

2. EXECUTIVE SUMMARY

2.1 INTRODUCTION

The Executive Summary chapter of the EIR provides an overview of the proposed project (see Chapter 3, Project Description, for further details), a summary of the conclusions of the environmental analysis provided in Chapters 4.1 through 4.12, Chapter 5, and a summary of the project alternatives. This chapter also includes a summary of areas of controversy known to the County, issues to be resolved, a summary of the regulatory/policy consistency analysis provided in the EIR, and a list of all significant and unavoidable impacts identified in the EIR. Table 2-1 summarizes the environmental impacts associated with the proposed project, the significance of the impacts, the proposed mitigation measures for the impacts, and the significance of the impacts after implementation of the mitigation measures.

2.2 SUMMARY DESCRIPTION OF THE PROPOSED PROJECT

Teichert Materials has submitted an application to Yolo County to conduct mining and reclamation activities on the Shifler property south of Cache Creek and west of the City of Woodland. This project is known as the Teichert Shifler Mining and Reclamation project. The requested approval would be a discretionary action by Yolo County. As such, the County is the lead agency under CEQA, responsible for the preparation of this Draft EIR. The proposed project is located within the boundaries of the Cache Creek Area Plan (CCAP) adopted by the Board of Supervisors in 1996, and most recently updated in 2019. The project must comply with the requirements of this program, including all relevant components of adopted plans and regulations. The key proposed elements of this project are as follows: 1) relocation of a segment of Moore Canal to the northerly portion of the site and modification of Magnolia Canal to align with the relocated Moore Canal; 2) transfer of tonnage from the Teichert Esparto and Teichert Schwarzgruber operation to the Teichert Shifler operation; 3) continued operation and expansion of the Teichert Woodland Plant facilities (including new equipment and increased processing capacity); 4) excavation at the Shifler site; 5) reclamation of the Shifler site; 6) delayed reclamation at Woodland Plant site; 7) dedication of various reclaimed properties to the County; and 8) completion of an in-channel gravel bar removal project.

The project site consists of approximately 319.3 acres located three miles west of the City of Woodland in unincorporated Yolo County, California. The site contains all or portions of four parcels identified by Assessor's Parcel Numbers (APNs) 025-120-032, 025-120-033, 025-430-001, and 025-430-002. The four Shifler property parcels in their entirety total approximately 442.4 acres. However, the portions of the Shifler property within the Cache Creek channel and on Monument Hill have been excluded from the project site for the purpose of this analysis because no disturbance is proposed to those portions of the Shifler property. Thus, the 319.3-acre project site is limited to the proposed 277.1-acre mining area and surrounding areas needed for the proposed relocation/realignment of Moore Canal, setbacks, visual screening, noise and safety berms, aggregate conveyors, access roads, and other project-related uses.

The central and southern portions of the project site consist primarily of actively managed agricultural land. Crops planted at the site over the past decade have included wheat, alfalfa, tomatoes, cucumbers, canola, sunflower, and safflower. Most of the project site (APNs 025-120-



032 and 025-430-002) was subject to a Williamson Act contract that expired at the end of January 2016. The northern portion of the site consists of scattered oak trees and ruderal grassland vegetation, as well as an electric conveyor and associated gravel road formerly used to transport mined aggregate from the Teichert Storz mining site to the Woodland Plant located north of the project site. Moore Canal, a concrete-lined water conveyance structure owned and operated by the Yolo County Flood Control and Water Conservation District (YCFCWCD), bisects the central portion of the site from west to east. The Yolo County General Plan designates the site as Agriculture (AG), with a portion also designated Mineral Resource Overlay (MRO). The site is zoned Agriculture Intensive (A-N).

The proposed project would allow for mining on 277.1 acres of the 319.3-acre project site. All of the proposed mining area would be off-channel and set back more than 200-feet from Cache Creek. The project proposes relocation of Moore Canal to an alignment along the western and northern boundary of the project site. Relocation would occur prior to commencement of mining within 50 feet of the canal. The relocated Moore Canal would be concrete-lined and have an access road on each side for periodic maintenance by the YCFCWCD. Aggregate mined from the project site would be processed at the existing Woodland Plant located northeast of the site. Two over-crossings of the relocated Moore Canal would be constructed to facilitate the transport of aggregate by conveyor to the Woodland Plant site and to allow mining equipment to access the project site from the Woodland Plant site. Topsoil or “overburden” would be removed and stockpiled. The marketable sand and gravel deposits below would be continuously loaded and hauled to the plant by conveyor.

Following mining activities, approximately 117 acres of the mining area would be reclaimed to agricultural use, approximately 113 acres to lake, and the remaining 47.5 acres to grasslands and riparian habitat.

The proposed project would require County approval of the following:

- General Plan Amendment (GPA) to extend the MRO over the entire project site;
- Rezone to add a Sand and Gravel Overlay (SG-O) over the entire project site;
- Mining Permit (30-year Off-Channel Surface Mining Permit) for new excavation site, and continued operation at the Woodland Plant site;
- Transfer of annual permitted tonnage allocation from the Teichert Schwarzgruber and Teichert Esparto projects to the Teichert Shifler project;
- Reclamation Plan;
- Approval of 20 percent exceedance of annual production limits under County Code Section 10.4-405;
- Streambank Stabilization Plan; and
- Development Agreement.

In addition, the project would require the following approvals/permits from other agencies:

- Approval of the proposed Moore Canal relocation (YCFCWCD Board of Directors)
- Clean Water Act Section 404 Permit (U.S. Army Corps of Engineers)
- Clean Water Act Section 401 Water Quality Certification (Central Valley RWQCB)
- Waste Discharge Requirements (WDRs) for use of sediment fines from the Woodland Plant site for reclamation of the project site (Central Valley RWQCB)



- SMARA Compliance Review (California Department of Conservation, Division of Mine Reclamation)
- Permit to Plug Abandoned Gas Well (California Department of Conservation, Division of Oil, Gas, and Geothermal Resources)
- Well Abandonment Permit from Yolo County Environmental Health

Please refer to Chapter 3, Project Description, of this EIR for a detailed description of the proposed project and entitlements, as well as a list of the applicant's project objectives.

2.3 ENVIRONMENTAL IMPACTS AND PROPOSED AND RECOMMENDED MITIGATION

A summary of the impacts identified in the impact analysis sections of the EIR is presented in Table 2-1. In addition, Table 2-1 includes the level of significance of each impact, mitigation measures identified for each impact, and the resulting level of significance after implementation of mitigation measures for each impact.

2.4 SUMMARY OF PROJECT ALTERNATIVES

The following section presents a summary of the evaluation of the alternatives considered for the proposed project, which include the following:

- No Project Alternative: This alternative assumes that applicant will finish mining out their operations at the Esparto and Schwarzgruber sites, followed by closure and reclamation of the two plant sites. The proposed excavation on the Shifler site would not occur at this time, and the site would remain in its current condition;
- Off-Site Alternative: Under this Alternative, mining and reclamation activities that are currently proposed for the project site would instead occur on other off-site lands within the Cache Creek Area Plan area that are currently zoned SGRO. Mined aggregate would be hauled to the Woodland Plant for processing; and
- Reduced Tonnage Alternative: This alternative assumes the existing annual permitted tonnage allocation associated with the Teichert Esparto operation would not be transferred to the Teichert Shifler operation. Thus, the Alternative would be limited to a maximum of total of 1.4 million tons mined (1.2 million tons sold) in any given year.
- Moore Canal Avoidance Alternative: This alternative assumes that mining and reclamation would commence as proposed except that the relocation of Moore Canal would not occur.
- Moore Canal Southern Alternative: This alternative assumes that mining and reclamation would commence as proposed except that Moore Canal would be relocated to the southern border of the project site rather than the northern border.

For a more thorough discussion of project alternatives, please refer to Chapter 6, Alternatives Analysis.

Environmentally Superior Alternative

As detailed in Chapter 6, Alternatives, the Moore Canal Southern Alignment Alternative would result in reduced impacts compared to the proposed project, meet all the project objectives, and would be considered the Environmentally Superior Alternative.



2.5 AREAS OF CONTROVERSY

CEQA Guidelines Section 15123(b)(2) requires a discussion of areas of controversy known to the lead agency, including issues raised by agencies and the public. The following areas of controversy have been identified.

- Approval of new mining site at this location;
- Impacts to agricultural land;
- Consideration of Tribal Cultural Resources;
- Analysis of potential for adverse impacts in CEQA impact areas, especially noise and vibration, aesthetics, air quality and odor, traffic and access, hydrology and water quality, and others;
- Proximity to Wild Wings subdivision;
- Effects on property values;
- Effects on quality of life for residents in the area;
- Hours of operation;
- Transfer of tonnage allocation from Esparto to Shifler;
- Relocation of the Moore Canal;
- Effects on Monument Hills Memorial Park cemetery;
- Success of approved and proposed reclamation; and
- Security and crime associated with reclamation.

2.6 ISSUES TO BE RESOLVED

CEQA Guidelines Section 15123(b)(3) require a discussion of issues to be resolved, including a choice of alternatives and whether or how to mitigate the significant effects of the proposed action. The primary issues to be resolved for this project include the issues raised above, whether or not to approve the project, consideration of identified mitigation measures, identification of appropriate conditions of operation, and identification and acceptance of “net gains”.

2.7 SUMMARY OF REGULATORY/POLICY CONSISTENCY

Section 15125(d) of the CEQA Guidelines requires that EIRs include a discussion of any inconsistencies between the proposed project and applicable general plans, specific plans, and regional plans. A number of plans and regulations apply to the proposed actions including, but not limited to, the Surface Mining and Reclamation Act, the Yolo County General Plan, the County Zoning Ordinance, the CCAP, and the Surface Mining and Reclamation Ordinance (SMRO). Chapters 4.1 through 4.12 of this EIR includes an analysis of the proposed project’s consistency with applicable policies and regulations specific to each resource area.

2.8 SIGNIFICANT AND UNAVOIDABLE IMPACTS

According to CEQA Guidelines, an EIR must include a description of those impacts identified as significant and unavoidable should the proposed action be implemented (CEQA Guidelines §15126.2(b)). Such impacts would be considered unavoidable when the determination is made that either mitigation is not feasible or only partial mitigation is feasible such that the impact is not reduced to a level that is less-than-significant. This section identifies significant impacts that could not be eliminated or reduced to a less-than-significant level by mitigations imposed by the County. The final determination of the significance of impacts and the feasibility of mitigation measures would be made by the County as part of the County’s certification action. The significant and



unavoidable impacts of the proposed project are listed below. A complete analysis of the significant and unavoidable impacts can be found in Chapters 4.2, 4.5, 4.12, and 5 of this EIR.

- 4.2-1 Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance, as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use.
- 4.5-1 Cause a substantial adverse change in the significance of a historical resources as defined in Section 15064.5.
- 4.5-4 The project has the potential to eliminate important examples of the major periods of California history or prehistory.
- 4.12-2 Conflict or be inconsistent with CEQA Guidelines Section 15064.3, subdivision (b).
- 5-2 Cumulative impacts to farmland.
- 5-14 Cumulative impacts to transportation and circulation.



**Table 2-1
 Summary of Impacts and Mitigation Measures**

| Impact | Level of Significance Prior to Mitigation | Mitigation Measures | Level of Significance After Mitigation |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|-----------------------|----------------------------------------|
| 4.1 Aesthetics | | | |
| 4.1-1 Have a substantial adverse effect on a scenic vista. | LS | <i>None required.</i> | N/A |
| 4.1-2 Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a State scenic highway. | LS | <i>None required.</i> | N/A |
| 4.1-3 In a non-urbanized area, would the project substantially degrade the existing visual character or quality of public views of the site and its surroundings (public views are those that are experienced from publicly accessible vantage point). | LS | <i>None required.</i> | N/A |
| 4.1-4 Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area. | LS | <i>None required.</i> | N/A |
| 4.1-5 Cause a significant environmental impact due to a conflict with applicable plans, policies, or regulations adopted for the purpose of | LS | <i>None required.</i> | N/A |

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| avoiding or mitigating impacts to aesthetics. | | | |
| 4.2 Agricultural Resources | | | |
| 4.2-1 Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance, as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use. | S | 4.2-1 <i>The applicant shall complete the following, subject to approval by the County. Item a) shall be completed in accordance with the approved reclamation plan and conditions of approval. Items b) and c) shall be completed prior to the commencement of mining activity on any Prime Farmlands, Unique Farmlands, or Farmland of Statewide Importance:</i> <ul style="list-style-type: none"> a) <i>Reclaim 116.7 acres of Prime Farmland onsite, equivalent in quality and capacity to existing Prime Farmland permanently converted as a result of the project.</i> b) <i>Establish a permanent agricultural conservation easement on 452.4 acres (267.50 disturbed acres – 116.7 reclaimed acres, at a 3:1 ratio) of equivalent or better (in quality and capability) Prime Farmland compliant with the requirements in County Code Sections 8-2.404(d) and Section 8-2.404(e), (f) and (g). The total acreage placed in permanent easement may be reduced to a minimum of 150.8 acres (267.50 disturbed acres – 116.7 reclaimed acres at a 1:1 ratio) in accordance with Sections 8-2404(d) or 10-5.525(a), (b), (c), or (d), provided the total acreage is determined to be equivalent to the</i> | SU |

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| | | <p><i>applicable ratio and acreage required under Section 8-2.404. The proposal and the substantiation in support of finding equivalency shall be provided in writing by the applicant, for review by staff and acceptance by the Board of Supervisors. The County may in its discretion approve phasing of the required easement so long as mitigation is satisfied prior to or coincident with impacts to Prime Farmland.</i></p> <p>c) <i>Establish a permanent agricultural conservation easement on 17.5 acres (0.5 acres + 8.25 acres, at a 2:1 ratio) of equivalent or (in quality and capability) better Farmland of Statewide Importance and Unique Farmland compliant with the requirements in County Code Sections 8-2.404(d) and 8-2.404(e), (f), and (g). The total acreage placed in permanent easement may be reduced to a minimum of 8.75 acres (0.50 acres + 8.25 acres, at a 1:1 ratio) in accordance with Sections 8-2.404(d) or 10-5.525(a), (b), (c), or (d), provided the total acreage is determined to be equivalent to the applicable ratio and acreage required under Section 8-2.404. The proposal and the substantiation in support of finding equivalency shall be provided in writing by the applicant, for review by staff and acceptance by the Board of Supervisors. The County may in its discretion approve phasing of the required easement so long as mitigation is satisfied prior</i></p> | |

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| | | <i>to or coincident with impacts to Farmland of Statewide Importance and Unique Farmland.</i> | |
| 4.2-2 Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland to non-agricultural use. | LS | <i>None required.</i> | N/A |
| 4.2-3 Cause a significant environmental impact due to a conflict with any applicable plans, policies, or regulations adopted for the purpose of avoiding or mitigating impacts to agricultural resources. | LS | <i>None required.</i> | N/A |
| 4.3 Air Quality, Greenhouse Gas Emissions, and Energy | | | |
| 4.3-1 Conflict with or obstruct implementation of the applicable air quality plan. | LS | <i>None required.</i> | N/A |
| 4.3-2 Expose sensitive receptors to substantial pollutant concentrations. | LS | <i>None required.</i> | N/A |
| 4.3-3 Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people. | LS | <i>None required.</i> | N/A |
| 4.3-4 Result in potentially significant environmental | LS | <i>None required.</i> | N/A |

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| impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation. | | | |
| 4.3-5 Conflict with or obstruct a state or local plan for renewable energy or energy efficiency. | LS | <i>None required.</i> | N/A |
| 4.3-6 Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is in non-attainment under an applicable federal or state ambient air quality standard. | LCC | <i>None required.</i> | N/A |
| 4.3-7 Generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment. | CC | 4.3-7 <i>Prior to initiation of mining activity at the Shifler mining site, the project applicant shall submit, for review and approval, a Greenhouse Gas Reduction Plan (GHGRP) to the Yolo County Department of Community Services. In order to demonstrate that implementation of the proposed project would not result in a net increase in GHG emissions from baseline conditions, the GHGRP shall demonstrate how operational emissions of the proposed project would be reduced by at least 1,887.84 MTCO₂e/yr. Strategies to achieve emissions reductions may include, but are not limited to, the following:</i> | LCC |

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| | | <ul style="list-style-type: none"> • Replacement of existing fossil fueled equipment with hybrid or electrically powered equipment; • Installation of additional renewable energy systems on-site; • Purchase of an increased proportion of electricity from renewable sources; • Purchase carbon credits to offset Project annual emissions. Carbon offset credits shall be verified and registered with The Climate Registry, the Climate Action Reserve, or another source approved by CARB, YSAQMD, or Yolo County. <p><i>If purchase of off-site mitigation credits is selected as a means of meeting the requirements of this mitigation measure, purchase of off-site mitigation credits shall be negotiated with the County and YSAQMD at the time that credits are sought. Off-site mitigation credits purchased as part of this mitigation measure shall be real, quantifiable, permanent, verifiable, enforceable, and additional, consistent with the standards set forth in Health and Safety Code section 38562, subdivisions (d)(1) and (d)(2). Such credits shall be based on protocols that are consistent with the criteria set forth in subdivision (a) of Section 95972 of Title 17 of the California Code of Regulations, and shall not allow the use of offset projects originating outside of California, except to the extent that the quality of the offsets, and their sufficiency under the standards set forth herein, can</i></p> | |

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| | | <i>be verified by Yolo County and/or the YSAQMD. The credits must be purchased through one of the following: (i) a CARB-approved registry, such as the Climate Action Reserve, the American Carbon Registry, and the Verified Carbon Standard; (ii) any registry approved by CARB to act as a registry under the California Cap and Trade program; or (iii) through the CAPCOA GHG Rx and the YSAQMD.</i> | |
| 4.3-8 Conflict with an applicable plan, policy or regulation of an agency adopted for the purpose of reducing the emissions of GHGs. | CC | 4.3-8 <i>Within the first three years of initiation of mining activity at the Shifler Project site, the project applicant shall submit to the County an Electric Vehicle Parking Plan for the Woodland Plant, that shall specify the number and location of electric vehicle charging installations.</i> | LCC |
| 4.3-9 Cause a significant environmental impact due to a conflict with applicable plans, policies, or regulations adopted for the purpose of avoiding or mitigating impacts to air quality, GHG emissions, and energy. | LS | <i>None required.</i> | N/A |
| 4.4 Biological Resources | | | |
| 4.4-1 Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or | S | <i>VELB</i> 4.4-1(a) <i>Prior to initiation of any ground-disturbing activities at the project site, the project applicant shall obtain coverage under the Yolo HCP/NCCP, remit payment of any applicable Yolo HCP/NCCP fees, and</i> | LS |

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| <p>special-status species in local or regional plans, policies, or regulations, or by the CDFW or USFWS.</p> | | <p><i>implement all applicable Yolo HCP/NCCP Avoidance and Minimization Measures (AMMs). Proof of payment of HCP/NCCP coverage and fee payment shall be submitted to the County. This requirement may be satisfied by the execution of an agreement with the Yolo Habitat Conservancy, which could include, at the discretion of the YHC, phased payment of fees consistent with phased project approvals.</i></p> <p>4.4-1(b) <i>The project applicant shall implement Yolo HCP/NCCP AMM-12 (Minimize Take and Adverse Effects on Habitat of Valley Elderberry Longhorn Beetle) to the satisfaction of the County and the YHC.</i></p> <p><i>Western Pond Turtle</i></p> <p>4.4-1(c) <i>Implement Mitigation Measure 4.4-1(a), which mitigates for the loss of habitat for the Western Pond Turtle by funding the acquisition of suitable habitat easements through the Yolo HCP/NCCP.</i></p> <p>4.4-1(d) <i>The project applicant shall implement Yolo HCP/NCCP AMM-14 (Minimize Take and Adverse Effects on Habitat of Western Pond Turtle) to the satisfaction of the County and the YHC. In addition, prior to demolition and grading activities associated with the existing alignment of Moore Canal and Magnolia Canal, the existing on-site sections of each canal that are to be abandoned or disturbed shall be</i></p> | |

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| | | <p><i>surveyed in order to confirm that no Western pond turtles have become stranded. Should Western pond turtles be found within the portions of Moore Canal or Magnolia Canal that are to be abandoned or disturbed, the turtles shall be physically moved by a qualified biologist in compliance with the guidance provided in AMM-14.</i></p> <p><i>Northern Harrier and Short-Eared Owl</i> 4.4-1(e) <i>The project applicant shall not initiate project-related vegetation removal or earthmoving within 500 feet of the nearest potential nesting tree during the nesting season (February 15 through August 31). All initial project-related vegetation removal and earthmoving removal shall occur between September 1 and February 14 to the maximum extent feasible.</i></p> <p><i>Alternatively, if project-related vegetation removal or earthmoving is required within 500 feet of the nearest potential nesting tree between February 15 and August 31, a qualified biologist shall conduct a survey for northern harrier and short-eared owl in suitable nesting habitat within and out to 500 feet from the area proposed for disturbance. Any surveys conducted outside the project site shall occur to the extent practicable from publicly accessible areas. The survey(s) shall be conducted no more than 14 days prior to initiation of each phase of project-related vegetation removal or earthmoving on the project</i></p> | |

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| | | <p>4.4-1(f) <i>site. A written summary of the survey results shall be submitted to the County within 14 days of survey completion. If nesting individuals are not identified, further mitigation is not required for that phase.</i></p> <p><i>If nesting individuals are found prior to initiation of project-related vegetation removal or earthmoving in the year of the survey, a project exclusion zone shall be established within 500 feet of the active nest(s) until a qualified biologist determines that the young-of-the-year are no longer reliant upon the nest. All exclusion zones shall be demarcated by security fencing.</i></p> <p><i>Alternatively, the project applicant may retain a qualified biologist to monitor on a weekly basis active nests that are within 500 feet or less from project-related vegetation removal or earthmoving to determine if the individuals are exhibiting any behaviors that would suggest that nest failure could occur. If the qualified biologist determines that disturbance is sufficient to cause nest failure, all activities within 500 feet of the nest will be terminated until the young-of-the-year are no longer reliant upon the nest. Project-related vegetation removal or earthmoving shall not be initiated within 200 feet of an active nest once nesting has begun, under any circumstances. The project applicant shall establish a 500-foot protective buffer around active Northern harrier or short-eared owl nests if nesting is initiated</i></p> | |

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| | | <p>after active mining has begun. The biologist shall submit a written summary of the monitoring results to the County.</p> <p><i>Swainson's Hawk and White-Tailed Kite</i> 4.4-1(g) Implement Mitigation Measure 4.4-1(a), which mitigates for the loss of habitat for the Swainson's Hawk and White-Tailed Kite by funding the acquisition of suitable habitat easements through the Yolo HCP/NCCP.</p> <p>4.4-1(h) The project applicant shall implement Yolo HCP/NCCP AMM-16 (Minimize Take and Adverse Effects on Habitat of Swainson's Hawk and White-Tailed Kite) to the satisfaction of the County and the YHC. Any surveys outside the project site conducted pursuant to AMM-16 shall occur to the extent practicable from publicly accessible areas. In addition to implementing AMM-16, the project applicant shall establish a 500-foot protective buffer around active Swainson's hawk/white-tailed kite nests on or near the project site if nesting is initiated after active mining has begun.</p> <p><i>Loggerhead Shrike</i> 4.4-1(i) The project applicant shall not initiate project-related vegetation removal or earthmoving within 200 feet of the nearest potential nesting tree during the loggerhead shrike/migratory bird nesting season</p> | |

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| | | <p><i>(February 15 through August 31). All initial project-related vegetation removal and earthmoving removal shall occur between September 1 and February 14 to the maximum extent feasible.</i></p> <p><i>Alternatively, if project-related vegetation removal or earthmoving is required within 200 feet of the nearest potential nesting tree between February 15 and August 31, a survey shall be conducted for non-special-status nesting raptors in suitable nesting habitat within and out to 200 feet from the area proposed for disturbance. Any surveys conducted outside the project site shall occur to the extent practicable from publicly accessible areas. The survey(s) shall be conducted by a qualified biologist within 14 days prior to initiation of each phase of project-related vegetation removal or earthmoving on the project site. This survey may be conducted concurrently with the survey required per Mitigation Measure 4.4-4(a). A written summary of the survey results shall be submitted to the County within 14 days of survey completion. If nesting individuals are not identified, further mitigation is not required for that phase.</i></p> <p>4.4-1(j) <i>If nesting loggerhead shrike individuals or other nesting migratory birds are found prior to initiation of project-related vegetation removal or earthmoving in the year of the survey, a project exclusion zone shall be established within 200 feet of the active nest(s)</i></p> | |

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**Table 2-1
 Summary of Impacts and Mitigation Measures**

| Impact | Level of Significance Prior to Mitigation | Mitigation Measures | Level of Significance After Mitigation |
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| | | <p><i>until a qualified biologist determines that the young-of-the-year are no longer reliant upon the nest. All exclusion zones shall be demarcated by security fencing.</i></p> <p><i>Alternatively, the project applicant may retain a qualified biologist to monitor any active nests that are within 200 feet or less from project-related vegetation removal or earthmoving to determine if the individuals are exhibiting any behaviors that would suggest that nest failure could occur. If the qualified biologist determines that disturbance is sufficient to cause nest failure, all activities within 200 feet of the nest will be terminated until the young-of-the-year are no longer reliant upon the nest. Project-related vegetation removal or earthmoving shall not be initiated within 100 feet of an active nest once nesting has begun, under any circumstances. The project applicant shall establish a 200-foot protective buffer around active nests if nesting is initiated after active mining has begun. The biologist shall submit a written summary of the monitoring results to the County.</i></p> <p>Other Nesting Raptors Protected Under the MBTA 4.4-1(k) <i>The project applicant shall not initiate project-related vegetation removal or earthmoving within 300 feet of the nearest potential nesting tree during the raptor nesting season (February 15 through August 31). All initial project-related vegetation removal and</i></p> | |

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| | | <p><i>earthmoving removal shall occur between September 1 and February 14 to the maximum extent feasible.</i></p> <p><i>Alternatively, if project-related vegetation removal or earthmoving is required within 500 feet of the nearest potential nesting tree between February 15 and August 31, a survey shall be conducted for non-special-status nesting raptors in suitable nesting habitat within and out to 500 feet from the area proposed for disturbance. Any surveys conducted outside the project site shall occur to the extent practicable from publicly accessible areas. The survey(s) shall be conducted by a qualified biologist within 14 days prior to initiation of each phase of project-related vegetation removal or earthmoving on the project site. This survey may be conducted concurrently with the survey required per Mitigation Measure 4.4-4(a). A written summary of the survey results shall be submitted to the County within 14 days of survey completion. If nesting individuals are not identified, further mitigation is not required for that phase.</i></p> <p>4.4-1(l) <i>If nesting raptor individuals are found prior to initiation of project-related vegetation removal or earthmoving in the year of the survey, a project exclusion zone shall be established within 300 feet of the active nest(s) until a qualified biologist determines that the young-of-the-year are no longer reliant upon the nest.</i></p> | |

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| | | <p><i>All exclusion zones shall be demarcated by security fencing.</i></p> <p><i>Alternatively, the project applicant may retain a qualified biologist to monitor any active nests that are within 300 feet or less from project-related vegetation removal or earthmoving to determine if the individuals are exhibiting any behaviors that would suggest that nest failure could occur. If the qualified biologist determines that disturbance is sufficient to cause nest failure, all activities within 300 feet of the nest will be terminated until the young-of-the-year are no longer reliant upon the nest. Project-related vegetation removal or earthmoving shall not be initiated within 200 feet of an active nest once nesting has begun, under any circumstances. The project applicant shall establish a 300-foot protective buffer around active raptor nests if nesting is initiated after active mining has begun. The biologist shall submit a written summary of the monitoring results to the County.</i></p> <p><i>Other Nesting Birds Protected Under the MBTA 4.4-1(m) Implement Mitigation Measures 4.4-1(i) and (j).</i></p> <p><i>Foraging Habitat for Tricolored Blackbirds, Swainson’s Hawk, and White-Tailed Kite and Winter Foraging Habitat for Ferruginous Hawk and Merlin</i></p> | |

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| | | <p>4.4-1(n) <i>Implement Mitigation Measures 4.4-1(a), which mitigates for the loss of habitat for the Tricolored Blackbirds, Swainson’s Hawk, and White-Tailed Kite and Winter Foraging Habitat for Ferruginous Hawk and Merlin by funding the acquisition of suitable habitat easements through the Yolo HCP/NCCP.</i></p> <p><i>Silver-Haired Bat, Western Red Bat, and Hoary Bat</i></p> <p>4.4-1(o) <i>Removal of the four trees identified as potential special-status bat species habitat in Figure 4.4-6 of this EIR shall occur either prior to formation of maternity bat colonies (April 15) or after young are capable of flight (August 15). Disturbance-free buffer zones, as determined by a qualified biologist, shall be observed for maternity roosts or hibernacula found during the maternity roost season (i.e., April 15 through August 15).</i></p> <p><i>Tree removal activities shall take place over a minimum of two days, with the first day consisting of trimming to open the roosting area up to airflow. Final tree removal shall only occur after at least one night has passed since trimming has been completed, to allow bats to wake from torpor and leave during darkness. The biologist shall submit a written summary of the tree removal activities, including any bat individuals observed, to the County within 14 days of completion of tree removal.</i></p> | |

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| 4.4-2 Have a substantial adverse effect on riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the CDFW or USFWS. | LS | None required. | N/A |
| 4.4-3 Have a substantial adverse effect on State or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means. | S | 4.4-3(a) Implement Mitigation Measure 4.4-1(a), which mitigates for the loss of aquatic resources by funding the acquisition of aquatic habitat easements through the Yolo HCP/NCCP. 4.4-3(b) Prior to disturbance associated with relocation of the Moore and/or Magnolia Canal, the applicant shall secure a Section 1602 Lake or Streambed Alteration Agreement from CDFW, for the relocation of the Moore/Magnolia Canal and any other activities affecting the bed, bank, or associated riparian vegetation of the canals. The information provided in the application(s) shall include a description of all of the activities associated with the proposed project, and shall not be limited to those associated solely with the drainages and/or riparian vegetation. Impacts shall be outlined in the application and shall be substantially consistent with the impacts to biological resources outlined in this EIR. If this is not the case, the County shall be immediately notified to determine an appropriate response pursuant to CEQA. Impacts for each activity shall be broken | LS |

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| | | <i>down by temporary and permanent, and a description of the proposed mitigation for biological resource impacts shall be outlined per activity and as temporary or permanent. Information regarding project-specific drainage and hydrology changes resulting from project implementation shall be provided as well as a description of storm water treatment methods. Mitigation may include restoration or enhancement of resources on- or off-site, purchase habitat credits from an agency-approved mitigation/conservation bank, off-site, working with a local land trust to preserve land, or any other method acceptable to CDFW. Written verification of the Section 1600 Lake or Streambed Alteration Agreement shall be submitted to the County.</i> | |
| 4.4-4 Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites. | LS | None required. | N/A |
| 4.4-5 Conflict with the provisions of an adopted HCP, NCCP, or other approved local, regional, or State habitat conservation plan. | LS | None required. | N/A |

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| 4.4-6 The project has the potential to substantially degrade the quality of the environment; substantially reduce the habitat of a fish or wildlife species; cause a fish or wildlife population to drop below self-sustaining levels; threaten to eliminate a plant or animal community; or substantially reduce the number or restrict the range of an endangered, rare or threatened species. | LS | None required. | N/A |
| 4.4-7 Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance. | LS | None required. | N/A |
| 4.4-8 Cause a significant environmental impact due to a conflict with applicable plans, policies, or regulations adopted for the purpose of avoiding or mitigating impacts to biological resources. | LS | None required. | N/A |
| 4.5 Cultural and Tribal Cultural Resources | | | |

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| <p>4.5-1 Cause a substantial adverse change in the significance of an historical resource as defined in Section 15064.5.</p> | <p>S</p> | <p>4.5-1 <i>Prior to initiation of construction activities associated with relocation of Moore Canal within the project site, the project applicant shall retain a qualified archaeologist to provide for documentation of the Canal. A series of high-resolution photographs shall be taken of the resource, including any features and general overviews of canal segments planned for removal, to document the current appearance, with associated GPS readings. In addition, GPS readings shall be taken of the linear extent of Moore Canal.</i></p> <p><i>Cross-sectional profiles shall be recorded at various points along the segments, depending on variations of the width and depth of the feature. The project applicant shall ensure that copies of the photographs of the canal section are filed with the Northwest Information Center, the Yolo County Archives, the Yolo County Flood Control and Water Conservation District, and the Yolo County Department of Community Services.</i></p> | <p>SU</p> |
| <p>4.5-2 Cause a substantial adverse change in the significance of a unique archaeological resource pursuant to Section 15064.5 or disturb any human remains, including those interred outside of dedicated cemeteries.</p> | <p>LS</p> | <p><i>None required.</i></p> | <p>N/A</p> |

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| <p>4.5-3 Directly or indirectly disturb or destroy a unique tribal cultural resource, such as a site, feature, place, cultural landscape, sacred place or object with cultural value to a California Native American tribe.</p> | <p>S</p> | <p>4.5-3(a) <i>Prior to initiation of ground-disturbing activities associated with removal of overburden material on the project site, within 500 feet of the Cache Creek bank (i.e., streamway influence zone), local Native American tribes or groups that have responded to the request for information regarding sacred lands or other heritage sites that might be impacted by the proposed project shall be apprised by the applicant of the proposed mining schedule and be afforded the opportunity to provide a tribal monitor at their discretion. Written proof of notification shall be submitted to the Yolo County Department of Community Services. The opportunity to monitor shall be provided during all ground-disturbing activities occurring within 500 feet of the Cache Creek bank, down to a depth of 10 feet below the existing ground surface. The monitor shall meet all applicable Occupational Safety and Health Administration (OSHA) requirements and abide by the operator schedule. The operator shall be responsible for reimbursing the costs of one (1) tribal monitor.</i></p> <p>4.5-3(b) <i>Prior to initiation of ground-disturbing activities, a consultant and construction worker cultural resources awareness brochure and training program for all personnel involved in project implementation shall be developed in coordination with interested Native American tribes. The brochure shall be distributed and the training shall be conducted in</i></p> | <p>LS</p> |

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| | | <p><i>coordination with qualified cultural resources specialists and Native American Representative and monitors from culturally affiliated Native American Tribes. The program shall include relevant information regarding sensitive tribal cultural laws and regulations. The worker cultural resources awareness program shall describe appropriate avoidance and minimization measures for resources that have the potential to be located on the project site and shall outline what to do and whom to contact if any potential archeological resources or artifacts are encountered. The program shall also underscore the requirement for confidentiality and culturally-appropriate treatment of any find of significance to Native American and for behavior consistent with Native American Tribal values. A copy of the cultural resources awareness brochure and written verification of completion of the training program shall be submitted to the Yolo County Department of Community Services.</i></p> | |
| <p>4.5-4 The project has the potential to eliminate important examples of the major periods of California history or prehistory.</p> | <p>S</p> | <p>4.5-4 <i>Implement Mitigation Measures 4.5-1, 4.5-3(a), and 4.5-3(b).</i></p> | <p>SU</p> |
| <p>4.5-5 Cause a significant environmental impact due to a conflict with applicable plans, policies, or regulations</p> | <p>LS</p> | <p><i>None required.</i></p> | <p>N/A</p> |

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| adopted for the purpose of avoiding or mitigating impacts to cultural and tribal cultural resources. | | | |
| 4.6 Geology and Soils, Mineral Resources, and Paleontological Resources | | | |
| 4.6-1 Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area based on other substantial evidence of a known fault; strong seismic ground shaking; seismic-related ground failure, including liquefaction; or landslides. | LS | <i>None required.</i> | N/A |
| 4.6-2 Result in slope failure or substantial erosion or loss of topsoil. | LS | <i>None required.</i> | N/A |
| 4.6-3 Be located on a geological unit or soil that is unstable, or that would become unstable as a result of the project, and | LS | <i>None required.</i> | N/A |

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| potentially result in on or off-site landslide, lateral spreading, subsidence, liquefaction, or collapse. | | | |
| 4.6-4 Be located on expansive soils, as defined in Table 18-1-B of the California Building Code, creating substantial risks to life or property. | LS | <i>None required.</i> | N/A |
| 4.6-5 Directly or indirectly destroy a unique paleontological resource. | S | 4.6-5 Pursuant to Section 10-4.410(b) of the mining ordinance, should paleontological resources be discovered during ground disturbing activities, work shall be halted in the area within 75 feet of the find. The applicant shall notify the Director (as defined by the OCSMO as the County Administrator or designee chosen by the Administrator) and the Yolo County Department of Community Services and retain a qualified paleontologist to inspect the discovery. The find must be recorded by a qualified archaeologist or paleontologist using relevant professional protocols and a report fully recording the find submitted to the County Administrator or designee chosen by the Administrator and the Yolo County Department of Community Services. This report shall include recommendations for appropriate removal and preservation of the artifact. If deemed appropriate in the report, the resource(s) shall then be salvaged and deposited at the Cache Creek Nature Preserve, or other appropriate venue, where the discovery would | LS |

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| | | <i>be properly curated and preserved for the benefit of current and future generations. The language of this mitigation measure shall be included on any future grading plans, mining plans, and reclamation plans approved by the Department of Community Services for the proposed project, where ground disturbance would be required.</i> | |
| 4.6-6 The loss of availability of a known mineral resource that would be of value to the region and the residents of the State. | LS | None required. | N/A |
| 4.6-7 The loss of availability of a locally-important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan. | LS | None required. | N/A |
| 4.6-8 Cause a significant environmental impact due to a conflict with applicable plans, policies, or regulations adopted for the purpose of avoiding or mitigating impacts to geology and soils, mineral resources, and paleontological resources. | LS | None required. | N/A |

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| 4.7 Hazards and Hazardous Materials | | | |
| 4.7-1 Create a significant hazard to the public or the environment through the routine handling, transport, use, or disposal of hazardous or acutely hazardous materials. | LS | <i>None required.</i> | N/A |
| 4.7-2 Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment. | S | <p>4.7-2(a) <i>Prior to initiation of ground-disturbing activities within 50 feet of the domestic water well on the project site, the project applicant shall obtain a water well abandonment permit from the Yolo County Environmental Health Division (YCEHD), and coordinate with the YCEHD regarding procedures for abandonment of the on-site domestic water well.</i></p> <p>4.7-2(b) <i>Prior to initiation of ground-disturbing activities within 50 feet of the natural gas well on the project site, the project applicant shall submit a Notice of Intention (Form OG106) to the California Division of Oil, Gas, and Geothermal Resources (DOGGR) stating the applicant's intent to re-abandon the existing on-site gas well. Subsequent to acquisition of an approved gas well abandonment permit from DOGGR, the project applicant shall retain a licensed contractor to cut off the well at the maximum depth of the proposed excavation and install a cement plug at least 25 feet below the final proposed elevation of the well. Subsequently, the casing of the well shall be cut off five to 10 feet below the final ground surface and a</i></p> | LS |

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| | | <p><i>steel plate affixed to the top of the casing with the well identifier number, indicated by the last five digits of the API well number, welded onto the plate. The location of the well shall be surveyed for future reference. The project applicant shall submit a copy of the approved well abandonment permit to the Yolo County Department of Community Services. Records of all re-abandonment activities shall be submitted to the Yolo County Department of Community Services and DOGGR.</i></p> <p>4.7-2(c) <i>During removal of overburden associated with the proposed project, potentially hazardous materials identified in the vicinity of the former ranch headquarters on the project site, shall be removed from the site and disposed of in accordance with the following regulations and requirements:</i></p> <ul style="list-style-type: none"> <i>• Hazardous materials identified on the project site shall be handled in accordance with Chapter 6.5, Division 20, of the California Health and Safety Code.</i> <i>• Hazardous materials shall be disposed of at an approved disposal site and shall only be hauled by a current California registered hazardous waste hauler using correct manifesting procedures and vehicles displaying a current Certificate of Compliance. The project applicant shall identify by name and address</i> | |

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| | | <p><i>the site where toxic substances shall be disposed of. Disposal shall be coordinated with the Yolo County Environmental Health Division, and the necessary applications shall be filed. The applicant shall provide CEHD with a valid certification from the approved disposal site that the material was delivered.</i></p> <p><i>The applicant shall notify the Yolo County Department of Community Services and the Yolo County Environmental Health Division when this measure has been fulfilled and provide supporting documentation.</i></p> | |
| <p>4.7-3 For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard or excessive noise for people residing or working in the project area.</p> | <p>LS</p> | <p><i>None required.</i></p> | <p>N/A</p> |
| <p>4.7-4 Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan.</p> | <p>LS</p> | <p><i>None required.</i></p> | <p>N/A</p> |

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| 4.7-5 Cause a significant environmental impact due to a conflict with applicable plans, policies, or regulations adopted for the purpose of avoiding or mitigating impacts to hazards and hazardous materials. | LS | <i>None required.</i> | N/A |
| 4.8 Hydrology and Water Quality | | | |
| 4.8-1 Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality. | LS | <i>None required.</i> | N/A |
| 4.8-2 Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin or conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan. | LS | <i>None required.</i> | N/A |
| 4.8-3 Substantially alter the existing drainage pattern of the site or | LS | <i>None required.</i> | N/A |

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| <p>area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would: result in substantial erosion or siltation on- or off-site; substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off-site; or create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff.</p> | | | |
| <p>4.8-4 Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would impede or redirect flood flows.</p> | <p>S</p> | <p>4.8-4(a) Prior to mining or other activity closer than 700 feet to the top of bank, the applicant shall implement a reinforcement improvement in an approximately 600-foot area of streambank (shown in Figure 4.8-1 of the Draft volume of the EIR) which lies in the path of a potential theoretical migration of the creek meander bend. Along this alignment the improvements will consist of a soil-backfilled and planted rock revetment designed and installed to help prevent future bank erosion in the area closest to the Moore Canal and where there is the highest potential for</p> | <p>LS</p> |

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| | | <p><i>channel migration. The design and placement of this improvement will be subject to review and approval by the Cache Creek TAC.</i></p> <p><i>4.8-4(b) Prior to mining of other activity closer than 700 feet to the top of bank, the applicant shall implement a habitat enhancement improvement in an approximately 6-acre area of inset terrace (shown in Figure 4.8-1 of the Draft volume of the EIR). There exists an area on the inset terrace below the Shifler property that extends from County Road 94B along the right (south) bank to the Teichert Aggregates Woodland Plant. This terrace has some native woody vegetation along the first approximately 1,000 feet east of CR 94B but is otherwise predominantly bare or covered with non-native ruderal species. Within the approximately 6-acre zone shown in the referenced figure, the applicant shall remove non-native species and plant appropriate native woody (tree and shrub) species (with the species selection informed by which trees and shrubs are already present on the terrace). This action shall be undertaken in a manner so as not to disturb existing native species (especially elderberry) that already exist within this 6-acre zone. This action will help stabilize this terrace in addition to enhancing habitat between the creek channel and the project site, further reducing potential for channel migration. The habitat enhancement project shall be implemented, monitored, and maintained to the same revegetation</i></p> | |

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| | | standards as stipulated in the approved reclamation plan. 4.8-4(c) The minimum allowed setback between the top of bank and mining or other activity shall be 250 feet. Mining and reclamation plans shall be modified accordingly. | |
| 4.8-5 In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation. | LS | None required. | N/A |
| 4.8-6 Cause a significant environmental impact due to a conflict with applicable plans, policies, or regulations adopted for the purpose of mitigating impacts to hydrology and water quality. | LS | None required. | N/A |
| 4.9 Land Use and Planning | | | |
| 4.9-1 Physically divide an established community. | LS | None required. | N/A |
| 4.9-2 Cause a significant environmental impact due to a conflict with applicable plans, policies, or regulations adopted for the purpose of avoiding or mitigating impacts to land use and planning. | LS | None required. | N/A |

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| 4.10 Noise | | | |
| <p>4.10-1 Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies.</p> | S | <p>4.10-1(a) <i>The following language shall be included as a condition of approval on the Mining Permit for the proposed project, to the satisfaction of the Yolo County Department of Community Services:</i></p> <ul style="list-style-type: none"> • <i>Initial scraper operations occurring within 300 feet of the project site boundary near Receptors 1 or 6 (as identified in Figure 4.10-4 of this EIR) shall be limited to 15 minutes per hour;</i> <p style="text-align: center;">OR</p> <ul style="list-style-type: none"> • <i>An earth berm or other form of noise barrier shall be constructed along 300 feet of the eastern and western site boundaries nearest to Receptors 1 and 6. The barrier shall be a minimum of eight feet in height relative to the existing ground elevation.</i> <p><i>In addition, the Mining Permit shall be conditioned with the following language, to the satisfaction of the Yolo County Department of Community Services, to further reduce the potential for annoyance associated with proposed excavation activities:</i></p> <ul style="list-style-type: none"> • <i>Excavation activities occurring within 560 feet</i> | LS |

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| | | <p><i>of an existing residence shall be limited to the hours of 6:00 AM to 6:00 PM until such time as the excavation equipment has recessed in the pit a sufficient depth to no longer be visible from the nearest residences.</i></p> <ul style="list-style-type: none"> <i>Teichert shall coordinate with Monument Hill Memorial Park cemetery representatives on an ongoing basis to determine when funeral services are scheduled to occur at the cemetery, and shall limit on-site operations during such services. Alternatively, Teichert may initiate communication with Monument Hill Memorial Park representatives to identify other feasible methods for minimizing potential noise intrusion during services.</i> <p>4.10-1(b) <i>A noise survey shall be conducted following the installation and operation of any new equipment which will be required to increase processing capacity of the Woodland Plant. The results of the noise survey shall be submitted to the Yolo County Department of Community Services within two months of the new equipment being brought online. In the event that the survey results indicate the additional equipment has resulted in a substantial increase in processing plant noise emissions (in excess of 5 dB), the equipment causing the substantial increase shall cease operation until the following noise mitigation options shall be</i></p> | |

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| | | <p><i>implemented, as appropriate, to reduce the overall increase in plant noise levels to less than 5 dB at the nearest residences:</i></p> <ul style="list-style-type: none"> • <i>Construct localized noise barriers adjacent to ground level equipment determined to be responsible for substantial increases in ambient noise levels.</i> • <i>Suspend acoustic curtains adjacent to elevated equipment determined to be responsible for substantial increases in ambient noise levels.</i> • <i>Line new conveyor transfer points and hoppers with heavy urethane linings.</i> • <i>Utilize urethane screens in new screen decks.</i> • <i>Utilize automatic reverse-activated strobe lights in lieu of audible backup beeper devices for any new mobile equipment, if the applicant can obtain a variance from Cal/OSHA. If a variance cannot be obtained, then utilize MSHA-approved broad-band backup warning devices for any new mobile equipment rather than the traditional tonal back-up beeper devices.</i> • <i>Ensure that all internal combustion engines which may be required to drive new equipment is equipped with appropriate mufflers.</i> | |
| 4.10-2 Generation of excessive groundborne vibration or groundborne noise levels. | LS | None required. | N/A |

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|----------------------------|-----------------------------------------------|
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| 4.10-3 Cause a significant environmental impact due to a conflict with applicable plans, policies, or regulations adopted for the purpose of avoiding or mitigating noise impacts. | LS | <i>None required.</i> | N/A |
| 4.11 Public Services, Utilities, and Service Systems | | | |
| 4.11-1 Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times, or other performance objectives for fire protection services. | LS | <i>None required.</i> | N/A |
| 4.11-2 Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, | LS | <i>None required.</i> | N/A |

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| <p>need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times, or other performance objectives for police protection services.</p> | | | |
| <p>4.11-3 Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for parks.</p> | <p>LS</p> | <p><i>None required.</i></p> | <p>N/A</p> |
| <p>4.11-4 Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities,</p> | <p>LS</p> | <p><i>None required.</i></p> | <p>N/A</p> |

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|---------------------|----------------------------------------|
| , need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times, or other performance objectives for other public facilities. | | | |
| 4.11-5 Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment. | LS | None required. | N/A |
| 4.11-6 Require or result in the relocation or construction of new or expanded water, electric power, or natural gas facilities, the construction or relocation of which could cause significant environmental effects. | LS | None required. | N/A |
| 4.11-7 Have sufficient water supplies available to serve the project and reasonably foreseeable future development during | LS | None required. | N/A |

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| normal, dry, and multiple dry years. | | | |
| 4.11-8 Cause a significant environmental impact due to a conflict with applicable plans, policies, or regulations adopted for the purpose of avoiding or mitigating impacts to public services, utilities, and service systems. | LS | None required. | N/A |
| 4.12 Transportation and Circulation | | | |
| 4.12-1 Conflict with a program, plan, ordinance, or policy addressing the circulation system, including transit, bicycle, and pedestrian facilities. | LS | None required. | N/A |
| 4.12-2 Conflict or be inconsistent with CEQA Guidelines Section 15064.3, subdivision (b). | S | 4.12-2 Transportation Demand Management (TDM) Program. Prior to commencement of mining activities at the project site, the project applicant shall develop and implement a TDM program to reduce the number of daily employee commute trips made to the project site, and shall submit the TDM Program to Yolo County for review and approval. The TDM Program shall identify trip reduction strategies as well as mechanisms for funding and overseeing the delivery of trip | SU |

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| | | <p><i>reduction programs and strategies. The TDM Program shall be designed to achieve the following trip reduction:</i></p> <ul style="list-style-type: none"> • <i>Reduce employee commute VMT to the maximum extent feasible.</i> <p><i>Feasible trip reduction strategies may include, but are not limited to, the following:</i></p> <ul style="list-style-type: none"> • <i>Develop an employer-led program that considers:</i> <ul style="list-style-type: none"> ○ <i>Carpooling encouragement;</i> ○ <i>Ride-matching assistance; and</i> ○ <i>Vanpool assistance.</i> | |
| 4.12-3 Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment). | LS | <i>None required.</i> | N/A |
| 4.12-4 Result in inadequate emergency access. | LS | <i>None required.</i> | N/A |
| 4.12-5 Cause a significant environmental impact due to a conflict with applicable plans, policies, or regulations adopted for the purpose of | LS | <i>None required.</i> | N/A |

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| avoiding or mitigating impacts to transportation and circulation. | | | |
| 5 Cumulative Impacts and Other Required Sections | | | |
| 5-1 Cumulative impacts to aesthetics. | LCC | <i>None required.</i> | N/A |
| 5-2 Cumulative impacts to farmland. | CC | <i>Implement Mitigation Measure 4.2-1.</i> | SU |
| 5-3 Cumulative impacts to air quality. | LCC | <i>None required.</i> | N/A |
| 5-4 Cumulative greenhouse gas emissions. | LCC | <i>None required.</i> | N/A |
| 5-5 Cumulative impacts to energy. | LS | <i>None required.</i> | N/A |
| 5-6 Cumulative impacts to biological resources. | LCC | <i>None required.</i> | N/A |
| 5-7 Cumulative impacts to cultural and tribal cultural resources. | LS | <i>None required.</i> | N/A |
| 5-8 Cumulative increase in the potential for impacts to geology and soils, mineral resources, and paleontological resources. | LS | <i>None required.</i> | N/A |
| 5-9 Cumulative exposure to potential hazards and increases in the transport, storage, and use of hazardous materials. | LS | <i>None required.</i> | N/A |

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| 5-10 Cumulative impacts related to the violation of water quality standards or waste discharge requirements, groundwater quality, management, and recharge, and impacts resulting from the alteration of existing drainage patterns. | LCC | None required. | N/A |
| 5-11 Cumulative land use impacts. | LS | None required. | N/A |
| 5-12 Generation of a substantial permanent cumulative increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies. | LCC | None required. | N/A |
| 5-13 Cumulative impacts to public services, utilities, and service systems. | LS | None required. | N/A |
| 5-14 Cumulative impacts to transportation and circulation. | CC | Implement Mitigation Measure 4.12-2. | SU |

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