

**HI-DESERT WATER DISTRICT  
WASTEWATER RECLAMATION FACILITY, WASTEWATER TREATMENT PLANT  
AND SEWER COLLECTION SYSTEM PROJECT  
MITIGATION MONITORING AND REPORTING PROGRAM**

| Mitigation Measure | Source  | Implementation Schedule                          | Responsible Party   | Verification                    | Status / Date / Initials   |  |
|--------------------|---|--|---|---------------------------------|--|--|
| <b>Air Quality</b> |   |  |   |                                 |  |  |
| 4.1-1              | The construction site disturbed areas will be watered twice daily for short-term surface stabilization, and more times if winds are sufficient to loft dust from the construction site. | Initial Study / Environmental Assessment (IS/EA) | This requirement shall be included as a condition or stipulation of the construction contract and the watering shall be implemented while bare ground is exposed during project construction. | Hi-Desert Water District (HDWD) | A copy of the contract shall be retained by HDWD and construction field inspectors shall verify that watering is occurring during construction activities and under active wind conditions. Field notes verifying compliance shall be retained in the project file.  |  |
| 4.1-2              | Chemical, vegetative or mechanical (compaction or paving) will be used for surface stabilization upon completion of grading activities, if subsequent site uses are not proposed.       | IS/EA  | Following completion of grading activities within project areas, the ground cover or paving shall be installed as soon as possible, but no later than one week from completion of grading.    | HDWD                            | A copy of the construction erosion control plan shall be provided prior to initiating ground disturbance and retained in the project file. Field inspectors shall verify the installation and effectiveness of ground cover in accordance with the plan throughout the duration of project construction. Field notes verifying compliance shall be retained in the project file. |  |

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| <b>Air Quality (continued)</b> |  |                         |   |              |   |  |
| 4.1-3                          | Trackout onto paved roads will be minimized, and removed (swept or washed from paved surfaces) if substantial soil material accumulates on paved surfaces. Cleanup of project-related trackout or spills on paved roads will be removed daily. | IS/EA                   | This requirement shall be included as a condition or stipulation of the construction contract. This measure shall be implemented each day when construction activities are underway and construction traffic utilizes paved roadways in the project area. | HDWD         | A copy of the contract shall be retained by HDWD, and construction field inspectors shall verify that sweeping is occurring daily during construction activities when roadways are being used in support of project construction. Field notes verifying compliance shall be retained in the project file. |  |
| 4.1-4                          | Haul trucks will be covered.   | IS/EA                   | This requirement shall be included as a condition or stipulation of the construction contract. This measure shall be implemented each day when construction activities are underway and construction traffic utilizes paved roadways in the project area. | HDWD         | A copy of the contract shall be retained by HDWD, and construction field inspectors shall verify that haul trucks are covered daily during construction activities. Field notes verifying compliance shall be retained in the project file.   |  |
| 4.1-5                          | Grading and soil movement activities will be minimized when winds exceed 30 miles per hour at the local airport or at an onsite wind monitoring system.  | IS/EA                   | This requirement shall be included as a condition or stipulation of the construction contract. This measure shall be implemented each day when construction activities are underway and local winds exceed 30 miles per hour.                             | HDWD         | A copy of the contract shall be retained by HDWD, and construction field inspectors shall verify that construction activities are minimized when wind speeds exceed 30 mph. Field notes verifying compliance shall be retained in the project file.   |  |

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| <b>Air Quality (continued)</b> |  |                         |  |              |  |  |
| 4.1-6                          | Efficient scheduling of equipment use, with a phased construction schedule to reduce the number of units operating simultaneously. | IS/EA                   | This requirement shall be included as a condition or stipulation of the construction contract. This measure shall be implemented when construction activities are underway and air pollutant emitting equipment is scheduled to support construction activities. | HDWD         | A copy of a construction equipment scheduling plan shall be provided prior to initiating ground disturbance and retained in the project file. Field inspectors shall verify the use of equipment in accordance with this plan. Field notes verifying compliance shall be retained in the project file. |  |
| 4.1-7                          | Performing regular engine maintenance on all equipment.  | IS/EA                   | This requirement shall be included as a condition or stipulation of the construction contract. This measure shall be implemented prior to and when construction activities are underway.   | HDWD         | A copy of the contract shall be retained by HDWD, and engine maintenance records documenting compliance for all onsite equipment shall be provided to the District quarterly. The maintenance records shall be retained in the project file.   |  |
| 4.1-8                          | Provision of local equipment storage areas so that equipment trips to the sites can be reduced.                                    | IS/EA                   | This requirement shall be included as a condition or stipulation of the construction contract. This measure shall be implemented prior to and when construction activities are underway.   | HDWD         | A construction equipment location plan shall be provided prior to initiating ground disturbance and retained in the project file. Field inspectors shall verify the use of storage location in accordance with this plan. Field notes verifying compliance shall be retained in the project file.      |  |

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| <b>Air Quality (continued)</b> |   |                         |   |              |  |  |
| 4.1-9                          | Construction personnel shall be encouraged to ride share to reduce vehicle trips to construction sites, including incentives for carpooling among construction employees.   | IS/EA                   | This requirement shall be included as a condition or stipulation of the construction contract. This measure shall be implemented prior to and when construction activities are underway.  | HDWD         | A copy of the contract shall be retained by HDWD, and a rideshare program shall be provided to the District prior to initiating construction. A quarterly rideshare participant report shall be submitted to the District monthly. The reports shall be retained in the project file.  |  |
| 4.1-10                         | Shut down equipment when not in use for more than 10 minutes.   | IS/EA                   | This requirement shall be included as a condition or stipulation of the construction contract. This measure shall be implemented when construction activities are underway.   | HDWD         | A copy of a construction contract shall be retained in the project file. Field inspectors shall verify compliance with this measure during field inspections. Field notes verifying compliance shall be retained in the project file.  |  |
| 4.1-11                         | To the extent feasible, the District shall select landscaping that is fast-growing to create a windbreak buffer along the periphery of the WRF site. A minimum of two rows shall be installed at different times and plants shall be installed and grown in stages; periodically harvested; and replanted to maintain carbon sequestration. Alternatively or concurrently, the District may install solar power systems to partially or fully offset operational electricity demand | IS/EA                   | Prior to initiating operations, the HDWD shall indicate which option will be implemented and what the reduction in GHG emissions will be through implementing the proposed option. The District shall begin installing any landscaping or solar systems prior to initiating wastewater collection and | HDWD         | Documentation of GHG emission reductions (photos of onsite landscaping or solar systems) shall be acquired and retained in the project file. An annual report of GHG emission reductions shall be compiled and retained in the project file. If credits are purchased, evidence of the purchase shall be retained in the project file. |  |

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| <b>Air Quality (continued)</b> |   |                         |   |              |  |  |
| 4.1-11<br>(cont.)              | of the WRF. As a final alternative, the District may choose to purchase annual or permanent carbon credits from the available carbon banks at the time the facility begins operation.   |                         | treatment. Purchase of any credits shall be completed prior to initiating wastewater collection and treatment.  |              |  |  |
| 4.1-12                         | The District shall require the installation of odor control facilities as part of the facility design. These facilities shall be state of the art and shall control odors to ensure that adjacent properties are not exposed to significant odor concentrations, except during an emergency/upset condition at the WRF.   | IS/EA                   | The specific odor control equipment shall be defined prior to initiating construction; shall be installed during construction; and shall be operated and maintained during wastewater collection and treatment operations   | HDWD         | Verification that the odor control system is state of the art when the plant is installed shall be retained in the project file. As built engineering drawings of the odor control system shall be retained in the project file, and system operation and maintenance data shall also be retained in the project file. |  |
| 4.1-13                         | The District shall establish an odor complaint response phone number that shall be clearly posted on the exterior fence of the treatment plant facility. If odor complaints are received, the District shall respond within 24 hours to correct the problem, and provide a response to the complainant within 12 hours of notification identifying what actions were taken and how long was or will be required to control the odor problem. Sources of odors shall be corrected in as timely a manner as possible. | IS/EA                   | The odor complaint response program shall be in place prior to receipt of wastewater and initiating of treatment operations. A log of odor complaints and responses shall be retained by the HDWD. A log of time required to control any odor excursions shall be retained. | HDWD         | A copy of the program shall be retained in the project file and a summary of excursions shall be presented to the District Board on an annual basis. Logs of complaints, responses and time required to control odor excursions shall be retained in the project file.   |  |

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| <b>Hydrology and Water Quality</b> |  |                         |   |              |   |  |
| 4.2-1                              | The District shall prepare a Storm Water Pollution Prevention Plan (SWPPP) and a Water Quality Management Plan (WQMP) that will achieve no net loss of topsoil from the project sites and prevent runoff from causing erosion on adjacent property during construction. The SWPPP and WQMP shall be provided to the construction contractor and the contractor shall implement the SWPPP during all construction activities at the site.   | IS/EA                   | The SWPPP shall be approved and ready for implementation prior initiating ground disturbance activities. The SWPPP shall be implemented through completion of the construction period.  | HDWD         | A copy of the SWPPP shall be retained in the project file and HDWD field inspectors shall verify that the BMPs are being implemented during construction of all treatment facilities, the pipelines and related support facilities.   |  |
| 4.2-2                              | The SWPPP prepared for the project site shall include a spill response program for accidental release of water pollutants during construction that shall, at a minimum, meet the following performance standards: adequate resources shall be maintained on the site by the contractor to control any release of pollutants; if a spill occurs, the pollutant shall first be contained, second the spill shall be reported to appropriate authorities, third the pollutant contaminated material (soil, water, etc.) shall be collected in proper containers, fourth the pollutant contaminated material shall be delivered to a facility with the capability to treat or dispose of the contaminated material in accordance with existing laws and regulations in place at the time of the accidental spill; fifth the area contaminated by the spill shall be cleaned (remediated) to background conditions, or alternatively to a level | IS/EA                   | The SWPPP containing the required spill response program shall be approved and ready for implementation prior initiating ground disturbance activities. The SWPPP shall be implemented through completion of the construction period. | HDWD         | A copy of the SWPPP shall be retained in the project file and HDWD field inspectors shall verify that the all actions required by the spill response program are being implemented during construction of all treatment facilities, the pipelines and related support facilities. |  |

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| <b>Hydrology and Water Quality (continued)</b> |  |                         |  |              |  |  |
| 4.2-2<br>(cont.)                               | that meets the requirements of existing laws and regulations at the time of the clean-up and that does not leave any residual threat to humans or the environment in which the spill occurs.   |                         |  |              |  |  |
| 4.2-3  | The District shall prepare the WQMP and include a Spill Prevention Control Countermeasures Plan that will minimize the potential for release of any hazardous or toxic chemicals to the environment. This Plan shall include a requirement to retain material safety data sheets (MSDS) for all hazardous materials or substances at the site and measures that outline the responses that will be implemented should an accidental spill of hazardous materials onsite occur. Based on the list of hazardous materials/substances that will be utilized at the plant, the District Plan shall identify handling procedures and management options for any accidental releases to the environment until such accidentally released material is properly disposed of or treated so that no residual harm remains from the accidental release. | IS/EA                   | The WQMP and/or Business Plan containing the required spill prevention control countermeasures program shall be approved and ready for implementation prior receipt and treatment of wastewater. The WQMP shall be implemented over the life of the facility and updated with any major changes in operations. | HDWD         | A copy of the WQMP shall be retained in the project file and HDWD managers shall verify that the all actions required by the WQMP are being implemented during operations. An annual report of Plan implementation shall be submitted to the District Board. |  |

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| <b>Hydrology and Water Quality (continued)</b> |  |                         |  |              |  |  |
| 4.2-4 (cont.)                                  | The District shall restore any channel crossing locations with a comparable quantity or quality of habitat to that disturbed or removed during construction of the proposed project. Because no sensitive riparian or wetland habitat will be affected, the project will not be required to create such habitat or acquire mitigation bank credits. Channel restoration in the area of the pipeline crossing is considered adequate by the District to fully mitigate effects on altering the stream bed on the project site. The District must acquire a 1602 Streambed Alteration Agreement and may have to acquire a WDR from the Regional Board, and shall implement the requirements of the WDR and Agreement as long as it is not less than that identified above. | IS/EA                   | Prior to installing pipeline across any jurisdictional channel, a restoration plan shall be approved by HDWD and CDFG and the plan shall be implemented immediately following closure of any channel crossing. Any regulatory permits shall be obtained prior to crossing any jurisdictional channel.<br><br>Annual monitoring shall be conducted at each crossing to verify plan implementation until specific design goals are achieved. | HDWD         | A copy of each regulatory permit and channel crossing restoration plan shall be retained in the project file. Field personnel shall verify the restoration is installed in a timely manner. Annual monitoring reports shall be retained in the project file until the plan's success is verified by a qualified biologist and the CDFG.  |  |
| 4.2-5  | The District shall install one or more monitoring wells downstream of the WRF. The well(s) shall be monitored for elevation of the groundwater table below the ground surface (bgs). If the groundwater table downstream of the WRF recharge site approaches 100 feet bgs, the District shall initiate pumping to control the groundwater level. The groundwater extracted may be discharged to the surface if the water quality is acceptable to the regulatory agencies, or it may be further treated and made available to the District's domestic water supply system. The performance   | IS/EA                   | The location of monitoring well and the well to be installed shall be completed prior to discharge of treated effluent from the WRF. If the elevation of the groundwater table rises above 100 feet bgs, the specific actions required to maintain this level shall be documented during operations. The manner of handling any water pumped to the surface shall be documented.   | HDWD         | As built drawings of the monitoring well and well location shall be retained in the project file. Copies of documentation for controlling groundwater level at 100 feet or greater bgs shall be retained in the project file. An annual report of groundwater elevation in the monitoring well shall be provided to the District Board and the report shall be retained in the project file. |  |

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| <b>Hydrology and Water Quality (continued)</b> |   |                         |   |              |  |  |
| 4.2-5<br>(cont.)                               | standard to be achieved is that the groundwater table downstream of the WRF recharge facilities shall not rise above the 100 foot bgs threshold.  |                         |   |              |  |  |
| 4.2-6  | The District shall install one or more monitoring wells downstream of the WRF. The well(s) shall be monitored at least annually for all drinking water standards and compared to maximum contaminant levels (MCLs) for public drinking water standards. If concentrations approach any MCL, the District shall install additional treatment at the WRF to modify the treated effluent by lowering or removing the pollutant of concern to a level that will prevent the MCL from being exceeded. The performance standard to be achieved is that the groundwater quality shall not be allowed to exceed any MCL for a domestic or public drinking water supply. | IS/EA                   | The location of monitoring well and the well to be installed shall be completed prior to discharge of treated effluent from the WRF. A water quality sampling plan shall be also be approved prior to discharge of treated effluent from the WRF. If the groundwater quality in the well exceeds any MCL to which the WRF contributes, the specific actions required to modify the treated effluent shall be documented during operations. The manner of controlling any MCL exceeding contaminant shall be documented. | HDWD         | As built drawings of the monitoring well and well location shall be retained in the project file. A copy of the monitoring well sampling plan shall be retained in the project file. A copy of the annual sampling analysis shall be retained in the project. An annual report of groundwater quality in the monitoring well shall be provided to the District Board and the report shall be retained in the project file. |  |

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| <b>Hydrology and Water Quality (continued)</b> |  |                         |   |              |   |  |
| 4.2-7  | The District shall provide a drainage report that defines the 100-year flood elevation on the site and shall either elevate the treatment plant facilities above this level with two feet of freeboard or shall provide protection of the site with a boundary levee that protects the facilities from exposure to flooding from the 100-year flow across the property. The final treatment plant facility design shall provide a means of re-routing any storm flows, including the 100 year flow, around the facility and back into the existing natural channel on the north side of the site without causing significant erosion in the channel. | IS/EA                   | The drainage study shall be completed prior to approving final design of the WRF. The design required to ensure the WRF is not located within the 100-year flood hazard area shall be retained in the project file. The drainage study shall verify that the WRF design will not increase downstream flows or flow velocity. If flows or flow velocity will be altered, the HDWD shall install downstream drainage improvements approved by County Flood Control to prevent downstream damage from altered flows. | HDWD         | A copy of the drainage study and WRF site design for drainage shall be retained in the project file. The as built drawings verifying that the site can pass the 100-year flood and not cause damage downstream shall be retained in the project file. |  |
| <b>Transportation / Traffic</b>                |  |                         |   |              |   |  |
| 4.5-1  | The construction contractor will provide adequate traffic management resources, such as protective devices, flag persons, and police assistance for traffic control, to maintain safe traffic flow on local streets affected by facility and pipeline construction at all times.   | IS/EA                   | The contractor shall prepare a traffic management plan for implementation at all construction sites on the local or area circulation system. This plan shall be completed and approved prior to initiating construction and its implementation shall be verified during construction.   | HDWD         | A copy of the traffic management plan shall be retained in the project file and field inspections during construction shall verify that the plan measures are being implemented.  |  |

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| <b>Transportation / Traffic (continued)</b> |   |                         |   |              |  |  |
| 4.5-2                                       | The construction contractor will identify traffic hazards created by construction, such as rough road or potholes, freshly paved locations, and minimize total traffic and vehicle speed through such hazards.                                    | IS/EA                   | The contractor shall prepare a traffic management plan for implementation at all traffic hazard locations related to construction sites on the local or area circulation system. This plan shall be completed and approved prior to initiating construction and its implementation shall be verified during construction. | HDWD         | A copy of the traffic hazards management plan shall be retained in the project file and field inspections during construction shall verify that the plan measures are being implemented. |  |
| 4.5-3                                       | The construction contractor will ensure that traffic safety hazards, such as uncovered or unfilled open trenches, will not be left in roadways during period of time when construction personnel are not present, such as nighttime and weekends. | IS/EA                   | This requirement will be included in the traffic management plans for construction and traffic hazard areas. This plan shall be completed and approved prior to initiating construction and its implementation shall be verified during construction.   | HDWD         | A copy of the traffic hazards management plan shall be retained in the project file and field inspections during construction shall verify that the plan measures are being implemented. |  |

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| <b>Transportation / Traffic (continued)</b> |  |                         |   |              |  |  |
| 4.5-4                                       | The construction contractor will repair all roads adequately after construction to ensure that traffic can move in the same manner as before construction.   | IS/EA                   | Within project-related construction areas, the contractor shall prepare a roadway restoration plan for implementation when construction within an area is completed. This plan shall be completed and approved prior to initiating construction and its implementation shall be verified during construction.   | HDWD         | A copy of the roadway restoration plan shall be retained in the project file and field inspections during construction shall verify that the plan measures are being implemented, both in terms of design and timeliness of restoration. |  |
| 4.5-5                                       | At all times during construction, the contractor will ensure that emergency fire, police or medical vehicles are able to access all adjacent areas. Additionally, construction equipment or activities must not obstruct or hinder traffic that might be generated during an evacuation. | IS/EA                   | The traffic management plan shall contain a section on emergency access during construction or during an evacuation. The contractor shall prepare a traffic management plan for implementation at all construction sites on the local or area circulation system. This plan shall be completed and approved by the Town or emergency service providers prior to initiating construction and its implementation shall be verified during construction. | HDWD         | A copy of the traffic management plan, including emergency and evacuation access shall be retained in the project file and field inspections during construction shall verify that the plan measures are being implemented.              |  |

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| <b>Natural Resources – Biological Resources</b> |   |                         |  |              |  |  |
| 4.6-1   | Once the final pipeline alignments are engineered and surveyed, and the wastewater reclamation facility site boundaries finally established, a qualified biologist will inventory the numbers and types of cacti, creosote bushes, and Joshua Trees that are to be impacted and removed. Salvaging of individual Joshua tree and cacti plants within these final alignments will be done in compliance with Town and County ordinances.   | IS/EA                   | The qualified biologist's inventory shall be completed before ground disturbance within any pipeline alignment. The District shall retain a qualified Joshua tree and cacti salvage firm and this firm shall compile a plant relocation plan and complete any relocations prior to initiating construction in the area of these resources. | HDWD         | A copy of the inventory shall be retained in the project file. A copy of the plant relocation plan shall be retained in the project file. Field inspections during relocation and after relocation shall verify that the plan measures are implemented and that any maintenance measures for the plants are being implemented.                                 |  |
| 4.6-2   | Any grubbing or brushing to occur as part of the project will be conducted outside of the State-identified bird breeding season of February 15 <sup>th</sup> through September 1. Alternatively, a qualified biologist may survey the project impact area and if no native bird nests are discovered, the development may proceed. A report of findings will be provided to the California Department of Fish and Game if construction in the vicinity of bird nests must be conducted during nesting season. | IS/EA                   | If grubbing and site clearance are proposed during nesting season, the qualified biologist's survey data and findings shall be completed prior to implementing site clearance. If approved by CDFG, construction can proceed by following any nesting bird protection measures.  | HDWD         | The District shall document the time when construction will occur for all project components (WRF, pipelines, or pump stations). Any biologist nesting surveys and recommendations shall be retained in the project file after approved by CDFG. Field inspections during site clearance shall verify that the bird protection measures are being implemented. |  |

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| <b>Natural Resources – Biological Resources (continued)</b> |  |                         |   |              |   |  |
| 4.6-3   | If the above work cannot be done according to this schedule, prior to the initiation of any ground disturbance, a qualified biologist will determine what birds are nesting in the shrubs or trees to be removed or are within 500 feet of the area that will be under construction.                       | IS/EA                   | If ground disturbance is proposed during nesting season, the qualified biologist's survey data and findings shall be completed prior to implementing site clearance. If approved by CDFG, construction can proceed by following any nesting bird protection measures. | HDWD         | Any biologist nesting surveys and recommendations shall be retained in the project file after approved by CDFG. Field inspections during site clearance shall verify that the bird protection measures are being implemented.   |  |
| 4.6-4   | Mitigation for impacts to jurisdictional water of the State shall be offset by revegetating the pipeline alignment across the wash with equivalent habitat. This requirement shall be memorialized in the 1602 Streambed Alteration Agreement obtained for this project prior to disturbing the alignment. | IS/EA                   | Prior to ground disturbance within any State jurisdictional water, the existing habitat and plant community shall be documented and a revegetation plan developed and approved by CDFG.   | HDWD         | A copy of the existing habitat characteristics shall be retained in the project file and a copy of the approved revegetation plan shall also be retained in the project file. HDWD shall monitor compliance with all revegetation plan requirements and provide annual monitoring reports to the file and any other agency requesting a copy. |  |

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| <b>Natural Resources – Biological Resources (continued)</b> |  |                         |  |              |   |
| 4.6-5   | Prior to initiating site clearing and grading activities on the WRF project site, a pre-construction desert tortoise and burrowing owl survey shall be conducted within 30 days of initiating ground disturbance at the administrative building. Assuming no tortoise are found, the District may install a tortoise exclusion fence around the WRF site or retain a qualified biologist to monitor the project area one time per week during the duration of active construction activities on the WRF site. If either species (tortoise or burrowing owl) is discovered on the administrative building site, a qualified professional biologist shall implement measures, including possible acquisition of an incidental take permit, to remove any individuals of either species from this site. | IS/EA                   | The preconstruction occupancy survey shall be conducted within 30 days prior to initiating ground disturbance at the WRF project site. Based on findings, either a tortoise fence shall be installed, or measures shall be implemented to obtain an incidental take permit for tortoise or properly relocate any burrowing owl prior to initiating ground disturbance in accordance with CDFG procedures | HDWD         | The findings of the WRF preconstruction survey shall be retained in the project file. If tortoise or owl are found occupying the site, the ground shall not be disturbed until authorization is obtained from the US Fish and Wildlife Service and CDFG for tortoise, and CDFG for burrowing owl. All authorizations shall be retained in the project file. |
| 4.6-6   | To minimize potential support for local raven populations, the District shall publish or make available a brochure to all employees (including contractor employees) that describes measures which can be implemented by residents to minimize habitat support for local raven populations.  | IS/EA                   | The brochure shall be published and provided to all project and construction personnel prior to initiation of construction activities.   | HDWD         | A copy of the brochure shall be retained in the project file. Notes of meetings to educate the construction staff about raven populations shall be documented and retained in the project file.   |

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|---|--|-------------------------|--|--------------|--|--|
| <b>Natural Resources – Biological Resources (continued)</b> |  |                         |  |              |  |  |
| 4.6-7   | To prevent introduction of exotic, non-native plant species that could damage the local plant community, a qualified biologist shall compile a list of species that shall be prohibited from use in landscaping within the project area. | IS/EA                   | The list shall be compiled and made available to the landscape designer and contractor prior to initiation of construction.  | HDWD         | A copy of the list shall be retained in the project file. The HDWD shall have a qualified biologist review the landscape plants proposed for installation at the project site and shall have the installed landscaping reviewed for introduction of exotics. The field survey findings shall be documented and retained in the project file. |  |
| 4.6-8   | Worker education programs, defined construction areas, habitat mitigation, and well-defined operational procedures shall be implemented regarding desert tortoise and local wildlife.  | IS/EA                   | Each of these program elements shall be presented to all District and contractor employees working on the WRF or support facilities prior to being allowed to work on the project.   | HDWD         | A copy of worker education programs, maps of defined construction areas, habitat mitigation areas and operational procedures shall be retained in the project file. A log of training classes and attendees shall be retained in the project file.   |  |
| 4.6-9   | Unauthorized, public off-road use of any project areas shall be discouraged by posting of signs and by District inspectors monitoring the construction crew.   | IS/EA                   | This requirement shall be included as a condition or stipulation of the construction contract. Signs prohibiting District or contractor employees from engaging in off-road activity shall be posted in project construction areas prior to initiating construction. | HDWD         | A copy of the contract shall be retained in the project file. Field personnel shall document that signs have been posted and continue to be in place until construction is completed. Any violations of this requirement shall be noted by field inspectors and measures implemented by the District or contractor to stop such activity.    |  |

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|---|---|-------------------------|---|--------------|---|--|
| <b>Natural Resources – Biological Resources (continued)</b> |   |                         |   |              |   |  |
| 4.6-10  | Construction personnel or other persons related to the project shall not be permitted to bring pets or firearms into construction areas.  | IS/EA                   | This requirement shall be included as a condition or stipulation of the construction contract. These requirements shall be included in the worker education program.  | HDWD         | A copy of the contract shall be retained in the project file. Field personnel shall document that workers do not bring dogs or fire arms to the work sites. Any violations of this requirement shall be noted by field inspectors and measures implemented by the District or contractor to stop such activity. |  |
| 4.6-11  | Trash from construction crews and facility employees, especially food items or packaging, shall be disposed of in scavenger-proof containers and removed daily to avoid attracting desert tortoise predators to the area.   | IS/EA                   | This requirement shall be included as a condition or stipulation of the construction contract. The contractor shall identify the specific trash containers that will be used to prevent scavenging prior to initiation of ground disturbance.   | HDWD         | A copy of the contract shall be retained in the project file. Field personnel shall document that the correct or a comparable trash container has been installed at all work sites where trash is generated.  |  |
| <b>Natural Resources – Geology and Soils</b>                |   |                         |   |              |   |  |
| 4.6-12  | <p>Comprehensive geotechnical investigations shall be required prior to engineering and design development or structural and/or substantial rehabilitation of structures identified under Risk Class I &amp; II, e.g., public facilities, as identified below:</p> <ul style="list-style-type: none"> <li>• Risk Class I &amp; II, Structures Critically Needed after Disaster: Structures that are critically needed after a disaster include important utility centers, fire</li> </ul> | IS/EA                   | A geotechnical report detailing project-specific onsite geologic constraints, including risk tolerance classes, acceptable damage levels, multipliers, and appropriate design mitigation, will be completed prior to initiation of any groundbreaking activities for facilities that will be occupied or that must be | HDWD         | A copy of the geotechnical report shall be retained in the project file, and HDWD project managers and field inspectors shall verify that the recommendations outlined in the report are being implemented during construction of facilities.   |  |

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| <b>Natural Resources – Geology and Soils (continued)</b> |   |                         |  |              |  |  |
| 4.6-12<br>(cont.)  | <p>stations, police stations, emergency communication facilities, hospitals, and critical transportation elements such as bridges and overpasses and smaller dams.</p> <p><u>Acceptable Damage:</u> Minor non-structural; facility should remain operational and safe, or be suitable for quick restoration of service.</p> <ul style="list-style-type: none"> <li>• Risk Class III: High occupancy structures; uses are required after disasters (i.e., places of assembly such as schools and churches).</li> </ul> <p><u>Acceptable Damage:</u> Some impairment of function acceptable; structure needs to remain operational.</p> <ul style="list-style-type: none"> <li>• Risk Class IV, Ordinary Risk Tolerance: The vast majority of structures in urban areas; most commercial and industrial buildings, small hotels and apartment buildings, and single family residences.</li> </ul> |                         | functional following a seismic event.  |              |  |  |
| 4.6-13   | Any pipelines crossing the Alquist-Priolo Special Studies Zones for the Pinot Mountain, Eureka Peak and Burt Mountain Faults could be subject to damage due to ground rupture associated with these faults. Any construction of facilities in or pipelines crossing this zone is required to have detailed structural engineering studies to ensure designs that can safely accommodate the anticipated ground movement(s), or to be immediately repairable following a seismic event along any of the three fault.   | IS/EA                   | A structural engineering report detailing design measures to protect pipelines crossing through the Alquist-Priolo Special Studies Zone shall be completed prior to installing pipelines in or across the Zone. The design measure(s) shall be installed when the pipeline is installed. | HDWD         | A copy of the structural engineering report shall be retained in the project file, and HDWD project managers and field inspectors shall verify that the recommendations outlined in the report are being implemented during installation of pipelines within the Zone. |  |

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| <b>Natural Resources – Geology and Soils (continued)</b> |  |                         |   |              |  |  |
| 4.6-14   | Construction specifications will include appropriate measures for stabilizing excavations based on recommendation of project geotechnical studies. | IS/EA                   | Construction specifications for stabilizing excavations shall be completed prior to conducting excavations.   | HDWD         | A copy of the construction specifications shall be retained in the project file. Field inspectors shall verify that the specifications are being implemented during excavations, where necessary.  |  |
| 4.6-15   | Trenches will remain open for as short a time as possible.   | IS/EA                   | This requirement shall be included as a condition or stipulation of the construction contract. This requirement shall be implemented during installation of any trenches associated with the project. | HDWD         | A copy of the contract shall be retained in the project file. Field inspectors shall verify that the trenches are being closed as soon as work has been completed within the trench.   |  |
| 4.6-16   | Soils, where exposed, will be stabilized with hay bales or aggregate cover.  | IS/EA                   | This measure shall be implemented as part of the SWPPP and this specific measure shall be implemented during construction or until the soil has stabilized without the cover.                         | HDWD         | A copy of the SWPPP, including this requirement, shall be retained in the project file. Field inspectors shall verify that the exposed soils are stabilized as required during construction and until the soil has stabilized without the cover. |  |
| 4.6-17   | Construction specifications will identify proper compaction for backfilled soils.  | IS/EA                   | The construction specification shall be completed prior to any requirement to compact soils within construction areas.  | HDWD         | A copy of the required construction specification shall be retained in the project file. Field inspectors shall verify that the soils are compacted in accordance with the construction specification requirements.                              |  |

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| <b>Natural Resources – Visual Resources / Aesthetics</b> |   |                         |   |              |   |  |
| 4.6-18   | A facility lighting plan shall be prepared and shall demonstrate that glare from operating and safety night lights that may create light and glare affecting adjacent occupied property are sufficiently shielded to prevent light and glare from spilling into occupied structures. This plan shall be implemented in conformance with the Town of Yucca Valley Night Skies Ordinance and it shall be reviewed and approved by the District staff prior to installation of the night lights. | IS/EA                   | The lighting plan shall be completed and reviewed and approved prior to installing the lighting system.   | HDWD         | A copy of the facility lighting plan shall be retained in the project file. Field inspectors shall verify that the lighting system has been installed in accordance with the approved lighting plan.  |  |
| <b>Cultural Resources</b>                                |   |                         |   |              |   |  |
| 4.11-1   | In the event that subsurface historical, cultural or paleontological resources are accidentally exposed during onsite construction activities, construction will be stopped until a qualified professional evaluates the resources. If resources are encountered, adequate funding will be provided by the District to collect, curate and report on these resources.   | IS/EA                   | This measure will be incorporated into the construction contract. Any accidentally discovered resources shall be immediately evaluated and any management actions for such resources shall be implemented within one year of the discovery. | HDWD         | A copy of the contract shall be retained in the project file. Any accidental exposure shall be noted in the project file within 24 hours of the discovery. A copy of all reports regarding such a discovery shall be retained in the project file, including documentation that required management actions have been properly implemented. |  |

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| <b>Cultural Resources (continued)</b> |  |                         |   |              |  |  |
| 4.11-2                                | If any human remains are encountered during initial grading activities, all ground disturbing activities in the vicinity of the discovery will be terminated immediately and the County Coroner's office <u>MUST</u> be contacted within 24 hours at (909) 387-2543 to arrange for management of such remains. | IS/EA                   | This measure will be incorporated into the construction contract. Notification of the Coroner's office shall occur within 24 hours of any discovery.              | HDWD         | A copy of the contract shall be retained in the project file. Any accidental exposure shall be noted in the project file within 24 hours of the discovery. A copy of all reports regarding the disposition of human remains shall be retained in the project file. |  |
| <b>Other Impact Issues – Noise</b>    |  |                         |   |              |  |  |
| 4.17-1                                | Where noise sensitive receptors are present, construction will be limited to the daylight hours, typically 6 a.m. to 7 p.m. on weekdays, and between 9 a.m. and 6 p.m. on Saturday, and will not occur on Sundays or federal holidays, except in emergencies.  | IS/EA                   | This requirement will be included in the construction contract and will be implemented from the time that noise generating construction activities are initiated. | HDWD         | A copy of contract will be retained in the HDWD project file, and field inspections shall verify compliance with the scheduled hours of construction and document such verification in the project file.   |  |
| 4.17-2                                | All construction vehicles and fixed or mobile equipment will be equipped with properly operating and maintained mufflers.  | IS/EA                   | This requirement will be included in the construction contract and will be implemented from the time that noise generating construction activities are initiated. | HDWD         | A copy of contract will be retained in the HDWD project file, and field inspections shall verify compliance with the requirement to have and maintain equipment mufflers.  |  |

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| <b>Other Impact Issues – Noise (continued)</b> |   |                         |   |              |  |
| 4.17-3   | All employees that will be exposed to noise levels greater than 75 dB over an eight hour period will be provided with adequate hearing protection devices to ensure no hearing damage will result from construction activities.   | IS/EA                   | This requirement will be included in the construction contract and will be implemented from the time that noise generating construction activities are initiated.                 | HDWD         | A copy of contract will be retained in the HDWD project file, and field inspections shall verify compliance with the requirement to have noise protection devices in areas with sound levels greater than 75 dB over an 8-hour period. |
| 4.17-4   | If equipment is being used that can cause hearing damage at adjacent noise receptor locations (distance attenuation will be taken into account), portable noise barriers will be installed that are demonstrated to be adequate to reduce noise levels at receptor locations below hearing damage thresholds. | IS/EA                   | Where required, sound attenuation equipment shall be available during construction, prior to carrying out the activity which could cause hearing damage.                          | HDWD         | Field inspections shall be performed during periods when activities generate noise levels that can damage hearing to verify the attenuation devices are in place.  |
| 4.17-5   | Restrict the use of impulsive equipment such as jackhammers, pavement breakers, etc. between 7 p.m. and 5 a.m.  | IS/EA                   | This requirement will be included in the construction contract and will be implemented from the time that impulse noise generating construction activities are initiated.         | HDWD         | A copy of contract will be retained in the HDWD project file, and field inspections shall verify compliance with the requirement to prohibit impulse equipment use to between 7 p.m. and 5 a.m.  |
| 4.17-6   | Erection of temporary berms or plywood barriers to create a break in the line-of-sight, or erection of a heavy fabric tent around the noise source.   | IS/EA                   | Where required, sound attenuation equipment shall be available during construction, prior to carrying out the activity which could cause disruption of routine activity patterns. | HDWD         | When justified, field inspections shall verify compliance with the requirements to break the line-of-sight between the noise source and the sensitive receptor.  |

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| <b>Other Impact Issues – Noise (continued)</b> |  |                         |  |              |  |  |
| 4.17-7   | Selection of as small a piece of equipment as possible that would still accomplish the task.   | IS/EA                   | This requirement to utilize small or lower noise generating equipment to reduce noise levels will be included in the construction contract and will be implemented from the time that noise generating construction activities are initiated.  | HDWD         | Copy of contract will be retained in the HDWD project file, and field inspections shall verify compliance with the use of such equipment. Field notes verifying compliance shall be retained in the project file.  |  |
| 4.17-8   | As the District completes design of the WRF and pump stations systems, a noise study shall be completed that identifies noise levels for such systems, and identifies the specific design measures (attenuation walls, enclosures, berms, or other features) that must be incorporated into the facility design to prevent noise from exceeding the local significance threshold of 65 dBA CNEL at the sensitive receptor location. Appropriate nighttime noise reductions (walls, enclosures, mufflers, etc.) must be incorporated for any loud noise equipment that may cause this value to be exceeded. If the study indicates no attenuation is required, the District shall conduct a noise study after the facility(ies) are in operation to verify the study conclusions and implement noise attenuation features if necessary based on the measurements. | IS/EA                   | The noise study and design requirements for these specific facilities shall be completed prior to initiating construction of these facilities. Any noise attenuation design requirements shall be installed during construction. The after installation noise study shall be completed prior to placing the piece of equipment in routine operation. | HDWD         | A copy of the noise study and design requirements shall be retained in the project file. A copy of the noise study after installation of the equipment shall also be retained in the project file. Field inspections shall verify compliance with the noise attenuation design requirements. Field notes verifying compliance shall be retained in the project file. |  |