



MITIGATION MONITORING AND REPORTING PROGRAM
 CITY OF ESCALON CONNECTION TO NICK DEGROOT WATER TREATMENT PLANT PROJECT
 ESCALON, SAN JOAQUIN COUNTY, CA
 SEPTEMBER 2024

MITIGATION MONITORING AND REPORTING PROGRAM

The following is a Mitigation Monitoring and Reporting Program (MMRP) for the City of Escalon Connection to Nick Groot Water Treatment Plant (Project) located in the southeastern corner of San Joaquin County, California. This MMRP has been prepared pursuant to Section 15097 of the CEQA Guidelines and Section 21081 of the Public Resources Code. This MMRP lists all applicable Project Mitigation Measures (MM), applicable Mitigation Measures previously approved by San Joaquin County via the South County Surface Water Supply Project EIR (SCH#98022018) (Modified MM), and environmental commitments for executing Standard Conditions (SC) that are required to be implemented with the Project under existing Plans, Programs, and Policies for environmental resource protection. This MMRP includes implementation timing and responsible party to ensure proper enforcement of all MM and SC to reduce Project impacts. The City of Escalon, the Lead Agency, will utilize the MMRP to document the implementation of Project mitigation and SC environmental commitments, which ensure all project impacts are reduced to less than significance pursuant to The California Environmental Quality Act (CEQA).

Issue	Potentially Significant Impact reduced to Less than Significant Impact	Recommended Mitigation Measure	Timing	Responsible Party	Date Completed and Initials
Aesthetics	c) In nonurbanized areas, 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). If the Project is in an urbanized area, would the Project conflict with applicable zoning and other regulations governing scenic quality?	MM AES-01: Coordination with Private Landowners- Prior to the start of construction, the City and the contractor shall coordinate with private owners and obtain written landowner approval for construction activities on private property in the form of a signature on the plan sheet showing the proposed work. Restoration work on private property shall be agreed upon and approved by the landowner and the City in advance of construction. Restoration shall be certified by the landowner and the City upon completion as adequately meeting the City's private landowner's requirements.	Prior to the start of construction.	City of Escalon, Project contractor	Date: _____ Initials: _____
		Modified MM AES-04: Landscaping- Natural landscaping, which blends with the surrounding aesthetic features, shall be placed along the perimeter of the FCF and BPS.	Upon implementation of the proposed Project components.	City of Escalon, Project contractor	Date: _____ Initials: _____
	d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?	MM AES-02: Construction Lighting Plan- If nighttime construction is planned to occur, the Project contractor must deploy the measures prior to and throughout nighttime construction activities (dusk to dawn). Measures include directing light sources away from residential property or regularly occupied spaces. Elimination of uplighting will occur by angling light sources down and fitting light sources with covered bulbs, shields, and dimmers. Ensure that a 300-foot buffer from residential property lines is maintained throughout nighttime construction.	Throughout nighttime construction.	Project contractor	Date: _____ Initials: _____





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Aesthetics	d) Continued...	Modified MM AES-03: Lighting- Lighting at the FCF and BPS shall be positioned downward and shielded in order to prevent glare, and reduce offsite lighting, and disruption of adjacent neighbors.	Throughout Project implementation and design.	Project contractor	Date: _____ Initials: _____
Air Quality	c) Expose sensitive receptors to substantial pollutant concentrations?	<p>MM AQ-01: Fugitive Dust Control- For construction activities associated with all Project components: the City of Escalon shall require contractor(s) to implement the following measures throughout construction activities. These measures shall be incorporated in bid documents prior to City approval. The implementation of these measures shall be verified on an ongoing basis through construction inspections:</p> <ul style="list-style-type: none"> - Water, chemical soil stabilizers/ suppressants, or vegetative ground cover shall be used to control fugitive dust from all disturbed areas, including storage piles, which are not in active use at the construction site. - Water or chemical soil stabilizers shall be used to control fugitive dust from all unpaved roads utilized for construction access. - Applications of water or presoaking shall be performed to control fugitive dust from all land clearing, grubbing, scraping, excavation, land leveling, grading, cut and fill, and demolition activities. - Cover and wet all materials transported off-site or require all trucks to maintain at least size feet of freeboard from the top of the container. - Remove accumulated mud directly from adjacent public streets at least every 24 hours during construction periods. (The use of dry rotary brushes is expressly prohibited, except where preceded or accompanied by sufficient wetting to limit the visible dust emissions. The use of blower devices is also expressly forbidden.) - Water or chemical soil stabilizers/ suppressants shall be used to control fugitive dust after each addition of materials to or removal of materials from all storage piles. - Limit the speed of all construction vehicles to 15 miles per hour on unpaved roads. - Re-plant vegetation in disturbed areas as quickly as possible. 	Throughout Project construction.	City of Escalon; Project contractor(s)	Date: _____ Initials: _____





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Air Quality	c) Continued...	<p>MM AQ-02: (Compliance with SJVAPCD) Verify SJAPCD’s Control Measures. The contractor, City Engineer, and Inspectors shall verify that the SJVAPCD’s control measure is implemented as outlined below or equivalent to reduce fugitive dust emissions throughout all phases of construction. These measures shall be incorporated in bid documents prior to City approval. The implementation of these measures shall be verified on an ongoing basis through construction inspections:</p> <ol style="list-style-type: none"> 1. Require construction equipment used at the site to be equipped with catalyts/particulate traps to reduce particulate and NOx emissions. These catalyts/traps require the use of ultra-low sulfur diesel fuel (15 ppm). At the time bids are made, contractors shall show that the construction equipment used is equipped with particulate filters and/or catalyts or prove why it is infeasible. 2. Use alternative fuels and construction equipment. 3. Replace fossil-fueled equipment with electrically driven equivalents (provided they are not run via a portable generator set). 4. Install windbreaks on windward sides of construction areas. 5. Curtail construction during periods of high ambient pollutant concentrations. This may include ceasing construction activity during peak-hour vehicular traffic on adjacent roadways, and “Spare the Air Days” declared by the District. 	Throughout all phases of Project construction.	Project contractor, City Engineer, and Inspectors	Date: _____ Initials: _____
		<p>SC AQ-01: Regular Cleaning of Track-out Areas. Before Project approval, the City Engineer shall confirm that the plans and specifications for the Project include a note requiring regular cleaning of track-out areas throughout each workday and at the end of each workday to clean dirt deposited on any public highway or street (SJVAPCD Rule 8041: Carryout and Trackout).</p>	Prior to Project approval	City of Escalon Engineering Department	Date: _____ Initials: _____
	d) Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?	See Mitigation Measures MM AQ-01: Fugitive Dust Control.	Throughout Project construction.	City of Escalon; Project contractor(s)	Date: _____ Initials: _____





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Air Quality		See Mitigation Measures MM AQ-02: (Compliance with SJVAPCD) Verify SJVAPCD's Control Measures.	Throughout all phases of Project construction.	Project contractor, City Engineer, and Inspectors	Date: _____ Initials: _____
Biological Resources	a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?	<p>MM BIO-01: Pre-construction Nesting Bird Clearance Survey. If construction occurs between February 1st and August 31st, a pre-construction clearance survey for nesting birds should be conducted within three (3) days of the start of any vegetation removal or ground disturbing activities to ensure that no nesting birds will be disturbed during construction. The biologist conducting the clearance survey should document a negative survey with a brief letter report indicating that no impacts to active avian nests will occur. If an active avian nest is discovered during the pre-construction clearance survey, construction activities should stay outside of a no-disturbance buffer that will be established by the City's biologist. The size of the no-disturbance buffer will be determined by the wildlife biologist and will depend on the level of noise and/or surrounding anthropogenic disturbances, line of sight between the nest and the construction activity, type and duration of construction activity, ambient noise, species habituation, and topographical barriers. These factors will be evaluated on a case-by-case basis when developing buffer distances. Limits of construction to avoid an active nest will be established in the field with flagging, fencing, or other appropriate barriers; and construction personnel will be instructed on the sensitivity of nest areas. A biological monitor should be present to delineate the boundaries of the buffer area and to monitor the active nest to ensure that nesting behavior is not adversely affected by the construction activity. Once the young have fledged and left the nest, or the nest otherwise becomes inactive under natural conditions, construction activities within the buffer area can occur.</p>	If construction occurs between February 1 st and August 31 st	City of Escalon, Project biologist	Date: _____ Initials: _____
		<p>Modified MM BIO-02: Ground Nesting Raptors Pre-construction Survey- Prior to Project construction, the City of Escalon shall retain a qualified biologist to conduct a survey for ground nesting raptors (in March or April) 30 days and repeated 3 days prior to construction activities (i.e., grading) in areas containing suitable nesting habitat. Active raptor nests located within 500 feet of construction activity shall be mapped.</p>	Prior to Project construction.	City of Escalon, Project biologist	Date: _____ Initials: _____





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Biological Resources	a) Continued...	Modified MM BIO-03: Raptor Nests- If active raptor nests are located on or within 500 feet of a construction site, a minimum of a 500 feet buffer area shall be established by a qualified biologist and construction activities shall be prohibited within this buffer zone until the end of the nesting season (April through August) or until the young have fledged. A qualified wildlife biologist shall monitor the nest to determine when the young have fledged and submit weekly reports to CDFW throughout the nesting season.	If active raptor nests are located on or within 500 feet of a construction site.	City of Escalon, Project contractor(s), Project biologist	Date: _____ Initials: _____
		Modified MM BIO-04: Active Nests- Prior to construction activities, the City of Escalon in coordination with the Project contractor and qualified biologist shall identify trees with active nests. Active nests shall only be removed prior to the onset of the nesting season (March) or after the young have fledged (late August).	Prior to construction activities.	City of Escalon, Project contractor(s), Project biologist	Date: _____ Initials: _____
	b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?	Modified MM BIO-05: Jack and Bore Construction- At jack and bore locations, bore pits shall be excavated at least 50 feet outside the edge of riparian vegetation to avoid impacts. A biological monitor shall be present during staking for jack and bore and during jack and bore construction to alert the construction crew to the possible presence of any special-status amphibian or reptile at risk during the crossing. The following measures shall be implemented: <ul style="list-style-type: none"> - Construction at stream crossings with riparian and/or emergent vegetation shall be limited to facilitate detection and reduce the potential of direct mortality for snakes. The USFWS Sacramento Field office shall be contacted in the event that construction needs to occur between October 2 and April 30 to determine if additional measures are necessary to minimize and avoid take. - Two weeks prior to any ground-disturbing activity at stream crossings with riparian and/or emergent vegetation, the bore pit, staging area, and access routes shall be fenced with snake-proof fencing that will be installed under supervision of the city's biologist. Two days prior to construction, a biological monitor with appropriate state and federal permits shall survey the fenced-in areas and determine the presence of snakes. If present, the monitor shall relocate snakes a minimum of 500 	Prior to and throughout jack and bore construction.	City of Escalon, Project contractor(s), Project biologist	Date: _____ Initials: _____





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Biological Resources	b) Continued...	feet from construction activities. During construction, the monitor shall be present on-site to ensure that no snakes are in the disturbance area, that all excavated areas are backfilled or covered, and to educate the construction personnel as appropriate.			
Cultural Resources	a) Cause a substantial adverse change in the significance of an archaeological resource pursuant to § 15064.5?	<p>Modified MM CUL-01: (Ground Inspection) Pre-Construction Crew Training. Prior to start of construction, the City of Escalon shall hire a qualified archaeologist and tribal monitor to conduct pre-construction tailgate training for the construction crew. The training can be videotaped for crew added later during construction. Training shall be documented with a sign-in sheet and written materials including photos of cultural materials as follows:</p> <ul style="list-style-type: none"> • historic artifacts such as glass bottles and fragments, cans, nails, ceramic and pottery fragments, and other metal objects; • historic structural or building foundations, walkways, cisterns, pipes, privies, and other structural elements; • prehistoric flaked-stone artifacts and debitage (waste material), consisting of obsidian, basalt, and or cryptocrystalline silicates; • groundstone artifacts, including mortars, pestles, and grinding slabs; • dark, greasy soil that may be associated with charcoal, ash, bone, shell, flaked stone, groundstone, and fire-affected rocks. 	Prior to the start of construction.	Project archeologist, tribal monitor, Project contractor, City of Escalon	Date: _____ Initials: _____
		<p>Modified MM CUL-02: Discovery of Buried Cultural Resources. Throughout Project construction, the contractor shall maintain records of field crew training per Modified MM CUL-01: (Ground Inspection) Pre-Construction Crew Training and a cultural resources monitor shall be present at the site to document any cultural resources encountered during construction with photos, georeferencing, and maps. If field personnel encounter buried cultural materials, work in the immediate vicinity of the find should cease within 50 feet of the resources and the City and a qualified archaeologist should be contacted immediately to assess the significance of the find. The qualified archaeologist shall have the authority to stop or divert construction and excavation as necessary.</p>	Throughout Project construction.	Project contractor, field personnel, Project archeologist, cultural resources monitor	Date: _____ Initials: _____





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Cultural Resources	a) Continued....	If the qualified archaeologist finds that any cultural resources present meet eligibility requirements for listing on the California Register or the National Register, plans for the treatment, evaluation, and mitigation of impacts to the find will need to be developed.			
	b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to § 15064.5?	MM CUL-03: Cultural Resources Treatment and Disposition. Immediately upon discovery of buried resources encountered during construction, the contractor shall cease work in the immediate vicinity of the find pursuant to Modified MM CUL-02: Discovery of Buried Cultural Resources and allow the qualified archaeologist to determine: a) if any cultural resources are significant or meet eligibility requirements for listing on the California Register or the National Register; b) to identify appropriate disposition measures for proper treatment through protection in place or collection and curation to the find; and c) contact Native American tribes from NAHC’s SLF Search to determine the important of the find.	Upon the discovery of buried resources during Project construction.	Project contractor, Project archeologist, Native American Tribes	Date: _____ Initials: _____
		See Mitigation Measure Modified MM CUL-01: (Ground Inspection) Pre-Construction Crew Training.	Prior to the start of construction.	Project archeologist, tribal monitor, Project contractor, City of Escalon	Date: _____ Initials: _____
		See Mitigation Measure Modified MM CUL-02: Discovery of Buried Cultural Resources	Throughout Project construction.	Project contractor, field personnel, Project archeologist	Date: _____ Initials: _____
c) Disturb any human remains, including those interred outside of dedicated cemeteries?	MM CUL-04: Discovery of Human Remains: If human remains are encountered during construction, the contractor shall notify the County Coroner of the find immediately. If the remains are determined to be prehistoric, the coroner will notify the NAHC, which will determine and notify a Most Likely Descendant (MLD). With the permission of the landowner or his/her authorized representative, the MLD may inspect the site of the discovery. The MLD shall complete the inspection within 48 hours of notification by the NAHC.	In the event human remains are discovered during Project construction.	County Coroner, NAHC, Project contractor, MLD	Date: _____ Initials: _____	





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Cultural Resources	c) Continued...	See Mitigation Measure Modified MM CUL-02: Discovery of Buried Cultural Resources	Throughout Project construction.	Project contractor, field personnel, Project archeologist	Date: _____ Initials: _____
Geology and Soils	a) Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving: ii. Strong seismic ground shaking?	Modified MM GEO-01: Seismic Design Criteria. Facility design shall comply with the site-specific seismic design criteria recommendations of a geotechnical engineer. Facility design shall also comply with the seismic design requirements of the UBC and with applicable provisions and policies of the San Joaquin County General Plan.	Prior to the issuance of building permits.	City of Escalon, geotechnical engineer	Date: _____ Initials: _____
		Modified MM GEO-02: Geotechnical Design Criteria- Facility design shall comply with the site-specific geotechnical design criteria recommendations of a geotechnical engineer, applicable requirements of the UBC, and applicable provisions and policies of the San Joaquin County General Plan.	Prior to the issuance of building permits.	City of Escalon, geotechnical engineer	Date: _____ Initials: _____
	b) Result in substantial soil erosion or the loss of topsoil?	See Mitigation Measure Modified MM HYDRO-01: Stream Crossings.	Prior to final approval of Project Plans and Specifications.	City of Escalon Engineering Staff	Date: _____ Initials: _____
See Mitigation Measure Modified MM HYDRO-03: Erosion Control.		Prior to the final approval of Project Plans and prior to the start of construction.	City of Escalon Engineering Staff	Date: _____ Initials: _____	
	f) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?	MM PALEO-01- Paleontological Resource Mitigation Program: Prior to the start of Project construction, the City of Escalon shall hire a qualified paleontologist to conduct pre-construction tailgate training for the construction crew and monitoring during ground disturbance. The training can be videotaped for crew added later during construction. Training shall be documented with a sign-in sheet and written materials including photos of potentially significant paleontological resources. In addition, the City's paleontologist shall prepare and implement a Paleontological Resource Mitigation Program to monitor, salvage, and	Prior to the start of Project construction.	City of Escalon, Project archeologist	Date: _____ Initials: _____





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Geology and Soils	f) Continued...	curate any recovered fossils which will be funded by the City. Throughout Project construction, the Project contractor shall maintain records of field crew training and monitoring and shall document any paleontological resources encountered during construction with photos, georeferencing, and maps. If field personnel encounter buried paleontological resources, work in the immediate vicinity of the find should cease within 50 feet of the resource and the City and a qualified paleontologist should be contacted immediately to assess the significance of the find. A qualified paleontologist shall have the authority to stop or divert construction and excavation as necessary.			
Hydrology and Water Quality	c) 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:	Modified MM HYDRO-01: Stream Crossings- Prior to final approval of the Project Plans and specifications and the start of Project construction, the City of Escalon Engineering staff shall verify that standard design criteria for pipeline installation at stream crossings using the jack and bore method prevents destabilization of the streambed and banks. The Project design shall locate the pipe far enough below streambeds and site the boring entry location and boring slope at a significant distance from the streambank to avoid a future encounter between the pipeline and surface water due to stream downcutting or lateral migration.	Prior to final approval of Project Plans and Specifications.	City of Escalon Engineering Staff	Date: _____ Initials: _____
	i. result in a substantial erosion or siltation on- or off-site;	Modified MM HYDRO-02: SWPPP Specifications- Prior to the certification and approval of Project Plans and the start of Project construction, the City of Escalon Engineering staff shall verify that the Project contractor develops and implements a SWPPP, as required by the SWRCB and enforced by the CVRWQCB, for areas to be disturbed by construction activities. SSJID and the City of Escalon shall incorporate into contract specification the requirement that the contractor comply with, and implement the provisions of, the SWPPP and the RWQCB requirements for the NPDES General Permit for Discharges of Storm Water Associated with Construction Activity. The SWPPP should be kept on site during construction and implementation shall be recorded with the SWPPP. The objectives of the SWPPP are to identify pollutant sources that may affect the quality of stormwater discharge, to implement control practices to reduce pollutants in stormwater discharges, and to protect receiving	Throughout Project construction activities.	Project contractor	Date: _____ Initials: _____





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Hydrology and Water Quality	c) i) Continued....	<p>water quality. The SWPPP may include, but is not limited to, the following elements:</p> <ul style="list-style-type: none"> - Preparation of a site map; - Description of construction materials, practices, and equipment storage and maintenance; - List of pollutants likely to contact stormwater; - Estimate of the construction site area and percentage impervious area; - Site-specific erosion and sedimentation control measures including soil stabilization, revegetation, and runoff control to limit increases in sediment in stormwater runoff, such as detention basins, straw bales, silt fences, geo-fabrics, drainage swales, and sandbag dikes; - List of provisions to eliminate or reduce discharge of materials to stormwater including practices to minimize the contact of construction materials with stormwater; - Stockpiling of soils along the trench may be on the side of the trench farthest from the nearest creek or drainage where possible; - BMPs for fuel and equipment storage, refueling activities, and equipment inspections to prevent chemicals from contacting stormwater; - Description of waste management practices; and - Maintenance and training practices. 			
		<p>Modified MM HYDRO-03: Erosion Control- Prior to the issuance of permits and Project construction activities, the City of Escalon shall incorporate into contract specifications requirements that the contractor(s) implement erosion control measures as well as RWQCB requirements for stormwater pollution prevention for construction activities. The contractor shall be required to exercise special care to prevent erosion in disturbed earth areas, and silt or eroded materials may not be introduced into any storm drain system or watercourse during and following construction. The contractor shall also apply erosion control measures as outlined within Modified MM HYDRO-02: SWPPP</p>	<p>Prior to the final approval of Project Plans and prior to the start of construction.</p>	<p>City of Escalon Engineering Staff</p>	<p>Date: _____ Initials: _____</p>





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Hydrology and Water Quality	c) i) Continued....	<p>Specifications (revegetation, soil stabilization, stray bales, silt fences, etc.) where indicated on contract drawings and where the contractor has disturbed natural vegetation. For construction adjacent to, or crossing any waterways, the City of Escalon shall obtain and comply with any necessary permits from state and local jurisdictions.</p>			
		<p>MM HYDRO-04: Lead Agency Approval of Project Plans- Prior to final approval of the Project Plans and start of construction, City of Escalon Engineering staff shall verify that Project Plans implement the following measures to ensure water quality BMPs are maintained:</p> <ul style="list-style-type: none"> a) The generator, fuel tank, containment areas, controls, and transfer switches should be mounted and anchored securely above the expected flood level on a concrete platform inside or next to the building in a protective structure and shielded from wind or windborne debris. At a minimum, the generator should be placed above the main electrical service equipment and above the utility company pad mount transformer with containment. b) The location of the emergency generator’s transfer switch(es), and all electrical distribution equipment so that the generator switches are at elevations that are at least as high as the generator. c) Provide adequate access to the new generator so that related operating measures, chemicals, and processes are above the floodplain and accessible during storms and emergencies. d) If a fuel tank is provided on-site, provide containment and anchor tank to resist floatation. e) Flood-proof any chemicals, process, or operations for the generator within the floodplain f) Provide an approved operational plan for the Project to relocate chemicals above the floodplain in advance of a flood event. 	Prior to the finalization of Project plans.	City of Escalon Engineering Staff, Project contractor	Date: _____ Initials: _____





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Hydrology and Water Quality	c) i) Continued....	g) Verify that the local code requirements and standards and appropriate regulations of the utility companies are incorporated in Project plans h) Verify that Construction Plans incorporate all local and national building codes, as well as applicable electrical codes for the safety of site personnel. i) All fuel supply and electrical lines must be protected from potential flooding and high wind. j) A consistent and regularly planned maintenance program should be developed, adopted, and enforced. k) The City Engineer shall verify that construction within the floodway and flood zone will occur outside of the rainy season (October 15 through April 15). Active construction within the floodway and flood zone will not occur during rain events.			
	c) 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: iv. impede or redirect flood flows?	BEST MANAGEMENT PRACTICES BMP HYDRO-05: Construction within Riverine Floodway- Prior to Project construction and final approval of Project plans, the City of Escalon’s Engineering staff and San Joaquin County Flood Management Division shall verify that Project Plans and Specifications contain the following measures to minimize impacts within FEMA-designated flood Zone A and AE: 1. A minimum of two (2) surveys are required; one before and one after construction. The first survey establishes the elevation of the project site and is compared to the BFE to determine the height above grade that flood damage reduction measures must be taken. Based on this initial survey, the “Preliminary Elevation Certificate” an FM form series must be completed by a surveyor or engineer and is required prior to clearance from Public Works. If your plans/ application package does not include a completed FM-1 you cannot proceed to the Community Development Building for a plan check (<i>SJ SFHA Construction Requirements</i>);	Prior to the finalization of Project Plans and Specifications.	City of Escalon, Project contractor, San Joaquin County Flood Management Division	Date: _____ Initials: _____





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Hydrology and Water Quality	c) iv) Continued...	<ol style="list-style-type: none"> 2. All utilities, machinery, equipment, tanks, and wells are required to be elevated above the BFE or be designed, constructed, and installed to prevent floodwaters from entering or accumulating within its components. For additional information, see ASCE 24-05 Chapter 7(<i>SJ SFHA Construction Requirements</i>); 3. Upon the completion of daily Project activities within the flood zones, the Project contractor shall ensure that debris, trash, loose branches, and vegetation have been removed from Lone Tree Creek or riverbanks. Vegetation that is actively growing in the stream bank should not be removed without permission. Prior to any removal of streamside vegetation or to report any observations of the clearing of vegetation or trees on stream banks, contact San Joaquin County Channel Maintenance Division at 209.468.9698 (<i>SJ Hazards in San Joaquin County</i>); 4. Utilize methods and practices that minimize flood damage, throughout Project construction (Escalon Municipal Code <i>Section 17.32.130 Standards of Construction</i>); 5. Electrical, heating, ventilation, plumbing, and air conditioning equipment and other service facilities that are designated and/or located so as to prevent water from entering or accumulating within the components during conditions of flooding (Escalon Municipal Code <i>Section 17.32.130 Standards of Construction</i>); 6. All new and replacement water supply and sanitary systems shall be designated to minimize or eliminate infiltration of flood waters into the systems; and discharge from the systems into flood waters (Escalon Municipal Code <i>Section 17.32.150 Standards of Utilities</i>). 			





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Hydrology and Water Quality	c) iv) Continued...	See Mitigation Measure Modified MM HYDRO-02: SWPPP.	Throughout Project construction activities.	Project contractor	Date: _____ Initials: _____
		See Mitigation Measure Modified MM HYDRO-03: Erosion Control.	Prior to the final approval of Project Plans and prior to the start of construction.	City of Escalon Engineering Staff	Date: _____ Initials: _____
	e) Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?	MM HYDRO-02: Prevent Stormwater Pollution	Throughout Project construction activities.	Project contractor	Date: _____ Initials: _____
Land Use and Planning	a) Physically divide an established community?	Modified MM LAND-01: Landowner Consultation- The City of Escalon shall consult with all potentially affected landowners associated with the segments of the selected alignment that crosses farmland as part of the land acquisition process. As part of this acquisition process Escalon and the landowners shall negotiate an agreed-upon compensation for the loss of any existing orchard trees and/ or vines currently in production. During these consultations, Escalon shall also, in conjunction with landowners' input, access gates. Access gate locations shall be included in the final design plans for the proposed Project. Modified MM TRAF-16: Routing Traffic Adjacent to Active Agriculture Operations provides for controlled access for vehicle traffic associated with active agricultural operations in farmland areas.	Prior to the start of Project construction and certification of Project Design.	The City of Escalon, local Landowners	Date: _____ Initials: _____
		Modified MM LAND-02: Advance Notice- The City of Escalon shall provide a minimum 2-week advance notice of the construction activities schedule to the affected community members adjacent to construction areas (e.g., residences, property owners, business owners, and public facility operators), including the posting of signs.	Two weeks prior to Project construction activities.	The City of Escalon	Date: _____ Initials: _____
		Modified MM LAND-03: Construction Contract Documents- The City of Escalon shall incorporate mitigation measures in construction contract documents (e.g., terms of schedule or access conditions or technical requirements). The City and its contractor(s) shall coordinate with local	Prior to the finalization of Project construction contract documents.	The City of Escalon, Project contractor	Date: _____ Initials: _____





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Land Use and Planning	a) Continued...	jurisdictions and obtain all necessary permits (e.g., encroachment permit, utility excavation permit), shall comply with permit conditions established to minimize construction impacts, and shall assign an inspector to the Project to oversee construction activities.			
		Modified MM LAND-04: Operation of Project Components – The City of Escalon shall implement mitigation measures described in the Air Quality and Noise Section.	Throughout the implementation of the proposed Project.	The City of Escalon, Project contractor	Date: _____ Initials: _____
Noise	a) 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?	MM NOI-01: Construction Noise Attenuation- <ol style="list-style-type: none"> 1. During all Project Site excavation and grading, construction contractors shall equip all construction equipment, fixed or mobile, with properly operating and maintained mufflers, consistent with manufacturer standards. 2. The contractor shall place all stationary construction equipment so that emitted noise is directed away from the noise-sensitive receptors nearest the project site. One-inch plywood or acoustic blankets capable of achieving a reduction level of at least 10 dB shall be used to keep equipment noise from exceeding the 80 dBA noise level standard. 3. Equipment shall be shut off and not left to idle when not in use. 4. Whenever possible, electric power will be used instead of internal combustion engine power. 5. The contractor shall locate equipment staging in areas that will create the greatest distance between construction-related noise/vibration sources and sensitive receptors nearest the Project Site during all project construction. 6. Jackhammers, pneumatic equipment, and all other portable stationary noise sources shall be shielded, and noise shall be directed away from sensitive receptors. 7. The Project proponent shall mandate that the construction contractor prohibit the use of music or sound amplification on the Project Site during construction. 8. The construction contractor shall limit haul truck deliveries to the same hours specified for construction equipment. 	Throughout Project construction.	City of Escalon, Project contractor	Date: _____ Initials: _____





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Noise	a) Continued...	<p>MM NOI-02: Stationary Source Noise- Option 1 Prior to Project construction, the Project contractor and the City of Escalon shall verify with sound measurements that the 125-kW diesel generator does not exceed 82 dB at 3 feet or a sound power level of 90; along with the proposed 25 Hp with a sound pressure level of 80 dB at 3 feet (sound power level of 88) and the proposed HVAC condenser with a sound pressure level of 62 dB at 3 feet (power level of 70). See Figure 13: BPS Operational Noise Levels.</p> <p>In addition, to ensure that operational noise levels do not exceed 65 CNEL during high demand, the Project contractor and City engineers shall require (measure, confirm, and monitor during site inspections) on an ongoing basis each 50 Hp pump does not have a noise level that exceeds 64 dB at a distance of 3 feet (sound power level of 72). See Figure 13: BPS Operational Noise Levels.</p> <p>OR</p> <p>Option 2 Prior to the issuance of building and grading permits, the City of Escalon engineering department shall verify Project plans including the construction of a 10-foot-high concrete barrier along the northern edge of the pad proposed for the pumps and a 7-foot-high barrier along the eastern boundary of the Booster Pump Station. See Figure 13: BPS Operational Noise Levels.</p> <p>OR</p> <p>Option 3 Prior to the issuance of building and grading permits, the City of Escalon engineering department shall verify Project plans including the construction of an 8-foot-high concrete barrier along the northern boundary of the existing parking lot and a 6-foot barrier along the eastern</p>	Throughout Project construction.	City of Escalon, Project contractor	Date: _____ Initials: _____





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Noise	a) Continued...	edge of the pump area pad, parallel to Escalon-Bellota Road. Figure 13: BPS Operational Noise Levels.			
Public Services	a) 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 any of the public services: I. Fire Protection? II. Police Protection? III. Schools? IV. Parks?	See Mitigation Measure Modified MM TRAF-01: Traffic Control Plan.	Upon finalizing the Project plans	City of Escalon, Licensed Traffic Engineer	Date: _____ Initials: _____
	I. Schools?	See Mitigation Measure Modified MM TRAF-02: Coordinate Traffic Plan with EUSD.	Prior to Project construction	City of Escalon, Escalon Unified School District, Project contractor	Date: _____ Initials: _____
Transportation	b) Conflict or be inconsistent with CEQA Guidelines § 15064.3, subdivision (b)?	Modified MM TRAF-01: Traffic Control Plan- Upon the finalization of a detailed pipeline alignment design, the City of Escalon shall arrange for a Traffic Control Plan to be prepared by a licensed traffic engineer, for all project-affected roadways and intersections. The Traffic Control Plan shall comply with requirements in encroachment permits issued by San Joaquin County. The Traffic Control Plan to be prepared by the construction contractors shall include, but not be limited to, the following measures: - Maintain the maximum amount of travel lane capacity during non-construction periods, with all trenches covered with steel plates, and	Upon finalizing the Project plans	City of Escalon, Licensed Traffic Engineer	Date: _____ Initials: _____





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Transportation	b) Continued...	<p>provide flagger control at all construction sites to manage traffic control.</p> <ul style="list-style-type: none"> - Limit the construction work zone in each block to a width that, at a minimum maintenance alternates one-way traffic flow past the construction zone. Alternatively, use detour signing on alternate access streets when temporary full streets closure is required. - Restrict construction to non-peak traffic periods as required for specific work sites in encroachment permits. Weekend and night work shifts may be considered in non-residential areas only. - Coordinate construction activities (time of year and duration) to minimize traffic disturbances adjacent to commercial areas (e.g., avoid the peak of Christmas, and holiday shopping period), dairies, and the Atlanta Cemetery. - Post advanced warnings of construction activities (e.g., signs, articles in newspapers, notices on radio/TV, etc.) to allow motorists to select alternative routes in advance. 			
	d) Result in inadequate emergency access?	<p>Modified MM TRAF-02: Coordinate Traffic Plan with EUSD - Prior to Project construction, the City of Escalon shall develop comprehensive strategies for maintaining emergency access for sensitive land uses such as Escalon police and fire stations, and Escalon Unified School District in consultation with the facility owner or administer, as part of the Traffic Control Plan for roadway segments and intersections. Strategies shall include but are not limited to, maintaining steel trench plates at the construction sites to restore access across open trenches, parking of fire trucks outside the firehouse on the side of the street opposite the construction during affected work hours, and identification of alternate routing around construction zones. Also, police, fire, and other emergency service providers shall be notified of the timing location, and duration of construction activities throughout the project, and the location of detours and lane closures. In addition, the Project contractor must share the traffic control plan with the Escalon Unified School District to coordinate best management practices during peak operational hours (pickup and drop-offs) at Escalon High School.</p>	Prior to Project construction	City of Escalon, Escalon Unified School District, Project contractor	Date: _____ Initials: _____





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Transportation	D) Continued...	<p>Modified MM TRAF-03: Advanced Notice- Prior to construction activities along the Project alignment and at the site of the FCF, and BPS, the City of Escalon shall require a minimum 72-hour advance notice of access restrictions for residents and businesses. Affected residents and businesses shall be advised of the requirements for moving motor vehicles out of the area to be closed.</p>	Prior to construction activities along the Project alignment and site of FCF and BPS	City of Escalon	Date: _____ Initials: _____
		<p>Modified MM TRAF-04: Off-Street Construction Parking- During construction activities, the City of Escalon may require the contractor(s) to provide off-street parking for construction worker’s vehicles in the vicinity of the work zone, or workers may be shuttled to the work from an off-site location.</p>	During construction activities	City of Escalon, Project contractor(s)	Date: _____ Initials: _____
		<p>Modified MM TRAF-05: Warning Signs- As part of the Traffic Control Plan(s) for roadway segments and intersections, the City of Escalon shall ensure that such plans stress advance “Road Work Ahead” warning signs and speed control (including signs informing drivers of State-legislation double fines for speed infractions in a construction zone) to achieve required speed reductions for safe traffic flow through the work zone.</p>	During construction activities	City of Escalon, Project contractor(s)	Date: _____ Initials: _____
		<p>Modified MM TRAF-06: Bicyclists and Pedestrians- Prior to construction activities, the City of Escalon shall incorporate into contract specifications for all project components that require that traffic control plans include detours for bicyclists and pedestrians in all areas potentially affected by project construction.</p>	Prior to Project construction	City of Escalon, Project contractor(s)	Date: _____ Initials: _____
		<p>Modified MM TRAF-07: Encroachment Permit- Before the approval of Project plans, the City of Escalon shall obtain encroachment permits from affected jurisdictions before construction of the project, and comply with haul route designations, and roadway wear monitoring and repairs conditions.</p>	Prior to Project construction	City of Escalon, Project contractor(s)	Date: _____ Initials: _____





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Issue	Potentially Significant Impact reduced to Less than Significant Impact	Recommended Mitigation Measure	Timing	Responsible Party	Date Completed and Initials
Tribal Cultural Resources	a) Would the Project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code § 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is: i. Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k), or ii. A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code § 5024.1. In applying the criteria set forth in subdivision (c) of Public Resource Code § 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe.	MM TRI-01: Agreements, Consulting, and Monitoring with Affiliated Tribes. Prior to the issuance of grading or building permits, the City of Escalon shall secure agreements with Consulting Tribes for monitoring. The City will be required to provide 30 days’ advanced notice to the tribes of all ground-disturbing activities. The Native American Tribal Representatives shall have the authority to temporarily halt and redirect earth-moving activities in the affected area if suspected tribal resources are unearthed. The Native American Monitor(s) shall attend the pre-construction crew training with the Project Archaeologist, City, the construction manager, and any contractors pursuant to Modified MM CUL-01: (Ground Inspection) Pre-Construction Crew Training. The training will include a Tribal Perspective of the mandatory Cultural Resources Worker Sensitivity Training for those in attendance.	Prior to the issuance of grading or building permits	City of Escalon, Consulting Tribes	Date: _____ Initials: _____
		MM TRI-02: Diversity of Buried Tribal Cultural Resources. If sub-surface cultural resources are discovered during ground-disturbing activities (inadvertent discoveries), the following shall be carried out for final disposition of the discoveries: 1. Preservation-in-Place: The cultural resource shall be preserved in place by the Project contractor if possible. Preservation-in-Place means avoiding the resources and leaving them in place where they were found with no development affecting the integrity of the resources. All work around the inadvertent discoveries shall be halted until the Project archeologist or representative from a Consulting Tribe is notified and onsite for retrieval. 2. Notify Consulting Tribes: Prior to the reburial or resuming construction activities, tribes must be notified immediately by the District regarding the treatment and disposition of artifacts. 3. Reburial: Onsite reburial of the discovered items shall be reburied; and the reburial area shall be protected from any future impacts in perpetuity. Reburial shall not occur until all legally required cataloging and basic recordation have been completed. No recordation of sacred items is permitted without the written consent of all Consulting Tribes. The	In the event, subsurface cultural resources were discovered during ground-disturbing activities.	City of Escalon, Project contractor, Project archeologist or representative from a Consulting Tribe	Date: _____ Initials: _____





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Tribal Cultural Resources	a) i) & ii) Continued...	location for the future reburial area shall be identified on a confidential exhibit on file with the City and concurred to by the Consulting Tribes prior to certification of the environmental document.			
		SC TRI-01: AB 52: Prior to Project construction, the City of Escalon shall complete coordination with the local tribes pursuant to AB 52. If a response has not been received within two weeks of notification, the City of Escalon might follow up with a telephone call or email to ensure that the Project information has been received and reviewed by each respective tribe.	Prior to Project construction	City of Escalon, Consulting Tribes	Date: _____ Initials: _____
Utilities and Services	a) Require or result in the relocation or construction of new or expanded water, wastewater treatment or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects?	<p>Modified MM UTL-01- Existing Utilities- A detailed study identifying utilities within areas subject to earthwork with the Project construction shall be conducted during the pre-design stages of the Project. For project components with utility conflicts, the following mitigations are identified:</p> <ul style="list-style-type: none"> - Utility excavation or encroachment permits shall be required from the appropriate agencies. These permits include measures to minimize utility disruption. The City and its contractors shall comply with permit conditions, and such conditions shall be included in construction contract specifications. - Utility locations shall be verified through field survey (potholing) and use of the Underground Service Alert (USA) services. - Detailed specifications shall be prepared as part of the design plans to include procedures for the excavation, support, and fill of areas around utility cables and pipes. All affected utility services shall be notified of the City's construction plans and schedule. Arrangements may be made with these entities regarding protection, relocation, or temporary disconnection of services. - The City shall employ special construction techniques in areas where the water transmission pipeline is located parallel to wastewater pipelines. These special measures, which shall be 	Prior to Project construction and throughout Project construction.	City of Escalon, Project contractor(s)	Date: _____ Initials: _____





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Utilities and Services	a) Continued...	<p>included in the engineering specifications, may include trench wall-support measures to guard against trench wall failure and possible resulting loss of structural support for the water pipeline.</p> <ul style="list-style-type: none"> - Residents and businesses in the project area shall be notified of planned utility service disruption two to four days in advance, in conformance with county and state standards. 			
		<p>Modified MM UTL-02: Utility Conflicts- In order to reduce potential impacts associated with utility conflicts, the following measures shall be implemented in conjunction with Modified MM UTL-01- Existing Utilities:</p> <ul style="list-style-type: none"> - Disconnected cables and lines shall be reconnected promptly - Based on the utilities investigation to be conducted by City of Escalon and shall consult with any entities having utility conflicts with the proposed project to negotiate relocation efforts or other plans to resolve the conflict. - The City of Escalon shall observe DHS standards which require: 1) a 10-foot horizontal separation between parallel sewer and water pipelines (gravity or force pipelines); 2) a 1-foot vertical separation between perpendicular water and sewer line crossings (in the event that separation requirements may not be maintained, the City shall obtain DHS variance through provisions of sewer encasement, or other means deemed suitable by DHS); and 3) encasing water pipelines in protective sleeves where the pipeline crosses under or over an existing wastewater pipeline. 			<p>Date: _____</p> <p>Initials: _____</p>
Wildfire	a) Substantially impair an adopted emergency response plan or emergency evacuation plan?	See Mitigation Measure Modified MM TRAF-01: Traffic Control Plan.	Upon finalizing the Project plans	City of Escalon, Licensed Traffic Engineer	Date: _____ Initials: _____
		See Mitigation Measure Modified MM TRAF-02: Coordinate Traffic Plan with EUSD.	Prior to Project construction	City of Escalon, Escalon Unified School District, Project contractor	Date: _____ Initials: _____

