

Attachment A

Mitigation Measures and Conditions of Project Approval with MMRP

Jamestown Sanitary District Wastewater Facilities Upgrades #1 Project

Prior to Site Disturbance:

1. **Mitigation Measure AQ-2 Site Preparation**

Secure applicable permits from the Tuolumne County Air Pollution Control District prior to burning vegetation on the project site. Construction debris should not be burned on the site. Prior to land clearing involving vegetation removal, the applicant shall secure a burn permit, or evidence of waiver, from the Tuolumne County Air Pollution Control District and the California Department of Forestry and Fire Protection, as applicable.

Mitigation Monitoring AQ-2: The required mitigation measure will be implemented prior to site disturbance and throughout site preparation. The measure is the responsibility of the construction contractor.

2. **Mitigation Measure BIO-1: Preconstruction FYLF Surveys (Woods Creek)**

Preconstruction surveys should be conducted prior to site disturbance to re-confirm absence of FYLF within 24 hours of commencing site disturbances (including staging). The JSD, or its representative, shall have a qualified biologist survey for FYLF within all potential habitats. If surveys are negative (i.e., no FYLF), mitigation measure BIO -2 will be implemented. If surveys are positive (FYLF are identified), mitigation measures BIO-2 through BIO-5 shall be implemented *and* a qualified biologist shall be present on site during all construction activities within 200 feet of Woods Creek. The qualified biologist shall have the authority to stop work at any time as may be necessary to protect FYLFs or their habitat.

Mitigation Monitoring BIO-1: The measure shall be implemented by a qualified biologist (within 24 hours of commencing site disturbances (including staging)). If construction is delayed or occurs in phases, a re-survey must be completed prior to recommencing work after a shut-down period of more than three months. The construction contractor is responsible for ensuring that the Project Biologist is notified with ample time to complete the survey and consult with CDFW, if necessary. If on-site biological monitoring is required throughout project construction for any activity within 200 feet of Woods Creek, a monitoring schedule shall be executed prior to commencing construction between the Project Biologist and the contractor.

3. **Avoidance and Minimization Measure BIO-2: ESA Fencing (Woods Creek)**

Prior to commencing staging, construction, ground-disturbing or other project activities, install Environmentally Sensitive Area (ESA) fencing shall be installed at the top of the bank along Woods Creek. Fencing shall remain in place until all project activities are completed. Any fencing falling down during construction shall be re-installed immediately. No parking shall occur adjacent to ESA fencing. No construction-related materials, equipment, trash or other related debris shall be

allowed, stored, or staged within the fenced area. ESA fencing shall be shown on the final construction documents.

Mitigation Monitoring BIO-2:

ESA fencing shall be shown on final construction documents. ESA fencing shall be installed prior to commencing any staging, construction, ground disturbances or other project activities in the locations identified. The Project Biologist shall be notified by the construction contractor to confirm that ESA fencing has been properly installed prior to commencing site disturbances. Unannounced site visits by JSD and/or the Project Biologist will occur to confirm fencing remains in place throughout project construction. The construction contractor is responsible for maintaining the fencing throughout project construction and reinstalling any fencing that is knocked down during construction immediately.

4. Avoidance and Minimization Measure BIO-3: Staging and Spill Prevention (Woods Creek)

Staging, fueling and maintenance activities less than 50 feet from the top of the bank of Woods Creek will only be allowed with authorization of the project biologist. The project proponent will prepare a spill prevention and clean-up plan.

Mitigation Monitoring BIO-3: Prior to commencing site disturbance or staging equipment, the construction contractor shall provide a staging and spill prevention plan to JSD for compliance with this measure. Reduced setbacks must be approved prior to staging by the Project Biologist.

5. Avoidance and Minimization Measure BIO-4: Environmental Awareness Training (Woods Creek)

All contractors involved in site development, affected JSD personnel, will attend a mandatory Environmental Awareness Training prior to any site disturbances, including staging. A training log sign-in sheet will be maintained. The program will address proper implementation of minimization and avoidance measures contained herein. A video shall be prepared and is mandatory viewing prior to entering the project site for contractors or personnel not participating in initial training. Construction personnel shall be informed that if a FYLF is encountered in the work area, construction will stop and CDFW will be contacted for guidance.

Mitigation Monitoring BIO-4

The required mitigation measure will be implemented prior to site disturbance and for new employees prior to commencing site work. The Project Biologist or other environmental consultant may be contracted by JSD to accomplish this task. JSD is responsible for contracting with a qualified entity to provide Environmental Awareness Training. Ensuring that all on-site workers have received training prior to working on site is the responsibility of the construction contractor.

6. Mitigation Measure BIO-6: Preconstruction Survey/Relocation for Northwestern Pond Turtles (WPT)

Prior to the start of earth-disturbing activities (e.g., clearing, grading, trenching, etc.) in and/or adjacent to the wastewater treatment ponds and other aquatic habitats (i.e., Woods Creek) in which turtles could be present, a qualified biologist shall conduct a survey for western pond turtles. The preconstruction surveys shall be conducted on the day that earth-disturbing activities are initiated adjacent to aquatic habitats in which

turtles could be present. The surveys shall include an evaluation of all portions of the work areas and an appropriate upland buffer. If western pond turtles are observed in the work area at any time during the construction period, California Department of Fish and Wildlife (CDFW) staff shall be contacted to identify actions to be taken to ensure that the turtle(s) is/are not adversely affected.

Although not planned, if any dewatering should occur (i.e., ponds, drying beds), it will be limited to between October and January. Supplemental dewatering of subsequent precipitation accumulations may be conducted on a periodic basis between the initial dewatering and the start of construction to minimize the potential for pond turtle occupation.

Mitigation Monitoring BIO-6: The measure shall be implemented on the date of earth-disturbing activities adjacent to WWT ponds and other aquatic habitats by a qualified biologist. The construction contractor is responsible for ensuring that the Project Biologist is notified immediately when a WPT is found within the construction boundaries during construction. The Project Biologist is responsible for notifying CDFW.

7. Mitigation Measure BIO-9: Preconstruction Survey Birds

Prior to construction occurring between February 1st and August 30th (e.g., excavation, ground disturbance, or vegetation removal) a preconstruction survey for nesting birds will be conducted in accordance with the CDFW guidelines and a no-disturbance buffer will be established, if necessary.

If equipment staging, site preparation, vegetation removal, grading, excavation or other project-related construction activities are scheduled during the avian nesting season (generally February 1 through August 30), a focused survey for active nests would be conducted by a qualified biologist within 14 days prior to the beginning of project-related activities.

Surveys shall be conducted in all suitable habitats in the area.

If the pre-construction surveys identify nesting bird species within areas that are within 500 feet of construction activities for non-raptors and within 0.5 mile for raptors, the following shall be implemented:

- A. Project-related construction impacts shall be avoided by establishment of appropriate no-work buffer zones to limit construction activities near the nest site. The no-work buffer zone shall be delineated by highly visible temporary construction fencing and shall be a minimum of 500 feet from non-raptor nests and 0.5 mile from raptor nests, unless a qualified biologist, in consultation with CDFW, determines that alternative buffers are permissible due to the nature and location of the specific species, its nest, and existing conditions to which the species has been habituated. Alternative buffers shall be established for special status non-raptor nests in consultation with CDFW.
- B. In consultation with CDFW, monitoring of nest activity by a qualified biologist shall be required if the construction activity has potential to adversely affect the nest or nesting behavior of the bird.

- C. No construction activity shall commence within the no-work buffer zone until a CDFW-approved qualified biologist confirms that the nest is no longer active (e.g., young have fledged).
- D. Canada geese depredation and cliff swallow nest management are exceptions to these provisions per **Mitigation Measure BIO-10** and **Mitigation Measure BIO-11**.

Mitigation Monitoring BIO-9: The measure shall be implemented prior to any construction occurring between February 1st and August 30th of the construction year. If construction is delayed or occurs in phases, a re-survey must be completed prior to recommencing work after a shut-down period of more than three months if construction occurs between February 1st and August 30th of the construction year. The construction contractor is responsible for ensuring that the Project Biologist is notified with ample time to complete the survey and consult with CDFW, if necessary.

8. Mitigation Measure BIO-10 Canada Goose Depredation (Quartz)

Pursuant to 50 Code of Federal Regulations Section 21.50, should a nesting Canada goose be identified within proposed work boundaries, depredation may occur by registering online with the USFWS². Depredation will occur, if necessary, in the form of a qualified biologist treating unhatched eggs to ensure that they do not hatch.

Mitigation Monitoring BIO-10:

The measure shall be implemented based on preconstruction surveys conducted by the Project Biologist. Because the species can nest post-surveys, the construction contractor is responsible for reporting any new nesting activity to the Project Biologist if it is observed within the work area. The Project Biologist is responsible for determining the appropriate measures and implementing them.

9. Mitigation Measure BIO-11 Cliff Swallow Nest Management (Quartz and Woods Creek)

The following methods may be used to remove and discourage cliff swallow nests where eggs or chicks are not present:

Before birds arrive:

- Old nests can be reused. Get rid of any potential nests before the birds arrive from winter migration. Get rid of old nests including any traces of mud.
- Place physical barriers on potential nesting sites to prevent birds from nesting. Appropriate products including, but are not limited to: coroplast, polytetrafluoroethylene (Teflon), Bird Slide™, plexiglass, plastic sheeting, or silicon-based paint coated to the surface. Physical barriers may be a permanent deterrent in preventing birds from nesting in nuisance locations.
- Netting should have a maximum size of ¾" squares. Netting or wire mesh should be hung diagonally to cover areas where swallows could build nests — typically anyplace like an eave or where a roof and wall meet.

² <https://epermits.fws.gov/eRCGR/> and <https://www.fws.gov/forms/3-200-13.pdf>

- Surfaces can also be covered with materials hung vertically to prevent birds from getting to their preferred building sites.
- Bird spike sticks and bird barriers can be purchased and installed to prevent birds from building nests.
- For places where there is an open entry way, vinyl plastic hung in overlapping strips may be used. This is essentially a doorway curtain similar to what you may see in a grocery store for workers in refrigerated areas.

After birds arrive:

- Wash away mud nests frequently, in between nest construction. They may eventually give up on that site if they are not successful in building a nest. JSD may only destroy nests that do not have eggs or chicks within.
- Play sounds of alarm and distress calls of cliff and barn swallows to disrupt nest construction. This provision may only be used with noise aimed at nest building activities and not towards adjoining landowners. It is subject to the same noise mitigation measures as the overall project.

NOTE: Use protective gear (i.e., N95 masks or respirator and gloves) to protect workers performing these tasks from parasites, mites, and feces that may be present.

Mitigation Monitoring BIO-11:

The measure shall be implemented throughout the year preceding project construction and is the responsibility of the JSD.

10. Mitigation Measure CULT-1: Mann Site

On the Quartz site, prior to initiating any new site disturbances, environmentally sensitive area (ESA) fencing shall be installed, monitored, and maintained from the start to end of construction surrounding the Mann cultural resource site. No construction or equipment shall intrude into the Historic (:H) combining zone district on the project site. Should fencing fall down, it shall be immediately replaced before continuing with construction activities. If the site is to be maintained, it shall be fully avoided throughout the life of the project, the :H (Historic Combining District) zone shall be maintained, and the site shall be incorporated into project design.

Alternatively, prior to site disturbance within 50' of the site, (including removal of the irrigation system and/or fill soil associated with the previous tree farm), conduct archaeological testing to evaluate the Mann Site for eligibility for the California Register/National Register of Historic Places. The evaluation shall be completed by a professional meeting the Secretary of the Interior's Qualification Standards. If archaeological testing demonstrates that the site is essentially surface in nature or that it is not eligible, no further work will be necessary and the results of the study shall be submitted to the County in support of removing the :H (Historic Combining District) zone. If the resource is recommended as eligible, then mitigation may include, but not be limited to, one or a combination of the following: a) protection from adverse impacts, b) data recover, c) incorporating the feature into project design, or some other method to be developed of addressing adverse effects as recommended by the qualified

professional.

Mitigation Monitoring CULT-1

The :H (Historical) combining district was previously added to the site for its protection. The mitigation measure shall be implemented prior to commencing any new site disturbances. The measure is the responsibility of the construction contractor.

11. Mitigation Measure BIO-7/GEO-1/HYDRO-1: Erosion Control

The Contractor shall prepare an Erosion Control Plan for JSD review and approval to address soil erosion within those areas. All soils disturbed by grading shall be reseeded or hydromulched or otherwise stabilized 48 hours in advance of a rain event. A likely rain/precipitation event is any weather pattern that is forecasted to have a 30% or greater chance of producing precipitation in the project area. The discharger shall obtain likely precipitation forecast information from the National Weather Service Forecast Office (e.g., by entering the zip code of the project's location at <https://www.weather.gov/forecastmaps>). A qualifying rain event is one that produces 0.5 inch or more of precipitation within a 48 hour or greater period between rain events. Emergency erosion control measures shall be used as reasonably requested by JSD.

Mitigation Monitoring BIO-7

The required plan will be implemented prior to site disturbance and implemented 48 hours in advance of any rain event. The measure is the responsibility of the construction contractor.

12. Mitigation Measure BIO-8/GEO-2/HYDRO-2: NPDES/SWPPP

If necessary, submit to the State Water Resources Control Board Storm Water Permitting Unit, a Notice of Intent (NOI) to obtain coverage under the General Construction Activity Storm Water Permit - California's National Pollution Discharge Elimination System (NPDES) general permit for construction related storm water discharges for the disturbance of one acre or more. Disturbances of less than one acre may also require an NOI for coverage under the NPDES General Permit for construction-related storm water discharge and the State Water Resources Control Board Permitting Unit shall be contacted for determination of permit requirements. Commercial and Industrial developments may require an NOI even if less than one acre is to be disturbed. Obtain coverage or an exemption from these requirements. [Federal Water Pollution Control Act, Section 401, California Clean Water Act]. The permit may include preparation of a Stormwater Pollution Prevention Plan (SWPPP).

Silt fencing or other materials, as required, will be installed consistent with the applicable water quality requirements specified in the Project's Storm Water Pollution Prevention Plan (SWPPP) or Water Pollution Control Plan (WPCP). Fencing or other erosion control materials or devices shall be shown on the final construction documents. Erosion control devices will be avoided throughout Project construction and shall be monitored and maintained by the project manager throughout construction.

Mitigation Monitoring BIO-8

The Notice of Intent to obtain Coverage shall be submitted prior to any site disturbances. The measure is the responsibility of the construction contractor.

13. Mitigation Measure GEO-3: Geotechnical Studies - Quartz

Prior to commencing construction at the Quartz site, the project proponent shall conduct testing for expansive soils and soil suitability in accordance with District standards to identify and incorporate any necessary design considerations. A previously prepared geotechnical study may be used, if soils studies were conducted in proposed disturbance areas.

Mitigation Monitoring GEO-3:

The studies shall be completed prior to commencing construction and finalizing construction plans. The District is responsible for this measure.

14. Mitigation Measure TCR-1: Native American Monitoring

Prior to issuance of a Grading Permit, the applicants shall contact the Chicken Ranch Band of MiWuk and arrange to have a Native American monitor present during site grading for the new on-site storage pond and its connections to and from the Quartz WWTF.

Mitigation Monitoring TCR-1: Native American Monitoring

The mitigation measure will occur prior to issuance of a Grading Permit. The project contractor is responsible for contacting the Chicken Ranch Band of MiWuks to arrange for a monitor. Payments or contracting between the parties, if it occurs, is the responsibility of the contractor and Native American monitor.

Throughout project construction:

15. Mitigation Measure: AQ-1 Implement Naturally Occurring Asbestos Emission Reduction Control Measures

The JSD will comply with the asbestos Airborne Toxic Controls Measure (ATCM) for Surfacing Applications (17 CCR 93106) , and the asbestos ATCM for Construction, Grading, Quarrying, and Surface Mining Operations (17 CCR 93105). Complying with these ATCMs would reduce the potential for entraining NOA, and reduce this impact to a less-than-significant level.

- The Asbestos ATCM for Surfacing Applications restricts the asbestos content of material used in surfacing applications such as unpaved roads, parking lots, driveways, and walkways. The purpose of this ATCM is to reduce public exposure to NOA from unpaved surfaces. A description of this ATCM is presented at the internet link <http://www.arb.ca.gov/toxics/asbestos/atcm/regadv1101.pdf>. Regulatory text for this ATCM is presented in 17 CCR 93106, and at the internet link <http://www.arb.ca.gov/toxics/atcm/asbeatcm.htm>.
- The Asbestos ATCM for Construction, Grading, Quarrying, and Surface Mining Operations requires the implementation of mitigation measures to minimize emissions of asbestos-laden dust. The purpose of this ATCM is to reduce public exposure to NOA from construction and mining activities that emit or re-suspend dust which may contain NOA. A description of this ATCM is presented at the internet link <http://www.arb.ca.gov/toxics/asbestos/atcm/regadv0702.pdf>. Regulatory text for this ATCM is presented in 17 CCR 93105, and at the internet link <http://www.arb.ca.gov/toxics/atcm/asb2atcm.htm>.

Mitigation Monitoring AQ-1: The mitigation measure shall occur throughout project construction. It is the responsibility of the District and the project contractor. JSD shall include this provision in bid documents to ensure compliance.

16. Mitigation Measure AQ-4 TCAPCD Compliance

All construction and operations shall comply with all TCAPCD Rules and regulations.

Mitigation Monitoring AQ-4: The required mitigation measure will be implemented throughout the life of the project. The measure is the responsibility of the construction contractor during construction and JSD throughout the life of the project.

17. Mitigation Measure AQ-5 Construction Emissions

Exposed soils shall be watered as needed to control wind borne dust. The construction contractor shall be responsible for dust abatement during construction and development operations. A water truck or other watering device shall be on the construction site on all working days when natural precipitation does not provide adequate moisture for complete dust control. Said watering device shall be used to spray water on the site at the end of each day and at all other intervals, as need dictates, to control dust. All land clearing, grubbing, scraping, excavation, land leveling, grading, cut & fill, and demolition activities shall be effectively controlled of fugitive dust emissions using application of water. A water truck shall be present on site throughout construction activities.

Exposed piles of dirt, sand, gravel, or other construction debris shall be enclosed, covered and/or watered as needed to control wind borne dust.

Vehicle trackout shall be minimized through the use of rumble strips and wheel washers for all trucks and equipment leaving the site [where mud deposits could affect the drivability or drainage of the existing off-site dirt roadway](#).

Sweep streets once a day if visible soil materials are carried to adjacent streets (recommend water sweepers with reclaimed water).

On-site vehicle speed shall be limited to 10 miles per hour on unpaved surfaces.

Loads on all haul/dump trucks shall be covered securely or at least two feet of freeboard shall be maintained on trucks hauling loads.

Throughout Project construction:

Construction equipment shall be maintained and tuned at the interval recommended by the manufacturers to minimize exhaust emissions.

Equipment idling shall be kept to a minimum when equipment is not in use.

Construction equipment shall be in compliance with the California Air Resources Board off-road and portable equipment diesel particulate matter regulations.

Mitigation Monitoring AQ-5: The required mitigation measure will be implemented throughout Project construction. The measure is the responsibility of the construction contractor.

18. Avoidance and Minimization Measure BIO-5: Stop Work (Woods Creek)

If FYLFs are found at any time during project work, construction will stop and CDFW will be contacted immediately for further guidance.

Mitigation Monitoring BIO-5

The measure shall be implemented throughout project construction and is the responsibility of the construction contractor. The project biologist has the authority to issue a stop work order pursuant to this measure.

19. Avoidance and Minimization Measure BIO-12: Hours of Construction.

Project construction shall be limited to 7:00 a.m. to 7:00 p.m. unless an emergency situation exists.

Mitigation Monitoring BIO-12:

The measure shall be implemented throughout project construction and is the responsibility of the construction contractor. JSD has the authority to determine if an emergency situation exists and alternative hours may be implemented. JSD is responsible for enforcing the measure if complaints are received.

20. Mitigation Measure BIO-13: Avoid Inadvertent Animal Trapping During Construction

To avoid inadvertently trapping special status or common animal species during construction, all excavated steep-walled holes or trenches more than two feet deep shall be covered at the end of each working day with plywood or similar material, or provided with one or more escape ramps constructed of earth fill or wooden planks, or equivalent, at each end of the trench. Before such holes or trenches are filled, they will be thoroughly inspected for trapped animals. If at any time a trapped animal is discovered, the contractor shall place an escape ramp or other appropriate structure to allow the animal to escape. Alternatively, the contractor shall contact the project biologist or California Department of Fish and Wildlife for assistance. Similarly, stored pipes or other materials providing potential cover for animals will be inspected prior to installation or use to ensure that they are unoccupied.

Mitigation Monitoring BIO-13: The measure shall be implemented throughout project construction. The project biologist and/or JSD staff are responsible for making unannounced inspections to ensure that the measure is being properly implemented and maintained. It is the responsibility of the construction contractor to implement the measure.

21. Best Management Practices – Large Native Oak Preservation (Quartz)

To the maximum extent feasible and practicable, throughout project construction activities occurring within one and one-half times the driplines of native oaks (e.g., black oaks, *Quercus kelloggii*) measuring 24" or greater in diameter at breast height:

- Limit ground-disturbing activities to outside the dripline of native oaks and preferably outside one and one-half times the dripline;
- No storage equipment, supplies, vehicles, debris, construction wastewater, paint, stucco, concrete or any other clean-up waste, and temporary or permanent structures shall be placed within the driplines

- Avoid cutting oak roots
- Use boring or trenchless installation rather than open trenching within driplines where possible
- Avoid equipment damage to limbs, trunks, and roots of oaks trees
- Do not attach signs, ropes, cables or other items to trees

The measure will be implemented throughout project construction activities occurring within the one and one-half times the driplines of native oaks measuring 24" or greater in diameter at breast height. The measure is the responsibility of the construction contractor.

22. Mitigation Measure CULT-2: Inadvertent Discoveries

If a cultural resource is discovered during construction activities, the contractor shall comply with the following provisions:

- A. The Contractor's project manager shall notify the Jamestown Sanitary District by telephone within 1 hour of the discovery or the next working day if the department is closed. JSD shall promptly notify their qualified professional archaeologist.
- B. When the cultural resource is located outside the area of disturbance, a qualified professional shall be allowed to photodocument and record the resource and construction activities may continue during this process.
- C. When the cultural resource is located within the area of disturbance, all activities that may impact the resource shall cease immediately upon discovery of the resource. All activity that does not affect the cultural resource as determined by a qualified professional may continue. A qualified professional archaeologist shall be allowed to do a site survey to ascertain the need for evaluation work.
- D. When the cultural resource is determined to not be significant, the qualified professional shall be allowed to photodocument and record the resource. Construction activities may resume after authorization from a qualified professional.
- E. When a resource is determined to be significant, the resource shall be avoided with said resource having boundaries established around its perimeter by a qualified professional or a cultural resource management plan shall be prepared by a qualified professional to establish measures formulated and implemented in accordance with Sections 21083.2 and 21084.1 of the California Environmental Quality Act (CEQA) to address the effects of construction on the resource. The qualified professional shall be allowed to photodocument and record the resource. Construction activities may resume after authorization from a qualified professional.

For the purposes of implementing this measure, a "qualified professional" is an individual previously determined to be a qualified professional by the Tuolumne County Community Development Department Planning Division

(<https://www.tuolumnecounty.ca.gov/DocumentCenter/View/9984>) and a “cultural resource” is any building, structure, object, site, district, or other item of cultural, social, religious, economic, political, scientific, agricultural, educational, military, engineering or architectural significance to the citizens of Tuolumne County, the State of California, or the nation which is 50 years of age or older or has been listed on or is eligible for listing on the National Register of Historic Places, the California Register of Cultural Resources, or any local register.

Mitigation Monitoring CULT-2: The required mitigation measure will be implemented throughout project construction. The measure is the responsibility of the construction contractor with input from a qualified cultural resources professional, if necessary.

23. Mitigation Measure CULT-3 Treatment of Human Remains and Sacred Objects

No human remains or sacred objects have been identified in the project area, but there is always a possibility that excavation, or other actions could expose human burials previously unknown. Such remains are protected by state and federal laws and all project personnel must comply fully with applicable laws regarding the treatment of human remains including contacting the County coroner. The policies set forth in the American Indian Religious Freedom Act of 1978 and amendments (92 Stat. 469) should be honored by JSD and its contractors. If the discovery is on private land, provision for treatment and disposition of any human remains will be in accordance with Section 7050.5 of the California Health and Safety Code, Sections 5097.94, 5097.98, of the California Public Resources Code, and Section 15064.5 of the California Code of Regulations implementing the California Public Resources Code, Sections 21000-21177.

Mitigation Monitoring CULT-3. The required mitigation measure will be implemented throughout project construction. The measure is the responsibility of the construction contractor and, where necessary, the County Coroner, and/or qualified archaeologist.

24. Mitigation Measure Noise-1

- All construction equipment will have sound-control devices no less effective than those provided on the original equipment. No equipment shall have an un-muffled exhaust system.
- All equipment (i.e., construction equipment and trucks) will be limited to ten (10) or fewer minutes of idling time.
- Construction activities shall be limited to between the hours of 7:00 A.M. and 7:00 P.M. Monday through Saturday. Exterior construction shall be prohibited on Sunday and JSD holidays except in cases of emergency.

Mitigation Monitoring Noise-1: The measure shall occur throughout project construction. It is the responsibility of the construction contractor.

Prior to project completion:

25. Project Design Feature:

A solid evergreen landscaping screen will be planted between the emergency storage pond and 10255 Karlee Lane. Planting materials will exclude trees with seeds that may easily spread to the rare plant habitat located west of the project site (i.e., no

cottonwoods, no willows). Landscape trees shall be incense cedar (*Calocedrus decurrens*), Texas privet, or Leyland cypress (*Cupressus × leylandii*) Alternative trees may be reviewed and approved by the project biologist prior to installation.

26. Local Regulation: Hazardous Materials Disclosure Statement/Plan

Prior to completing project construction; submit a completed Hazardous Materials Disclosure Statement to the Environmental Health Division of the Community Resources Agency. If reportable quantities of hazardous materials or waste will be handled, stored or generated on the property, a Business Plan shall be submitted to the Environmental Health Division for review and approval. A reportable quantity is defined as any hazardous material or a mixture containing hazardous materials in amounts greater than or equal to 500 pounds, 55 gallons or 200 cubic feet at standard room temperature and pressure.

Throughout the life of the project

27. Mitigation Measure AQ-3 Serpentine Gravel

Exposed serpentine gravel is prohibited on the project site (except for native soils within open space areas protecting special status plants), unless exempted pursuant to Sections 93106 and 93105(f) of the California Health and Safety Code. No person shall use, apply, sell, supply, or offer for sale or supply any restricted material (as defined in subsection (i)(20) of Section 93105) for surfacing, unless it has been tested and determined to have an asbestos content that is less than 0.25 percent. Pavement shall be required for any road, driveway or parking area utilizing serpentine gravel. (California Health and Safety Code, Sections 93105 and 93106)

Mitigation Monitoring AQ-3: The required mitigation measure will be implemented throughout the life of the project. The measure is the responsibility of the construction contractor during construction and JSD throughout the life of the project.

28. Mitigation Measure AQ-6 Odors

In response to recurring affected landowner or JSD employee complaints to either JSD or the Tuolumne County Air Pollution Control District (TCAPCD), where the cause of odors can be verifiably traced to the JSD WWTP, one or more of the following steps shall be taken, as determined by JSD's engineer in consultation with TCAPCD:

- Additional aeration to improve treatment and reduce anoxic conditions
- Construction of enclosures or buildings with air scrubbers to contain and remove odors
- Bagging and off-hauling of screenings
- Dispersion of odor masking agents at the perimeter of the WWTP

Mitigation Monitoring AQ-6: The required mitigation measure will be implemented throughout the life of the project. The measure is the responsibility of JSD.

29. Mitigation Measure Noise-2

Throughout the life of the project, for any expansion that increases the site's existing ambient noise levels, prepare an acoustical analysis for the proposed improvements. The acoustical analysis shall identify the site's ambient noise level and anticipated noise contours extending from the JSD property boundaries after the WWTP is fully

operational. If necessary, the study shall identify any measures or construction techniques necessary to ensure that WWTP equipment and operations do not contribute to exceeding the following noise levels on surrounding properties:

Daytime (7 a.m. – 10 p.m.)		Nighttime (10 p.m. – 7 a.m.)	
Leq (h)/a/	Lmax/b	Leq (h)/a/	Lmax/b/
50	70	45	65

/a/ Hourly average level (dBA)

/b/ Maximum equivalent level (dBA)

Note: Each of the noise levels specified shall be lowered by 5 dB for simple tone noises, noises consisting primarily of speech, or music, or for recurring impulsive noises. These noise level standards do not apply to residential units established in conjunction with industrial or commercial uses (e.g., caretaker dwellings). The noise standard is to be applied at the property lines of the affected land use.

Mitigation Monitoring Noise-2: The measure shall occur throughout the life of the project. It is the responsibility of JSD.

**Mitigation Monitoring and Reporting Plan
Jamestown Sanitary District
Treatment Facilities Upgrades #1 – Alternative #2**

JSD WWTP Mitigation Monitoring and Reporting Plan Quartz and Woods Creek – Treatment Facilities Upgrades #1 (Alternative #2)												
Mitigation Measure	Quartz (QTZ)	Implementation Phase	Monitoring Phase	Enforcing Agency	Verification of Compliance							
	Woods Creek (WC)				Both	Initials	Date	Remarks				
Aesthetics												
<p>Project Design Feature: A solid evergreen landscaping screen will be planted between the emergency storage pond and 10255 Karlee Lane. Planting materials will exclude trees with seeds that may easily spread to the rare plant habitat located west of the project site (i.e., no cottonwoods, no willows). Landscape trees shall be incense cedar (<i>Calocedrus decurrens</i>), Texas privet, or Leyland cypress (<i>Cupressus × leylandii</i>). Alternative trees may be reviewed and approved by the project biologist prior to installation.</p>	QTZ	N/A*	N/A*	N/A*								
Air Quality												
AQ-1	<p>Mitigation Measure: AQ-1 Implement Naturally Occurring Asbestos Emission Reduction Control Measures The JSD will comply with the asbestos Airborne Toxic Controls Measure (ATCM) for Surfacing Applications (17 CCR 93106), and the asbestos ATCM for Construction, Grading, Quarrying, and Surface Mining Operations (17 CCR 93105). Complying with these ATCMs would reduce the potential for entraining NOA, and reduce this impact to a less-than-significant level.</p> <ul style="list-style-type: none"> The Asbestos ATCM for Surfacing Applications restricts the asbestos content of material used in surfacing applications such as unpaved roads, parking lots, driveways, and walkways. The purpose of this ATCM is to reduce public exposure to NOA from unpaved surfaces. A description of this ATCM is presented at the internet link http://www.arb.ca.gov/toxics/asbestos/atcm/regadv1101.pdf. Regulatory text for this ATCM is presented in 17 CCR 93106, and at the internet link http://www.arb.ca.gov/toxics/atcm/asbeatcm.htm. The Asbestos ATCM for Construction, Grading, Quarrying, and Surface Mining Operations requires the implementation of mitigation measures to minimize emissions of asbestos-laden dust. The purpose of this ATCM is to reduce public exposure to NOA from construction and mining activities that emit or re-suspend dust which may contain NOA. A description of this ATCM is presented at the internet link http://www.arb.ca.gov/toxics/asbestos/atcm/regadv0702.pdf. Regulatory text for this ATCM is presented in 17 CCR 93105, and at the internet link http://www.arb.ca.gov/toxics/atcm/asb2atcm.htm. 					QTZ	Throughout project construction	Throughout project construction	JSD, Construction contractor			
AQ-2	<p>Mitigation Measure AQ-2 Site Preparation Secure applicable permits from the Tuolumne County Air Pollution Control District prior to burning vegetation on the project site. Construction debris should not be burned on the site. Prior to land</p>					Both	Prior to commencing construction.	During construction	Construction contractor; TCAPCD			

JSD WWTP Mitigation Monitoring and Reporting Plan Quartz and Woods Creek – Treatment Facilities Upgrades #1 (Alternative #2)								
Mitigation Measure	Quartz (QTZ)	Implementation Phase	Monitoring Phase	Enforcing Agency	Verification of Compliance			
	Woods Creek (WC)				Initials	Date	Remarks	
	Both							
AQ-3	<p>clearing involving vegetation removal, the applicant shall secure a burn permit, or evidence of waiver, from the Tuolumne County Air Pollution Control District and the California Department of Forestry and Fire Protection, as applicable.</p> <p>Mitigation Measure AQ-3 Serpentine Gravel Exposed serpentine gravel is prohibited on the project site (except for native soils within open space areas protecting special status plants), unless exempted pursuant to Sections 93106 and 93105(f) of the California Health and Safety Code. No person shall use, apply, sell, supply, or offer for sale or supply any restricted material (as defined in subsection (i)(20) of Section 93105) for surfacing, unless it has been tested and determined to have an asbestos content that is less than 0.25 percent. Pavement shall be required for any road, driveway or parking area utilizing serpentine gravel. (California Health and Safety Code, Sections 93105 and 93106)</p>	Both	Prior to commencing construction	During construction	Construction contractor; TCAPCD			
AQ-4	<p>Mitigation Measure AQ-4 TCAPCD Compliance All construction and operations shall comply with all TCAPCD Rules and regulations.</p>	Both	During Construction	During construction	Construction contractor; TCAPCD			
AQ-5	<p>Mitigation Measure AQ-5 Construction Emissions Exposed soils shall be watered as needed to control wind borne dust. The construction contractor shall be responsible for dust abatement during construction and development operations. A water truck or other watering device shall be on the construction site on all working days when natural precipitation does not provide adequate moisture for complete dust control. Said watering device shall be used to spray water on the site at the end of each day and at all other intervals, as need dictates, to control dust. All land clearing, grubbing, scraping, excavation, land leveling, grading, cut & fill, and demolition activities shall be effectively controlled of fugitive dust emissions using application of water. A water truck shall be present on site throughout construction activities.</p> <p>Exposed piles of dirt, sand, gravel, or other construction debris shall be enclosed, covered and/or watered as needed to control wind borne dust.</p> <p>Vehicle trackout shall be minimized through the use of rumble strips and wheel washers for all trucks and equipment leaving the site where mud deposits could affect the drivability or drainage of the existing off-site dirt roadway.</p> <p>Sweep streets once a day if visible soil materials are carried to adjacent streets (recommend water sweepers with reclaimed water).</p> <p>On-site vehicle speed shall be limited to 10 miles per hour on unpaved surfaces.</p> <p>Loads on all haul/dump trucks shall be covered securely or at least two feet of freeboard shall be maintained on trucks hauling loads.</p> <p>Throughout Project construction:</p>	Both	During Construction	During construction	Construction contractor; TCAPCD			

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	Woods Creek (WC)				Both	Initials	Date	Remarks
<p>Construction equipment shall be maintained and tuned at the interval recommended by the manufacturers to minimize exhaust emissions.</p> <p>Equipment idling shall be kept to a minimum when equipment is not in use.</p> <p>Construction equipment shall be in compliance with the California Air Resources Board off-road and portable equipment diesel particulate matter regulations.</p>								
AQ-6	<p>Mitigation Measure AQ-6 Odors In response to recurring affected landowner or JSD employee complaints to either JSD or the Tuolumne County Air Pollution Control District (TCAPCD), where the cause of odors can be verifiably traced to the JSD WWTP, one or more of the following steps shall be taken, as determined by JSD’s engineer in consultation with TCAPCD:</p> <ul style="list-style-type: none"> • Additional aeration to improve treatment and reduce anoxic conditions • Construction of enclosures or buildings with air scrubbers to contain and remove odors • Bagging and off-hauling of screenings • Dispersion of odor masking agents at the perimeter of the WWTP 	Both	In response to landowner complaints	Plant operations	JSD, TCAPCD			
Biological Resources								
BIO-1	<p>Mitigation Measure BIO-1: Preconstruction FYLF Surveys (Woods Creek) Preconstruction surveys should be conducted prior to site disturbance to re-confirm absence of FYLF within 24 hours of commencing site disturbances (including staging). The JSD, or its representative, shall have a qualified biologist survey for FYLF within all potential habitats. If surveys are negative (i.e., no FYLF), mitigation measure BIO -2 will be implemented. If surveys are positive (FYLF are identified), mitigation measures BIO-2 through BIO-5 shall be implemented <i>and</i> a qualified biologist shall be present on site during all construction activities within 200 feet of Woods Creek. The qualified biologist shall have the authority to stop work at any time as may be necessary to protect FYLFs or their habitat.</p>	WC	Within 24 hours of commencing site disturbances, including staging; ongoing if positive findings for FYLF within 200 feet of Woods Creek	Within 24 hours of commencing site disturbances, including staging and throughout project construction; ongoing if positive findings for FYLF within 200 feet of Woods Creek	JSD, Construction contractor, Project biologist			
BIO-2	<p>Avoidance and Minimization Measure BIO-2: ESA Fencing (Woods Creek) Prior to commencing staging, construction, ground-disturbing or other project activities, install Environmentally Sensitive Area (ESA) fencing shall be installed at the top of the bank along Woods Creek. Fencing shall remain in place until all project activities are completed. Any fencing falling</p>	WC	Within 24 hours of commencing site disturbances,	Throughout Project Construction	JSD, Construction contractor,			

JSD WWTP Mitigation Monitoring and Reporting Plan Quartz and Woods Creek – Treatment Facilities Upgrades #1 (Alternative #2)								
Mitigation Measure	Quartz (QTZ)	Implementation Phase	Monitoring Phase	Enforcing Agency	Verification of Compliance			
	Woods Creek (WC)				Initials	Date	Remarks	
	Both							
			including staging;		Project biologist			
BIO-3	Avoidance and Minimization Measure BIO-3: Staging and Spill Prevention (Woods Creek) Staging, fueling and maintenance activities less than 50 feet from the top of the bank of Woods Creek will only be allowed with authorization of the project biologist. The project proponent will prepare a spill prevention and clean-up plan.	WC	Prior to site disturbance or staging	Prior to site disturbance or staging	Construction contractor, JSD, Project biologist			
BIO-4	Avoidance and Minimization Measure BIO-4: Environmental Awareness Training All contractors involved in site development, affected JSD personnel, will attend a mandatory Environmental Awareness Training prior to any site disturbances, including staging. A training log sign-in sheet will be maintained. The program will address proper implementation of minimization and avoidance measures contained herein. A video shall be prepared and is mandatory viewing prior to entering the project site for contractors or personnel not participating in initial training. Construction personnel shall be informed that if a FYLF is encountered in the work area, construction will stop and CDFW will be contacted for guidance.	Both	Prior to site disturbance or staging; before new staff or contractors begin work on site	Prior to site disturbance or staging; before new staff or contractors begin work on site	Construction contractor, JSD, Project biologist			
BIO-5	Avoidance and Minimization Measure BIO-5: Stop Work (Woods Creek) If FYLFs are found at any time during project work, construction will stop and CDFW will be contacted immediately for further guidance.	WC	Throughout the year prior to commencing construction	Throughout the year prior to commencing construction	Construction contractor, Project Biologist			
BIO-6	Mitigation Measure BIO-6: Preconstruction Survey/Relocation for Northwestern Pond Turtles (WPT) Prior to the start of earth-disturbing activities (e.g., clearing, grading, trenching, etc.) in and/or adjacent to the wastewater treatment ponds and other aquatic habitats (i.e., Woods Creek) in which turtles could be present, a qualified biologist shall conduct a survey for western pond turtles. The preconstruction surveys shall be conducted on the day that earth-disturbing activities are initiated adjacent to aquatic habitats in which turtles could be present. The surveys shall include an evaluation of all portions of the work areas and an appropriate upland buffer. If western pond turtles are observed in the work area at any time during the construction period, California Department of Fish and Wildlife (CDFW) staff shall be contacted to identify actions to be taken to ensure that the turtle(s) is/are not adversely affected. Although not planned, if any dewatering should occur (i.e., ponds, drying beds), it will be limited to between October and January. Supplemental dewatering of subsequent precipitation accumulations may be conducted on a periodic basis between the initial dewatering and the start of construction to minimize the potential for pond turtle occupation.	Both	Prior to the start of earth moving activities in and/or adjacent to WWT ponds and other aquatic habitats	Prior to the start of earth-moving activities in and/or adjacent to WWT ponds and other aquatic habitats	Construction contractor, Project biologist, CDFW			
BIO-7	Mitigation Measure BIO-7/GEO-1/HYDRO-1: Erosion Control The Contractor shall prepare an Erosion Control Plan for JSD review and approval to address soil erosion within those areas. All soils disturbed by grading shall be reseeded or hydromulched or otherwise stabilized 48 hours in advance of a rain event. A likely rain/precipitation event is any weather pattern that is forecasted to have a 30% or greater chance of producing precipitation in the project area.	Both	Prior to site disturbance, within 48 hours of rain event	Prior to site disturbance	Construction contractor			

JSD WWTP Mitigation Monitoring and Reporting Plan Quartz and Woods Creek – Treatment Facilities Upgrades #1 (Alternative #2)								
Mitigation Measure	Quartz (QTZ)	Implementation Phase	Monitoring Phase	Enforcing Agency	Verification of Compliance			
	Woods Creek (WC)				Initials	Date	Remarks	
	Both							
	The discharger shall obtain likely precipitation forecast information from the National Weather Service Forecast Office (e.g., by entering the zip code of the project's location at https://www.weather.gov/forecastmaps . A qualifying rain event is one that produces 0.5 inch or more of precipitation within a 48 hour or greater period between rain events. Emergency erosion control measures shall be used as reasonably requested by JSD.							
BIO-8	<p>Mitigation Measure BIO-8/GEO-2/HYDRO-2: NPDES/SWPPP</p> <p>If necessary, submit to the State Water Resources Control Board Storm Water Permitting Unit, a Notice of Intent (NOI) to obtain coverage under the General Construction Activity Storm Water Permit - California's National Pollution Discharge Elimination System (NPDES) general permit for construction related storm water discharges for the disturbance of one acre or more. Disturbances of less than one acre may also require an NOI for coverage under the NPDES General Permit for construction-related storm water discharge and the State Water Resources Control Board Permitting Unit shall be contacted for determination of permit requirements. Commercial and Industrial developments may require an NOI even if less than one acre is to be disturbed. Obtain coverage or an exemption from these requirements. [Federal Water Pollution Control Act, Section 401, California Clean Water Act]. The permit may include preparation of a Stormwater Pollution Prevention Plan (SWPPP).</p> <p>Silt fencing or other materials, as required, will be installed consistent with the applicable water quality requirements specified in the Project's Storm Water Pollution Prevention Plan (SWPPP) or Water Pollution Control Plan (WPCP). Fencing or other erosion control materials or devices shall be shown on the final construction documents. Erosion control devices will be avoided throughout Project construction and shall be monitored and maintained by the project manager throughout construction.</p>	Both	Prior to site disturbance	Prior to site disturbance	Construction contractor			
BIO-9	<p>Mitigation Measure BIO-9: Preconstruction Survey Birds</p> <p>Prior to construction occurring between February 1st and August 30th (e.g., excavation, ground disturbance, or vegetation removal) a preconstruction survey for nesting birds will be conducted in accordance with the CDFW guidelines and a no-disturbance buffer will be established, if necessary.</p> <p>If equipment staging, site preparation, vegetation removal, grading, excavation or other project-related construction activities are scheduled during the avian nesting season (generally February 1 through August 30), a focused survey for active nests would be conducted by a qualified biologist within 14 days prior to the beginning of project-related activities.</p> <p>Surveys shall be conducted in all suitable habitats in the area.</p> <p>If the pre-construction surveys identify nesting bird species within areas that are within <u>500</u> feet of construction activities for non-raptors and within 0.5 mile for raptors, the following shall be implemented:</p> <p>A. Project-related construction impacts shall be avoided by establishment of appropriate no-work buffer zones to limit construction activities near the nest site. The no-work buffer zone shall be delineated by highly visible temporary construction fencing and shall be a minimum of 500</p>	Both	15 days prior to site disturbance For disturbance between 2/1 and 8/30 of the construction year (birds)	15 days prior to site disturbance for disturbance between 2/1 and 8/30 of the construction year	Construction contractor, Project biologist			

JSD WWTP Mitigation Monitoring and Reporting Plan Quartz and Woods Creek – Treatment Facilities Upgrades #1 (Alternative #2)								
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	Woods Creek (WC)				Initials	Date	Remarks	
	Both							
	<p>feet from non-raptor nests and 0.5 mile from raptor nests, unless a qualified biologist, in consultation with CDFW, determines that alternative buffers are permissible due to the nature and location of the specific species, its nest, and existing conditions to which the species has been habituated. Alternative buffers shall be established for special status non-raptor nests in consultation with CDFW.</p> <p>B. In consultation with CDFW, monitoring of nest activity by a qualified biologist shall be required if the construction activity has potential to adversely affect the nest or nesting behavior of the bird.</p> <p>C. No construction activity shall commence within the no-work buffer zone until a CDFW-approved qualified biologist confirms that the nest is no longer active (e.g., young have fledged).</p> <p>D. Canada geese depredation and cliff swallow nest management are exceptions to these provisions per Mitigation Measure BIO-10 and Mitigation Measure BIO-11.</p>							
BIO-10	<p>Mitigation Measure BIO-10 Canada Goose Depredation Pursuant to 50 Code of Federal Regulations Section 21.50, should a nesting Canada goose be identified within proposed work boundaries, depredation may occur by registering online with the USFWS⁴. Depredation will occur, if necessary, in the form of a qualified biologist treating unhatched eggs to ensure that they do not hatch.</p>	Both	In conjunction with preconstruction biological surveys	In conjunction with preconstruction biological surveys	Project biologist, Construction contractor			
BIO-11	<p>Mitigation Measure BIO-11 Cliff Swallow Nest Management The following methods may be used to remove and discourage cliff swallow nests where eggs or chicks are not present:</p> <p>Before birds arrive:</p> <ul style="list-style-type: none"> • Old nests can be reused. Get rid of any potential nests before the birds arrive from winter migration. Get rid of old nests including any traces of mud. • Place physical barriers on potential nesting sites to prevent birds from nesting. Appropriate products including, but are not limited to: coroplast, polytetrafluoroethylene (Teflon), Bird Slide™, plexiglass, plastic sheeting, or silicon-based paint coated to the surface. Physical barriers may be a permanent deterrent in preventing birds from nesting in nuisance locations. • Netting should have a maximum size of ¾" squares. Netting or wire mesh should be hung diagonally to cover areas where swallows could build nests — typically anyplace like an eave or where a roof and wall meet. 	Both	Throughout the year prior to commencing construction	Throughout the year prior to commencing construction	JSD			

⁴ <https://epermits.fws.gov/eRCGR/> and <https://www.fws.gov/forms/3-200-13.pdf>

JSD WWTP Mitigation Monitoring and Reporting Plan Quartz and Woods Creek – Treatment Facilities Upgrades #1 (Alternative #2)								
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	Woods Creek (WC)				Initials	Date	Remarks	
	Both							
<ul style="list-style-type: none"> Surfaces can also be covered with materials hung vertically to prevent birds from getting to their preferred building sites. Bird spike sticks and bird barriers can be purchased and installed to prevent birds from building nests. For places where there is an open entry way, vinyl plastic hung in overlapping strips may be used. This is essentially a doorway curtain similar to what you may see in a grocery store for workers in refrigerated areas. <p>After birds arrive:</p> <ul style="list-style-type: none"> Wash away mud nests frequently, in between nest construction. They may eventually give up on that site if they are not successful in building a nest. JSD may only destroy nests that do not have eggs or chicks within. Play sounds of alarm and distress calls of cliff and barn swallows to disrupt nest construction. This provision may only be used with noise aimed at nest building activities and not towards adjoining landowners. It is subject to the same noise mitigation measures as the overall project. <p>NOTE: Use protective gear (i.e., N95 masks or respirator and gloves) to protect workers performing these tasks from parasites, mites, and feces that may be present.</p>								
BIO-12	Avoidance and Minimization Measure BIO-12: Hours of Construction. Project construction shall be limited to 7:00 a.m. to 7:00 p.m. unless an emergency situation exists.	Both	Throughout project construction	Throughout project construction	Construction contractor, JSD			
BIO-13	Mitigation Measure BIO-13: Avoid Inadvertent Animal Trapping During Construction To avoid inadvertently trapping special status or common animal species during construction, all excavated steep-walled holes or trenches more than two feet deep shall be covered at the end of each working day with plywood or similar material, or provided with one or more escape ramps constructed of earth fill or wooden planks, or equivalent, at each end of the trench. Before such holes or trenches are filled, they will be thoroughly inspected for trapped animals. If at any time a trapped animal is discovered, the contractor shall place an escape ramp or other appropriate structure to allow the animal to escape. Alternatively, the contractor shall contact the project biologist or California Department of Fish and Wildlife for assistance. Similarly, stored pipes or other materials providing potential cover for animals will be inspected prior to installation or use to ensure that they are unoccupied.	Both	Throughout project construction	Throughout project construction	Construction contractor, Project biologist, JSD Staff			
Oak Trees	Best Management Practices – Large Native Oak Preservation (Quartz) To the maximum extent feasible and practicable, throughout project construction activities occurring within one and one-half times the driplines of native oaks (e.g., black oaks, <i>Quercus kelloggii</i>) measuring 24” or greater in diameter at breast height:	QTZ	Throughout project construction	Throughout project construction	Construction contractor			
	<ul style="list-style-type: none"> Limit ground-disturbing activities to outside the dripline of native oaks and preferably outside one and one-half times the dripline; 							

JSD WWTP Mitigation Monitoring and Reporting Plan Quartz and Woods Creek – Treatment Facilities Upgrades #1 (Alternative #2)								
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	Woods Creek (WC)				Initials	Date	Remarks	
	Both							
<ul style="list-style-type: none"> No storage equipment, supplies, vehicles, debris, construction wastewater, paint, stucco, concrete or any other clean-up waste, and temporary or permanent structures shall be placed within the driplines Avoid cutting oak roots Use boring or trenchless installation rather than open trenching within driplines where possible Avoid equipment damage to limbs, trunks, and roots of oaks trees Do not attach signs, ropes, cables or other items to trees <p>The measure will be implemented throughout project construction activities occurring within the one and one-half times the driplines of native oaks measuring 24" or greater in diameter at breast height. The measure is the responsibility of the construction contractor.</p>								
Cultural Resources and Tribal Cultural Resources								
CULT-1	<p>Mitigation Measure CULT-1: Mann Site On the Quartz site, prior to initiating any new site disturbances, environmentally sensitive area (ESA) fencing shall be installed, monitored, and maintained from the start to end of construction surrounding the Mann cultural resource site. No construction or equipment shall intrude into the Historic (:H) combining zone district on the project site. Should fencing fall down, it shall be immediately replaced before continuing with construction activities. If the site is to be maintained, it shall be fully avoided throughout the life of the project, the :H (Historic Combining District) zone shall be maintained, and the site shall be incorporated into project design.</p> <p>Alternatively, prior to site disturbance within 50' of the site, (including removal of the irrigation system and/or fill soil associated with the previous tree farm), conduct archaeological testing to evaluate the Mann Site for eligibility for the California Register/National Register of Historic Places. The evaluation shall be completed by a professional meeting the Secretary of the Interior's Qualification Standards. If archaeological testing demonstrates that the site is essentially surface in nature or that it is not eligible, no further work will be necessary and the results of the study shall be submitted to the County in support of removing the :H (Historic Combining District) zone. If the resource is recommended as eligible, then mitigation may include, but not be limited to, one or a combination of the following: a) protection from adverse impacts, b) data recover, c) incorporating the feature into project design, or some other method to be developed of addressing adverse effects as recommended by the qualified professional.</p>	QTZ	Prior to commencing ground disturbance surrounding the site zoned :H	Throughout construction and operations	Construction contractor, JSD, qualified archaeologist			
CULT-2	<p>Mitigation Measure CULT-2: Inadvertent Discoveries If a cultural resource is discovered during construction activities, the contractor shall comply with the following provisions:</p>	Both	During construction	During construction	Construction contractor, JSD,			

JSD WWTP Mitigation Monitoring and Reporting Plan Quartz and Woods Creek – Treatment Facilities Upgrades #1 (Alternative #2)								
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	Woods Creek (WC)				Initials	Date	Remarks	
	Both							
<p>A. The Contractor’s project manager shall notify the Jamestown Sanitary District by telephone within 1 hour of the discovery or the next working day if the department is closed. JSD shall promptly notify their qualified professional archaeologist.</p> <p>B. When the cultural resource is located outside the area of disturbance, a qualified professional shall be allowed to photodocument and record the resource and construction activities may continue during this process.</p> <p>C. When the cultural resource is located within the area of disturbance, all activities that may impact the resource shall cease immediately upon discovery of the resource. All activity that does not affect the cultural resource as determined by a qualified professional may continue. A qualified professional archaeologist shall be allowed to do a site survey to ascertain the need for evaluation work.</p> <p>D. When the cultural resource is determined to not be significant, the qualified professional shall be allowed to photodocument and record the resource. Construction activities may resume after authorization from a qualified professional.</p> <p>E. When a resource is determined to be significant, the resource shall be avoided with said resource having boundaries established around its perimeter by a qualified professional or a cultural resource management plan shall be prepared by a qualified professional to establish measures formulated and implemented in accordance with Sections 21083.2 and 21084.1 of the California Environmental Quality Act (CEQA) to address the effects of construction on the resource. The qualified professional shall be allowed to photodocument and record the resource. Construction activities may resume after authorization from a qualified professional.</p> <p>For the purposes of implementing this measure, a “qualified professional” is an individual previously determined to be a qualified professional by the Tuolumne County Community Development Department Planning Division (https://www.tuolumnecounty.ca.gov/DocumentCenter/View/9984) and a “cultural resource” is any building, structure, object, site, district, or other item of cultural, social, religious, economic, political, scientific, agricultural, educational, military, engineering or architectural significance to the citizens of Tuolumne County, the State of California, or the nation which is 50 years of age or older or has been listed on or is eligible for listing on the National Register of Historic Places, the California Register of Cultural Resources, or any local register.</p>				qualified professional				
CULT-3	<p>Mitigation Measure CULT-3 Treatment of Human Remains and Sacred Objects</p> <p>No human remains or sacred objects have been identified in the project area, but there is always a possibility that excavation, or other actions could expose human burials previously unknown. Such remains are protected by state and federal laws and all project personnel must comply fully with applicable laws regarding the treatment of human remains including contacting the County coroner. The policies set forth in</p>	Both	During construction	During construction	Construction contractor, JSD, County Coroner, NAHC			

JSD WWTP Mitigation Monitoring and Reporting Plan Quartz and Woods Creek – Treatment Facilities Upgrades #1 (Alternative #2)								
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	the American Indian Religious Freedom Act of 1978 and amendments (92 Stat. 469) should be honored by JSD and its contractors. If the discovery is on private land, provision for treatment and disposition of any human remains will be in accordance with Section 7050.5 of the California Health and Safety Code, Sections 5097.94, 5097.98, of the California Public Resources Code, and Section 15064.5 of the California Code of Regulations implementing the California Public Resources Code, Sections 21000-21177.							
TCR-1	Mitigation Measure TCR-1: Native American Monitoring (Quartz) Prior to issuance of a Grading Permit, the applicants shall contact the Chicken Ranch Band of MiWuk and arrange to have a Native American monitor present during site grading for the new on-site storage pond and its connections to and from the Quartz WWTF.	QTZ	Prior to and during construction	During grading for the new on-site storage pond and its connections	Construction contractor, JSD, Chicken Ranch Band Mi-Wuk			
Geology & Soils								
GEO-1	Mitigation Measure BIO-7/GEO-1/HYDRO-1: Erosion Control		See BIO-7	See BIO-7	See BIO-7			
GEO-2	Mitigation Measure BIO-8/GEO-2/HYDRO-2: NPDES/SWPPP		See BIO-8	See BIO-8	See BIO-8			
GEO-3	Mitigation Measure GEO-3: Geotechnical Studies - Quartz Prior to commencing construction at the Quartz site, the project proponent shall conduct testing for expansive soils and soil suitability in accordance with District standards to identify and incorporate any necessary design considerations. A previously prepared geotechnical study may be used, if soils studies were conducted in proposed disturbance areas.	QTZ	Prior to construction	During construction	JSD, Geotechnical engineer			
Hazards and Hazardous Materials								
	Local Regulation: Hazardous Materials Disclosure Statement/Plan Prior to completing project construction; submit a completed Hazardous Materials Disclosure Statement to the Environmental Health Division of the Community Resources Agency. If reportable quantities of hazardous materials or waste will be handled, stored or generated on the property, a Business Plan shall be submitted to the Environmental Health Division for review and approval. A reportable quantity is defined as any hazardous material or a mixture containing hazardous materials in amounts greater than or equal to 500 pounds, 55 gallons or 200 cubic feet at standard room temperature and pressure.	Both	N/A*	N/A*	N/A*	N/A*	N/A*	N/A*
Hydrology & Water Quality								
HYDRO-1	Mitigation Measure BIO-7/GEO-1/HYDRO-1: Erosion Control		See BIO-7	See BIO-7	See BIO-7			
HYDRO-2	Mitigation Measure BIO-8/GEO-2/HYDRO-2: NPDES/SWPPP		See BIO-8	See BIO-8	See BIO-8			
NOISE								
Noise-1	Mitigation Measure Noise-1 <ul style="list-style-type: none"> All construction equipment will have sound-control devices no less effective than those provided on the original equipment. No equipment shall have an un-muffled exhaust system. All equipment (i.e., construction equipment and trucks) will be limited to ten (10) or fewer minutes of idling time. 	Both	During construction	During construction	Construction contractor, JSD			

JSD WWTP Mitigation Monitoring and Reporting Plan Quartz and Woods Creek – Treatment Facilities Upgrades #1 (Alternative #2)																			
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					Initials	Date	Remarks												
<ul style="list-style-type: none"> Construction activities shall be limited to between the hours of 7:00 A.M. and 7:00 P.M. Monday through Saturday. Exterior construction shall be prohibited on Sunday and JSD holidays except in cases of emergency. 																			
<p>Noise-2</p> <p>Mitigation Measure Noise-2 Throughout the life of the project, for any expansion that increases the site's existing ambient noise levels, prepare an acoustical analysis for the proposed improvements. The acoustical analysis shall identify the site's ambient noise level and anticipated noise contours extending from the JSD property boundaries after the WWTP is fully operational. If necessary, the study shall identify any measures or construction techniques necessary to ensure that WWTP equipment and operations do not contribute to exceeding the following noise levels on surrounding properties:</p> <table border="1" data-bbox="543 848 1609 1016"> <thead> <tr> <th colspan="2">Daytime (7 a.m. – 10 p.m.)</th> <th colspan="2">Nighttime (10 p.m. – 7 a.m.)</th> </tr> <tr> <th>Leq (h)/a/</th> <th>Lmax/b</th> <th>Leq (h)/a/</th> <th>Lmax/b/</th> </tr> </thead> <tbody> <tr> <td>50</td> <td>70</td> <td>45</td> <td>65</td> </tr> </tbody> </table> <p>/a/ Hourly average level (dBA) /b/ Maximum equivalent level (dBA) Note: Each of the noise levels specified shall be lowered by 5 dB for simple tone noises, noises consisting primarily of speech, or music, or for recurring impulsive noises. These noise level standards do not apply to residential units established in conjunction with industrial or commercial uses (e.g., caretaker dwellings). The noise standard is to be applied at the property lines of the affected land use.</p>	Daytime (7 a.m. – 10 p.m.)		Nighttime (10 p.m. – 7 a.m.)		Leq (h)/a/	Lmax/b	Leq (h)/a/	Lmax/b/	50	70	45	65	Both	Prior to any new construction that could increase the ambient noise level	Project operations	JSD			
Daytime (7 a.m. – 10 p.m.)		Nighttime (10 p.m. – 7 a.m.)																	
Leq (h)/a/	Lmax/b	Leq (h)/a/	Lmax/b/																
50	70	45	65																

N/A* - Condition of Project Approval, not a mitigation measure. Does not require mitigation monitoring.