving property boundaries and causing a public nuisance or a violation of an ambient air standard. ▪ Sweep streets daily (with water sweepers) if visible soil material is carried onto adjacent streets. ▪ Limit traffic speeds on unpaved roads to 15 miles per hour (mph). ▪ Suspend grading activity when winds (instantaneous gusts) exceed 25 mph. ▪ Implement adequate dust control measures in a timely and effective manner during all phases of construction. 	CWD	Construction	
BIOLOGICAL RESOURCES			
<p>BR-1 Prior to construction activities beginning within 50 feet of the south and north banks of the American River, a qualified biologist or botanist shall conduct a preconstruction survey for the woolly rose-mallow in the evident and identifiable bloom season. If no woolly rose-mallow plants are identified, no further mitigation is required. Should a woolly rose-mallow be identified within 25 feet of construction activities, the qualified biologist shall establish and flag a 25-foot no disturbance buffer around the plant(s). No equipment staging shall be allowed within the buffer.</p>	CWD	Prior to Construction	
<p>BR-2 For the protection of Valley elderberry longhorn beetle, high-visibility, orange construction fencing shall be installed along the existing road edge that will restrict access to the two elderberry shrubs that are located within the Action Area. No equipment storage or other construction activity will occur within the vicinity of the elderberry shrubs outside of the existing road.</p>	CWD	Prior to Construction	
<p>BR-3 During construction activities associated with pipeline construction beneath the American River, as well as staging and operation of equipment associated</p>	CWD	Construction	

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Mitigation Measure	Responsible Party for Monitoring / Reporting	Timing of Action	(Date and Initials)
<p>with the pipeline, the following protective measures shall be followed:</p> <ul style="list-style-type: none"> ▪ All construction activities associated with the new pipeline alignment shall occur outside of the American River channel and riparian corridor. Horizontal directional drilling shall be utilized to construct the new pipeline alignment 85 feet below the channel bottom. ▪ Avoidance measures to protect direct/indirect effects to riparian habitat shall include the establishment and maintenance of appropriate buffer zones along the adjoining riparian corridor outside the project site. Buffer zones shall be delineated using orange construction fencing. No equipment storage or other construction activity shall occur within the riparian buffer zones. ▪ A Stormwater Pollution Prevention Plan (SWPPP) utilizing best management practices (BMPs) shall be implemented to minimize the potential for sediments or other pollutants to enter aquatic habitat. ▪ A CDFW-approved frac-out contingency plan for horizontal directional drilling shall be prepared and implemented by the drilling contractor to minimize the potential for frac-out, provide early detection of frac-outs, protect aquatic resources, and provide notification to CDFW immediately if a frac-out event is observed. ▪ All equipment re-fueling and maintenance shall occur in an approved staging area outside of the riparian zone and an agency-approved spill prevention plan will implemented by the contractor. ▪ The construction of the pipeline shall require permits from USACE, Central Valley RWQCB, CDFW, and CSLC, and all terms of those permits, in addition to those specified in this BA, shall be followed. 			
<p>BR-4 During construction activities associated with culvert replacement in the unnamed drainage, the following protective measures shall be followed:</p> <ul style="list-style-type: none"> ▪ The discharge flow from the Aerojet GET LB facility will either be turned off or diverted through a temporary pipeline directly into the American River during culvert replacement, re-grading, and pool creation to prevent erosion and siltation. ▪ All equipment re-fueling and maintenance shall occur off-site or in an approved staging area outside of the riparian zone, and an agency- 	CWD	Construction	

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Mitigation Measure	Responsible Party for Monitoring / Reporting	Timing of Action	(Date and Initials)
<p>approved spill prevention plan will be implemented by the contractor.</p> <ul style="list-style-type: none"> ▪ The culvert replacement shall be covered under the SWPPP prepared for the project, and BMPs shall be implemented to minimize the potential for sediments or other pollutants to enter aquatic habitat during culvert replacement. ▪ The culvert replacement shall require permits from USACE, Central Valley RWQCB, CDFW, and CSLC, and all terms of those permits, in addition to those specified in this BA, shall be followed. 			
<p>BR-5 During construction activities associated with removal of the concrete vaults from the north bank of the American River, the following protective measures shall be followed:</p> <ul style="list-style-type: none"> ▪ Removal of the concrete vaults shall occur between September 1 and October 15, when the flows in the American River are at their lowest seasonal levels (typically between 500 and 1,500 cfs) and after Central Valley steelhead egg and fry life stages are completed. ▪ Bank stabilization measures shall be implemented immediately after removal of the concrete vaults to prevent erosion. These measures include, but are not limited to, grading to reduce the bank gradient, installation of erosion blankets, and re-vegetating with native riparian plant species. ▪ All equipment re-fueling and maintenance shall occur off-site or in an approved staging area outside of the riparian zone, and an agency-approved spill prevention plan will be implemented by the contractor. ▪ The concrete vault removal shall be covered under the SWPPP prepared for the project, and BMPs shall be implemented to minimize the potential for sediments or other pollutants to enter aquatic habitat during vault removal. ▪ The removal of the concrete vaults shall require permits from USACE, Central Valley RWQCB, CDFW, and CSLC, and all terms of those permits, in addition to those specified in this BA, shall be followed. 	CWD	Construction	
<p>BR-6 During removal of the abandoned pipeline across the American River, the following protective measures shall be followed:</p>	CWD	Construction	

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Mitigation Monitoring and Reporting Plan**

Mitigation Measure	Responsible Party for Monitoring / Reporting	Timing of Action	(Date and Initials)
<ul style="list-style-type: none"> ▪ Removal of the existing pipeline shall occur between September 1 and October 15, when the flows in the American River are at their lowest seasonal levels (typically between 500 and 1,500 cfs) and after Central Valley steelhead egg and fry life stages are completed and therefore will not be adversely affected by removal of the existing pipeline. ▪ Consultation with NMFS, CDFW, and the Central Valley RWQCB shall occur to determine the BMPs required to minimize disturbance and mobilization of sediment during the abandoned pipeline removal. BMPs may include but are not limited to moveable silt or sediment containment curtains and coffer dams. ▪ The abandoned pipeline shall be cut where it emerges from the banks and will either be lifted by crane or chained and dragged from the river channel from the staging area on the south bank. Similarly, nearshore concrete debris will be lifted by crane or dragged from the river channel from staging areas on the north and south banks. To the extent feasible, no equipment will be operated within the wetted channel. To help ensure that work in the immediate vicinity of the bank does not result in sediment discharge into the American River, coffer dams may be utilized during the pipeline and debris removal activities. ▪ A qualified biological monitor shall be present on-site during the pipeline removal. ▪ All equipment re-fueling and maintenance shall occur off-site or in an approved staging area outside of the riparian zone, and an agency-approved spill prevention plan will be implemented by the contractor. ▪ The pipeline removal shall be covered under the SWPPP prepared for the project, and BMPs shall be implemented to minimize the potential for sediments or other pollutants to enter aquatic habitat during pipeline removal. ▪ The removal of the abandoned pipeline shall require permits from USACE, Central Valley RWQCB, CDFW, and CSLC, and all terms of those permits, in addition to those specified in this BA, shall be followed. 			

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Mitigation Measure	Responsible Party for Monitoring / Reporting	Timing of Action	(Date and Initials)
<p>BR-7 A qualified biologist shall conduct a preconstruction survey for western pond turtle within 14 days prior to commencement of construction activities anticipated to occur within 100 feet from riparian vegetation adjacent to the American River and unnamed drainage along the north bank. Prior to commencement of daily construction activities within a 100-foot buffer of riparian vegetation adjacent to the American River and unnamed drainage, a qualified biologist shall conduct a preconstruction survey for western pond turtle. If western pond turtle is present, the biologist shall move the species from the work site before work activities begin. A biological monitor shall be present during construction activities within a 100-foot buffer of riparian vegetation surrounding the American River and unnamed drainage. The western pond turtle may take refuge in cavity-like and den-like structures such as pipes and may enter stored pipes and become trapped; therefore, all construction pipes, culverts, or similar structures that are stored at the construction site for one or more overnight periods shall be either securely capped prior to storage or thoroughly inspected by the biological monitor for these animals before the pipe is subsequently buried, capped, or otherwise used or moved.</p>	CWD	Prior to Construction	
<p>BR-8 If tree and shrub trimming/ removal activities are conducted during the breeding seasons of any migratory birds (generally between late May and August), a qualified biologist shall conduct a preconstruction survey within 14 days prior to commencement of any construction activities to determine if active nests are present. A report shall be prepared and submitted to the Carmichael Water District following the preconstruction survey to document the results. If surveys show that there is no evidence of nests, then no additional mitigation will be required provided construction commences within 14 days prior to the preconstruction survey.</p>	CWD	Construction	
<p>BR-9 Following a preconstruction nesting bird survey, if any active nests of cuckoos or other migratory birds are located within the vicinity of the Action Area, a no-disturbance buffer zone shall be established around the nests to avoid disturbance or destruction of the nest. The distance around the no-disturbance buffer shall be determined by the biologist in coordination with USFWS and CDFW and will depend on the level of noise or construction</p>	CWD	Prior to Construction	

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Mitigation Measure	Responsible Party for Monitoring / Reporting	Timing of Action	(Date and Initials)
activity, the level of ambient noise in the vicinity of the nest, and line-of-sight between the nest and disturbance. The biologist shall delimit the buffer zone with construction tape or pin flags. The no-disturbance buffer will remain in place until after the nesting season (to be lifted August-September) or until the biologist determines that the young birds have fledged. A report shall be prepared and submitted to the Carmichael Water District, USFWS, and CDFW following the fledging of the nestlings to document the results.			
CULTURAL RESOURCES			
CR-1 The District shall require that, in the event of any inadvertent discovery of archaeological resources, all such finds shall be subject to PRC 21083.2 and CEQA Guidelines 15064.5. All work within 50 feet of the find will be halted until a qualified professional archaeologist can evaluate the significance of the find in accordance with NRHP and California Register of Historical Resources (CRHR) criteria. Work shall not resume in the vicinity of the find until any required mitigation has been completed.	CWD	Construction	
CR-2 If vertebrate fossils are discovered during project activities, all work shall cease within 100 feet of the find until a qualified professional paleontologist as defined by the Society of Vertebrate Paleontology's Conformable Impact Mitigation Guidelines Committee (2011) can assess the nature and importance of the find and recommend appropriate treatment. The District will also be notified of the discovery and the qualified professional paleontologist's opinion within 48 hours of the initial finding. Treatment may include preparation and recovery of fossil materials, so that they can be housed in an appropriate museum or university collection, and also may include preparation of a report for publication describing the finds. Project activities shall not resume until after the qualified professional paleontologist has given clearance and evidence of such clearance has been submitted to the District.	CWD	Construction	
CR-3 If human remains are uncovered, compliance with Section 15064.5 (e) (1) of the CEQA Guidelines and Public Resources Code Section 7050.5 will be required. All project-related ground disturbances within 100 feet of the find shall be halted until the Sacramento County coroner has been notified in accordance with California Health and Safety Code Section 7050. If the	CWD	Construction	

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Mitigation Measure	Responsible Party for Monitoring / Reporting	Timing of Action	(Date and Initials)
coroner determines that the remains are Native American, the coroner will ask the NAHC to identify a Most Likely Descendant, who will work with the construction contractor, agency officials, and a qualified professional archaeologist to determine an appropriate avoidance strategy or other treatment plan. Project-related ground disturbance in the vicinity of the find shall not resume until the process detailed in Section 15064.5 (e) has been completed.			
GEOLOGY AND SOILS			
GS-1 The project applicant shall comply with all recommendations contained within the site-specific Geotechnical Investigation conducted by Kleinfelder (2014) and attached here as Appendix C.	CWD	Construction	
GS-2 The District shall comply with the SWRCB NPDES General Permit. The SWRCB requires that all construction sites have adequate control measures to reduce the discharge of sediment and other pollutants to streams to ensure compliance with Section 303 of the CWA. To comply with the NPDES permit, the District shall file a Notice of Intent with the SWRCB and prepare a SWPPP prior to construction, which includes a detailed, site-specific listing of the potential sources of stormwater pollution; pollution prevention measures (erosion and sediment control measures and measures to control non-stormwater discharges and hazardous spills) including a description of the type and location of erosion and sediment control BMPs to be implemented at the project site; and a BMP monitoring and maintenance schedule to determine the amount of pollutants leaving the Proposed Project site. A copy of the SWPPP must be current and remain on the project site. Control measures are required prior to and throughout the rainy season. Water quality BMPs identified in the SWPPP could include, but are not limited to, the following: <ul style="list-style-type: none"> ▪ Areas where ground disturbance would occur shall be identified in advance of construction and limited to only approved areas. ▪ All equipment maintenance and cleaning shall be confined to staging areas. See Figure 3 for the location of potential staging areas. ▪ All supervisory construction personnel shall be informed of environmental 	CWD	Construction	

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Mitigation Measure	Responsible Party for Monitoring / Reporting	Timing of Action	(Date and Initials)
<p>concerns, permit conditions, and final project specifications. Said personnel will be responsible for instructing all on-site work to meet the requirements of the SWPP including making sure all work is conducted outside of protected trees' drip lines to the extent possible.</p> <ul style="list-style-type: none"> ▪ Restore disturbed areas to pre-construction contours to the fullest extent possible. ▪ Temporary erosion control measures (such as silt fences, staked straw bales, and temporary revegetation) shall be employed for disturbed areas. ▪ Salvage, store, and use the highest quality soil for native re-vegetation/seeding. ▪ Leave drainage gaps in topsoil and spoil piles to accommodate surface water runoff. ▪ Sediment control measures shall be in place prior to the onset of the rainy season and will be maintained until disturbed areas have been re-vegetated. Erosion control structures must be in place and operational at the end of each day if work activities are to occur during the rainy season. ▪ Fiber rolls shall be placed along the perimeter of disturbed areas to ensure sediment and other potential contaminants of concern are not transported off-site or to open trenches. Locations of fiber rolls will be field adjusted as needed and according to the advice of the certified SWPPP inspector. ▪ Vehicles and equipment stored in the construction staging area shall be inspected regularly for signs of leakage. Leak-prone equipment will be staged over an impervious surface or other suitable means will be provided to ensure containment of any leaks. Vehicle/equipment wash waters or solvents will not be discharged to surface waters or drainage areas. ▪ During the wet season (October 1 through April 30) identified in Section 11 of the Sacramento County Improvement Standards, soil stockpiles and material stockpiles will be covered and protected from the wind and precipitation. Plastic sheeting will be used to cover the stockpiles and straw wattles will be placed at the base for perimeter control. 			

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Mitigation Measure	Responsible Party for Monitoring / Reporting	Timing of Action	(Date and Initials)
<ul style="list-style-type: none"> ▪ All contractors shall immediately control the source of any leak and immediately contain any spill utilizing appropriate spill containment and countermeasures. All leaks and spills shall be reported to the designated representative of the lead contractor and shall be evaluated to determine if the spill or leak meets mandatory SWPPP reporting requirements. Contaminated media shall be collected and disposed of at an off-site facility approved to accept such media. ▪ Construction activities shall be scheduled to minimize land disturbance during peak runoff periods and to the immediate area required for construction. Soil conservation practices shall be completed during the fall or late winter to reduce erosion during spring runoff. Existing vegetation will be retained where possible. To the extent feasible, grading activities shall be limited to the immediate area required for construction. ▪ Topsoil removed during construction shall be carefully stored and treated as an important resource. Berms shall be placed around topsoil stockpiles to prevent runoff during storm events. ▪ Disturbed areas will be re-vegetated after completion of construction activities. 			
HAZARDS & HAZARDOUS MATERIALS			
<p>HM-1 Personnel shall follow written Standard Operating Procedures (SOPs) for filling and servicing construction equipment and vehicles. The SOPs, which are designed to reduce the potential for incidents involving hazardous materials, shall include the following:</p> <ul style="list-style-type: none"> ▪ Refueling shall be conducted only with approved pumps, hoses, and nozzles; ▪ Catch pans shall be placed under equipment to catch potential spills during servicing; ▪ All disconnected hoses shall be placed in containers to collect residual fuel from the hose; ▪ Vehicle engines shall be shut down during refueling; 	CWD	Construction	

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Mitigation Monitoring and Reporting Plan**

Mitigation Measure	Responsible Party for Monitoring / Reporting	Timing of Action	(Date and Initials)
<ul style="list-style-type: none"> ▪ No smoking, open flames, or welding shall be allowed in refueling or service areas; ▪ Refueling shall be performed away from bodies of water to prevent contamination of water in the event of a leak or spill; ▪ Service trucks shall be provided with fire extinguishers and spill containment equipment, such as absorbents; ▪ Should a spill contaminate soil, the soil shall be put into containers and disposed of in accordance with local, State, and Federal regulations; ▪ All containers used to store hazardous materials shall be inspected at least once per week for signs of leaking or failure. All maintenance and refueling areas shall be inspected monthly. Results of inspections shall be recorded in a logbook that would be maintained on site; and ▪ The amount of hazardous materials used in project construction and operation shall be consistently kept at the lowest volumes needed. 			
HM-2 If suspected soil contamination is encountered during excavation, all work shall be halted and a qualified individual, in consultation with the RWQCB, shall determine the appropriate course of action.	CWD	Construction	
HM-3 During construction, staging areas, welding areas, or areas slated for development using spark-producing equipment shall be cleared of dried vegetation or other materials that could serve as fire fuel. To the extent feasible, the contractor shall keep these areas clear of combustible materials in order to maintain a firebreak.	CWD	Construction	
HM-4 Any construction equipment that normally includes a spark arrester shall be equipped with an arrester in good working order. This includes, but is not limited to, vehicles and heavy equipment.	CWD	Construction	
NOISE			
N-1 On the north bank of the American River (in Sacramento County), construction shall only occur between the hours of 6 a.m. and 8 p.m. Monday through Friday, and 7 a.m. to 8 p.m. on Saturday and Sunday. On the south bank portion of the project site (in the City of Ranch Cordova), construction activities shall be limited to the hours of 7:00 a.m. to 7:00 p.m. weekdays and	CWD	Construction	

**Appendix G
Mitigation Monitoring and Reporting Plan**

Mitigation Measure	Responsible Party for Monitoring / Reporting	Timing of Action	Verification (Date and Initials)
8:00 a.m. to 6:00 p.m. weekends.			
N-2 Construction contractors shall use power construction equipment with state-of-the-art noise muffling devices. All internal combustion engines used on the project site shall be equipped with adequate mufflers and shall be in good mechanical condition to minimize noise created by faulty or poor maintained engines or other components.	CWD	Construction	
N-3 Construction contractors shall locate stationary noise generating equipment as far as possible from sensitive receptors. Staging areas shall be located a minimum of 200 feet from noise sensitive receptors, such as residential uses.	CWD	Construction	
TRANSPORTATION/TRAFFIC			
T-1 The District shall obtain an Encroachment Permit from the City of Rancho Cordova Public Works Department prior to project construction that will result in lane closures of any public roads. The Applicant shall abide by the terms of the permit, including the requirements for preparation of a traffic control plan.	CWD	Construction	
T-2 If construction equipment or construction activities will impede access on the American River Bike Trail, result in temporary closures, or otherwise affect the safety of cyclists and pedestrians in the area, the District shall provide signage and alternative routes, if appropriate, to ensure the safety of cyclists and pedestrians.	CWD	Construction	