# Garvey Reservoir Rehabilitation Project Initial Study Appendix 1 of 2

# Appendix A

# Metropolitan Standard Practices

### SECTION 01065 ENVIRONMENTAL COMPLIANCE REQUIREMENTS

Note to Specifier (NTS): This Master Specification is not a "standard" specification but a baseline template to tailor for specific project needs. Ensure that editing is consistent with other contract documents.

- 1. Revise text or numbers in brackets [].
- 2. If there is text that does not apply to the project, including optional text identified with a ★, delete the text and type "(Not Used)" next to the article heading. Do not delete article section headings.
- 3. Verify cross-references when adding or deleting any text.

Consult the Metropolitan discipline technical lead with any questions.

NTS: Ensure all CEQA mitigation measures and/or permit conditions which must be implemented by Contractor are covered in this section.

NTS: When using this section, include the following sections in the project specifications as applicable: 01010, Summary of Work 01060, Safety and Regulatory Requirements \*01070, Storm Water Pollution Prevention Plan (SWPPP) \*01072, Water Pollution Control Plan (WPCP) \*01300, Submittals \*01530, Temporary Fences \*01550, Access, Parking, and Traffic \*01565, Noise Control \*02110, Clearing, Grubbing, and Stripping \*02140, Dewatering

### PART 1 GENERAL

1.01 GENERAL

NTS: Fill in all areas as appropriate or identify these areas on the drawings. ERAs/ESAs requirements must be project specific (e.g., Fenced? Flagged? Staked? Subject to EPS review).

- A. Metropolitan holds the Contractor and all subcontractors liable for meeting the conditions stated herein and in all of Metropolitan's permits and local, state, and federal environmental regulations, acts, laws, and ordinances.
- B. The Contractor shall obtain necessary local, state and federal environmental permits and shall comply with the requirements of all such permits and laws, regulations, acts, codes and ordinances. Metropolitan will provide Contractor with copies of all environmental permits obtained by Metropolitan.
- C. The Contractor shall perform all construction activities only within the construction boundaries shown on the drawings.[ The construction boundaries shall be fenced as specified in this section[ and Section 01530, Temporary Fences], unless otherwise directed by the Engineer.] The Contractor shall submit in writing a request to use any area outside the construction boundaries for any activity for authorization by the Engineer.
- D. ★ The Contractor and all employees shall attend an Employee Orientation Meeting with the Engineer and Metropolitan's designated environmental monitor. The Employee Orientation Meeting will inform all employees of the potential for encountering cultural resources; the sensitivity of the area in which they will be working; environmental measures and requirements; the prevention of harm, harassment, injury, or death of wildlife; and minimization or avoidance measures for sensitive resources.

- E. ★ The Contractor shall notify the Engineer two weeks prior to any activity within 500 feet of Environmentally Sensitive Areas (ESAs) or Environmental Restricted Areas (ERAs). The Contractor shall notify the Engineer of all proposed activities within ESAs to ensure compliance with all conditions and mitigation measures. The Engineer will, or the Contractor shall as directed by the Engineer, flag or stake the limits of ESAs/ERAs. The Contractor shall fence the ESAs/ERAs limits, as required by the Engineer.
- F. ★Metropolitan is responsible for contracting any environmental monitors, mitigation monitors, qualified biologists, qualified archaeologist, qualified paleontologist, or qualified architectural historians required under this specification.

### 1.02 SUBMITTALS

- A. ★Submittals shall be in accordance with Section 01300, Submittals, and this section.
- B. ★Action Submittals
  - 1.  $\star$ All environmental or otherwise applicable permits procured by the Contractor.
  - 2. A current copy of each construction vehicle's certified tier specifications and Best Available Control Technology (BACT) documentation.
  - 3. Annual copies of the CARB Certificate of Reported Compliance for the Off-Road Diesel Vehicle and Advanced Clean Fleet Regulations.
  - 4. ★All local air quality management district permits or CARB certifications for equipment and vehicles being used by the Contractor.
  - 5. ★Noise Control Plan: The plan shall address requirements specified in this section[ and Section 01565, Noise Control].
  - 6. ★Rideshare Plan: A Rideshare Plan for construction employees shall be developed and implemented. The trip reduction plan shall be applicable during the full term of the contract. The trip reduction plan must include rideshare and transit incentives for construction personnel. The plan shall address requirements specified in this section[and Section 01550, Access, Parking, and Traffic].

### 1.03 SITE ACTIVITIES

## NTS: Review and coordinate with Section 02110 to ensure project specific conditions are included (i.e., stripping depth).

- A. ★The Contractor shall clear, grub, and strip construction areas as specified in Section 02110, Clearing, Grubbing, and Stripping.
- B. ★Staging, stockpiling, and storage areas for vehicles, equipment, and material shall be located outside of any surface water body, drainage channel, [★or ESAs/ERAs].
- C. ★The Contractor shall not enter or drive through any surface water body, drainage channel, [★or ESAs/ERAs], unless noted otherwise.
- D. ★No debris, soil, silt, sand, bark, slash, sawdust, asphalt, rubbish, paint, oil, cement or concrete or washings thereof, oil or petroleum products, or other organic or earthen materials from construction activities, including stockpiles, shall be allowed to enter into or placed where it can be washed into any surface water body, drainage channel, [★the Colorado River Aqueduct (CRA),] [★or ESAs/ERAs].
- E. The Contractor shall implement measures to prevent debris, dust, liquid, and other objects from falling into the water while working over or near water surfaces.
- F. ★No excess materials, rubbish, or debris shall be deposited within [choose appropriate project-specific distance] feet of any surface water body or drainage channel [★or ESAs/ERAs].

### NTS: Use the following paragraph only for desert locations.

- G.  $\star$ No excess materials, rubbish, or debris shall be deposited within 300 feet of the CRA.
- H. ★No fueling or maintenance shall be done within [choose appropriate project-specific distance] feet of any surface water body or drainage channel [★or ESAs/ ERAs] or where petroleum products or other pollutants may enter these areas under any flow.

### NTS: Use the following paragraph only for desert locations.

- I. ★No fueling or maintenance shall be done within 500 feet of natural drainage swales or the CRA or where petroleum products or other pollutants may enter these areas under any flow.
- J. \*Any equipment or vehicle to be driven and/or operated within a surface water body, drainage channel, or drainage swale shall be checked and maintained daily to prevent leaks of materials.
- K. Stationary equipment such as motors, pumps, and generators, shall be equipped with drip pans, which are secured to prevent shifting or overturning in the event of high winds.
- L. The Contractor shall dispose of excess materials, debris, and rubbish in approved off-site locations consistent with the requirements of issued disposal permits and applicable local, state, and federal laws and regulations.
  - 1. The Contractor is responsible for obtaining all environmental permits and submitting them to the Engineer for authorization prior to site preparation or disposal of the materials at the approved off-site location.
  - 2. Permission of property owner does not preclude the Engineer from rejecting a disposal site.
- M. The Contractor shall dispose of all hazardous materials in accordance with Section 01060, Safety and Regulatory Requirements.
- N. The Contractor shall handle, store, apply, and dispose of chemicals and/or herbicides consistent with all applicable federal, state, and local regulations.
- O. The Contractor shall clean up all spills in accordance with all applicable environmental laws and regulations and notify the Engineer immediately in the event of a spill.
- P. Unless otherwise shown on the drawings, the Contractor shall return all Contractor yard and laydown areas to the original topographic conditions.
- Q. ★The Contractor shall stabilize exposed slopes, streambeds, and streambanks that are located within the construction limits.
- R. The Contractor shall not create a nuisance or pollution as defined in the California Water Code. The Contractor shall not cause a violation of any applicable water quality standard for receiving waters adopted by the Regional Water Quality Control Board or the State Water Resources Control Board, as required by the Clean Water Act.
- S. ★Dewatering activities (e.g., for nuisance water or groundwater) shall not affect any vegetation outside of the construction limits. Dewatering shall be in accordance with Section 02140, Dewatering.
- T. ★ The Contractor shall ensure that vehicles and equipment brought on-site shall be decontaminated in accordance with federal and state publications for controlling the spread of noxious weeds, invasive species, and disease, which includes inspecting all vehicles, tools, boots, and other project-related equipment, and removing all visible soil/mud, plant materials, and animal remnants prior to entering and exiting the project site. Rules and guidelines are available at: <a href="https://www.fs.fed.us/eng/pubs/pdf/05511203.pdf">https://www.fs.fed.us/eng/pubs/pdf/05511203.pdf</a>
  - 1. The Contractor shall complete the Certification of Clean Equipment prior to any vehicles or equipment entering the project site (see Attachment A).
  - 2. The Contractor shall decontaminate all tools, boots, and other equipment prior to entering and exiting the project site and/or between each use at different sites to avoid the introduction and transfer of organisms between locations.
    - a. The Contractor shall decontaminate project gear and equipment by thoroughly scrubbing equipment, especially small crevices such as bootlaces, seams, net corners, etc., with a stiff-bristled brush to remove all organisms. Guidelines are available at: <u>https://www.cal-ipc.org/docs/bmps/dd9jwo1ml8vttq9527zjhek99qr/BMPsTransportUtilityCorridors.pdf</u>
  - 3. The Contractor shall power-wash all vehicles and equipment prior to entering the project site.
    - Power-washing vehicles includes washing all mud and debris on and under the vehicle (powertrain), bumpers, and especially, tires. Guidelines are available at: <u>https://www.cal-</u>ipc.org/docs/bmps/dd9jwo1ml8vttq9527zjhek99qr/BMPLandManager.pdf

b. The Contractor shall repeat the decontamination process and re-certify a vehicle or piece of equipment if it has been removed from the site, used at a different site then later returned to the project site, or as deemed necessary by the Engineer.

### NTS: Consult with Safety and Regulatory Services (SRS) for requirements in below article.

1.04 AIR POLLUTION CONTROL

- A. ★The Contractor shall not discharge smoke, dust, or other air contaminants into the atmosphere in a quantity that is greater than 20% opacity (Ringlemann 1) for more than 3 minutes in a 1-hour time period as required by [SCAQMD/MDAQMD Rule 401].
- B. The Contractor shall use renewable diesel (R99 or R100) for all construction vehicles and equipment as required by CARB where feasible. The Contractor must demonstrate that renewable diesel is not available through normal fueling mechanisms for the Engineer's authorization to use ultra-low sulfur diesel (ULSD). [Include additional mitigation measures required by CEQA.]
- C. ★The Contractor shall use low emission mobile construction equipment during site preparation, grading, excavation, and construction of the project.
- D. The Contractor shall not idle the vehicle primary diesel engine for greater than 5 minutes at any location, except as allowed by CARB regulation: Title 13 CCR, Division 3, Chapter 10, Section 2485.
- E. Construction equipment shall be maintained, and properly tuned and operated in a manner to reduce peak emission levels.
- F. Dust Control
  - 1. The Contractor shall provide effective measures to prevent operations from producing dust in amounts damaging to personnel, property, Metropolitan plant operations, plants, or animals, and to prevent causing a nuisance to persons living or occupying buildings in the vicinity.
  - 2. Construction methods shall include dust reduction activities, including the use of water trucks in construction areas dust suppressants, and track-out control devices (e.g., gravel and tire cleaning grids).
  - 3. The Contractor shall spray water as often as required to minimize dust and particulates or apply a dust inhibiting surface treatment to avoid production of dust as determined by the Engineer in areas used as construction roads or other purposes in connection with the work.
    - a. The Contractor shall continuously maintain this surface condition during the entire construction period.
    - b. The Contractor's construction facilities shall be operated in a manner ensuring minimum dust production.
    - c. The Contractor shall water or mist soil as it is being excavated and stockpiled or loaded onto transportation trucks.
  - 4. Paved streets shall be swept if silt is carried onto these roads from construction activities. Track-out shall not extend greater than 25 feet cumulatively in any direction.
  - 5. The Contractor shall cover or moisten with water trucks transporting soil or debris to suppress the dispersion of dust.
  - 6. The Contractor shall cover all trucks transporting earthen material or maintain at least 2 feet of freeboard.
- G. The Contractor shall use existing onsite power sources (e.g., power poles) rather than portable generators when feasible; or clean fuel generators shall be used rather than temporary generators powered by fossil-fuel when feasible. If a portable generator is powered by an engine rated over 50 bhp, it shall be CARB registered or permitted by the local air district.
- H. The Contractor shall use 2010 model year engines or 2010 model year equivalent emissions engines on diesel haul trucks, where available. At a minimum, the Contractor shall use engines that adhere to the CARB Truck and Bus Regulation: Title 13 CCR, Division 3, Chapter 1, Article 4.5, Section 2025.

### NTS: Use following paragraph if mitigation measures are required under CEQA.

I. ★All off-road diesel-fueled construction vehicles greater than 25 horsepower (hp) shall be compliant with federally mandated clean diesel engines emissions (US Environmental Protection Agency Tier 4), where available. [Include additional mitigation measures required by CEQA.]

- J. All off-road diesel-fueled construction vehicles shall be in accordance with CARB's In-use Off-road Diesel-fueled Fleet Regulation: Title 13 CCR, Division 3, Chapter 9, Article 4.8.
  - 1. The Contractor shall submit a current copy of each construction vehicle's certified tier specifications, BACT documentation, or the CARB Certificate of Reported Compliance Off-Road Diesel Vehicle Regulation and be labeled with the CARB issued Equipment Identification number (EIN).
- K. All portable engines greater than 50 hp and equipment shall be compliant with CARB's Portable Equipment Registration Program (PERP) Regulation: Title 13 CCR, Division 3, Chapter 9, Article 5; the Portable Engine Air Toxics Control Measures of Title 17 CCR, Division 3, Chapter 1, Subchapter 7.5, Section 93116; and local air district rules.
  - 1. All applicable equipment must have valid CARB registrations or local air quality management district permits.
- L. ★The Contractor shall notify the local air district in accordance with the CARB PERP Regulations specified timeframes for any construction projects that have fleets of PERP engines that exceed 2,500 combined hp or greater and if units are scheduled to be onsite for more than 5 days.
  - 1. The Contractor shall ensure that project Particulate Matter (PM) emissions shall not exceed more than 82 pounds per day as required by CARB regulations: CCR Title 13, Division 3, Chapter 9, Article 5, Sections 2455-2459.
- M. ★For sites contaminated with Volatile Organic Compounds (VOCs) and/or toxic air contaminants, the Contractor shall follow all requirements of SCAQMD Rule 1166 for VOC Emissions from Decontamination of Soil and/or Rule 1466 for Control of Particulate Emissions from Soils with Toxic Air Contaminants, including but not limited, to providing authorized mitigation plans and conducting dust monitoring, and required notifications.
- N. **★**Traffic speeds on all unpaved roads shall be [20] mph or less as posted.

### NTS: Delete Rule 403.1, if not within the Coachella Valley Blowsand Zone.

O. The Contractor shall comply with [SCAQMD and/or MDAQMD] Rules 401 (Visible Emissions), 402 (Nuisance), and 403 (Fugitive Dust)[, and SCAQMD Rule 403.1 (Supplemental Fugitive Dust Control Requirements for Coachella Valley Sources)]. Copies of the Rules shall be kept at the site. Special attention shall be directed toward the following:

### NTS: Delete if within MDAQMD.

1. ★ The Contractor shall not discharge from any source air contaminants (e.g., smoke or dust) which exceed the legal limits endanger, or cause injury, detriment, nuisance, or annoyance to any considerable number of persons or to the public.

## NTS: Delete if within MDAQMD. Delete Rule 403.1, if not within the Coachella Valley Blowsand Zone.

- 2. ★The Contractor shall implement the Best Available Control Measures (BACM) listed in Table 1 of SCAQMD Rule 403[ and Rule 403.1].
- 3. ★The Contractor shall comply with the Large Operation requirements (50 or more acres of disturbed surface area or earth moving operations of 5,000 cubic yards/day for more than 3 days) which include but are not limited to notification to SCAQMD and use of BACM listed in Table 2 of SCAQMD Rule 403.

## NTS: Delete if within MDAQMD. Delete Rule 403.1, if not within the Coachella Valley Blowsand Zone.

- 4. ★When wind speeds, including instantaneous gusts, exceed 25 miles per hour, the Contractor shall implement and record Contingency Control Measures listed in Table 3 of SCAQMD Rule 403[ and Rule 403.1].
- P. ★For sites conducting abrasive blasting, only CARB certified abrasives shall be used. The abrasive blasting equipment shall possess a local air district permit or CARB registration. Blasting of any materials that may contain toxics shall be confined and be used in conjunction with a permitted negative air machine. The Contractor shall comply with the following opacity/Ringlemann limits based off activity:
  - 1. Confined blasting--20% opacity/Ringlemann 1
  - 2. Unconfined blasting--40% opacity/Ringlemann 2

### NTS: Delete if within MDAQMD.

Q. ★Any temporary batch plant located on site shall have the appropriate local air district operating permit. The operator of the plant shall use dust suppressants or other dust control measures at each source during loading, unloading, or transferring activities to limit fugitive dust emissions. These control measures shall apply to conveyors, crushing equipment, screening equipment, and storage piles. The operator shall comply with all requirements of SCAQMD Rule 1157.

### NTS: Delete if within MDAQMD.

R. ★The Contractor shall use only approved asbestos removal procedures as identified in SCAQMD Rule 1403, including but not limited to, notification of the intent to conduct any demolition or renovation no later than 10 days prior to the activity.

### NTS: Delete if within SCAQMD.

S. ★ The Contractor shall complete the MDAQMD Asbestos Checklist (available at: <u>ca.gov</u>) and, as applicable, submit a Notification of Demolition/Renovation to MDAQMD 10 working days prior to the start of any demolition or renovation work. The Contractor shall adhere to all work practices as specified in the Asbestos National Emission Standards for Hazardous Air Pollutants (NESHAP), CFR Title 40 Part 61, Subpart M.

### NTS: Use Article 1.05 for non-desert locations.

### 1.05 BIOLOGICAL RESOURCES

- A. As part of the project, the following procedures shall be implemented to avoid adverse impacts to sensitive biological resources, especially the [identify sensitive species (e.g., coastal California gnatcatcher)].
  - \*Prior to commencing construction or mobilization activities, a Metropolitan biologist will conduct a survey(s) to ensure avoidance of any sensitive resources during construction activities. Following the survey(s), Metropolitan may provide sensitive resource avoidance recommendations as appropriate. A Metropolitan biologist may be present onsite throughout the duration of the work at the discretion of Metropolitan to monitor all construction activities.
    - a. The biologist will oversee compliance with protective stipulations for [list sensitive species], as necessary.
    - b. The biologist shall be present when the Contractor establishes the construction limits as shown on the drawings and/or installs temporary fencing or other site boundary markers. All temporary fencing or other markers shall be clearly visible to construction personnel.
    - c. Prior to any construction or grading activities, the biologist will provide education to all project personnel regarding the prevention of harm, harassment, injury, or death of wildlife and minimization or avoidance of sensitive resources. The instruction shall be given as often as necessary to ensure that all personnel working on site are adequately briefed in the matter.
    - d. The biologist will be empowered to temporarily halt construction activities and make recommendations to ensure impact minimization, compliance with the relevant provisions of all environmental permits and regulations, and that work does not take place in habitat areas outside the clearing limits.
    - e. ★No construction access, parking, or storage of equipment or materials is permitted within ESAs/ERAs, unless authorized by the Engineer.
    - f. The Contractor shall cover all open trenches when not in use at the end of each workday.
- B. ★As part of the project, the following procedures shall be implemented to avoid adverse impacts to trees located within the project work limits:
  - 1. ★The Contractor shall avoid stockpiling of materials and driving or parking vehicles and equipment under the canopy of existing trees to protect tree root systems and avoid damage to the trees, where trees and work limits are not on concrete or asphalt.
  - 2. No trees within project work limits shall be removed, cut, or trimmed unless identified on the drawings, or authorized in advance by Metropolitan.
    - a. Per applicable local tree ordinances, required permits shall be obtained prior to any tree removal, cutting, or trimming.

3. Trees designated for removal shall be removed in accordance with the Migratory Bird Treaty Act and California Fish and Game Code §3503.

### NTS: Use Article 1.06 for desert locations.

1.06 **★**BIOLOGICAL RESOURCES (DESERT LOCATIONS)

- A. As part of the project, the following standard operating procedures will be implemented to avoid adverse impacts to sensitive biological resources, especially the desert tortoise [and other sensitive species, as necessary].
  - 1. ★Prior to commencing construction or mobilization activities, a Metropolitan biologist will conduct a survey(s) to ensure avoidance of any sensitive resources during construction activities. Following the survey(s), Metropolitan may provide sensitive resource avoidance recommendations as appropriate.
  - 2. A Metropolitan biologist may be present onsite throughout the duration of the work at the discretion of Metropolitan to monitor all construction activities.
    - a. The biologist will oversee compliance with protective stipulations for the desert tortoise [and other sensitive species, as necessary].

## NTS: If other sensitive species are identified in addition to the desert tortoise, include any additional protective stipulations below, as necessary.

- b. Prior to commencing construction or mobilization activities, the biologist will survey for desert tortoise burrows or other desert tortoise sign at all work sites, including laydown and storage areas, and site access routes. Surveys shall be conducted according to the U.S. Fish and Wildlife Service document "Preparing for Any Action that May Occur Within the Range of the Mojave Desert Tortoise. Any desert tortoise burrows located during these surveys will be flagged and/or fenced to ensure avoidance during construction activities as specified in this section[ and Section 01530, Temporary Fences].
- c. All Contractor's, subcontractors,' and suppliers' personnel who work onsite during construction shall participate in a desert tortoise awareness training program given by Metropolitan prior to being allowed to work on the site, which covers the following topics:
  - (1) Distribution, occurrence and habitat requirements of the desert tortoise in the southwestern United States,
  - (2) General behavior and ecology of the tortoise,
  - (3) Sensitivity to human activities,
  - (4) Legal protection,
  - (5) Penalties for violations of state or federal laws,
  - (6) Reporting requirements, and
  - (7) Project protective measures.
- d. The biologist shall be present when the Contractor establishes the construction limits shown on the drawings and any necessary access routes, and installs temporary fencing or other site boundary markers. All temporary fencing or other markers shall be clearly visible to construction personnel. Special habitat features, such as burrows, identified by the biologist shall be avoided.
- e. Access to the project sites shall be restricted to existing routes of travel as shown on the drawings, or as designated by the Engineer in the field. Driving off-road is prohibited at all times.
- f. Prior to commencing any dewatering operations, the biologist will survey the discharge water flow path to ensure that no desert tortoises are at risk from the discharge.
- g. All workers shall inspect for tortoises under vehicles or stationary equipment prior to moving them. If a desert tortoise is present, the worker shall carefully move the vehicle or equipment only when the desert tortoise would not be injured or shall wait for the desert tortoise to move away on its own.
- h. The Contractor shall cover all open trenches when not in use at the end of each workday.
- i. Dogs or any other pets or animals shall not be allowed in any work area.

- j. All trash and food items shall be promptly contained within closed, raven-proof containers and regularly removed from the site to reduce the attractiveness of the area to wildlife, especially ravens, and other tortoise predators.
- k. The biologist will be empowered to temporarily halt construction activities and make recommendations to ensure impact minimization, compliance with the relevant provisions of all environmental permits, and that work does not take place in habitat areas outside the clearing limits.

### NTS: Use the following if there are ESAs/ERAs.

- 1. The Contractor shall not allow access, parking, or storage of equipment or materials within ESAs and ERAs unless authorized by the Engineer.
- B. Traffic speed limit shall be [20] miles per hour on all unpaved roads. The purpose of this speed limit is to enable drivers sufficient time to identify and to avoid striking and killing desert tortoises. Metropolitan will issue the Contractor a warning for the first violation of the speed limit by any of his/her employees, subcontractors, and/or suppliers. Subsequently, Metropolitan reserves the rights to expel from the project repeat speeding offenders, or a first-time offender depending on the severity of the violation as determined by Metropolitan.
- C. ★As part of the project, the following procedures shall be implemented to avoid adverse impacts to trees located within the project work limits:
  - 1. ★The Contractor shall avoid stockpiling of materials and driving or parking vehicles and equipment under the canopy of existing trees to protect tree root systems and avoid damage to the trees, where trees and work limits are not on concrete or asphalt.
  - 2. No trees within project work limits shall be removed, cut, or trimmed unless identified for removal on project drawings, or authorized in advance by Metropolitan.
    - a. Per applicable local tree ordinances, required permits shall be obtained prior to any tree removal, cutting, or trimming.
  - 3. Trees designated for removal shall be removed in accordance with the Migratory Bird Treaty Act and California Fish and Game Code §3503.

### 1.07 **★**MIGRATORY BIRD TREATY ACT AND CALIFORNIA FISH AND GAME CODE §3503

A. No physical disturbance of vegetation, operational structures (e.g., inlet/outlet towers, overhangs, etc.), buildings, or other potential habitat (e.g., open ground, gravel, construction equipment or vehicles, etc.) that may support nesting birds protected by the Migratory Bird Treaty Act and California Fish and Game Code §3503 shall occur in the breeding season, unless authorized by the Engineer.

# NTS: Use the following paragraph only for desert locations. Change breeding period based on project location, local and annual climatic conditions, and in consultation with a qualified biologist, as needed.

1. ★The breeding season in the desert typically extends from January 15 through July 15 but can vary based on local and annual climatic conditions.

NTS: Change breeding period based on project location, local and annual climatic conditions, and in consultation with a qualified biologist, as needed.

- 2. The breeding season extends from [specify date] to [specify date].
- 3. If nesting habitat must be cleared or project activities must occur in the vicinity of nesting habitat within the breeding season as defined above, a qualified biologist will perform a nesting bird survey no more than [insert number of days; typically between 3-5 days] days prior to clearing or removal of nesting habitat or start of project activities.
- 4. If active nests for sensitive species, raptors, and/or migratory birds are observed, an adequate buffer zone or other avoidance and minimization measures may be established until the young have fledged and are no longer reliant on the nest, as identified by a qualified biologist and authorized by the Engineer. If a buffer is necessary it will be clearly marked in the field by the Contractor, as directed by the Engineer, and construction or clearing will not be conducted within this zone.

- 5. A qualified biologist will monitor active nests or nesting bird habitat within or immediately adjacent to project construction areas and the Engineer will provide necessary recommendations to the Contractor to minimize or avoid impacts to protected nesting birds.
- 6. If implementation of avoidance and minimization measures is not feasible, the qualified biologist responsible for monitoring will be empowered to temporarily halt construction activities, until the young have fledged and are no longer reliant on the nest or biological monitoring indicates that construction can proceed with no impacts to the nest and/or young.

### NTS: The following article is not necessary if there is no ground-disturbance.

### 1.08 **★**CULTURAL AND PALEONTOLOGICAL RESOURCES

- A. Cultural and paleontological resources may include, but are not limited to: prehistoric artifacts, grave goods, funerary objects, human remains, historic can scatters, building foundations, historic buildings, structures, objects, and fossils.
- B. ★Archaeological and/or paleontological surveys of the project area have been conducted; however, discoveries of previously unknown archaeological and paleontological resources or buried deposits may be possible during construction.
- C. ★The Contractor shall not infringe upon any areas identified as a cultural or paleontological area, whether they have been identified as an ESA/ERA or not. Any person identified trespassing upon restricted areas shall be immediately removed from the project.
- D. If archaeological or paleontological resources are encountered at the project site, the Contractor shall not disturb the resources and shall immediately:
  - 1. Cease all work within 50 feet of the discovery
  - 2. Notify the Engineer
  - 3. Protect the discovery area, as directed by the Engineer
  - 4. The Engineer, with the qualified architectural historian, archaeologist and/or paleontologist, will make a decision of validity of the discovery and designate an area surrounding the discovery as a restricted area. The Contractor shall not enter or work in the restricted area until the Engineer provides written authorization.
- E. ★Ground-disturbing activities will be monitored by a qualified archaeologist or paleontologist.
  - 1. The Engineer and monitor will conduct a review of the location for the boundaries of the archaeological/paleontological monitoring area.
  - 2. Temporary fencing or other restricting features may be used to define the boundaries of the monitoring area. The Contractor shall not work within the monitoring area boundaries unless the monitor is present.
  - 3. The Contractor shall submit to the Engineer, a schedule of days to be worked, at least five working days prior to work within the monitoring area.
  - 4. If any cultural materials are observed during ground disturbance, the Contractor shall follow the procedures outlined hereinabove.

### 1.09 **\***HUMAN REMAINS

A. In the event that human remains are discovered during excavation/construction activity, Health and Safety Code Section 7050.5, CEQA Guidelines Section 15064.5 (e), and Public Resources Code Section 5097.98 shall apply. The Contractor shall notify the Engineer at once and not enter or work in the restricted area until the Engineer provides written authorization.

#### 1.10 WILDFIRE PROTECTION

A. Gasoline-powered or diesel-powered machinery used during construction shall be equipped with standard exhaust controls and muffling devices that also act as spark arrestors.

### 1.11 HAZARDOUS MATERIALS

A. Handling of hazardous materials shall be in accordance with Section 01060.

### 1.12 LIGHT ABATEMENT

- A. The Contractor shall exercise special care to direct floodlights to shine downward. Floodlights shall be shielded to avoid a nuisance to the surrounding areas.
- B. No lighting shall include a residence or native area in its direct beam.
- C. The Contractor shall correct lighting nuisance whenever it occurs.

### 1.13 **★**MONITORING

- A. Metropolitan is required to comply with the state and federal environmental regulations, which may require monitoring.
- B. ★Metropolitan is required under the California Environmental Quality Act (CEQA) to provide mitigation monitoring in accordance with the [insert CEQA document name], [and to comply with the USFW S/ACOE/CDFW/RWQCB (10(a) or Section 7/1602/404/401, etc.) permit(s) issued for this project] [if permit is required]. The Contractor shall comply with the mitigation monitoring plan as specified herein and as directed by the Engineer.
- C. Metropolitan's monitors will monitor construction activities to ensure that all conditions are implemented; however, the Contractor is responsible for their implementation. Monitors shall be allowed access to observe all construction.
- D. The Contractor shall submit required documentation (e.g., equipment list and maintenance logs, noise monitoring logs, seed labels) demonstrating compliance with applicable regulations.

### 1.14 **★**NATIVE AREAS

- A. The Contractor is cautioned that wildlife may traverse the work limits. The Contractor shall conduct his/her operations to facilitate the well-being of all wildlife affected by the project.
- B. The Contractor shall not feed or harass wildlife.
- C. The Contractor shall keep the work area free of trash and food waste. All food waste and trash shall be removed from the work area daily.

### 1.15 NOISE CONTROL

- A. The Contractor shall comply with all requirements of governmental agencies having jurisdiction.
- B. All site preparation, grading, excavation, and construction activities shall be limited to the hours specified in Section 01010, Summary of Work, and shall be in accordance with local jurisdiction's noise ordinances.
  - 1. ★Deliveries in residential areas shall only be conducted between [insert time period (i.e., 7 a.m. and 5 p.m. Monday through Saturday, and between 9 a.m. and 3 p.m. on Sunday)][hours specified in Section 01010].
  - 2. ★Queuing of trucks and/or delivery of construction materials to any part of the construction site will not be allowed in residential areas outside of designated hours.
- C. The Contractor shall comply with all requirements of the authorized Noise Control Plan, as specified in this section.
- D. The Contractor shall perform all work without undue noise and shall make every effort to abate or prevent noise nuisances.
- E. Construction vehicle equipment shall be kept in proper working order for the duration of the construction activities.
- F. The Contractor shall equip all construction equipment, fixed and mobile, including internal combustion engines, with properly operating and maintained noise mufflers and intake silencers, consistent with the manufacturers' standards.
- G. Stationary noise-generating equipment, such as generators and compressors, shall be housed or covered and located as far possible as practicable from the nearest residential/institutional property lines to attenuate noise.
- H. If electrical services are available within 150 feet, electrical power shall be used to run air compressors and similar power tools at all construction activity locations, in lieu of gas or diesel-powered compressors.

### 1.16 SURFACE AND STORM WATER CONTROL

A. Surface and storm water control shall be in accordance with Section [01070, Storm Water Pollution Prevention Plan (SWPPP) / 01072, Water Pollution Control Plan (WPCP)].

### 1.17 **★**TRAFFIC

- A. The Contractor shall set up temporary traffic control as specified in the Contractor's authorized traffic control plan, and as specified in Section 01550, Access, Parking, and Traffic. See Submittals article.
- B. ★The Contractor shall cover all open trenches when not in use at the end of each workday, where feasible and necessary.
  - 1. In residential areas, plating shall be recessed to reduce noise impacts to residents.

### 1.18 ★WELL-BEING OF DOMESTIC ANIMALS

- A. The Contractor is cautioned that domestic animals (cattle, horses, and others) may traverse the work limits or are kept on surrounding properties. The Contractor shall conduct his/her operations to avoid unnecessary disturbances and facilitate the well-being of all animals affected by the project. The Contractor shall consult with the Engineer and affected animal owners and shall cooperate in using construction methods and establishing operating procedures to avoid unnecessary disturbances to animals.
- PART 2 PRODUCTS (NOT USED)

### PART 3 EXECUTION (NOT USED)

### ATTACHMENT A

### CERTIFICATION OF CLEAN EQUIPMENT

Project Name:

I certify that the following equipment is clean of soil, seeds, vegetative matter, other debris, or adult, juvenile, or eggs of aquatic invasive animals, and has been decontaminated. Cleaning and decontamination were performed outside of the bed, bank, or channel of a stream and the bed or shore of a lake. Rinse water was properly contained and disposed of according to applicable federal, state, and local laws and ordinances enacted and in force at time.

Equipment	License		Cleaning Location	Date Cleaned
Description	Plate/Identification #			
		IN		
		OUT		
		IN		
		OUT		
		IN		
		OUT		
		IN		
		OUT		
		IN		
		OUT		
		IN		
		OUT		
		IN		
		OUT		
		IN		
		OUT		
		IN		
		OUT		
		IN		
		OUT		
		IN		
		OUT		

Signature of Permittee or Designee

Date

Certification is needed any time equipment is moved into the project work area and prior to leaving the project work area for this project.

END OF SECTION

### SECTION 01070 STORM WATER POLLUTION PREVENTION PLAN (SWPPP)

Note to Specifier (NTS): This Master Specification is not a "standard" specification but a baseline template to tailor for specific project needs. Ensure that editing is consistent with other contract documents.

- 1. Revise text or numbers in brackets [].
- 2. If there is text that does not apply to the project, including optional text identified with a ★, delete the text and type "(Not Used)" next to the article heading. Do not delete article section headings.
- 3. Verify cross-references when adding or deleting any text.

Consult the Metropolitan discipline technical lead with any questions.

NTS: If the project requires a SWPPP, include Section 01070. If a SWPPP is not required, then use Section 01072, Water Pollution Control Plan (WPCP), instead of Section 01070.

NTS: When using this section, include the following sections in the project specifications as applicable: \*00120, Supplementary Instructions to Bidders 01300, Submittals \*02952, Erosion Control – Post Construction BMPs

### PART 1 GENERAL

1.01 REFERENCES

NTS: Delete references from Part 1 if they are not cited in the spec section. If new references are cited in the text, add the new references in Part 1.

A. General

- 1. The publications listed below form a part of this specification to the extent referenced. In the event of a conflict between the text of this specification and the references cited herein, the text of this specification shall take precedence.
- 2. Where a date is given for reference standards, the edition of that date shall be used. Where no date is given for reference standards, the latest edition available on the date of Notice Inviting Bids shall be used.
- B. California State Water Resources Control Board (SWRCB)
  - 1. Storm Water Program
- C. California Stormwater Quality Association (CASQA)
  - 2. Construction Best Management Practices (BMP) Online Handbook

### 1.02 SUBMITTALS

NTS: Coordinate with Document 00120, Supplementary Instructions to Bidders, regarding the timing of the SWPPP submittal. If the project requires an extensive SWPPP (typically for a large project), Document 00120 provides more time for the Contractor to prepare and submit, and for Metropolitan to review the SWPPP.

- A. Submittals shall be in accordance with Section 01300, Submittals, and this section.
- B. Action Submittals
  - 1. The Contractor shall submit an SWPPP to the Engineer for authorization. ★[The timing for the SWPPP submittal shall be as specified in Document 00120, Supplementary Instructions to Bidders]. The submitted SWPPP shall be fully compliant with the requirements of the SWRCB, Storm Water Program. The SWPPP shall be resubmitted if

determined unacceptable by the Engineer. Two paper copies and one electronic PDF format copy of the SWPPP shall be submitted. The SWPPP shall contain the following:

- a. Names and qualifications of the Contractor's SWPPP Manager, Qualified SWPPP Developer (QSD), and Qualified SWPPP Practitioner (QSP).
- b. Statement indicating the Contractor's intent to comply with the terms of the Construction General Permit (CGP) for storm water discharges associated with construction activity until the Contractor-prepared SWPPP is authorized by the Engineer.
- 2. The Contractor shall submit all necessary revisions and amendments to the SWPPP to the Engineer for authorization. Two paper copies and one electronic PDF format copy of SWPPP amendments shall be submitted.
- C. Information Submittals
  - 1. All annual compliance certifications, monitoring program reports, inspection logs, and data shall be submitted as electronic PDF format copies to the Engineer as required by terms and conditions of the CGP and SWPPP. The Contractor shall also provide the Engineer access to a maintained paper copy of inspection logs and reports.

#### 1.03 RELATED ACTIVITIES BY METROPOLITAN

- A. Metropolitan has provided site maps of the project to assist the Contractor with its preparation of the SWPPP.
- B. Upon review and authorization of the Contractor-prepared SWPPP, Metropolitan will file the SWPPP together with the Notice of Intent (NOI) and obtain a Waste Discharge Identification number (WDID) from the SWRCB. It typically takes up to 10 working days for the SWRCB to issue a WDID after filing by Metropolitan.
- C. Metropolitan will also file any revisions to the SWPPP that are submitted by the Contractor, and authorized by the Engineer during the course of the contract.

### 1.04 PERMIT REGISTRATION DOCUMENTS (PRDS)

A. The authorized SWPPP information will be posted electronically by Metropolitan on the State Water Board's Stormwater Multi-Application and Report Tracking System (SMARTS) website. Information submitted by Metropolitan may be viewed on SWRCB website.

### 1.05 STORM WATER POLLUTION PREVENTION PLAN PREPARATION AND IMPLEMENTATION

# NTS: Confirm the risk level classification of the site. If the site has a risk level classification greater than 1, then include Paragraph 1.05A. Modify as necessary if the project has multiple sites.

- A. ★Risk Level Classification
  - 1. The site shall be considered to have a Risk Level [2 or 3] classification.
  - 2. Contractor's QSD shall use this risk classification when developing the SWPPP.
- B. The Contractor shall not mobilize or perform any work on the project site until the Engineer has authorized the Contractor's SWPPP and obtained a WDID from the SWRCB.
- C. During the course of the contract, the Contractor shall revise and update the SWPPP as required by SWRCB and resubmit to the Engineer for authorization.
- D. The Contractor shall prepare and implement a site specific SWPPP in accordance with the requirements of the SWRCB (http://www.swrcb.ca.gov/water\_issues/programs/stormwater/constpermits.shtml), the CGP, and the Construction BMP Online Handbook developed by CASQA (<u>https://www.casqa.org/programs-initiatives/bmp-handbooks/construction</u>). The SWPPP and all Contractor activities shall be coordinated with other construction activities and SWPPPs at the site.
  - 1. The SWPPP for this project shall conform to the requirements which include:
    - a. Eliminate/reduce non-storm water discharges to storm systems and other U.S. waters.
    - b. Develop and implement a site specific SWPPP that specifies BMPs to prevent all construction pollutants from contacting storm water, limit erosion and sediment transport, and keep all products of erosion and pollutants from moving off site.
    - c. Perform inspections and maintenance of all BMPs (storm water control structures and pollution prevention measures) and comply with the risk level requirements set-forth by the CGP.

- d. Comply with post-construction BMPs for post-construction erosion and sediment control prepared by Metropolitan.
- 2. The SWPPP shall adequately address these requirements and shall contain as required:
  - a. Site and source descriptions (including the elements and characteristics specific to the site)
  - b. Descriptions of BMPs for erosion and sediment control
  - c. BMPs for construction waste handling and disposal
  - d. Implementation of authorized local plans
  - e. A sampling plan and/or sampling contingency plan, as required and based on project risk level
  - f. Non-storm water management
- 3. Erosion and sediment control shall include the following practices:
  - a. Prevent runoff from flowing over unprotected slopes.
  - b. Keep disturbed areas to the minimum necessary for construction.
  - c. Control sediment transport within the site and prevent sediment transport from the site, using appropriate BMPs, including but not limited to check dams, fiber rolls, sand bags, and siltation fences. Reduce sediment transport off site though construction of appropriately designed desilting and retention ponds.
  - d. Remove and dispose of all construction-generated siltation collected within or behind BMPs, including retention ponds.
  - e. Confine soil disturbance activities to the dry season, whenever possible. If construction needs to be scheduled for the wet season, ensure that erosion and sediment transport control measures are implemented prior to disturbance of soil and/or vegetation.
  - f. Stabilize disturbed areas as quickly as possible but in no case shall the time of stabilization exceed the time limits specified by the Regional Water Quality Control Board and the requirements of the CGP.
  - g. Maintain existing temporary controls until they are replaced with permanent controls.
  - h. Maintain and improve existing controls as necessary to comply with the CGP for construction activity.
- E. Storm water management and erosion/sediment controls shall be installed in accordance with the authorized SWPPP and the requirements of the CGP. Controls and procedures shall conform to the latest edition of CASQA's Construction BMP Online Handbook (Web-based portal).
- F. The Contractor shall amend the SWPPP prior to and during the course of the work as required by field conditions, construction procedures, or the Engineer. Changes shall be properly documented in the SWPPP. Copies of all amendments shall be submitted to the Engineer for authorization.
- G. Maintenance and Inspections
  - The Contractor shall make visual inspections of all erosion control and sediment transport devices as necessary to
    ensure proper operation not less than once per week, and promptly before and after every rainstorm and at least
    every 24 hours during an extended rainfall event. If such inspection reveals that additional measures are needed to
    prevent erosion and sediment transport, the Contractor shall promptly maintain, modify, or install additional
    devices as needed. The Contractor shall use the forms in the SWPPP for all inspections, and all completed forms
    shall be included in the SWPPP and submitted to the Engineer.
  - 2. The Contractor shall perform routine maintenance, which shall include maintenance and repair of BMPs, debris removal, silt/sediment removal, clearing of vegetation around flow control devices to prevent clogging, and maintenance of healthy vegetative cover.
- H. Removal and Formal Clean-up
  - 1. Once the site has been successfully stabilized against erosion and sediment transport, and post construction BMPs have been established, the Contractor shall remove temporary sediment control devices and all accumulated silt and debris. The Contractor shall dispose of silt and waste materials in a proper manner. The Contractor shall restore all areas disturbed during this process and stabilize against erosion with surfacing materials.
- I. Post-Construction BMPs Installation

- 1. Post-Construction BMPs, as described in the authorized SWPPP★[ and as specified in Section 02952, Erosion Control Post Construction BMPs], shall be installed before the end of the project.
- J. Failure to Adopt and/or Implement an Acceptable SWPPP
  - If the Contractor fails to adopt and implement an acceptable SWPPP, Metropolitan reserves the right to stop the Contractor's work without recompense, and withhold payments owed to the Contractor until such time as an acceptable SWPPP is adopted and implemented, and/or design and implement an acceptable SWPPP, using Metropolitan or other Contractor forces with costs for same deducted from monies owed the Contractor. In addition, Metropolitan reserves the right to suspend work for failure of the Contractor to adopt and implement an acceptable SWPPP in accordance with Article 13 of the General Conditions.
  - 2. Fines levied by authorities having jurisdiction for failure of the Contractor to adopt and implement an acceptable SWPPP shall be deducted from monies owed the Contractor.

### PART 2 PRODUCTS

- 2.01 EROSION CONTROL MATS AND FIBER ROLLS
  - A. Erosion control mats, fiber rolls and other BMP components containing plastic netting shall not be allowed. The Contractor shall use products containing biodegradable netting.

### PART 3 EXECUTION (NOT USED)

### END OF SECTION

### SECTION 01565 NOISE CONTROL

Note to Specifier (NTS): This Master Specification is not a "standard" specification but a baseline template to tailor for specific project needs. Ensure that editing is consistent with other contract documents.

- 1. Revise text or numbers in brackets [].
- 2. If there is text that does not apply to the project, including optional text identified with a ★, delete the text and type "(Not Used)" next to the article heading. Do not delete article section headings.
- 3. Verify cross-references when adding or deleting any text.

Consult the Metropolitan discipline technical lead with any questions.

NTS: When using this section, include the following sections in the project specifications as applicable:

01010, Summary of Work

### PART 1 GENERAL

1.01 GENERAL

- A. Metropolitan holds the Contractor and all subcontractors liable for meeting the conditions stated herein and in all permits referenced in the specifications and all applicable local, state, and federal regulations, acts, laws, and ordinances.
- B. The Contractor shall obtain noise variances from [name of city or county] for nighttime and/or weekend work as required.
- C. Implementation of noise control measures required in this section does not relieve the Contractor from complying with the local noise ordinances shown in the following table.

Table 1	. Noise	Limits
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Location / Jurisdiction	<u>Noise Limits</u>	Work Hour Restrictions

### 1.02 REFERENCES

NTS: Delete references from Part 1 if they are not cited in the spec section. If new references are cited in the text, add the new references in Part 1.

- A. General
  - 1. The publications listed below form a part of this specification to the extent referenced. In the event of a conflict between the text of this specification and the references cited herein, the text of this specification shall take precedence.
  - 2. Where a date is given for reference standards, the edition of that date shall be used. Where no date is given for reference standards, the latest edition available on the date of the Notice Inviting Bids shall be used.
- B. American National Standards Institute (ANSI)
  - 1. ANSI S1.1, Acoustical Terminology
  - 2. ANSI S1.4, Specifications for Sound Meters

- C. American Plywood Association (APA)
- D. California Building Standards Commission
  - 1. California Building Code (CBC)
- E. International Electrotechnical Commission (IEC)
  - 1. IEC 60942, Electroacoustics Sound Calibrators

### 1.03 DEFINITIONS

- A. Decibel (dB) A unit of level which denotes the ratio between 2 quantities which are proportional to power; the number of decibels corresponding to the ratio of 2 amounts of power is 10 times the logarithm to the base (10) of this ratio.
- B. Average Hourly Noise (dBA L<sub>EQ</sub>) The time period average equivalent A-weighted noise level during the stated measurement period.
- C. A-Weighted Sound Level (dBA) The sound level in decibels as measured on a sound level meter using the A-weighted network.
- D. Equivalent Noise Level, L<sub>EQ</sub> The average A-weighted noise level during the stated measurement period.
- E. NRC Noise Reduction Coefficient
- F. Property Line For the purposes of this section the property line is the point where a residential or business property begins and extends vertically to the height of the tallest structure on the property, and horizontally to the limits of the property.
- G. Sensitive Receptors Human or animal that can be negatively impacted by high levels and/or durations of noise.
- H. Sound Level Meter an instrument including a microphone, an amplifier, an output meter, and "A" frequency weighting network for the measurement of sound levels which satisfies the pertinent requirements for Type S2A meters in American Standard Specifications for sound level meters in the most recent version of ANSI S1.4.
- I. STC Sound Transmission Class
- J. Work Site An area designated by the Contractor that encompasses the limits of where workers and equipment will be operating.

### 1.04 SOUND LEVEL MEASUREMENTS

- A. Noise level measuring instruments shall comply with the latest version of ANSI S1.4 specifications for sound meters, and be capable of meeting accuracy standards as defined by ANSI Type 1 or Type 2 for sound metering instruments.
- B. Noise level measuring instruments shall be maintained per the manufacturer's calibration recommendations,
- C. Sound level measurement shall be measured with a sound level meter using A-weighting and a "slow" response time as defined in the latest version of the most recent version of ANSI S1.1.
- D. All noise measurement meters must be equipped with a manufacturer's recommended wind noise shield at all times during a measurement.
- E. All measurements unless stated otherwise shall be provided in the format of the time period average equivalent noise level ( $L_{EQ}$ ) noting the time period if less than 1-hour.
- F. A calibrator as defined by the latest version of IEC 60942 shall be used for checking the calibration of hand-held noise measuring instruments in the field.
- G. Noise measuring instruments shall not be exposed to extremes of humidity, and any condensation shall be carefully avoided.

### 1.05 SUBMITTALS

- A. Submittals shall be in accordance with Section 01300, Submittals, and this section.
- B. Action Submittals
  - 1. The Contractor shall submit a Noise Control Plan stamped as applicable by a Professional Engineer, including drawings and calculations for noise control structures, 30 working-days prior to mobilization at access sites and

ventilation locations. The Noise Control Plan shall be authorized by the Engineer prior to start of site construction work and shall be implemented prior to site construction work unless otherwise stated in the plan. The Noise Control Plan shall include but not necessarily be limited to the following, to the extent feasible to protect the interests of the public, and to allow for project completion in light of critical work schedules, necessary work methods, and the physical constraints of Metropolitan's right-of-way and available work areas:

- a. Identification of sensitive receptors, receptor locations and elevations, and the location and approximate elevation of noise-generating activities (i.e., excavating, staging, parking, meeting areas) and equipment.
  - (1) Noise levels shall be measured at the nearest property lines.
  - (2) The Engineer may relocate or add additional locations to monitor noise levels.
- b. Pre-construction noise measurements detailing location, time, frequency, results of measurements, and source of noise.
- c. Detailed noise attenuation measures, including description of proposed construction activities, description and location of noise control measures, description of how, when, frequency, and where noise measurements shall be taken, and a sample noise monitoring form.
- d. Drawings for the types of noise control barriers to be erected for all noise-generating and stationary construction equipment showing the methods of support and anchoring, along with calculations.
- e. Proposed noise barriers with required STC ratings and noise reduction methods, modeling results, monitoring strategy, and procedures for mitigation when the noise limits specified in this section are exceeded.
  - (1) Noise levels shall be calculated/modeled at a height of 5 feet above grade at the property boundary wall at single story residences or businesses.
    - (a) If the property has a wall which meets the requirement for consideration as a noise control element, the noise level should be calculated at least 10 feet inside the wall, as authorized by the Engineer.
  - (2) Noise levels shall be calculated/modeled at a height equivalent to 5 feet above each floor level located above the first floor at multi-storied residences or businesses.
- f. Qualifications of the person utilizing the instrument to measure the noise levels demonstrating prior experience or training by an experienced professional measuring noise levels with type of instrument being used.
- g. A Nighttime Construction Management Plan, if any work is conducted during nighttime hours.

### PART 2 PRODUCTS

### 2.01 GENERAL

- A. Noise control materials may be new or used.
  - 1. Used materials shall be sound and free of damage and defects and shall be of a quality and condition to perform their designed function while providing a suitable appearance.
  - 2. Used material must last for the duration of construction.
- B. Unless otherwise specified, noise control barrier or material shall have a minimum STC rating of 25.
  - 1. STC 25 requirement may be fulfilled with:
    - a. Flexible noise control curtains/blankets with a laboratory test specification of STC 25.
    - b. A double layer system consisting of two curtains/blankets with a minimum test specification of STC 18 with a 6-inch gap between them and <sup>3</sup>/<sub>4</sub> inch thick plywood backing each of the curtains/blankets.
    - c. An alternative material with proof of STC 25 or greater noise control value.
  - 2. STC 32 requirement may be fulfilled with:
    - a. Flexible noise control curtains/blankets with a laboratory test specification of STC 32
    - b. A double layer system consisting of two curtains/blankets with a minimum test specification of STC 25 with a 6-inch gap between them and <sup>3</sup>/<sub>4</sub> inch thick plywood backing each of the curtains/blankets.
    - c. Two layers of 3/4-inch thick plywood barrier material separated by stud wall constructed with 2 by 4 inch (nominal) studs, 16 inches on center with gaps between studs filled with insulation rated no less than R30.

- d. An alternative material with proof of STC 32 or greater noise control value.
- C. Noise control barriers may be constructed of plywood or alternate materials meeting STC ratings.
  - 1. All plywood used shall meet the minimum APA specification standard rating of C-D exterior grade.
- D. Noise control barriers shall be designed to withstand, and anchored properly to handle, the loading generated by high sustained winds and gusts to which the project area can be subjected. Wind speeds, both sustained and gusts, used to determine loading on noise control barriers shall be in accordance with the CBC and current local building codes and ordinances.
- E. Noise control barriers must be maintained in compliance with this specification for the duration of the Contract.
  - 1. Damage, gaps, holes, or weaknesses in the noise control barrier, or any openings between the barriers or barrier and the ground shall be promptly repaired by the Contractor.
- F. The Contractor is responsible for maintaining the safety and appearance of the noise control barrier.
- G. Noise control barriers must have flush mating surfaces of wall sides when walls are joined together or at corners.
  - 1. Gaps or cracks between wall sections and between the bottom edge of walls and grade shall be closed with material that shall completely close the gaps and be dense enough to attenuate noise.
- H. Gates and/or doors in the noise control barrier that are either hinged or rolling shall be constructed of the same or equally effective material as the noise control barrier.
  - 1. Gates and doors in the noise control barrier shall be constructed to ensure that the edges overlap the noise control barrier to eliminate gaps.
- I. Noise control barriers that do not provide an NRC rating of 0.85 for the barrier side facing the equipment shall have a construction liner provided on the equipment side of glass fiber or other appropriate type of noise-absorbing material at least two inches thick with a manufacturer's NRC rating of 0.85 or better. Construction liner coverage must be at least 85 percent of the total noise control barrier area.
- J. Noise control curtain/blanket shall be constructed of durable, flexible composite material featuring a noise barrier layer bonded to a sound-absorptive material on one side.
  - 1. Noise barrier layer shall be constructed with rugged, impervious material with a surface weight of at least one pound per square foot.
  - 2. Sound-absorptive material shall include a protective facing and securely attached to one side of the noise barrier layer over its entire surface.
  - 3. Materials shall be fire-retardant with a class A fire rating for the composite material system.
- K. Noise control curtain materials shall be corrosion-resistant to mild acids and alkalis, salts, oils, and grease. The materials shall also be abuse-resistant, exhibiting superior hanging and tear strength during construction.
  - 1. Curtain/blanket barrier material shall have a minimum breaking strength of 120 lb/in and minimum tear strength of 30 lb/in.
  - 2. Curtain/blanket absorptive material facing shall have a minimum breaking strength of 100 lb/in and minimum tear strength 7 lb/in.
  - 3. Sound-absorptive material shall be mildew-resistant, vermin proof, and non-hygroscopic.

### 2.02 NOISE CONTROL - VENTILATION EQUIPMENT

- A. Ventilation equipment shall be enclosed, or as directed by the Engineer.
- B. Contractor shall use electric equipment instead of diesel equipment when possible.
- C. Contractor shall implement intensive equipment maintenance program to reduce undue noise.

### PART 3 EXECUTION

### 3.01 GENERAL

A. The Contractor is responsible for obtaining noise variances from [name of city or county] for work outside of standard noise ordinances as detailed in Section 01010, Summary of Work.

- B. The Contractor is responsible for design, detailing, and adequacy of the footings, framework, supports, posts, attachment methods and other appurtenances required for the proper erection of noise barriers, with the applicable Professional Engineer stamp.
- C. The Contractor is responsible for the maintenance, safety, and appearance of the noise control barrier for the duration of the construction.
- D. The Contractor shall locate all noise-generating and stationary construction equipment as far as possible from near-site residential and sensitive receptors and situated so that emitted noise is directed away from the sensitive receptors.
- E. Noise-generating equipment shall be oriented such that the source of noise is facing away from the nearest sensitive receptors to the extent possible.
- F. The use of a work site noise control barrier, a barrier large enough to encompass the entire work site or a portion of the work site, shall not negate the use of noise control barriers for specific equipment, as noted herein.
- G. Reduce equipment idling time to 5 minutes on cranes and construction equipment.
- H. Areas where workers gather (break areas, shift-change areas, meeting areas, and sanitary stations) shall be located a minimum of 100 feet away from any residence, or to the greatest extent feasible.
- I. Parking areas shall be located a minimum of 150 feet from sensitive receptors. Parking areas within 500 feet of sensitive receptors shall be posted, to prohibit workers from gathering during nighttime hours, and prohibiting radios and music at any time.
- J. Fuel deliveries shall be a minimum of 500 feet from residences or to the greatest extent feasible.
- K. The Contractor shall perform all work without undue noise and shall make every effort to alleviate or prevent noise nuisances.
- L. Site preparation, excavation, site closure activities and delivery trucks shall be allowed during daytime hours only and in compliance with local noise and traffic ordinances.
- M. The Contractor's construction vehicles and equipment shall have mufflers. The Contractor shall equip all construction equipment, fixed and mobile, with properly operating and maintained noise mufflers and intake silencers, consistent with the manufacturer standards. Equipment shall be maintained to a minimum standard that includes engine noise baffles and mufflers that meet or exceed the original manufacturer requirements.
- N. The Contractor shall utilize the following types of equipment whenever possible: electrical instead of diesel powered equipment, hydraulic tools instead of pneumatic tools, and use of electric welders powered by remote generators.
- O. The Contractor shall install a noise control barrier surrounding stationary noise generating equipment in addition to any noise control barriers installed to encompass or shield a portion of the general work site that may be installed by the Contractor as required under these specifications. Noise control barrier and enclosure construction criteria shall follow general guidelines listed in the following section.
  - 1. Noise control barriers constructed by the Contractor shall be designed by a qualified professional with experience in designing noise control barriers.
  - 2. Noise control barriers for equipment shall conform to the requirements for bag filters and large compressors, air humidifiers, and generators, as specified herein.
  - 3. Noise control barriers and enclosures shall be implemented using the most appropriate material, configuration, and location, to achieve the maximum feasible noise reduction.
  - 4. All inner surfaces, including any removable roof sections of a noise control barrier must have a noise absorptive inner layer.
  - 5. Noise control barriers with gates or doors shall be kept closed, except for brief periods of time to allow access to the equipment or construction site.
  - 6. Equipment that has noise control doors shall be operated only with the doors fully closed.
- P. The Contractor shall handle, store, apply, and dispose of noise barriers consistent with all applicable federal, state, and local regulations.

#### 3.02 NOISE MONITORING

A. General

- 1. The Contractor shall measure the noise level for single story and multi-storied residences or businesses in accordance with this section's submittal requirements for the Noise Control Plan.
- B. Pre-Construction Noise Measurements
  - 1. Prior to the start of construction, the Contractor shall measure noise levels at the nearest sensitive receptors, as identified in the Noise Control Plan, during daytime and nighttime hours (if nighttime work is required) and shall submit the measurements in the Noise Control Plan.
    - a. If noise levels are in excess of the noise limits specified in this section, procedures identified in the Noise Control Plan must be implemented.
- C. Noise Monitoring Recordation
  - 1. All monitoring results shall be recorded on a form supplied by the Contractor and authorized by the Engineer.
    - a. The noise monitoring form shall note the date and the time of day of the noise monitoring, noise level, noise threshold, location of measurement taken, elevation of where measurement was taken, construction activity being performed, and the person(s) performing the monitoring.
  - 2. Monitoring results shall be submitted to the Engineer at the conclusion of the testing.
  - 3. Only monitoring equipment with current and valid calibration dates/sticker shall be used for monitoring.
  - 4. Monitors shall be experienced in operating the monitoring equipment.
- D. Construction Noise Monitoring
  - 1. The Contractor shall perform noise monitoring following initial setup of equipment and noise measurements to measure noise levels during work and to measure the effectiveness of noise control measures.
  - 2. The Contractor shall plan noise measurement times to coincide with scheduled operations of onsite equipment expected to create the loudest noise impacts during the normal measurement schedule and at the beginning of each new equipment activity. Noise levels shall be measured in 30-minute increments noting the lowest and highest noise level measured within 30-minute intervals at the start of construction and at the beginning of each new activity, or as new equipment is used as directed by the Engineer. Should any equipment be in use during nighttime hours, noise levels must be measured in accordance with the above parameters.
  - 3. If noise levels are in excess of the noise limits specified in this section, procedures identified in the Noise Control Plan must be implemented.
    - a. After initial installation of noise control barriers and operation of equipment the Contractor shall measure the noise levels at the nearest sensitive receptors.
  - 4. The Contractor may be required to conduct additional noise monitoring following the initial measurements taken, if there are any changes made to the noise control measures, noise generating equipment is relocated, noise control barriers are not properly maintained, or nearby sensitive receptors are impacted.
  - 5. Where measured noise levels at the property line of residences are shown to exceed the noise limits specified in this section, additional feasible noise control measures shall be implemented in an effort to achieve the specified daytime and nighttime thresholds.
    - a. Noise monitoring shall be performed to record the achieved level of noise reduction.
  - 6. Metropolitan will have a monitor present during construction activities to ensure that all conditions are implemented and will be allowed to observe all construction activities; however, the Contractor is responsible for implementation.

END OF SECTION

## **\*\*\*THIS SECTION IS BEING UPDATED\*\*\***

A new version is being developed in the <u>Master Spec Preparation for CCB</u> folder in ProjectWise (Ctrl + Click to follow the link). Consult with the Discipline Tech Lead to determine which version to use for the project.

### SECTION 02110 CLEARING, GRUBBING, AND STRIPPING

Note to Specifier (NTS): This Master Specification is not a "standard" specification but a baseline template to tailor for specific project needs. Ensure that editing is consistent with other contract documents.

- 1. Revise text or numbers in brackets [].
- 2. If there is text that does not apply to the project, including optional text identified with a ★, delete the text and type "(Not Used)" next to the article heading. Do not delete article section headings.
- 3. Verify cross-references when adding or deleting any text.

Consult the Metropolitan discipline technical lead with any questions.

NTS: When using this section, include the following sections in the project specifications as applicable:

01070, Storm Water Pollution Control Plan (SWPPP) or 01072, Water Pollution Control Plan (WPCP) \*02010, Demolition

02200, Earthwork

NTS: Omit Submittals if the requirements in Part 3 of this section do not call for removing trees or shrubs, or the branches from existing trees.

### PART 1 GENERAL

### 1.01 **★**SUBMITTALS

- A. Tree sealant: The proposed tree sealant shall be submitted for approval [30 days] prior to the removal of branches from trees that are designated to remain in place.
- B. ★Contractor shall provide submittals for removal of trees and shrubs within the limits of the trimming requirements. Submittals shall document the tree and shrub types, and the number and size of trees and shrubs.

### PART 2 PRODUCTS (NOT USED)

### PART 3 EXECUTION

### 3.01 SCHEDULING

- A. Clearing, grubbing, and stripping shall be completed as a separate item of work before the beginning of excavation, stockpiling, trenching, or fill operations. The completed cleared areas must be approved by the Engineer before the Contractor begins subsequent earthwork items.
- B. Areas within the limits of excavation, embankment, building areas, roadways, sidewalks, and other facilities shall be cleared, grubbed, and stripped before earthwork begins.
- C. Borrow areas shall be cleared, grubbed, and stripped prior to use. These areas shall be cleared, grubbed, and stripped in stages, as necessary, to ensure that the areas are not contaminated.
- D. Areas to be used for stockpiling of material shall be cleared, grubbed, and stripped prior to stockpiling.
- E. Clearing, grubbing, and stripping of the length of trench to be excavated each day shall be completed, and material from these operations shall be stockpiled away from the trench area, before the start of trenching.

### 3.02 PRESERVATION OF EXISTING CONDITIONS

A. ★Existing trees, shrubbery, other vegetation, structures, pavements, or utilities designated to remain in place shall be protected from damage resulting from the work.

## NTS: Edit the following paragraphs as necessary to ensure that environmental and permit requirements are included.

- B. ★Special protection shall be provided at [oak trees] [plant material requiring special protection].
- C. ★Tree branches shall be cut and removed only where, in the opinion of the Engineer, such cutting is necessary to effect construction operations. Tree branches other than those that must be removed to perform the work shall be trimmed to provide a balanced appearance. Scars resulting from the removal of branches shall be treated with an approved tree sealant.

### NTS: Ensure that no agreement exists contrary to the following requirements.

- D. ★Trees, shrubs, or plants within the limits of [work] [the easement on private property] that interfere with excavation or trenching may be removed as long as they are kept intact with their root system and protected as described in this section.
  - 1. Plant locations shall be documented and submitted to the Engineer before the plants are removed.

## NTS: Confirm that topsoil exists on the project. If present, edit the following paragraph to ensure compatibility with its use as indicated.

- 2. The root system of the trees, shrubs, or plants shall be balled, bound in burlap, heeled into [suitable stripped materials or soils] [the stockpiled topsoil] from the excavation, and kept watered as required.
- 3. Upon completion of work in the affected areas, the trees, shrubs, or plants shall be replanted in their original positions.
- 4. When a tree, shrub, or plant that has been disturbed or otherwise damaged by the Contractor dies within 6 months from the time that it was disturbed, damaged, or replanted; the tree, shrub, or plant shall be replaced in kind and size.

### 3.03 CLEARING, GRUBBING, AND STRIPPING

- A. General
  - 1. Clearing, grubbing, and stripping shall extend to five feet beyond the limits of excavations and fill slopes, but not beyond the limits of work.

# NTS: The project will have either a Storm Water Pollution Control Plan (SWPPP) per Section 01070 or a Water Pollution Control Plan (WPCP) per Section 01072 depending upon the amount of land disturbance. Select the appropriate reference in the following paragraph.

- 2. Temporary surface, storm water, and erosion control in conformance with the approved [Storm Water Pollution Prevention Plan (SWPPP) in accordance with Section 01070 / Water Pollution Control Plan (WPCP) in accordance with Section 01072] shall be implemented concurrent with the clearing, stripping, and grubbing operations.
- 3. Waste-disposal areas shall be cleared, grubbed, and stripped only as necessary for the disposal of waste material.
- 4. Areas that have been cleared, grubbed, and stripped shall be maintained free of objectionable growth until the work has been completed.
- B. Clearing
  - 1. Clearing shall consist of cutting, removing, and disposing of objectionable material from the ground surface, such as trash, trees, brush, logs, stumps, weeds, grasses, fences, structures, and natural or artificial obstructions of any kind.
  - 2. During the clearing process, trees shall be cut so that they fall into the area to be cleared. Trees and stumps requiring removal shall not be cut to ground level but shall be pulled completely from the ground.

3. Clearing shall also include the removal and disposal from the jobsite of trash piles and rubbish created prior to and during the construction work.

NTS: If the removal of pavements and structures is required during clearing activities for the project, then include Section 02010, Demolition, in the project specifications and include the following article.

- 4. ★Prior to removal of pavement or structures, scoring or sawcutting is required as specified in Section 02010, Demolition.
- C. Grubbing
  - 1. Grubbing shall consist of digging up, removing, and disposing of objectionable material found at or below the ground surface such as trash, trees, brush, logs, stumps, roots, and natural or artificial obstructions of any kind that will interfere with the required excavations and construction.
  - 2. Unless otherwise shown or specified, stumps, roots over one inch in diameter, buried logs, and all other objectionable materials shall be removed to a depth of 3 feet below the existing ground surface, or the structure or pipeline subgrade, whichever is deeper.

# NTS: Confirm that topsoil exists on the project. If present, edit the following section to ensure that special provisions for its use are included. Section 02200, Earthwork, should also be edited to ensure compatibility with the reference indicated herein.

D. Stripping

- 1. Stripping shall consist of the removal of organic materials, sod, **★**[topsoil,] grass, and grass roots from the areas designated to be stripped.
- 2. Except under previously existing paving or structures, or when otherwise shown on the drawings, existing soil materials shall be stripped to a depth of 8 inches below the original ground surface.
- 3. Stripped materials ★[and topsoil] shall be stored in accordance with Section 02200, Earthwork, and shall not be mixed with borrow materials, but shall be retained for placement in the top 12 inches of fill in the areas to be landscaped.
- 4. The Contractor shall ensure that stripped materials **★**[and stockpiled topsoil] are identified and marked so that they are not incorporated into fill or embankment.

### 3.04 DISPOSAL OF CLEARING, GRUBBING, AND STRIPPING DEBRIS

- A. Burning of combustible materials will not be permitted.
- B. Material removed from the jobsite shall be disposed of legally.

END OF SECTION

# **Appendix B**

# Jurisdictional Delineation Report



### Rincon Consultants, Inc.

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January 12, 2022 Project No: 20-09668

Michelle Morrison, Environmental Specialist The Metropolitan Water District of Southern California P.O. Box 54153 Los Angeles, California 90054-0153 Via email: mmorrison@mwdh2o.com

### Subject: Jurisdictional Delineation for the Garvey Reservoir Rehabilitation Project, Monterey Park, California

Dear Ms. Morrison:

This Jurisdictional Delineation (JD) letter report has been prepared by Rincon Consultants, Inc. (Rincon) to assist The Metropolitan Water District of Southern California (Metropolitan) with project planning for the Garvey Reservoir Rehabilitation Project (project). Specifically, this JD provides an assessment of two detention basins in the southwest portion of the project site, which are hereafter referred to as "Basin 1" and "Basin 2." If determined to be necessary by Metropolitan, this report can also be used by the United States Army Corps of Engineers (USACE) to confirm the extent of potential jurisdiction under Section 404 of the Clean Water Act (CWA), the Regional Water Quality Control Board (RWQCB) to confirm the extent of potential jurisdiction pursuant to Section 401 of the CWA and the Porter-Cologne Water Quality Control Act, and the California Department of Fish and Wildlife (CDFW) to confirm the extent of potential jurisdiction pursuant to California Fish and Game Code (CFGC) Section 1600 et seq.

### **Project Location**

The project site is an approximately 130-acre portion of a 142-acre property located at 1061 South Orange Avenue in Monterey Park, California (Los Angeles County Assessor's Parcel Numbers 5260-013-910 and 5260-013-905). See Figure 1 in Attachment A for a project location map. The project site is developed with the Garvey Reservoir in the central portion of the site along with various appurtenant structures and features throughout the site. The site is accessible from State Route 60, located approximately 0.9 mile south of the project site, and Interstate 10, located approximately 1.4 miles north of the project site. Surrounding land uses include residential neighborhoods to the west, north, south, and east; Hillcrest Elementary School to the east; the Monterey Park City Yard to the north; and Garvey Ranch Park to the north. The approximate center of the project site occurs at latitude 34.049522°N and longitude -118.116403°W. The project site is within the *El Monte, California* United States Geological Survey (USGS) 7.5-minute topographic quadrangle. The Public Land Survey System depicts the project site as within Township 01S, Range 12W, Sections 26, 27, 34, and 35, San Bernardino Meridian.



### Methods

A literature review and desktop evaluation of existing aerial imagery and published datasets were conducted for the JD, followed by a field survey and delineation of potential jurisdictional waters. The study area defined for the JD, hereinafter referred to as the "Study Area," includes the area occupied by the two detention basins in the southwest portion of the project site. The Study Area analyzed in this report encompasses roughly 0.52 acre (Attachment A, Figure 2).

### Literature Review

Prior to surveying the Study Area, Rincon's Wetland Scientist Malek Al-Marayati reviewed recent aerial photography of the site (Google Earth Pro 2021). To aid in characterizing the nature and extent of jurisdictional waters potentially occurring in the Study Area, resources reviewed included the most recent *El Monte, California* USGS 7.5-minute topographic quadrangle map (USGS 2021a) and the United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) Web Soil Survey (USDA NRCS 2021a). Additionally, the *National Hydrography Dataset* (USGS 2021b) and the United States Fish and Wildlife Service (USFWS) *National Wetlands Inventory* (USFWS 2021) were reviewed to determine if potential wetlands and/or other waters had been previously mapped in or near the Study Area. The *State Soils Data Access (SDA) Hydric Soils List* (USDA NRCS 2021b) was also reviewed to determine if any soil map unit types mapped in or near the Study Area were classified as hydric.

### Field Delineation

On November 23, 2021, Malek Al-Marayati surveyed the Study Area on foot for potential wetlands and non-wetland aquatic resources. Current USACE and State Water Resources Control Board (SWRCB) delineation procedures and guidance were used to identify and delineate any wetlands and/or waters of the United States/State potentially subject to USACE and RWQCB jurisdiction (USACE 1987, 2008a, 2008b, and 2021; Lichvar et al. 2016; SWRCB 2019). Likewise, current CDFW procedures and guidance were used to identify and delineate any streambeds, rivers, or associated riparian habitat potentially subject to CDFW jurisdiction. Spatial data representing wetland sampling points, the limits of wetland waters, and other observation points were mapped using a Juniper Systems Geode Global Positioning System (GPS) with sub-meter accuracy and were also plotted on aerial photographs. The data was subsequently transferred to Rincon's geographic information system (GIS) and used in combination with recent, high-resolution aerial photographs and topographic datasets to map the extent of jurisdictional features in the Study Area. Representative site photographs are presented in Attachment B. Wetland Determination Data Forms for the presence/absence of wetlands and potential jurisdiction are presented in Attachment C.

### Existing Setting

The Study Area is located in the San Gabriel Valley within the suburban area of the city of Monterey Park and is characterized by hot summers and mild winters. The basins are situated at the base of a southfacing hillslope below the Garvey Reservoir, which is an enclosed water storage facility operated by Metropolitan. The detention basins consist of earthen material and are approximately 600 feet southwest of the reservoir. The Study Area is abutted to the west and south by a residential



neighborhood. The topography of the Study Area consists of steep slopes and flat beds associated with the detention basins. Elevation ranges between 420 and 450 feet above mean sea level.

### Hydrology

The Study Area is located in the Los Angeles River Watershed (Hydrologic Unit Code [HUC12] 180701050401). The USGS *National Hydrography Dataset* identifies the detention basins as "lakes/ponds" and the Garvey Reservoir as a "reservoir." The USFWS *National Wetlands Inventory* does not recognize any wetlands or riverine features in the Study Area. The Garvey Reservoir is an enclosed water storage facility that does not contain surface water. The two detention basins in the Study Area were constructed in an upland area at the base of a slope south of the Garvey Reservoir for the purpose of flood control. Specifically, rainwater and water used for cleaning the reservoir cover is pumped from the cover into a series of pipes that drain into the basins via a rainwater collection system.

Basin 1 receives stormwater runoff from adjacent uplands via two v-ditches to the northwest and northeast of the basin. Additionally, flow from the rainwater collection system seeps into the basin from underneath the v-ditch to the northwest (Attachment A, Figure 3). Flow from Basin 1 is conveyed to an inlet drain in the bed of the basin that leads to a culvert. The culvert conveys flow southward for approximately 50 feet before spilling into Basin 2 via an outfall structure. Flow from Basin 2 is conveyed to another inlet drain and ultimately into the Los Angeles County underground stormwater system, which eventually drains into the Pacific Ocean. Flowing surface water, which was draining into Basin 1 from the rainwater collection system and ultimately exiting into the inlet drain of Basin 2, was observed at the time of the survey.

### Soils

The USDA NRCS Web Soil Survey depicts one soil map unit within the Study Area: Counterfeit-Urban land complex, 10 to 35 percent slopes, terraced (USDA NRCS 2021a). Site-specific soil observations were generally consistent with those mapped by the USDA NRCS Web Soil Survey. Counterfeit and Urban Land series soils are poorly drained soils that occur on hillslopes. These soils are typically human-transported material consisting mostly of colluvium and/or residuum weathered from sedimentary rock. This soil map unit is not included on the *National Hydric Soils List* (USDA NRCS 2021b).

### Vegetation

Vegetation in the Study Area consists of California buckwheat scrub (*Eriogonum fasciculatum* Shrubland Alliance) on the steep slopes in upland areas adjacent to the detention basins (Sawyer et al. 2009). Vegetation in the basins consists predominantly of non-native herbaceous species dominated by variable flatsedge (*Cyperus difformis*) and hyssop loosestrife (*Lythrum hyssopifolia*), which are both classified as obligate wetland plant species (OBL) in the National Wetland Plant List (Lichvar et al. 2016; USACE 2021). Vegetation is mowed regularly in the basins for flood control maintenance.

### Field Results and Discussion

Both detention basins in the Study Area are described below and depicted in Figure 3 in Attachment A. Representative photographs of each feature are presented in Attachment B.



### Basin 1 and Basin 2

The detention basins in the Study Area receive flow from a rainwater collection system as well as surface runoff from adjacent uplands. Flow from the basins is ultimately conveyed into the Los Angeles County underground stormwater system.

A total of three soil test pits (Sampling Points) were excavated within the detention basins (Attachment A, Figure 3). Sampling Point 01 (SP01) was located in the bed of Basin 2 near the basin's edge, and the Rincon Wetland Scientist determined SP01 is within a wetland due to the presence of all three USACE defined wetland parameters: hydrophytic vegetation, hydric soils, and wetland hydrology. The soil profile at SP01 consisted of a Depleted Matrix and a Loamy Gleyed Matrix with saturation present starting at a depth of 5 inches from the soil surface. The following obligate wetland species (OBL) were observed at this location: variable flatsedge and loosestrife.

Sampling Point 02 (SP02) was located approximately 20 feet east of SP01 outside of the visible boundaries of the Basin 2 wetland feature on a west-facing hillslope. SP02 is not within a wetland due to the absence of all three USACE defined wetland parameters (i.e., hydrophytic vegetation, hydric soils, and wetland hydrology). Vegetation at this location consisted solely of upland species such as olive tree (*Olea europaea*), California buckwheat (*Eriogonum fasciculatum*), and slender oat (*Avena barbata*).

Sampling Point 03 (SP03) was located in the bed of Basin 1, and the Rincon Wetland Scientist determined SP03 is a wetland due to the presence of all three USACE defined wetland parameters. The soil profile at SP03 consisted of a high percentage of redox concentrations starting at a depth of 9 inches from the surface and saturation starting at the surface. The presence of redox concentrations starting in the upper layer of the soil profile of a depressional landform at SP03 met the requirements for the Redox Depressions hydric soil indicator. A water table was present starting at a depth of 18 inches. Due to the consistency of topography and upland vegetation species composition on the slopes surrounding both Basin 1 and Basin 2, an upland sampling point was not examined for Basin 1. The limits of wetland waters were determined by the consistency of hydrophytic vegetation and topography for both basins.

### USACE Waters of the United States

In accordance with guidance from the United States Environmental Protection Agency (USEPA) and USACE on CWA Jurisdiction following the United States Supreme Court's decision in *Rapanos v. U.S.* (June 19, 2006), the USACE will assert jurisdiction over traditional navigable waters (TNWs), non-navigable tributaries of TNWs that are Relatively Permanent Waters (RPWs), and wetlands that are adjacent to TNWs and directly abut RPWs (USEPA and USACE 2008). TNWs include all of the "navigable waters of the U.S." defined in 33 Code of Federal Regulations Part 329 and by pertinent federal court decisions. RPWs convey water flow seasonally, typically for at least three months. In addition, non-navigable tributaries that are not relatively permanent (non-RPWs), wetlands adjacent to non-RPWs, and wetlands adjacent to but that do not directly abut a RPW will be found jurisdictional based on a fact-specific analysis that they have a significant nexus with a TNW.

The significant nexus evaluation considers the volume, duration, and frequency of water flow in the tributary and the proximity of the tributary to a TNW, as well as the hydrologic, ecologic, and other functions performed by the tributary and all of its adjacent wetlands. The CWA also defines non-jurisdictional waters in 33 Code of Federal Regulations Part 328, which include "[s]tormwater control features constructed or excavated in upland or in non-jurisdictional waters to convey, treat, infiltrate, or



store stormwater run-off." Therefore, Basin 1 and Basin 2 would require a significant nexus determination to be considered under the jurisdiction of the USACE.

### **Hydrology Factors**

The detention basins receive flow from a rainwater collection system as well as surface runoff from adjacent uplands. Flow from the basins is conveyed via an underground stormwater system until ultimately draining into the Rio Hondo, an RPW, approximately 4 miles south of the basins. The Rio Hondo merges with the Los Angeles River, another RPW, which eventually conveys flow to the Pacific Ocean. However, the detention basins are not adjacent to and do not abut any RPWs, TNWs, or non-RPW tributaries.

### **Ecological Factors**

The detention basins are situated in a highly disturbed area surrounded by residential development and industrial land uses associated with the existing Garvey Reservoir. Vegetation within the basins is dominated solely by invasive herbaceous plant species and is regularly mowed for flood control maintenance. The basins receive flow from a collection system that conveys flows from reservoir cover cleaning and precipitation events directly into an underground stormwater system. It is therefore unlikely that the basins contribute significantly to the transport of nutrients or sediment to downstream navigable waters.

### **Significant Nexus Evaluation**

The detention basins, which convey flow directly into an underground stormwater system, are physically separated from any RPW, TNW, or non-RPW tributary and are hydrologically connected to receiving waters only though an underground storm drain system that comingles flows from the basins with runoff from the surrounding suburban areas. The basins are unlikely to significantly affect the chemical, physical, or biological integrity of any downstream navigable waters. Given these factors, it is reasonable to conclude that the detention basins in the Study Area do not have a significant nexus with a TNW, and therefore are not within the jurisdiction of USACE pursuant to Section 404 of the CWA.

### RWQCB Waters of the State

Pursuant to Section II of the *Statewide Wetland Definition and Procedures for Discharges of Dredged or Fill Material* (SWRCB 2019), artificial wetlands<sup>1</sup> are only considered Waters of the State when they are not subject to ongoing operations and maintenance. Both detention basins were excavated in an upland area during the construction of Garvey Reservoir in 1954. The basins continue to be used as part of a rainwater collection system for flood control purposes and are regularly maintained by Metropolitan; therefore, the detention basins are not Waters of the State and are not within the jurisdiction of RWQCB pursuant to Section 401 of the CWA and the Porter-Cologne Water Quality Control Act.

### **CDFW** Jurisdiction

Pursuant to Division 2, Chapter 6, Section 1602 of the CFGC, CDFW regulates all diversions, obstructions, or changes to the natural flow or bed, channel or bank of any river, stream, or lake that supports fish or

<sup>&</sup>lt;sup>1</sup> Artificial wetlands are wetlands that result from human activity.



wildlife. The detention basins in the Study Area are not wholly or part of any river, stream, or lake and therefore are not within the jurisdiction of CDFW pursuant to CFGC Section 1600 et seq.

### V-Ditches (Non-jurisdictional)

Several concrete-lined v-ditches that convey runoff from adjacent uplands into the detention basins are present in the Study Area. These features do not exhibit bed and bank, ordinary high water mark, or any riverine or wetland hydrology indicators. Flows in these features receive minimal runoff from adjacent uplands during storm events and contribute flow to Basin 1 and Basin 2. Vegetation is absent throughout the non-jurisdictional v-ditches. Therefore, these concrete-lined v-ditches are not wetland features and are not under USACE, RWQCB, or CDFW jurisdiction.

### Conclusions and Recommendations

The detention basins examined in this report are not subject to USACE jurisdiction pursuant to Section 404 of the CWA, RWQCB jurisdiction pursuant to Section 401 of the CWA or the Porter-Cologne Water Quality Control Act, or CDFW jurisdiction pursuant to CFGC Section 1600 et seq.

The findings and conclusions presented in this report, including the location and extent of areas subject to regulatory jurisdiction, represent the professional opinion of the consultant biologists. These findings and conclusions should be considered preliminary and at final discretion of the applicable resource agency.

Sincerely, Rincon Consultants, Inc.

Mullall

Malek Al-Marayati, MS Wetland Scientist

Christiphen Juli

Christopher Julian Principal/Regulatory Specialist

### Attachments

Attachment A	Figures
Attachment B	Representative Site Photographs
Attachment C	Wetland Determination Data Forms



### References

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# Attachment A

Figures







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# Attachment B

Representative Site Photographs





Photograph 1. Overview of mowed vegetation in Basin 1, facing east.



Photograph 2. Surface water seeping from beneath v-ditch into Basin 1, facing northeast.





Photograph 3. Corrugated pipe conveying runoff into Basin 1, facing west.



Photograph 4. Inlet drain receiving flow from Basin 1, facing east.





Photograph 5. Berm above culvert separating Basin 1 from Basin 2, facing southeast.



Photograph 6. Overview of mowed vegetation in Basin 2, facing north-northeast.





Photograph 7. Culvert outlet conveying flow from Basin 1 to Basin 2, facing southeast.



Photograph 8. Inlet drain receiving flow from Basin 2, facing east-southeast.





**Photograph 9.** Upland vegetation dominated by California buckwheat (*Eriogonum fasciculatum*) on steep hillslopes surrounding Basin 1 and Basin 2, facing northeast.



Photograph 10. Sampling Point 1 (SP01) in area adjacent to surface water in Basin 2, facing west.





Photograph 11. Gleyed soil matrix and redox concentrations in SP01.





Photograph 12. Sampling Point 2 (SP02) on hillslope abutting Basin 2, facing east.



Photograph 13. Sampling Point 3 (SP03) in bed of Basin 1, facing northeast.

## Attachment C

Wetland Determination Data Forms

### WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Garvey Reservoir Rehabilitation Project	City/County: Mor	terey Park/Los Ai	ngeles	Sampling Date:	11/23/2	2021	
Applicant/Owner: Metropolitan Water District of Southern Calif	ornia	State:	CA	Sampling Point:	SP0	1	
Investigator(s): Malek Al-Marayati	Section, Township	o, Range: <u>34, 015,</u>	12W				
Landform (hillslope, terrace, etc.): basin	Local relief (conc	ave, convex, none):	none	Slo	pe (%):	0	
Subregion (LRR): C Lat: 34	.047597	Long: -118.1	L20784	Datu	m: WGS8	34	
Soil Map Unit Name: Counterfeit-Urban land complex, 10 to 35	percent slopes,	terraced NV	VI classifica	ation: none			
Are climatic / hydrologic conditions on the site typical for this time of ye	ear?Yes 🖌	No (If no, e	xplain in Re	emarks.)			
Are Vegetation <u>/</u> , Soil, or Hydrology significantly	/ disturbed?	Are "Normal Circum	istances" pr	resent? Yes	No	~	
Are Vegetation, Soil, or Hydrology naturally pr	oblematic?	(If needed, explain a	any answer	s in Remarks.)			
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.							
Hydrophytic Vegetation Present? Yes No	Is the Sam	pled Area					

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes V Yes V	No No No	Is the Sampled Area within a Wetland?	Yes 🖌	No
Remarks:					
Vegetation in detention basin	regularly	mowed for floc	d control maintenance		

### **VEGETATION – Use scientific names of plants.**

20 #	Absolute	Dominant	Indicator	Dominance Test worksheet:	
<u>Tree Stratum</u> (Plot size: <u>30 ft.</u> ) 1. <u>NA</u>	<u>% Cover</u>	Species?	Status	Number of Dominant Species           That Are OBL, FACW, or FAC:         2         (A)	
2 3		·		Total Number of Dominant         Species Across All Strata:         2         (B)	
4	0	_= Total Co	ver	Percent of Dominant Species That Are OBL, FACW, or FAC:100% (A/B	)
1 NA				Prevalence Index worksheet:	
2			·	Total % Cover of: Multiply by:	
2			·	$OBI \text{ species} \qquad x 1 =$	
3		·		EACW species x 2 =	
			·	FAC species x 3 =	
- 5	0	= Total Co		FACU species x 4 =	
Herb Stratum (Plot size: 5 ft. )		10(a) 00	vei	UPL species         x 5 =	
1. Cyperus difformis	40	Y	OBL	Column Totals: (A) (B)	
2. Lythrum hyssopifolia	15	Y	OBL		
3. Stenotaphrum secundatum	6	Ν	FAC	Prevalence Index = B/A =	
4. Helminthotheca echioides	5	Ν	FAC	Hydrophytic Vegetation Indicators:	
5. Poa pratensis	4	Ν	FAC	✓ Dominance Test is >50%	
6. Gazania linearis	2	Ν	UPL	Prevalence Index is ≤3.0 <sup>1</sup>	
7				Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)	
0	72	= Total Co	ver	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	
1. NA				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
2	0	= Total Co		Hydrophytic	
		1010100		Venetation	
% Bare Ground in Herb Stratum 28 % Cover	r of Biotic C	rust 0		Present? Yes <u>V</u> No	
% Bare Ground in Herb Stratum 28 % Cover Remarks:	r of Biotic C	rust <u> </u>		Present? Yes <u>V</u> No	

### SOIL

(inches)	Color (moist)	%	Color (moist)	<u>0x reature</u> %	Type <sup>1</sup>	L oc <sup>2</sup>	Texture	Remarks
<u>(incines)</u> )-5	2 5Y 3/2	100		/0				
<u>5-</u> 12	10VR 4/2	85 7	5 VR 5/6	15	<u> </u>	DI		
12 20		<u>, 55 7</u>			<u> </u>	<u> </u>		
12-20		<u>88 /</u>	.5 1K 5/8		<u> </u>		<u> </u>	
Type C=C	Concentration D=Deplet	ion RM=R	educed Matrix C	S=Covere	d or Coate	d Sand G	rains <sup>2</sup> l	ocation: PI =Pore Lining M=Matrix
lydric Soil	Indicators: (Applicab	le to all Li	RRs, unless othe	erwise not	ed.)		Indicato	rs for Problematic Hydric Soils <sup>3</sup> :
Histoso	I (A1)		Sandy Rec	dox (S5)			1 cm	n Muck (A9) ( <b>LRR C</b> )
Histic E	pipedon (A2)		Stripped M	latrix (S6)			2 cm	n Muck (A10) ( <b>LRR B</b> )
Black H	listic (A3)		Loamy Mu	cky Minera	al (F1)		Red	uced Vertic (F18)
Hydrog	en Sulfide (A4)		✓ Loamy Gle	eyed Matrix	(F2)		Red	Parent Material (TF2)
Stratifie	d Layers (A5) (LRR C)		Depleted N	Aatrix (F3)			Othe	er (Explain in Remarks)
1 Cm IVI	UCK (A9) ( <b>LRR D</b> ) od Below Dark Surface (	A11)	Redox Dar	K Surface	(F0) 20 (E7)			
Deplete Thick D	ark Surface (A12)	ATT)	Depleted L Redox Der	pressions (	(F8)		<sup>3</sup> Indicato	rs of hydrophytic vegetation and
Sandy I	Mucky Mineral (S1)		Vernal Poo	ols (F9)	,		wetlan	d hydrology must be present,
Sandy (	Gleyed Matrix (S4)			( )			unless	disturbed or problematic.
Restrictive	Layer (if present):							
Туре:								
Type: Depth (ir	nches):						Hydric So	oil Present? Yes 🖌 No 🔜
Type: Depth (ir temarks:	nches):						Hydric So	oil Present? Yes <u>✓</u> No
Type: Depth (ir Remarks:	nches):						Hydric So	oil Present? Yes <u> </u>
Type: Depth (ir Remarks: YDROLC	nches): DGY /drology Indicators:						Hydric So	oil Present? Yes <u>✓</u> No <u> </u>
Type: Depth (ir Remarks: YDROLC Vetland Hy Primary Indi	DGY /drology Indicators:	e required;	check all that app				Hydric So	oil Present? Yes <u>v</u> No <u>source</u>
Type: Depth (ir Remarks: YDROLC Vetland Hy Primary Indi Surface	DGY /drology Indicators: icators (minimum of one	e required;	check all that app Salt Crus	bly) t (B11)			Hydric So	condary Indicators (2 or more required)
Type: Depth (ir Remarks: YDROLC Yetland Hy Primary Indi Surface High W:	DGY /drology Indicators: icators (minimum of one water (A1) ater Table (A2)	e required;	<u></u> <u>check all that app</u> Salt Crus Biotic Cru	oly) t (B11) ust (B12)			Hydric So	bil Present? Yes <u>✓</u> No <u></u> condary Indicators (2 or more required) Water Marks (B1) ( <b>Riverine</b> ) Sediment Deposits (B2) ( <b>Riverine</b> )
Type: Depth (ir Remarks: YDROLC Vetland Hy Yrimary Indi Surface High Wi Y Saturati	DGY /drology Indicators: icators (minimum of one water (A1) ater Table (A2) ion (A3)	e required;	<u>check all that app</u> Salt Crus Biotic Cru Aquatic Ir	oly) t (B11) ust (B12) nvertebrate			Hydric So	bil Present? Yes <u>✓</u> No <u>vectors</u> No <u>vectors No <u>vectors</u> No <u>vectors No <u>vectors</u> No <u>vectors No <u>vectors </u></u></u></u>
Type: Depth (ir Remarks: YDROLC Vetland Hy Primary Indi Surface High W: Yater M Water M	DGY vdrology Indicators: iccators (minimum of one water (A1) ater Table (A2) ion (A3) vlarks (B1) (Nonriverine	erequired; ∋	<u>check all that app</u> Salt Crus Biotic Cru Aquatic Ir Hydroger	bly) t (B11) ust (B12) nvertebrate n Sulfide C	es (B13) dor (C1)		Hydric So	bil Present? Yes <u>✓</u> No condary Indicators (2 or more required) Water Marks (B1) ( <b>Riverine</b> ) Sediment Deposits (B2) ( <b>Riverine</b> ) Drift Deposits (B3) ( <b>Riverine</b> ) Drainage Patterns (B10)
Type: Depth (ir Remarks: YDROLC Vetland Hy Primary Indi Surface High Wi Yater N Saturati Sedime	DGY drology Indicators: icators (minimum of one water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonriverine ent Deposits (B2) (Nonri	e required;	<u>check all that app</u> Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized	bly) t (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe	es (B13) dor (C1) eres along	Living Ro	Hydric So	bil Present? Yes <u>✓</u> No <u> </u>
Type: Depth (ir Remarks: YDROLC Yetland Hy Primary Indi Surface High Wi Saturati Vater N Sedime Drift De	DGY vdrology Indicators: icators (minimum of one water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonriverine ent Deposits (B2) (Nonri posits (B3) (Nonriverine	e required; e) e) iverine) e)	Check all that app Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence	bly) t (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reducc	es (B13) dor (C1) eres along ed Iron (C4	Living Ro	Hydric So	oil Present? Yes No condary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8)
Type: Depth (ir Remarks: YDROLC Vetland Hy Primary Indi Surface High Wi Saturati Water M Sedime Drift De Surface	DGY vdrology Indicators: icators (minimum of one water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonriverine ent Deposits (B2) (Nonri posits (B3) (Nonriverine a Soil Cracks (B6)	e required; e) e) iverine) e)	<u>check all that app</u> Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent In	oly) t (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduct on Reduct	es (B13) dor (C1) eres along ed Iron (C4 ion in Tille	Living Ro 4) d Soils (C	Hydric So	condary Indicators (2 or more required) Water Marks (B1) ( <b>Riverine</b> ) Sediment Deposits (B2) ( <b>Riverine</b> ) Drift Deposits (B3) ( <b>Riverine</b> ) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C
Type: Depth (ir Remarks: YDROLC Vetland Hy Primary Indi Surface High Wi ✓ Saturati Saturati Sedime Drift De Surface Inundat	DGY /drology Indicators: icators (minimum of one water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonriverine mt Deposits (B2) (Nonri posits (B3) (Nonriverine Soil Cracks (B6) ion Visible on Aerial Ima	e required; e) iverine) ie) agery (B7)	check all that app Salt Crus Biotic Cru Aquatic Ir Hydroger Oxidized Presence Recent Ir Thin Muc	oly) t (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduct on Reduct k Surface	es (B13) dor (C1) eres along ed Iron (C4 ion in Tille (C7)	Living Ro 4) d Soils (C	Hydric So	bil Present? Yes No condary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C Shallow Aquitard (D3)

Surface Water Present? Water Table Present? Saturation Present? Yes \_\_\_\_\_ No 🖌 Depth (inches): \_\_\_ Yes \_\_\_\_\_ No \_\_\_\_ Depth (inches): \_\_\_\_\_ Yes <u>v</u> No Depth (inches): <u>5</u> Wetland Hydrology Present? Yes <u>v</u> No \_\_\_\_

Saturation Present? (includes capillary fringe)

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

AAD+ reaction positive starting at 5-inch depth from soil surface.

### WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Garvey Reservoir Rehabilitation Project	City/County: Mor	nterey Park/Los /	Angeles	Sampling Date:	11/23/	2021
Applicant/Owner: Metropolitan Water District of Southern Calif	ornia	State:	CA	Sampling Point:	SPC	12
Investigator(s): Malek Al-Marayati	Section, Township	p, Range: <u>34, 01S</u>	, 12W			
Landform (hillslope, terrace, etc.): hillslope	Local relief (conc	ave, convex, none	: concave	Slo	pe (%): _	15
Subregion (LRR): C Lat: 34	.047574	Long: <u>-118</u>	.120726	Datu	m: WGS	34
Soil Map Unit Name: Counterfeit-Urban land complex, 10 to 35	percent slopes,	terraced N	WI classific	ation: none		
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes 🖌	No (If no,	explain in R	emarks.)		
Are Vegetation, Soil, or Hydrology significantly	v disturbed?	Are "Normal Circu	mstances" p	oresent? Yes	No_	
Are Vegetation, Soil, or Hydrology naturally pr	oblematic?	(If needed, explain	any answe	rs in Remarks.)		
SUMMARY OF FINDINGS Attach site man showing	n compling no	int locationa d	ronooto	important fo	oturoo	oto

### SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	No <u>v</u> No <u>v</u> No <u>v</u>	Is the Sampled Area within a Wetland?	Yes	No 🖌
Remarks:					

### **VEGETATION – Use scientific names of plants.**

7 01 1 (7) ( ) 30 ft	Absolute	Dominant	Indicator	Dominance Test worksheet:	
<u>A Olea europaea</u>	<u>% Cover</u>	<u>Species?</u> v	Status	Number of Dominant Species	(
				That Are OBL, FACW, or FAC:	(A)
2				Total Number of Dominant	
3				Species Across All Strata: <u>3</u>	(B)
4				Percent of Dominant Species	
Sapling/Shrub Stratum (Plot size: 15 ft.)		= Total Co	ver	That Are OBL, FACW, or FAC: 0%	(A/B)
1. Eriogonum fasciculatum	30	Y	UPL	Prevalence Index worksheet:	
2. Atriplex semibaccata	5	N	FAC	Total % Cover of: Multiply by:	
3.				OBL species x 1 =	_
4.				FACW species x 2 =	
5.				FAC species x 3 =	
	35	= Total Co	ver	FACU species x 4 =	_
Herb Stratum (Plot size: 5 ft. )				UPL species x 5 =	
1. Avena barbata	80	Y	UPL	Column Totals: (A)	(B)
2. <mark>Salsola tragus</mark>	3	N	FACU		,
3				Prevalence Index = B/A =	_
4				Hydrophytic Vegetation Indicators:	
5				Dominance Test is >50%	
6				Prevalence Index is ≤3.0 <sup>1</sup>	
7				Morphological Adaptations <sup>1</sup> (Provide suppor data in Remarks or on a separate sheet)	ting
8				Problematic Hydrophytic Vegetation <sup>1</sup> (Explai	in)
Woody Vine Stratum (Plot size: 15 ft.)	- 65	= Total Co	ver		
1 NA				<sup>1</sup> Indicators of hydric soil and wetland hydrology n	nust
2				be present, unless disturbed or problematic.	
	0	= Total Co	ver	Hydrophytic	
% Bare Ground in Herb Stratum17 % Cove	r of Biotic C	rust <u>C</u>	)	Vegetation Present? Yes No _	
Remarks:				1	

#### SOIL

Profile Des	cription: (Describe	to the dept	h needed to document the indicator or	confirm the absence of indicators.)
Depth	Matrix	<u>.</u>	Redox Features	
(inches)	Color (moist)	%	Color (moist) % Type <sup>1</sup>	Loc <sup>2</sup> Texture Remarks
0-20	10 YR 3/4	100		SL
				· · · · · · · · · · · · · · _ /
<sup>1</sup> Type: $C=C$	oncentration D=Der	oletion RM=	Reduced Matrix CS=Covered or Coated S	Sand Grains <sup>2</sup> Location: PL=Pore Lining M=Matrix
Hydric Soil	Indicators: (Applic	able to all L	_RRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
Histoso	(A1)		Sandy Redox (S5)	1 cm Muck (A9) (LRR C)
Histic E	pipedon (A2)		Stripped Matrix (S6)	2 cm Muck (A10) ( <b>LRR B</b> )
Black H	istic (A3)		Loamy Mucky Mineral (F1)	Reduced Vertic (F18)
Hydroge	en Sulfide (A4)		Loamy Gleyed Matrix (F2)	Red Parent Material (TF2)
Stratifie	d Layers (A5) (LRR	<b>C</b> )	Depleted Matrix (F3)	Other (Explain in Remarks)
1 cm M	uck (A9) ( <b>LRR D</b> )		Redox Dark Surface (F6)	
Deplete	d Below Dark Surfac	æ (A11)	Depleted Dark Surface (F7)	
Thick D	ark Surface (A12)		Redox Depressions (F8)	<sup>3</sup> Indicators of hydrophytic vegetation and
Sandy M	Mucky Mineral (S1)		Vernal Pools (F9)	wetland hydrology must be present,
Sandy (	Gleyed Matrix (S4)			unless disturbed or problematic.
Restrictive	Layer (if present):			
Туре:				
Depth (in	ches):			Hydric Soil Present? Yes No
Remarks:				
HYDROLO				
Wetland Hy	GY			
<b>Trocland</b> Hy	IGY			
Primary Indi	IGY drology Indicators: cators (minimum of o	; one required	: check all that apply)	Secondary Indicators (2 or more required)
Primary Indi	drology Indicators: cators (minimum of o Water (A1)	: one required	; check all that apply) Salt Crust (B11)	Secondary Indicators (2 or more required) Water Marks (B1) ( <b>Riverine</b> )

Biotic Crust (B12)
Aquatic Invertebrates (B13)
Hydrogen Sulfide Odor (C1)
Oxidized Rhizospheres along Living Roots

	Water Marks (B1) (Nonriverine)		Hydrogen Sulfide Odor (C1)	 Drainage Patterns (B10)
	Sediment Deposits (B2) (Nonriverine)		Oxidized Rhizospheres along Living Roots (C3)	 Dry-Season Water Table (C2)
	Drift Deposits (B3) (Nonriverine)		Presence of Reduced Iron (C4)	 Crayfish Burrows (C8)
	Surface Soil Cracks (B6)		Recent Iron Reduction in Tilled Soils (C6)	 Saturation Visible on Aerial Imagery (C9)
	Inundation Visible on Aerial Imagery (B7)		Thin Muck Surface (C7)	 Shallow Aquitard (D3)
	Water-Stained Leaves (B9)		Other (Explain in Remarks)	 FAC-Neutral Test (D5)
Fie	d Observations:			
Su	face Water Present? Yes No _	~	Depth (inches):	

(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Yes \_\_\_\_\_ No 🖌 Depth (inches): \_\_\_\_\_

Yes \_\_\_\_\_ No 🖌 Depth (inches): \_\_\_\_\_

Remarks:

Water Table Present?

Saturation Present?

\_\_\_\_ Drift Deposits (B3) (Riverine)

Wetland Hydrology Present? Yes \_\_\_\_\_ No \_\_\_\_

### WETLAND DETERMINATION DATA FORM – Arid West Region

City/County: Monterey Park/Los Angeles Sampling Date: 11/23/	2021				
ornia State: CA Sampling Point: SPO	)3				
Section, Township, Range: <u>34, 01S, 12W</u>					
_ Local relief (concave, convex, none): <u>concave</u> Slope (%): <u>3</u>					
.047940 Long: -118.120625 Datum: WGS	84				
percent slopes, terraced NWI classification: none					
ear? Yes 🖌 No (If no, explain in Remarks.)					
disturbed? Are "Normal Circumstances" present? Yes No	~				
oblematic? (If needed, explain any answers in Remarks.)					
sampling point locations, transects, important features	, etc.				
	City/County: Monterey Park/Los Angeles       Sampling Date: 11/23/         fornia       State: CA       Sampling Point: SPC         Section, Township, Range: 34, 01S, 12W				

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes <u>'</u> No Yes <u>'</u> No Yes <u>'</u> No	Is the Sampled Area within a Wetland?	Yes No			
Remarks:						
Detention basin is regularly mowed for flood control maintenance.						

### **VEGETATION – Use scientific names of plants.**

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft. )	% Cover	Species?	Status	Number of Dominant Species
1. <u>NA</u>				That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3				Species Across All Strata:4 (B)
4				Dereent of Dominant Species
	0	_ = Total Co	over	That Are OBL. FACW. or FAC: 100% (A/B)
Sapling/Shrub Stratum (Plot size: 15 ft. )				(*-)
1. Washingtonia robusta	5	<u>Y</u>	FACW	Prevalence Index worksheet:
2				Total % Cover of:Multiply by:
3			·	OBL species x 1 =
4				FACW species x 2 =
5		<u> </u>		FAC species x 3 =
- 6	5	_ = Total Co	over	FACU species x 4 =
Herb Stratum (Plot size: 5 ft. )				UPL species x 5 =
1. Cyperus difformis	10	Y	OBL	Column Totals: (A) (B)
2. Poa pratensis	25	Y	FAC	
<ol> <li><u>Lythrum hyssopifolia</u></li> </ol>	12	Y	OBL	Prevalence Index = B/A =
4. Helminthotheca ehcioides	3	N	FAC	Hydrophytic Vegetation Indicators:
5				_ ✓ Dominance Test is >50%
6.				Prevalence Index is ≤3.0 <sup>1</sup>
7.				Morphological Adaptations <sup>1</sup> (Provide supporting
8				data in Remarks or on a separate sheet)
	50	= Total Co	ver	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum (Plot size:15 ft)				
1. <u>NA</u>				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
2.				be present, unless disturbed or problematic.
	0	= Total Co	over	Hydrophytic
% Bare Ground in Herb Stratum 50 % Cove	r of Biotic C	Crust (	)	Vegetation Present? Yes <u>✓</u> No
Remarks:				1

### SOIL

FIGHIE Desi	cription: (Describe		epin needed to docu	intent the	indicator	or contir	m the abse	nce of indicators.)
Depth	Matrix		Rede	ox Feature	s		-	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	e Remarks
0-9	10YR 3/4	96	7.5YR 5/8	4	С	Μ	SCL	
9-20	10YR 3/3	90	7.5YR 5/8	10	С	Μ	SCL	
				_	·			
					·			
					·			
. <u> </u>								
1 <b>T</b>	D D							
Type: C=C	oncentration, D=De	pietion, Ri	ILL RRs unless othe	S=Covere	a or Coate	d Sand G	irains.	Location: PL=Pore Lining, M=Matrix.
Histocol			Sandy Pod	100 (SE)	cu.)		1 c	m Muck (AQ) (I BB C)
Histic Er	ninedon (A2)		Stripped M	JOX (33)			2	111111111111111111111111111111111111
Black Hi	istic (A3)		Loamy Mu	cky Minera	l (F1)		2 C	duced Vertic (E18)
Hydroge	en Sulfide (A4)		Loamy Gle	ved Matrix	(F2)		Re	d Parent Material (TF2)
Stratified	d Lavers (A5) (LRR	C)	Depleted M	/atrix (F3)	()		✓ Ot	ner (Explain in Remarks)
1 cm Mu	uck (A9) ( <b>LRR D</b> )	-,	Redox Dar	k Surface	(F6)			··· ( +···· ·· · ·····,
Depleted	d Below Dark Surfa	ce (A11)	Depleted D	Dark Surfac	e (F7)			
Thick Da	ark Surface (A12)		Redox Dep	pressions (	F8)		<sup>3</sup> Indicat	ors of hydrophytic vegetation and
Sandy M	/lucky Mineral (S1)		Vernal Poc	ols (F9)			wetla	and hydrology must be present,
Sandy G	Gleyed Matrix (S4)						unles	ss disturbed or problematic.
Restrictive	Layer (if present):							
Туре:								
Depth (in	ches):						Hydric \$	Soil Present? Yes 🖌 No
Remarks:								
Soils are	saturated thro							
		ugnout	0-20 inch profil	le.				
		ugnout	0-20 inch profil	le.				
		ugnout	0-20 inch profil	le.				
HYDROLO	GY	ugnout	0-20 inch profil	le.				
HYDROLO Wetland Hy	GY		0-20 inch profil	le.				
HYDROLO Wetland Hy	IGY drology Indicators		0-20 inch profil	le.			S	econdary Indicators (2 or more required)
HYDROLO Wetland Hy Primary India	GY drology Indicators cators (minimum of Water (A1)	ougnout	0-20 inch profil	le.			<u>S</u> e	econdary Indicators (2 or more required)
HYDROLO Wetland Hy Primary India Surface	GY drology Indicators cators (minimum of Water (A1) ater Table (A2)	ougnout	0-20 inch profil	le.			<u>S</u> e	econdary Indicators (2 or more required) _ Water Marks (B1) ( <b>Riverine</b> ) Sediment Deposits (B2) ( <b>Pivorine</b> )
HYDROLO Wetland Hy Primary India Surface High Wa	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3)	ougnout	0-20 inch profil	bly) t (B11) ust (B12)	(B13)		<u>S</u> e	econdary Indicators (2 or more required) _ Water Marks (B1) ( <b>Riverine</b> ) _ Sediment Deposits (B2) ( <b>Riverine</b> ) Drift Deposits (B3) ( <b>Riverine</b> )
HYDROLO Wetland Hyu Primary India Surface High Wa Saturatia Water M	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonrive	ougnout	0-20 inch profil	le. ly) t (B11) ust (B12) nvertebrate Sulfide O	es (B13)		<u>Se</u> 	econdary Indicators (2 or more required) Water Marks (B1) ( <b>Riverine</b> ) Sediment Deposits (B2) ( <b>Riverine</b> ) Drift Deposits (B3) ( <b>Riverine</b> ) Drainage Patterns (B10)
HYDROLO Wetland Hyu Primary India Surface High Wa Saturatia Water M	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonrive	erine)	0-20 inch profil	le. ly) t (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe	es (B13) dor (C1) res along		<u>Se</u> 	econdary Indicators (2 or more required) _ Water Marks (B1) ( <b>Riverine</b> ) _ Sediment Deposits (B2) ( <b>Riverine</b> ) _ Drift Deposits (B3) ( <b>Riverine</b> ) _ Drainage Patterns (B10) _ Dru-Season Water Table (C2)
HYDROLO Wetland Hyd Primary India Surface High Wa Saturatia Water M Sedimer Drift Der	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) farks (B1) (Nonrive nt Deposits (B2) (Nonrive	ougnout	0-20 inch profil	le. ly) t (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe of Reduce	es (B13) dor (C1) res along	Living Ro	<u>Se</u>  	econdary Indicators (2 or more required) Water Marks (B1) ( <b>Riverine</b> ) Sediment Deposits (B2) ( <b>Riverine</b> ) Drift Deposits (B3) ( <b>Riverine</b> ) Drainage Patterns (B10) Dry-Season Water Table (C2) Cravitish Burrows (C8)
HYDROLO Wetland Hyd Primary India Surface High Wa Y Saturatia Water M Sedimer Drift Deg Surface	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) farks (B1) (Nonrive nt Deposits (B2) (No posits (B3) (Nonrive Soil Cracks (B6)	ougnout	0-20 inch profil	le. hy) t (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe of Reduce	es (B13) dor (C1) res along ed Iron (C4	Living Ro	<u>Se</u>  pots (C3)	econdary Indicators (2 or more required) Water Marks (B1) ( <b>Riverine</b> ) Sediment Deposits (B2) ( <b>Riverine</b> ) Drift Deposits (B3) ( <b>Riverine</b> ) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)
HYDROLO Wetland Hyu Primary India Surface High Wa Saturatia Water W Sedimer Drift Dep Surface	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonrive nt Deposits (B2) (No posits (B3) (Nonrive Soil Cracks (B6)	ougnout	0-20 inch profil	le. ly) t (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe of Reduce on Reduct k Surface of	es (B13) dor (C1) res along ed Iron (C4 on in Tilled	Living Ro	<u>S</u>  pots (C3) ;6)	econdary Indicators (2 or more required) Water Marks (B1) ( <b>Riverine</b> ) Sediment Deposits (B2) ( <b>Riverine</b> ) Drift Deposits (B3) ( <b>Riverine</b> ) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3)
HYDROLO Wetland Hy Primary India Surface High Wa Saturatia Water M Sedimer Drift Deg Surface Inundati Water-S	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) farks (B1) (Nonrive nt Deposits (B2) (Nonrive posits (B3) (Nonrive Soil Cracks (B6) ion Visible on Aerial stained Leaves (B9)	erine) erine) onriverine erine)	0-20 inch profil	le.	es (B13) dor (C1) res along ed Iron (C4 on in Tilled (C7) emarks)	Living Ro .) 1 Soils (C	<u>Se</u>  pots (C3) ;6)	econdary Indicators (2 or more required) Water Marks (B1) ( <b>Riverine</b> ) Sediment Deposits (B2) ( <b>Riverine</b> ) Drift Deposits (B3) ( <b>Riverine</b> ) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
HYDROLO Wetland Hyu Primary India Surface High Wa Saturatia Water M Sedimer Drift Dep Surface Inundati Water-S Field Obser	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonrive nt Deposits (B2) (No posits (B3) (Nonrive Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9) vations:	erine) onriverine erine) Imagery (	0-20 inch profil	le. ly) t (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe of Reduce on Reduct k Surface of splain in Re	es (B13) dor (C1) res along ed Iron (C4 on in Tilleo (C7) emarks)	Living Ro ) J Soils (C	<u>Se</u>  pots (C3) ;6)	econdary Indicators (2 or more required) Water Marks (B1) ( <b>Riverine</b> ) Sediment Deposits (B2) ( <b>Riverine</b> ) Drift Deposits (B3) ( <b>Riverine</b> ) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
HYDROLO Wetland Hyu Primary India Surface High Wa Saturatia Water W Sedimer Drift Deg Surface Inundati Water-S Field Obser Surface Wat	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonrive nt Deposits (B2) (No posits (B3) (Nonrive Soil Cracks (B6) on Visible on Aerial Stained Leaves (B9) vations:	erine) onriverine erine) Imagery (	0-20 inch profil	le.	es (B13) dor (C1) res along ed Iron (C4 on in Tilled (C7) emarks)	Living Ro ) d Soils (C	<u>Se</u>  pots (C3) ;6)	econdary Indicators (2 or more required) Water Marks (B1) ( <b>Riverine</b> ) Sediment Deposits (B2) ( <b>Riverine</b> ) Drift Deposits (B3) ( <b>Riverine</b> ) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
HYDROLO Wetland Hyd Primary India Surface High Wa Saturatia Water W Sedimer Drift Deg Surface Inundati Water-S Field Obser Surface Wat	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonrive nt Deposits (B2) (No posits (B3) (Nonrive Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9) vations: present?	erine) Imagery ( Yes	0-20 inch profil	le.	es (B13) dor (C1) res along ed Iron (C4 on in Tilled (C7) emarks)	Living Ro .) J Soils (C	<u>S</u>  pots (C3) ;6)	econdary Indicators (2 or more required) Water Marks (B1) ( <b>Riverine</b> ) Sediment Deposits (B2) ( <b>Riverine</b> ) Drift Deposits (B3) ( <b>Riverine</b> ) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
HYDROLO Wetland Hyu Primary India Surface High Wa Saturatia Water M Sedimer Drift Dep Surface Inundati Water-S Field Obser Surface Wate Vater Table Saturatian D	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) Marks (B1) (Nonrive nt Deposits (B2) (No posits (B3) (Nonrive Soil Cracks (B6) ion Visible on Aerial itained Leaves (B9) vations: mer Present? Present?	erine) Imagery ( Yes Yes	0-20 inch profil	le.	es (B13) dor (C1) res along ed Iron (C4 on in Tilleo (C7) emarks)	Living Ro	<u>S</u>  pots (C3) ;6)	econdary Indicators (2 or more required) Water Marks (B1) ( <b>Riverine</b> ) Sediment Deposits (B2) ( <b>Riverine</b> ) Drift Deposits (B3) ( <b>Riverine</b> ) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
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