

**BOARD OF DIRECTORS
SANTA CLARA VALLEY WATER DISTRICT**

RESOLUTION NO. 19-

**MAKING RESPONSIBLE AGENCY FINDINGS PURSUANT TO THE
CALIFORNIA ENVIRONMENTAL QUALITY ACT FOR PARTNERSHIP AGREEMENT
TO ADVANCE RESILIENT WATER REUSE PROGRAMS IN SANTA CLARA COUNTY**

WHEREAS, the governing bodies of Palo Alto, Mountain View, and the Santa Clara Valley Water District (Valley Water) are considering the “Partnership Agreement to Advance Resilient Water Reuse Programs in Santa Clara County” (Partnership Agreement) that would further develop water supplies and infrastructure to meet the county’s water supply needs; and

WHEREAS, as part of the Partnership Agreement, Palo Alto and Mountain View may utilize Valley Water’s \$16 million contribution to the development of a local salt removal facility to be owned and operated by Palo Alto (referred to as the Local Plant in the Partnership Agreement) or an alternative to the Local Plant; and

WHEREAS, on September 28, 2015, pursuant to the California Environmental Quality Act (CEQA), Palo Alto certified a Final Environmental Impact Report (EIR) for the City of Palo Alto Recycled Water Project, which considered the environmental effects associated with expanding the Palo Alto Regional Water Quality Control Plant regional recycled water system; and

WHEREAS, on November 18, 2019, Palo Alto approved an Addendum to the EIR in regards to the development of the local salt removal facility; and

WHEREAS, Valley Water as a Responsible Agency pursuant to CEQA must make certain findings prior to approving the Partnership Agreement.

NOW, THEREFORE BE IT RESOLVED that the Board of Directors of the Santa Clara Valley Water District does hereby find:

1. The Board has reviewed and considered the environmental effects of the Project as shown in the EIR and Addendum prior to making a decision on the Partnership Agreement.
2. The EIR and Addendum are adequate for use by Valley Water.
3. The Board adopts the Findings, attached hereto as Exhibit A, and incorporated herein by this reference, for approval of the proposed Partnership Agreement.

Making Responsible Agency Findings Pursuant to the California Environmental Quality Act for
Partnership Agreement to Advance Resilient Water Reuse Programs in Santa Clara County
Resolution No. 19-

PASSED AND ADOPTED by the Board of Directors of the Santa Clara Valley Water District by
the following vote on December 10, 2019:

AYES: Directors

NOES: Directors

ABSENT: Directors

ABSTAIN: Directors

SANTA CLARA VALLEY WATER DISTRICT

LINDA J. LEZOTTE
Chair, Board of Directors

ATTEST: MICHELE L. KING, CMC

Clerk, Board of Directors

Exhibit A

Resolution No 9548

Resolution of the Council of the City of Palo Alto Certifying the Adequacy of the Final Environmental Impact Report for the Recycled Water Project Pursuant to the California Environmental Quality Act and Adopting the Mitigation Monitoring and Reporting Program

The Council of the City of Palo Alto RESOLVES as follows:

SECTION 1. Introduction and Certification

(a) The City Council of the City of Palo Alto ("City Council"), in the exercise of its independent judgment, makes and adopts the following findings to comply with the requirements of the California Environmental Quality Act ("CEQA"; Pub. Resources Code, §§ 21000 et seq.), and Sections 15091, 15092, and 15093 of the CEQA Guidelines (14 Cal. Code Regs., § 15000 et seq.). All statements set forth in this Resolution constitute formal findings of the City Council, including the statements set forth in this paragraph. These findings are made relative to the conclusions of the City of Palo Alto Recycled Water Project Final Environmental Impact Report (State Clearinghouse No. 2011062037) (the "Final EIR"), which consists of the Draft Environmental Impact Report ("Draft EIR") and the Response to Comments ("RTC"). The Final EIR addresses the environmental impacts of the implementation of the Recycled Water Project (the "Project", as further defined in Section 2(b) below) and is incorporated herein by reference. These findings are based upon the entire record of proceedings for the Project.

(b) Mitigation measures associated with the potentially significant impacts of the Project will be implemented through the Mitigation Monitoring and Reporting Program described below, which is the responsibility of the City.

(c) The City of Palo Alto is the Lead Agency pursuant to Public Resources Code section 21067 as it has the principal responsibility to approve and regulate the Project.

(d) The City exercised its independent judgment in accordance with Public Resources Code section 20182.1(c), in retaining the independent consulting firm RMC Water and Environment ("RMC") to prepare the Final EIR, and RMC prepared the Final EIR under the supervision and at the direction of the Public Works Department's Watershed Protection Manager.

(e) The City, through RMC, prepared the Draft EIR and circulated it for review by responsible and trustee agencies and the public and submitted it to the State Clearinghouse for review and comment by state agencies, for a comment period which ran from April 20, 2015 through June 4, 2015. Two public meetings were held during the 45-day public comment period, on May 19, 2015 and May 21, 2015.

(f) Public comments were received during public comment period, including nine letters. RMC prepared a Response to Comments document which responded to the comments

received on the Draft EIR.

(f) The City's Public Works Department has reviewed the Final EIR and a draft of these findings and has provided its recommendations to the City Council regarding certification of the Final EIR. The City Council has independently reviewed the Final EIR and has considered the Public Works Department's recommendations in making these findings.

(g) Based upon review and consideration of the information contained therein, the City Council hereby certifies that the Final EIR was completed in compliance with CEQA, and reflects the City of Palo Alto's independent judgment and analysis. The City Council has considered evidence and arguments presented during consideration of the Project and the Final EIR. In determining whether the Project may have a significant impact on the environment, and in adopting the findings set forth below, the City Council certifies that it has complied with Public Resources Code sections 21081, 21081.5, and 21082.2.

(h) Chapter 7 in the Responses to Comments document (of the Final EIR) shows all revisions that the Final EIR made to the Draft EIR. All references to the Draft EIR in these findings include references to all revisions to the Draft EIR made in the Final EIR. Having reviewed this section and the Final EIR as a whole, the City Council hereby finds, determines, and declares that no significant new information has been added to the Final EIR so as to warrant recirculation of all or a portion of the Draft EIR. Likewise, the City Council has considered all public comments and other information submitted into the record since publication of the Final EIR, and further finds that none of that additional information constitutes significant new information requiring recirculation of the Final EIR.

SECTION 2. Project Information

The following Project information is supplied to provide context for the discussion and findings that follow, but is intended as a summary and not a replacement for the information contained in the Draft EIR, Final EIR, or Project approvals.

(a) Project Objectives

The Project Objectives are set forth in Section 1.4.2 of the Draft EIR, which is incorporated herein by reference.

(b) Project Description

The proposed Project is the expansion of Palo Alto Regional Water Quality Control Plant (RWQCP)'s regional recycled water system to serve areas in the City. The Water Reuse Program currently serves parts of the City of Palo Alto and Mountain View. This expansion would serve recycled water throughout the RWQCP's service area. Initially, the project would deliver approximately 900 acre feet per year of recycled water primarily to the Stanford Research Park Area and other South Palo Alto areas including Alta Mesa Memorial Park. The primary use of

recycled water for this project would be landscape irrigation. The proposed project would involve installation and operation of approximately 10 miles of backbone and lateral pipelines, two pump stations (one at the RWQCP and one along the pipeline), and 0.3 miles of connection pipelines to connect to the RWQCP and the existing Mountain View recycled water pipeline.

An aerial view of the proposed pipeline corridor and the proposed pump stations is shown in Figure 2-1. A breakdown of the proposed backbone pipeline alignment is shown in Table 2-1. The proposed booster pump station site at Mayfield Soccer Fields is shown in Figure 2-5 while the proposed pump station site at the RWQCP is shown in Figure 2-6. (All references to figures and table are to those appearing in the Draft EIR)

A complete description of the Project as proposed by the Project applicant is set forth in Section 2.3 of the Draft EIR, as modified in the Final EIR.

(c) Required Approvals

The approvals required by the City as lead agency for implementation of the Project include:

- A. Modification of the City's Long Range Facilities Plan for the Regional Wastewater Control Plant
- B. Architectural Review
- C. Site and Design Review
- D. Conditional use permit
- E. Tree Removal Permits
- F. Encroachment and Street Work Permit
- G. Exceptional waste discharge permit
- H. Recycled Water Permit for Customers

SECTION 3. Record of Proceedings

(a) For purposes of CEQA, CEQA Guidelines section 15091(e), and these findings, the Record of Proceedings for the Project includes, but is not limited to, the following documents:

- (1) The Final EIR, which consists of the Recycled Water Project Draft EIR, published and circulated for public review and comment by the City from April 20 through June 4, 2015, the Response to Comments document, and all appendices, reports, documents, studies, memoranda, maps, testimony, and other materials related

thereto;

- (2) All public notices issued by the City in connection with the Project and the preparation of the Draft EIR and the Final EIR, including but not limited to public notices for all public meetings held to seek public comments and input on the Project and the Notice of Preparation, Notice of Completion, and Notice of Availability;
- (3) All written and oral communications submitted by agencies or interested members of the general public during the public review period for the Draft EIR, including oral communications made at public hearings or meetings held on the Project approvals;
- (4) The Mitigation Monitoring and Reporting Program;
- (5) All findings and resolutions adopted by the City Council in connection with the Project, and all documents cited or referred to therein;
- (6) All final reports, studies, memoranda, maps, staff reports, or other planning documents relating to the Project prepared by the City of Palo Alto and consultants with respect to the City of Palo Alto's compliance with the requirements of CEQA, and with respect to the City of Palo Alto's actions on the Project, including all staff reports and attachments to all staff reports for all public meetings held by the City;
- (7) Minutes and/or verbatim transcripts of all public meetings and/or public hearings held by the City of Palo Alto in connection with the Project;
- (8) Matters of common knowledge to the City of Palo Alto, including, but not limited to, federal, state, and local laws and regulations;
- (9) Any documents expressly cited in these findings, in addition to those cited above; and
- (10) Any other materials required to be in the record of proceedings by Public Resources Code section 21167.6(e).

(b) The custodian of the documents comprising the record of proceedings is the Director of Planning and Community Environment, 250 Hamilton Avenue, 5th Floor, Palo Alto, California, 94301.

(c) Copies of all of the above-referenced documents, which constitute the record of proceedings upon which the City of Palo Alto's decision on the Project is based, are and have been available upon request at the City of Palo Alto offices at 250 Hamilton Avenue, 5th Floor,

Palo Alto, California, 94301, and online on the Project's website at http://www.cityofpaloalto.org/gov/depts/uti/residents/resources/water_resources/recycled_water.asp.

(d) The City of Palo Alto has relied upon all of the documents, materials, and evidence listed above in reaching its decision on the Project.

(e) The City Council hereby finds, determines and declares that the above-referenced documents, materials, and evidence constitute substantial evidence (as that term is defined by section 15384 of the CEQA Guidelines) to support each of the findings contained herein.

SECTION 4. Mitigation Monitoring and Reporting Program

(a) CEQA requires the lead agency approving a project to adopt a Mitigation Monitoring and Reporting Program (MMRP) for the changes made to the project that it has adopted in order to mitigate or avoid significant effects on the environment. An MMRP has been prepared and is recommended for adoption by the City Council concurrently with the adoption of these findings to ensure compliance with standard project requirements incorporated as part of the project and mitigation measures during Project implementation. As required by Public Resources Code section 21081.6, the MMRP designates responsibility and anticipated timing for the implementation of the mitigation measures recommended in the Final EIR. The MMRP will remain available for public review during the compliance period.

(b) The City Council hereby adopts the MMRP for the Project attached hereto as Exhibit A and incorporated by reference, and finds, determines, and declares that the adoption of the MMRP will ensure enforcement and continued imposition of the mitigation measures recommended in the Final EIR, and set forth in the MMRP, in order to mitigate or avoid significant impacts on the environment.

SECTION 5. Significant Impacts Reduced to Less than Significant

The Draft EIR and the Final EIR identified a number of significant and potentially significant environmental impacts that the Project will cause or contribute to. All of these significant effects can be fully addressed and reduced to less than significant through the adoption and implementation of standard project requirements incorporated as part of the Project and feasible mitigation measures. Those impacts, along with the standard project requirements and mitigation measures to reduce them to less than significant, are listed below as referenced in the Final EIR.

3.1 Hydrology and Water Quality

Impact HYD-1: Potential violation of water quality standards and/or waste discharge requirements or otherwise substantially degrade water quality. Less than significant with

Standard Project Requirements and Mitigation.

a) **Potential Impact.** The impact identified above is described and discussed in Section 3.1.3 of the Draft EIR.

b) **Mitigation Measures.** No mitigation measures are required. The following standard project requirements will be adopted and will be implemented as provided in the MMRP, and as further described in the remainder of these findings:

Standard Project Requirements

Best Management Practices – Storm Water Quality: The City shall require contractors to file a Notice of Intent with the Regional Water Quality Control Board (RWQCB) indicating compliance with the National Pollutant Discharge Elimination System (NPDES) General Permit for Discharges of Storm Water Runoff Associated with Construction Activity (General Permit) and to prepare and implement a Stormwater Pollution Prevention Plan (SWPPP) outlining BMPs for construction/post-construction activities as specified by the City of Palo Alto's Pollution Prevention plan sheet, the California Stormwater Best Management Practices Handbook and/or the Association of Bay Area Governments' Manual of Standards for Erosion and Sediment Control Measures. The BMPs include measures guiding the management and operation of construction sites to control and minimize the potential contribution of pollutants to stormwater runoff from these areas. These measures address procedures for controlling erosion and sedimentation, and managing all aspects of the construction process to ensure control of potential water pollution sources. Erosion and sedimentation control practices typically include:

- Installation of silt fencing and/or straw wattle;
- Soil stabilization;
- Revegetation of graded and fill areas with a standard erosion control mix (approved by a native habitat restorationist);
- Runoff control to limit increases in sediment in stormwater runoff (e.g., straw bales, silt fences, drainage swales, geofabrics, check dams, and sand bag dikes);
- Performing equipment maintenance at least 100 feet from all water bodies and wetlands, with measures in place to contain spills of diesel fuel, gasoline, or other petroleum products.
- Directing drainage from all work sites away from any water bodies or wetlands where feasible;
- Preventing erosion of uplands and sedimentation of creeks, tributaries, and ponds;
- Minimizing creek bank instability;
- Preventing flooding; and

- Returning grades to preconstruction contours.

A SWPPP that complies with the statewide General Permit shall be developed and implemented to protect water quality of the creeks that lie in the study area. Appropriate erosion and sediment control and non-sediment pollution control (i.e., sources of pollution generated by construction equipment and material) BMPs shall be prescribed in the SWPPP, and erosion and sediment control material included in the SWPPP shall be certified as weed free. Dewatering operations are covered under the General Construction Permit as an authorized non-stormwater discharge. The discharge from dewatering operations would be evaluated and made part of the Project SWPPP. In addition, the Project shall comply with RWQCB regulations and standards to maintain and improve the quality of both surface water and groundwater resources.

Frac-Out Plan: Prior to constructing underground crossings of creeks or channels, a Frac-out Contingency Plan shall be developed. At minimum, the plan shall prescribe the measures to ensure protection of water quality and related biological resources (e.g., aquatic resources, and special-status plants and wildlife) including:

- Procedures to minimize the potential for a frac-out associated with horizontal directional drilling;
- Procedures for timely detection of frac-outs;
- Procedures for timely response and remediation in the event a frac-out; and
- Monitoring of drilling and frac-out response activities by a qualified biologist.

Discharge of Exceptional Wastewater: Hydrostatic test water and water collected from dewatering activities (including contaminated water) are discharged to the sanitary sewer with an Exceptional Waste Discharge Permit from RWQCP. The permit requires chemical constituents to be sampled and identifies limits for these constituents. To minimize impacts to water quality, the City shall obtain an Exceptional Wastewater Permit prior to discharge of such waters into the sanitary sewer.

c) Finding. Impacts to water quality during construction would be potentially significant, but with implementation of standard project requirements, including the development and implementation of a SWPPP and best management practices, a frac-out plan for trenchless construction across creeks, and compliance with an Exceptional Waste Discharge Permit, potential impacts would be reduced to less than significant.

d) Remaining Impact. Standard project requirements specified above would reduce all potential impacts to less than significant. No residual impacts would remain.

Impact HYD-2: Potential to substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, in a manner which would result in substantial erosion or siltation on- or off-site. Less than Significant with Standard Project Requirements and Mitigation.

a) Potential Impact. The impact identified above is described and discussed in Section 3.1.3 of the Draft EIR.

b) Mitigation Measures. No mitigation measures are required. The standard project requirements specified under Impact HYD-1 will be adopted and will be implemented as provided in the MMRP, and as further described in the remainder of these findings.

c) Finding. Construction-related erosion and siltation could generate potentially significant, but with implementation of standard project requirements specified for HYD-1 above, including the development and implementation of a SWPPP and best management practices, a frac-out plan for trenchless construction across creeks, and compliance with an Exceptional Waste Discharge Permit, potential impacts would be reduced to less than significant.

d) Remaining Impact. Standard project requirements specified above would reduce all potential impacts to less than significant. No residual impacts would remain.

Impact HYD-3: Potential to result in the substantial decline in health of the redwood trees and other salt-sensitive plant species. Less than Significant with Mitigation Measures.

a) Potential Impact. The impact identified above is described and discussed in Section 3.1.3 of the Draft EIR.

b) Mitigation Measures. The following mitigation measures will be adopted and will be implemented as provided in the MMRP, and as further described in the remainder of these findings:

HYD-3a Source Control of Saline Groundwater: The City shall continue to line and repair existing sewers to minimize saline groundwater infiltration.

HYD-3b Monitoring: The City shall immediately begin monthly monitoring of the salinity (and related constituents) of the recycled water and shall report the rolling 12-month average for comparison to the Palo Alto City Council goal of 600 mg/l TDS. Monthly electronic reporting to those requesting it will be performed for two years, and then the frequency will be re-evaluated. The City shall monitor soil salinity and SAR through semi-annual soil analyses, preferably taken early and late in the irrigation season (approximately April

and October).

HYD-3c

Site Management: If at a particular site receiving recycled water, monitoring identifies an increase in soil salinity and SAR over historical levels, the City in cooperation with the owner of that site shall conduct a site-specific evaluation. That evaluation would consider (1) the extent to which the site contains protected trees (including redwood trees and oaks) that might be impacted by soil salinity, (2) the extent to which the elevated salinity is at a level that poses a threat to such protected trees, and (3) the extent to which the elevated salinity is the result of the use of the City's recycled water. If a threat is found, the City shall work cooperatively with the site owner to develop a site-specific mitigation plan, including the site owner's implementation of best management practices which are described below:

- To avoid plant damage to salt sensitive landscape plants, site owners can implement a leaching program to maintain soil salinity within the root zone below 2.0 dS/m¹ and SAR below 6.0. For moderately salt-tolerant plants, maintain soil salinity below 4.0 dS/m. Where subsoils do not drain adequately, installation of subsurface drainage systems may be needed. Rainfall will satisfy a portion of the leaching requirement, depending on the rate, volume, and distribution through the season. The frequency with which leaching applications should be made depends on several variables, and is typically triggered by approaching soil salinity thresholds defined above.
- Site owners can apply gypsum prior to leaching when indicated by soil analysis. Gypsum is a soil amendment that, when combined with leaching, helps lower soil sodium concentrations. Gypsum application can be considered when soil analyses reveal one or more of the following conditions: SAR exceeds 6.0, SAR increases 2 units or more (e.g., 2.3 to 4.3), and/or sodium concentration exceeds 5 meq/l (115 mg/L). The amount of gypsum needed and the frequency of application depend on site-specific soil and water characteristics, and can be determined by laboratory analysis.

HYD-3d

Other Options to Protect Salt-Sensitive Plants. In the event that monitoring results (see Mitigation Measure HYD-3b) show that optimal concentrations of TDS and related parameters will not be achieved prior to operation of the Project (i.e., recycled water application), the City will evaluate and implement one or more of the following actions to reduce TDS levels:

¹ ds/m is decisiemen/meter. A dS/m is a measure of electrical conductivity, and approximates to 640 mg/L TDS.

- Utilize its existing Recycled Water Ordinance exemption process (Palo Alto Municipal Code 16.12.050) to exempt redwood trees (and/or other salt sensitive species) from the use of recycled water;
- Blend Recycled Water and other lower salinity water prior to application; and/or
- Treat recycled water to reduce TDS prior to application, or shortly thereafter (the City is initiating an investigation of the feasibility of Reverse or Forward Osmosis treatment of its recycled water, combined with blending of appropriate water).

c) Finding. As described in the Draft EIR, these measures are part of a larger vision to ensure that salinity hazard is eliminated and recycled water quality is safely used on landscapes. The measures involve the City continuing to line and repair existing sewers to minimize saline groundwater infiltration, concurrent monitoring by the City to track success, concurrent best management practices by site owners as needed, and if deemed necessary (in the event the salinity hazard has not been eliminated), other actions to be implemented by the City. Mitigation Measures HYD-3b, HYD-3c, and HYD-3d have been revised in the Final EIR for clarification purposes. Specifically, Mitigation Measure HYD-3b has been revised to increase the initial frequency of salinity monitoring and to provide for reevaluation of the monitoring schedule after two years of monitoring. Mitigation Measure HYD-3c has been revised to identify timing of when a site-specific evaluation would be needed. Mitigation Measure HYD-3d has been revised to clarify the procedures that would be implemented if salinity reduction does not achieve optimal recycled water quality before the start of project operations. The implementation of HYD-3a, HYD-3b, HYD-3c, and/or HYD-3d would ensure that the project would not result in the substantial decline in health of redwood trees and other salt-sensitive plant species and would mitigate potential impacts to a less-than-significant.

d) Remaining Impact. Mitigation Measures HYD-3a, HYD-3b, HYD-3c, and HYD-3d would reduce all potential impacts to less than significant. No residual impacts would remain.

3.2 Aesthetics

Impact AES-1: The Proposed Project could result in substantial degradation of the existing visual character or quality of the site and its surroundings or on a public view or view corridor. Less than significant with Standard Project Requirements and Mitigation Measures.

a) Potential Impact. The impact identified above is described and discussed in Section 3.2.3 of the Draft EIR.

b) Mitigation Measures. The standard project requirements and mitigation measures will be adopted and will be implemented as provided in the MMRP, and as further described in the remainder of these findings.

Standard Project Requirement

Compliance with the Tree Technical Manual: The City of Palo Alto Tree Technical Manual (Dockter 2001) is a separately published document issued by the City Manager, through the Departments of Planning and Community Environment and Public Works to establish specific technical regulations, standards and specifications necessary to implement the Tree Ordinance (Chapter 8.10, Tree Preservation and Management Regulations), and to achieve the City's tree preservation goals and natural resource conservation goals.

Section 2.00 specifically addresses the protection of trees during construction; its objective is to reduce the negative impacts of construction on trees to a less than significant level.

Construction projects within the tree protection zone (TPZ) of Regulated Trees are required to implement protective practices prior to and during construction. The City would be required to retain a certified arborist to prepare a Tree Protection and Preservation Plan if any activity is within the dripline of a Protected or Designated Tree. The Plan must include an assessment of impacts to trees, recommended mitigation to reduce impacts to a less than significant level, and identification of construction guidelines to be followed through all phases of a construction project.

Section 3.00 of the Tree Technical Manual outlines requirements associated with the removal and replacement of regulated trees. The standards and specifications for replacements of trees are dependent on the location where a Protected or Designated Tree would be replaced. If a tree is to be replaced on site, the replacement tree must be the same species unless the Director determines that another species would be more suitable for the location. The location of the replacement tree on site must be approved by the Director. If it is not possible to replace the tree on site, funding for the replacement of trees is calculated using a Tree Value Replacement Standard. The funding is then applied for planting of trees elsewhere.

AES-1	Restoration to Pre-construction Conditions: The City shall require its contractors to restore disturbed areas to their pre-construction conditions, to the extent consistent with pipeline operations, so that short-term construction disturbance does not result in long-term visual impacts.
HYD-3a	See above under Impact HYD-3
HYD-3b	See above under Impact HYD-3
HYD-3c	See above under Impact HYD-3
HYD-3d	See above under Impact HYD-3

c) Finding. Compliance with standard project requirements (Tree Technical

Manual) would ensure that protected trees would remain on the Project site and any designated trees removed would be replaced according to the Tree Canopy Replacement Formula, Tree Technical Manual, Section 3.30, to ensure minimal effects on the visual quality of affected site. The implementation of Mitigation Measure AES-1 would ensure that project sites are restored to preconstruction conditions or re-vegetated upon completion of work activities to ensure that short-term construction-related impacts would not become long-term aesthetic problems. Implementation of HYD-3a, HYD-3b, HYD-3c, and/or HYD-3d would ensure that the project would not result in the substantial decline in health of redwood trees and other salt-sensitive plant species, and as such substantial degradation of the existing visual character or quality of the site and its surroundings or on a public view or view corridor would not occur. Thus, with implementation of both the standard project requirement and mitigation measures, the project would mitigate potential aesthetic impacts to a less-than-significant.

d) Remaining Impact. Standard project requirement and mitigation measures specified above would reduce all potential impacts to less than significant. No residual impacts would remain.

3.3 Air Quality

Impact b: Violate air quality standards or contribute substantially to an existing or projected air quality violation indicated by the following:

- Direct and/or indirect operational emissions that exceed the Bay Area Air Quality Management District (BAAQMD) criteria air pollutants
- Contribute to carbon monoxide (CO) concentrations exceeding the State Ambient Air Quality Standard.

Impact c: Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors).

a) Potential Impact. The impacts identified above are described and discussed in Section E.2 of the Draft EIR (Appendix E).

b) Mitigation Measures. The following standard project requirement and mitigation measure will be adopted and will be implemented as provided in the MMRP, and as further described in the remainder of these findings:

Standard Project Requirement

BAAQMD Dust Control Measures: The following basic construction measures are identified by BAAQMD and shall be incorporated into contract specifications and implemented by the contractor:

- All exposed surfaces (e.g., parking areas, staging areas, soil piles, graded areas, and unpaved access roads) shall be watered two times per day;

- All haul trucks transporting soils, sand, or other loose material off-site shall be covered;
- All visible mud or dirt track-out onto adjacent public roads shall be removed using wet power vacuum street sweepers at least once per day. The use of dry power sweeping is prohibited;
- All vehicle speeds on unpaved roads shall be limited to 15 mph;
- All roadways, driveways, and sidewalks to be paved shall be completed as soon as possible. Building pads shall be laid as soon as possible after grading unless seeding or soil binders are used;
- Idling times shall be minimized either by shutting equipment off when not in use or reducing the maximum idling time to 5 minutes (as required by the California airborne toxics control measure Title 13, Section 2485 of California Code of Regulations). Clear signage shall be provided for construction workers at all access points;
- All construction equipment shall be maintained and properly tuned in accordance with manufacturer's specifications. All equipment shall be checked by a certified visible emissions evaluator; and
- Post a publicly visible sign with telephone number and person to contact at the lead agency regarding dust complaints. This person shall respond and take corrective action within 48 hours. The Air District's phone number shall also be visible to ensure compliance with applicable regulations.

The following additional construction mitigation measures identified by BAAQMD shall be incorporated into contract specifications and implemented by the contractor, to supplement the proposed standard project requirement.

- All exposed surfaces shall be watered at a frequency adequate to maintain minimum soil moisture of 12 percent. Moisture content can be verified by lab samples or moisture probe.
- All excavation, grading, and/or demolition activities shall be suspended when average wind speeds exceed 20 mph.
- Wind breaks (e.g., trees, fences) shall be installed on the windward side(s) of actively disturbed areas of construction. Wind breaks should have at maximum 50 percent air porosity.
- Vegetative ground cover (e.g., fast-germinating native grass seed) shall be planted in disturbed areas as soon as possible and watered appropriately until vegetation is established.
- The simultaneous occurrence of excavation, grading, and ground-disturbing construction activities on the same area at any one time shall be limited. Activities shall be phased to reduce the amount of disturbed surfaces at any one time.
- All trucks and equipment, including their tires, shall be washed off prior to leaving the site.

- Site accesses to a distance of 100 feet from the paved road shall be treated with a 6 to 12 inch compacted layer of wood chips, mulch or gravel.
- Sandbags or other erosion control measures shall be installed to prevent silt runoff to public roadways from sites with a slope greater than one percent.
- Idling time of diesel powered construction equipment shall be minimized to two minutes.
- The project shall develop a plan demonstrating that off-road equipment (more than 50 horsepower) to be used in the construction project (i.e., owned, leased, and subcontractor vehicles) would achieve a project wide fleet-average 20 percent NO_x reduction and 45 percent PM reduction compared to the most recent ARB fleet average. Acceptable options for reducing emissions include the use of late model engines, low-emission diesel products, alternative fuels, engine retrofit technology, after-treatment products, add-on devices such as particulate filters, and/or other options as such become available.
- Use low VOC (i.e., ROG) coatings beyond the local requirements (i.e., Regulation 8, Rule 3: Architectural Coatings).
- All construction equipment, diesel trucks and generators shall be equipped with Best Available Control Technology for emission reductions of NO_x and PM.
- All contractors shall use equipment that meets CARB's most recent certification standard for off-road heavy duty diesel engines.

AIR-1

Two Crew Construction of Proposed Pipeline (using open trench construction technique) and Pump Station Restrictions: To ensure NO_x emissions do not exceed the BAAQMD threshold, the City shall either:

- Incorporate into contract specifications the requirement for contractors to limit open trench construction of the proposed pipeline to one crew (rather than two crews) and sequence the pump station construction so that it would be constructed one at a time, not concurrent with any other activity; or
- Upon refinement of the construction details and assumptions for equipment use, dimensions of the trenches, rate of construction, backfill volume, the City shall rerun the air quality model analysis to confirm whether simultaneous construction of the proposed pipeline or pump stations would result in exceedance of BAAAMD NO_x emissions thresholds. If NO_x thresholds is exceeded, then the City shall implemented item 1 above. If NO_x thresholds is not exceeded, then the City would be able to proceed with concurrent construction of two pipelines (using open trench construction) / two pump stations accordingly.

c) **Finding.** Standard project requirement (dust control) has been incorporated into the project to substantially lessen the dust generated by the Project. Mitigation Measure AIR-1

will ensure that NO_x emissions do not exceed the BAAQMD threshold either by refining the design and rerunning the air quality modeling to confirm that concurrent construction by two crews would not result in an exceedance of BAAQMD threshold for NO_x or by limiting construction to one crew at a time. The standard project requirement and mitigation measure would mitigate the impact to less than significant.

d) Remaining Impact. The standard project requirement and mitigation measure specified above would reduce all potential impacts to less than significant. No residual impacts would remain.

3.4 Biological Resources

Impact a: Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service.

Impact d: Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or as defined by the City of Palo Alto's Tree Preservation Ordinance (Municipal Code Section 8.10).

a) Potential Impact. The impacts identified above are described and discussed in Section E.3 of the Draft EIR (Appendix E).

b) Mitigation Measures. The following standard project requirements and mitigation measures will be adopted and will be implemented as provided in the MMRP, and as further described in the remainder of these findings:

Standard Project Requirements

Health and Safety and Hazardous Materials Management and Spill

Prevention Control Plans: The City shall require the contractor to prepare a Health and Safety Plan and Hazardous Materials Management and Spill Prevention and Control Plan prior to commencement of construction that includes a project-specific contingency plan for hazardous materials and waste operations. The Health and Safety Plan shall be applicable to all construction activities, and shall establish policies and procedures according to federal and California Occupational Safety and Health Administration (OSHA) regulations for hazardous materials Health and Safety Plans, and the City of Palo Alto's Pollution Prevention plan sheet.

Elements of the plan shall include, but not be limited to, the following:

- Discussion of hazardous materials management, including delineation

of hazardous material storage areas, access and egress routes, waterways, emergency assembly areas, and temporary hazardous waste storage areas;

- Notification and documentation of procedures; and
- Spill control and countermeasures, including employee spill prevention/response training.

Best Management Practices – Stormwater Quality (see Impact HYD-1 above)

Compliance with the Tree Technical Manual (see Impact AES-1 above)

BIO-1

Protection of Sensitive Habitats and Jurisdictional Features: The Proposed Project has been designed to avoid impacts to sensitive habitats, including jurisdictional wetlands and waters. However, indirect impacts to jurisdictional waters could occur as a result of the Proposed Project. The following general measures will be implemented during the construction and operation of the Proposed Project to minimize indirect impacts to sensitive habitats and jurisdictional features:

- All construction equipment will use identified staging areas and access roads located in upland areas. When accessing work sites, travel and parking of vehicles and equipment will be limited to pavement, existing roads, and previously disturbed areas (except where overland travel is required). Construction workers will not be allowed to enter sensitive areas that have been fenced or staked.
- Ground disturbance and vegetation removal will not exceed the minimum amount necessary to complete work at the site.
- The following BMPs shall be incorporated into the SWPPP as protective measures to address wind- or water-related erosion:
 - No discharge of pollutants from vehicle and equipment cleaning will be allowed into storm drains, wetlands, or water courses.
 - No vehicles may be refueled within 100 feet of wetlands, streams, or other waterways. Vehicles operating adjacent to wetlands and waterways must be inspected and maintained daily to prevent leaks.
 - Waste facilities will be maintained. Waste facilities include concrete wash-out facilities, portable toilets, and hydraulic fluid containers. Waste will be removed to a proper disposal site.
- After construction is completed, a final cleanup will include removal of all stakes, temporary fencing, flagging, and other refuse generated by construction.

BIO-2 **Protection of CRLF:** Construction activities associated with the creek crossing (Matadero Creek near Deer Creek Road) will be limited to the dry season (generally April 15 to October 15) to the extent feasible.

BIO-3 **Employee Education Program (required for CRLF, BUOW, and CCR if preconstruction surveys determined they are present).** An employee education program will be conducted by a qualified biologist, consisting of a brief presentation to explain special-status species concerns to contractors, their employees, and any other personnel involved in the project. The program will include the following: a description of relevant special-status species and their habitat needs as they pertain to the project; a report of the occurrence of these species in the project vicinity, as applicable; an explanation of the status of these species and their protection under the MBTA, California Fish and Game Code, and other statutes; and, a list of measures being taken to reduce potential impacts to natural resources during project construction and implementation. A fact sheet conveying this information will be prepared for distribution to the above-mentioned people and anyone else who may enter the project area. Upon completion of training, employees will sign a form stating that they attended the training and understand all of the conservation and protection measures. Construction crews will be informed during the education program meeting that, to the extent possible, travel within the marked project area will be restricted to established roadbeds.

BIO-4 **Monitoring During Construction.** A qualified biologist will be retained to monitor construction activities associated with the creek crossing (Matadero Creek near Deer Creek Road). The biologist will have expertise with CRLF biology and ecology. The biologist will have the authority to halt work if a special-status species is observed.

BIO-5 **General Measures to Reduce Impacts to Wildlife Species.** The following shall be relevant to the following species: California red-legged frog, burrowing owl, and the California Clapper Rail.

- All excavations left open overnight will either be covered to prevent wildlife from becoming entrapped or will include escape ramps. In addition, excavations must be inspected for wildlife at the start of each workday and prior to back filling. The USFWS and/or CDFW will be contacted prior to removing or relocating any special-status wildlife within the excavation.
- Food items may attract wildlife into construction areas, which would expose them to construction-related hazards. The construction areas will be maintained in a clean condition. All trash (e.g., food scraps, cans, bottles, containers, wrappers, cigarette butts, and other

discarded items) will be placed in closed containers and properly disposed of.

- If an animal is found at a work site and is believed to be a protected species, work must be halted until the animal leaves of its own accord or the USFWS and/or CDFW is consulted to relocate the species. Care shall be taken not to harm the species. No wildlife or plant species will be handled and/or removed from the site by anyone except approved biologists.

BIO-6

Burrowing Owl Pre-Construction Surveys. Pre-construction BUOW surveys will be conducted in suitable habitat for BUOW (i.e., in pastureland habitat between Deer Creek Road and Hillview Avenue and in the vicinity of the RWQCP) in accordance with the recommendations and guidelines provided in the Staff Report on Burrowing Owl Mitigation (Department of Fish and Game, March 2012). If no BUOW or BUOW sign is observed no further action will be required. If BUOW or BUOW sign is observed then no disturbance will occur within 160 feet of occupied burrows during the non-breeding season (September 1 through January 31) or within 250 feet during the breeding season (February 1 through August 31). A qualified biologist will be present in these locations to monitor construction and ensure the BUOW is not disturbed.

BIO-7

Buffer for California Clapper Rail or Survey. Construction activities within 500 feet of the marshland habitat surrounding the RWQCP will be conducted outside the breeding season for CCR (i.e., September 1 through January 31). If this is not feasible, a qualified biologist will conduct protocol-level surveys for CCR in accordance with the California Clapper Rail Draft Survey Protocol (USFWS 2000). A qualified biologist is an individual who has experience conducting protocol-level surveys for CCR. Prior to commencement of the surveys, the biologist will prepare a brief letter report describing the survey design and submit it to the USFWS and the CDFW for review and approval. Upon the completion of the surveys, results will be submitted to the USFWS and CDFW for a final decision on the possibility of doing work during the breeding season for CCR.

BIO-8

Measure to Protect Nesting Birds. If equipment staging, site preparation, grading, excavation, or other project-related construction activities are scheduled to occur during the avian nesting season (generally February 1 to September 1), a focused survey for active nests will be conducted by a qualified biologists within 15 days prior to the beginning of project-related activities. Surveys will be conducted in all suitable habitat located at project work sites, and in staging or storage areas. Surveys will be conducted at the appropriate times of day (e.g., dawn or dusk), and during the appropriate nesting times and will concentrate on areas of suitable habitat. If a lapse in

project-related activities of 15 days or longer occurs, another focused survey will be conducted. If no active nests are found, then no further mitigation is required. If an active nest is found within the surveyed areas, an appropriate exclusion buffer will be established by a qualified biologist and the exclusion buffer will be maintained until the young have fledged or will no longer be impacted by the project. A qualified biologist will be present to monitor construction activities in the vicinity of the nest and ensure the nesting species is not disturbed. If a species appears disturbed by construction activities (as determined by a qualified biologist) work will be halted and the USFWS and/or CDFW will be consulted. Project activities will not resume without approval from the USFWS and/or CDFW.

BIO-9

Bat Preconstruction Surveys. Preconstruction day and night-roost surveys will be conducted to avoid impacts to bats. The survey will be conducted by a qualified bat biologist following the protocol in the Bats and Bridges Technical Bulletin (Erickson et al. 2003) to determine if bats are using the bridges as a roost site. If a roost is observed, the CDFW and/or USFWS will be consulted and additional mitigation measures will be implemented. Example measures include working during the daytime if night roosts are present, no clearing or grubbing adjacent to the roost, no work within 100 feet of the roost, no lighting near the roost where it could shine on the roost structure.

BIO-10

Bat Breeding Season Surveys. Construction activities near the Adobe Creek crossing near Middlefield Road, the Barron Creek crossing near Cowper Street, and the Matadero Creek crossing near Cowper Street will be scheduled to avoid the bat breeding season (April through August) to the extent feasible. If work in these locations is required in the breeding season, a survey for bats will be conducted. The survey will be conducted by a qualified bat biologist following the protocol in the Bats and Bridges Technical Bulletin (Erickson et al. 2003) to determine if bats are using the bridges as a roost site. If a roost is observed, the CDFW and/or USFWS will be consulted and additional mitigation measures will be implemented. Example measures include excluding bats from directly affected work areas or replacing the roost location.

c) Finding. Mitigation Measure BIO-1 mandates that general measures be implemented to protect sensitive habitats and jurisdictional features. Mitigation Measure BIO-2 limits creek crossing construction to the dry season. Mitigation Measure BIO-3 mandates an employee education program to discuss protection measures. Mitigation Measure BIO-4 includes retaining a qualified biologist who will have authority to halt work to monitor construction activities associated with creek crossing. Mitigation Measure BIO-5 includes general measures to reduce impacts to the California red-legged frog, burrowing owl, and the California Clapper Rail. Mitigation Measure BIO-6 includes conducting pre-construction surveys

for Burrowing Owls and, if signs are present, limiting disturbance and retaining a biologist to be present to ensure Burrowing Owls are not disturbed. Mitigation Measure BIO-7 includes measures to protect the California Clapper Rail and its habitat. Mitigation Measure BIO-8 includes measures to protect nesting birds, including conducting nesting surveys prior to construction and retaining a biologist to monitor activities and ensure nesting species are not disturbed. Mitigation Measure BIO-9 includes measures to protect bats including conducting roosting surveys prior to construction and working with the CDFW and/or USFWS to determine additional mitigation measures if roosts are found. Mitigation Measure BIO-10 includes measures to protect bats during breeding season, including conducting surveys near specific locations if work in these locations is required during breeding season and working with the CDFW and/or USFWS to determine additional mitigation measures if roosts are found. Combined, the standard project requirements and the mitigation measures reduce impacts to biological resources to less than significant.

d) Remaining Impact. Standard project requirements and mitigation measures specified above would reduce all potential impacts to less than significant. No residual impacts would remain.

Impact b: The Proposed Project could have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations, including federally protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means.

a) Potential Impact. The impact identified above is described and discussed in Section E.3 of the Draft EIR (Appendix E).

b) Mitigation Measures. The following mitigation measure will be adopted and will be implemented as provided in the MMRP, and as further described in the remainder of these findings:

BIO-1 See above under Impact a.

c) Finding. Mitigation Measure BIO-1 mandates that general measures be implemented to protect sensitive habitats and jurisdictional features, thus reducing the impact on any riparian habitat or other sensitive natural community to less than significant.

d) Remaining Impact. Mitigation Measure BIO-1 specified above would reduce all potential impacts to less than significant. No residual impacts would remain.

3.5 Cultural Resources

Impact a: The Proposed Project could directly or indirectly destroy a local cultural resource that is recognized by the City Council resolution.

Impact b: The Proposed Project could cause a substantial adverse change in the significance of an archeological resource pursuant to 15064.5.

Impact d: The Proposed Project could disturb human remains, including those interred outside of formal ceremonies.

Impact e: The Proposed Project could adversely affect a historic resource listed or eligible for listing on the National and/or California Register, or listed on the City's Historic Inventory.

Impact f: The Proposed Project could eliminate important examples of major periods of California history or prehistory.

a) Potential Impact. The impacts identified above are described and discussed in Section E.4 of the Draft EIR (Appendix E).

b) Mitigation Measures. The following standard project requirement and mitigation measure will be adopted and will be implemented as provided in the MMRP, and as further described in the remainder of these findings:

Standard Project Requirement

Protection of Cultural Resources: Should any previously undiscovered historic or prehistoric archaeological deposits be discovered during construction, work shall stop within 50 feet of the discovery, until such time that the discovery can be evaluated by a qualified archaeologist and appropriate mitigative action taken as determined necessary in consultation with the lead Federal agency for NHPA Section 106 compliance, in accordance with 36 CFR Part 800.13, and the City. Measures might include preserving in situ the archaeological resource or an archaeological monitoring or data recovery program. Prehistoric archaeological site indicators include chipped chert and obsidian tools, and tool manufacturing waste flakes, grinding implements such as mortars and pestles, and darkened soil that contains dietary debris such as bone fragments and shellfish remains. Historic site indicators include, but are not limited to, ceramics, glass, wood, bone, and metal remains.

Section 7050.5(b) of the California Health and Safety code will be implemented in the event that human remains, or possible human remains, are located during Project-related construction excavation. Section 7050.5(b) states:

In the event of discovery or recognition of any human remains in any location other than a dedicated cemetery, there shall be no further excavation or disturbance of the site or any nearby area reasonably

suspected to overlies adjacent remains until the coroner of the county in which the human remains are discovered has determined, in accordance with Chapter 10 (commencing with Section 27460) of Part 3 of Division 2 of Title 3 of the Government Code, that the remains are not subject to the provisions of Section 27492 of the Government Code or any other related provisions of law concerning investigation of the circumstances, manner and cause of death, and the recommendations concerning treatment and disposition of the human remains have been made to the person responsible for the excavation, or to his or her authorized representative, in the manner provided in Section 5097.98 of the Public Resources Code.

The County Coroner, upon recognizing the remains as being of Native American origin, is responsible for contacting the Native American Heritage Commission (NAHC) within 24 hours. The Commission has various powers and duties to provide for the ultimate disposition of any Native American remains, as does the assigned Most Likely Descendant. Sections 5097.98 and 5097.99 of the Public Resources Code also call for protection from inadvertent destruction. To achieve this goal, the construction personnel on the Project would be instructed as to the potential for discovery of cultural or human remains, the need for proper and timely reporting of such finds, and the consequences of failure thereof.

CR-1

Subsurface Testing. A program of sub-surface testing shall be conducted to determine whether buried resources are present within the areas of high or high to moderate archaeological sensitivity that will be impacted by Project construction. Only those locations where design confirms that the proposed pipeline would be buried at archaeologically sensitive locations will require subsurface testing. A testing program will be developed to determine the best approach for each location, considering the physical constraints of the urban setting (e.g., structures, traffic). The testing program could consist of multiple core extractions at individual sites; the locations and depths of the bore holes would be determined on the basis of projected depths of excavation at the individual work areas. A qualified archaeologist would monitor the testing efforts, and inspect the cores for prehistoric archaeological site indicators (e.g., chipped chert and obsidian tools, and tool manufacturing waste flakes, grinding implements such as mortars and pestles, and darkened soil that contains dietary debris such as bone fragments and shellfish remains) and historic site indicators (e.g., ceramics, glass, wood, bone, and metal remains). If the findings of the subsurface testing are negative, then no further actions (e.g., further testing or archaeological monitoring) would be recommended as necessary for NHPA Section 106 compliance, although consultation with SHPO would still be needed to formally complete the Section 106 process. If the findings of the

subsurface testing are positive (and avoidance of the archaeological site is not feasible or practicable through project redesign), then a qualified archaeologist will develop an archeological data recovery plan (ADRP) in consultation with the City, the lead Federal agency, the SHPO and other appropriate consulting parties, as applicable, in accordance with the requirements of 36 CFR Part 800. The ADRP shall identify how the proposed data recovery program will be used to evaluate and preserve the significant information the archaeological resource is expected to contain. That is, the ADRP will identify what scientific/historical research questions are applicable to the expected resource, what data classes the resource is expected to possess, and how the expected data classes would address the applicable research questions. Implementation of the ADRP through the development and execution of an appropriate agreement document by the lead Federal agency, the SHPO, the City, and any other identified signatories, would satisfy the requirements of NHPA Section 106 as outlined at 36 CFR § 800.6. Whether the results of subsurface testing are negative or positive, if Federal funding for the Project is approved, full compliance with Section 106 of the NHPA as determined by the lead Federal agency will be required prior to Project construction.

c) Finding. Standard project requirement (Protection of Cultural Resources) would ensure the protection of unrecorded cultural resources and human remains. Mitigation Measure CR-1 requires subsurface testing to determine the presence of cultural resources and actions that must be taken in the event cultural resources are present. Thus, impacts to cultural resources would reduce to less than significant.

d) Remaining Impact. The standard project requirement (Protection of cultural resources) and Mitigation Measure CR-1 specified above would reduce all potential impacts to less than significant. No residual impacts would remain.

Impact c: Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature.

a) Potential Impact. The impact identified above is described and discussed in Section E.4 of the Draft EIR (Appendix E).

b) Mitigation Measures. No mitigation measures are required. The following standard project requirement will be adopted and will be implemented as provided in the MMRP, and as further described in the remainder of these findings:

Standard Project Requirement

Protection of Paleontological Resources: If paleontological resources are discovered during earthmoving activities, the construction crew would immediately cease work near the find. In accordance with Society of

Vertebrate Paleontology guidelines (Society of Vertebrate Paleontology 2010), a qualified paleontologist would assess the nature and importance of the find and recommend appropriate salvage, treatment, and future monitoring and mitigation.

c) Finding. The standard project requirement (Protection of Paleontological Resources) would ensure the protection of unrecorded paleontological resources. Thus, impacts to paleontological resources would be reduced to less than significant.

d) Remaining Impact. The standard project requirement (protection of Paleontological Resource) above would reduce all potential impacts to less than significant. No residual impacts would remain.

3.6 Geology, Soils and Seismicity

Impact a: Expose people or structures to potential substantial adverse effects, including the risk of loss, injury, or death, involving:

- iii. Seismic-related ground failure, including liquefaction?

Impact d: Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?

Impact e: Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial risks to life or property.

a) Potential Impact. The impacts identified above are described and discussed in Section E.5 of the Draft EIR (Appendix E).

b) Mitigation Measures. No mitigation measures are required. The following standard project requirements will be adopted and will be implemented as provided in the MMRP, and as further described in the remainder of these findings:

Standard Project Requirement

Geologic Report for Potentially Affected Facilities: During the design phase for the Project, the City shall require preparation of a Geologic Report by a geologist registered in the State of California for facilities that could be affected by seismic-related hazards or unstable soils (e.g., liquefaction and expansive soils).

The Geologic Report shall include an engineering analysis of liquefaction and the potential for expansive soils at the pump stations. This assessment shall include a liquefaction assessment study in accordance with the California Geological Survey Special Publication 117 Guidelines. If this report finds

unstable soils would present potential risks associated with liquefaction; engineering recommendations for surface and subsurface drainage specifications and detailed design for fill placement and excavation shall be provided.

c) Finding. The standard project requirement (Geologic Report) would ensure that seismicity and unstable soils would be addressed and the risk of loss, injury, or death would reduce to less than significant.

d) Remaining Impact. The standard project requirement above would reduce all potential impacts to less than significant. No residual impacts would remain.

Impact b: Result in substantial soil erosion or the loss of topsoil.

Impact c: Result in substantial siltation.

a) Potential Impact. The impacts identified above are described and discussed in Section E.5 of the Draft EIR (Appendix E).

b) Mitigation Measures. No mitigation measures are required. The following standard project requirement will be adopted and will be implemented as provided in the MMRP, and as further described in the remainder of these findings.

Standard Project Requirement

Best Management Practices – Storm Water Quality (see Impact HYD-1 above)

c) Finding. The standard project requirement (best management practices - stormwater water quality) would ensure that the project would not result in substantial erosion or siltation. Thus, impacts would be reduce to less than significant.

d) Remaining Impact. The standard project requirement above would reduce all potential impacts to less than significant. No residual impacts would remain.

3.7 Hazardous Materials

Impact a: Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials.

Impact b: Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment.

Impact c: Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school.

Impact e: Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?

a) Potential Impact. The impacts identified above are described and discussed in Section E.7 of the Draft EIR (Appendix E).

b) Mitigation Measures. The following standard project requirements will be adopted and will be implemented as provided in the MMRP, and as further described in the remainder of these findings:

Standard Project Requirements

Storage, Handling, and Use of Hazardous Materials in Accordance with Applicable Laws: The City shall ensure that all construction-related hazardous materials and hazardous wastes are stored, handled, and used in a manner consistent with applicable federal, state, and local laws, and the City of Palo Alto's Pollution Prevention plan sheet. In addition, construction-related hazardous materials and hazardous wastes shall be staged and stored away from stream channels and steep banks to keep these materials a safe distance from near-by residents and prevent them from entering surface waters in the event of an accidental release.

Proper Disposal of Contaminated Soil and/or Groundwater: If contaminated soil and/or groundwater is encountered or if suspected contamination is encountered during Project construction, work shall be halted in the area, and the type and extent of the contamination shall be identified. A contingency plan to dispose of any contaminated soil or groundwater would be developed through consultation with appropriate regulatory agencies and consistent with the requirements of the City of Palo Alto's Pollution Prevention plan sheet and RWQCP's permit requirements for discharge of exceptional wastewater to the sanitary sewer.

Health and Safety and Hazardous Materials Management and Spill Prevention Control Plans (see Impact a in Section 3.4, Biological Resources above)

c) Finding. The standard project requirements (use and handling of hazardous materials, proper disposal of contaminated materials, health and safety plan, hazardous materials management plan, and spill prevention control plan) would ensure that the project would not result in substantial hazards. Thus, impacts would be reduced to less than significant.

d) Remaining Impact. The standard project requirements above would reduce all potential impacts to less than significant. No residual impacts would remain.

Impact h: Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan

a) **Potential Impact.** The impact identified above is described and discussed in Section E.7 of the Draft EIR (Appendix E).

b) **Mitigation Measures.** The following standard project requirement will be adopted and will be implemented as provided in the MMRP, and as further described in the remainder of these findings:

Standard Project Requirement

Traffic Control Plan: The City's Transportation Section would require the contractor to have a full traffic control plan prepared by a registered traffic engineer. The traffic control plan shall be in accordance with the City's Traffic Control Requirements and would show specific methods for maintaining traffic flows to minimize construction impacts on traffic and parking. There are several schools in the vicinity of the Project. These areas would be evaluated more closely to determine whether the traffic control plan is appropriate or if additional measures are needed specific to school areas. Examples of traffic control measures to be considered include:

- Identify all roadway locations where special construction techniques (e.g., directional drilling) would be used to minimize impacts to traffic flow;
- Develop circulation and detour plans to minimize impacts to local street circulation. This may include the use of signing and flagging to guide vehicles through and/or around the construction zone;
- Schedule truck trips outside of peak morning and evening commute hours;
- Prohibit construction on collector and arterial streets during morning commute period before 9 a.m. and in the afternoon commute period after 4 p.m.;
- Use haul routes, minimizing truck traffic on local roadways to the extent possible;
- Consider detours for bicycles and pedestrians in all areas potentially affected by Project construction. Pedestrian and bicycle detours should not be required unless deemed necessary for safety reasons;
- Use flagmen to maintain alternating one-way traffic while working on one-half of the street;
- Use advance construction signs and other public notices to alert drivers of activity in the area;
- Use "positive guidance" detour signing on alternate access streets to minimize inconvenience to the driving public;

- Install traffic control devices as specified in the California Department of Transportation Manual of Traffic Controls for Construction and Maintenance Work Zones;
- Develop and implement access plans for highly sensitive land uses such as police and fire stations, transit stations, hospitals and schools. The access plans would be developed with the facility owner or administrator. To minimize disruption of emergency vehicle access, ask affected jurisdictions to identify detours, which would then be posted by the contractor. Notify in advance the facility owner or operator of the timing, location, and duration of construction activities and the locations of lane closures;
- Store construction materials only in designated areas; and
- Coordinate with local transit agencies for temporary relocation of routes or bus stops in work zones, as necessary.
- Establish methods for minimizing for construction effects on parking (e.g., identifying designated areas for construction worker parking at staging areas).

c) Finding. The standard project requirement (traffic control plan) would ensure that the project would not result in traffic hazards. Thus, impacts would be reduce to less than significant.

d) Remaining Impact. The standard project requirement above would reduce all potential impacts to less than significant. No residual impacts would remain.

3.8 Noise

Impact a: The Proposed Project could expose persons to or generate noise levels in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies.

Impact c: The Proposed Project could create a substantial permanent increase in ambient noise in the project vicinity above levels existing without the project.

Impact d: The Proposed Project could create a substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project.

Impact g: The Proposed Project could cause the average 24 hour noise level (Ldn) to increase by 5.0 decibels (dB) or more in an existing residential area, even if the Ldn would remain below 60 dB.

Impact h: The Proposed Project could cause the Ldn to increase by 3.0 dB or more in an existing residential area, thereby causing the Ldn in the area to exceed 60 dB.

Impact i: The Proposed Project could cause an increase of 3.0 dB or more in an existing

residential area where the Ldn currently exceeds 60 dB.

Impact j: The Proposed Project could result in indoor noise levels for residential development to exceed an Ldn of 45 dB.

Impact k: The Proposed Project could result in instantaneous noise levels of greater than 50 dB in bedrooms or 55 dB in other rooms in areas with an exterior Ldn of 60 dB or greater.

Impact l: The Proposed Project could generate construction noise exceeding the daytime background Leq at sensitive receptors by 10 dBA or more.

a) Potential Impact. The impacts identified above are described and discussed in Section E.10 of the Draft EIR (Appendix E).

b) Mitigation Measures. The following standard project requirements and mitigation measures will be adopted and will be implemented as provided in the MMRP, and as further described in the remainder of these findings:

Standard Project Requirements

Compliance with Local Noise Ordinance: According to the City of Palo Alto's Noise Ordinance (Palo Alto Municipal Code Chapter 9.10), for residential and non-residential property, construction, alteration and repair activities which are authorized by a valid city building permit shall be prohibited on Sundays and holidays and shall be prohibited except between the hours of 8:00 a.m. and 6:00 p.m. Monday through Friday, and 9:00 a.m. and 6:00 p.m. on Saturday, provided that the construction, demolition or repair activities during those hours meet the following standards:

- No individual piece of equipment shall produce a noise level exceeding 110 dBA at a distance of 25 feet. If the device is housed within a structure on the property, the measurement shall be made outside the structure at a distance as close to 25 feet from the equipment as possible.
- The noise level at any point outside of the property plane of the Project shall not exceed 110 dBA.
- The holder of a valid construction permit for a construction project in a non-residential zone shall post a sign at all entrances to the construction site upon commencement of construction, for the purpose of informing all contractors and subcontractors, their employees, agents, materialmen and all other persons at the construction site, of the basic requirements of this measure.
 - The sign(s) shall be posted at least five feet above ground level, and shall be of a white background, with black lettering,

which lettering shall be a minimum of one and one-half inches in height.

- The sign shall read as follows:

CONSTRUCTION HOURS

FOR RESIDENTIAL (OR NON-RESIDENTIAL) PROPERTY

(Includes Any and All Deliveries)

MONDAY - FRIDAY.....8:00 a.m. to 6:00 p.m.

SATURDAY.....9:00 a.m. to 6:00 p.m.

SUNDAY/HOLIDAYS.....Construction prohibited.

Pump Station Design/Noise: For the pump station at the Mayfield Soccer Fields, a detailed analysis of the buildings' sound isolation would be conducted by a qualified acoustical consultant during the engineering design phase of the project. A post-construction field sound measurement shall be conducted by an acoustical consultant to verify that the project operational noise standards are in compliance with relevant City noise standards.

NOI-1

Noise Control Measures to Reduce Construction Noise: Noise Control Measures to Reduce Construction Noise. The City shall incorporate into contract specifications all of the following measures:

- Impact equipment (e.g., jack hammers, pavement breakers, and rock drills) used for project construction will be hydraulically or electrically powered whenever possible to avoid noise associated with compressed air exhaust from pneumatically powered tools. However, where use of pneumatically powered tools is unavoidable, an exhaust muffler on the compressed air exhaust would be used. This muffler can lower noise levels from the exhaust by up to 10 dBA. External jackets on the tools themselves would be used where feasible, and this could achieve a reduction of 5 dBA. Quieter procedures will be used such as drilling rather than impact equipment whenever feasible.
- Wherever possible, sonic or vibratory pile drivers will be used instead of impact pile drivers. If sonic or vibratory pile drivers are not feasible, acoustical enclosures will be provided as necessary to reduce noise levels. Engine and pneumatic exhaust controls on pile drivers will be required as necessary to ensure that exhaust noise from pile driver engines are minimized to the extent feasible. Where feasible, pile holes will be pre-drilled to reduce potential noise and vibration impacts.
- All equipment and trucks used for project construction shall use the best available noise control techniques (including mufflers, use of

intake silencers, ducts, engine enclosures and acoustically attenuating shields or shrouds) and be maintained in good operating condition to minimize construction noise impacts. All internal combustion engine-drive equipment shall be fitted with intake and exhaust mufflers which are in good condition.

- Unnecessary idling of internal combustion engines shall be prohibited. In practice, this would mean turning off equipment if it would not be used for five or more minutes.
- Stationary noise-generating construction equipment, such as air compressors and generators, shall be located as far as possible from homes and businesses.
- Staging areas shall be located as far as feasibly possible from sensitive receptors.

NOI-2

Pre-Construction Notification: Prior to construction, written notification to residents within 500 feet of the proposed facilities undergoing construction shall be provided, identifying the type, duration, and frequency of construction activities. Notification materials shall also identify a mechanism for residents to register complaints with the City if construction related noise impacts should occur.

NOI-3

Design of the Pump Station to Reduce Noise: To ensure the proposed pump station complies with the City's noise standards, structure openings, including air ventilation would employ acoustical rated louvers, silencers, or other noise-reduction devices, as appropriate, to reduce noise propagation to the outside of the building.

c) **Finding.** The standard project requirements (compliance with local noise ordinance and pump station design/noise) would ensure that construction is conducted during appropriate hours and that operational noise standards are in compliance with relevant City noise standards. Mitigation Measure NOI-1 requires specific noise control measures to be included in contract specifications; Mitigation Measure NOI-2 requires that residents near the project site be notified of the construction and provided with a mechanism for registering complaints about construction-related noise; Mitigation Measure NOI-3 requires that the pump station be designed and constructed to incorporate noise reduction devices. Combined, these standard project requirement and mitigation measures would reduce noise related impacts to less than significant.

d) **Remaining Impact.** The standard project requirement and mitigation measures above would reduce all potential impacts to less than significant. No residual impacts would remain.

3.8 Transportation and Traffic

Impact a: The Proposed Project could exceed the capacity of the existing circulation system, based on an applicable measure of effectiveness (as designed in a general plan, policy, ordinance, etc.), taking into account all relevant components of the circulation system, including but not limited to intersections, streets, highways and freeways, pedestrian and bicycle paths, and mass transit.

Impact b: The Proposed Project could conflict with an applicable congestion management program, including but not limited to level of service standards and travel demand measures, or other standards established by the county congestion management agency for designated roads or highways.

a) Potential Impact. The impacts identified above are described and discussed in Section E.14 of the Draft EIR.

b) Mitigation Measures. The following mitigation measures will be adopted and will be implemented as provided in the MMRP, and as further described in the remainder of these findings:

TRA-1 CMP Facilities: The City shall work with VTA to determine when peak hour traffic starts on Page Mill Road, a CMP facility. If peak hour traffic starts around 3 p.m. on this road, then the City shall prohibit construction on this roadway after 3 p.m.

c) Finding. Mitigation Measure TRA-1 requires that construction be limited to the hours outside of determined peak hour traffic, thus reducing traffic related impacts to less than significant.

d) Remaining Impact. The standard project requirement above would reduce all potential impacts to less than significant. No residual impacts would remain.

Impact d: Substantially increase hazards due to a design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)

Impact e: Result in inadequate emergency access.

Impact g: Conflict with adopted policies, plans, or programs supporting alternative transportation (e.g., pedestrian, transit & bicycle facilities)

Impact n: Impede the development or function of planned pedestrian or bicycle facilities

Impact o: Impede the operation of a transit system as a result of congestion

a) Potential Impact. The impacts identified above are described and discussed in

Section E.14 of the Draft EIR (Appendix E).

b) Mitigation Measures. No mitigation measures are required. The following standard project requirement will be adopted and will be implemented as provided in the MMRP, and as further described in the remainder of these findings:

Standard Project Requirements

See **Traffic Control Plan** See Impact b, c e, and h above (Section 3.7 above).

c) Finding. Standard project requirement (traffic control plan) requires measures to maintain traffic flows and emergency access and ensure coordination with transit agencies, thus reducing traffic related impacts to less than significant.

d) Remaining Impact. The standard project requirement above would reduce all potential impacts to less than significant. No residual impacts would remain.

Impact f: Result in inadequate parking capacity that impacts traffic circulation and air quality

a) Potential Impact. The impact identified above is described and discussed in Section E.14 of the Draft EIR (Appendix E).

b) Mitigation Measures. The following mitigation measure will be adopted and will be implemented as provided in the MMRP, and as further described in the remainder of these findings:

TRA-2 **Coordinate Construction with Businesses:** To reduce the disruption of business from the temporary reduction of parking, the City shall coordinate with individual businesses on the timing of construction.

c) Finding. Mitigation Measure TRA-2 requires that local businesses be notified of the timing of construction and that the City coordinate with those businesses as it relates to the temporary reduction in parking, thus reducing traffic related impacts to less than significant.

d) Remaining Impact. The standard project requirement above would reduce all potential impacts to less than significant. No residual impacts would remain.

SECTION 6. Findings Regarding Project Alternatives

Public Resources Code section 21002 prohibits a public agency from approving a project if there are feasible alternatives or feasible mitigation measures available which would substantially lessen the significant environmental effects of the project. When a lead agency

finds, even after the adoption of all feasible mitigation measures, that a project will still cause one or more significant environmental effects that cannot be substantially lessened or avoided, it must, prior to approving the project as mitigated, first determine whether there are any project alternatives that are feasible and that would substantially lessen or avoid the project's significant impacts.

Because all of the Project's impacts are being mitigated through the adoption of mitigation measures described above, and because the Project will thus not result in any significant environmental effects, the City Council finds that there is no need to further consider the feasibility of any of the alternatives identified in the Final EIR.

SECTION 7. Statement of Overriding Considerations

The City Council is not required to adopt a Statement of Overriding Considerations pursuant to Public Resources Code Section 21081 and Section 15093 of the CEQA Guidelines as all identified environmental impacts associated with the proposed Project can be mitigated to less than significant levels as discussed above and the Final EIR.

INTRODUCED AND PASSED: September 28, 2015

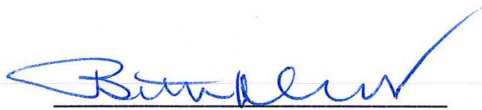
AYES: Berman, Burt, Filseth, Holman, Kniss, Scharff, Schmid, Wobach

NOES:

ABSENT:

ABSTENTIONS: DuBois

ATTEST:



City Clerk



Mayor

APPROVED AS TO FORM:

DocuSigned by:
Cara Silver

C2CEDD84ABC3429...
Senior Assistant City Attorney

APPROVED:

DocuSigned by:
J. K. J. J.

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City Manager

DocuSigned by:
Hillary Gitelman

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Director of Planning and
Community Environment

EXHIBIT A

MITIGATION MONITORING AND REPORTING PROGRAM

**RECYCLED WATER PROJECT
ENVIRONMENTAL IMPACT REPORT**
State Clearinghouse No. 2011062037



CITY OF PALO ALTO

JULY 2015

P R E F A C E

Section 21081 of the California Environmental Quality Act (CEQA) requires a Lead Agency to adopt a Mitigation Monitoring or Reporting Program whenever it approves a project for which measures have been required to mitigate or avoid significant effects on the environment. The purpose of the monitoring or reporting program is to ensure compliance with the mitigation measures during project implementation.

The Environmental Impact Report concluded that that all identified environmental impacts associated with the proposed Project can be mitigated to less than significant levels, either with the implementation of standard project requirements proposed as part of the Project and/or mitigation measures identified in the analysis, and that no significant unavoidable impacts would occur from proposed Project implementation. This Mitigation Monitoring or Reporting Program addresses the required measures in terms of how and when they will be implemented.

**City of Palo Alto Recycled Water Project
MITIGATION MONITORING AND REPORTING PLAN**

Item Number	Impact Summary	Mitigation No. ²	Standard Project Requirement/Mitigation Measure (Exact Text)	Monitoring and Reporting Plan				
				Implementation and Reporting		Monitoring and Reporting Actions	Implementation Schedule	Verification: Status/ Date Completed/ Initials
				Responsible Party	Review & Approval			
HYDROLOGY								
HYD-1	Have the potential violation of water quality standards and/or waste discharge requirements or otherwise substantially degrade water quality?	--	Best Management Practices – Storm Water Quality The City shall require contractors to file a Notice of Intent with the Regional Water Quality Control Board (RWQCB) indicating compliance with the National Pollutant Discharge Elimination System (NPDES) General Permit for Discharges of Storm Water Runoff Associated with Construction Activity (General Permit) and to prepare and implement a Stormwater Pollution Prevention Plan (SWPPP) outlining BMPs for construction/post-construction activities as specified by the City of Palo Alto's Pollution Prevention plan sheet, the California Stormwater Best Management Practices Handbook and/or the Association of Bay Area Governments' Manual of Standards for Erosion and Sediment Control Measures. The BMPs include measures guiding the management and operation of construction sites to control and minimize the potential contribution of pollutants to stormwater runoff from these areas. These measures address	City of Palo Alto and its contractors	City of Palo Alto	1. Include in plans and specifications. 2. Document contractor compliance with plans and specifications.	1. Pre-construction 2. Construction	1. _____ 2. _____

² Any cells marked "--" indicates a standard project requirement, which has no mitigation measure number.

			<p>procedures for controlling erosion and sedimentation, and managing all aspects of the construction process to ensure control of potential water pollution sources. Erosion and sedimentation control practices typically include:</p> <ul style="list-style-type: none"> • Performing equipment maintenance at least 100 feet from all water bodies and wetlands, with measures in place to contain spills of diesel fuel, gasoline, or other petroleum products. • Directing drainage from all work sites away from any water bodies or wetlands where feasible; • Preventing erosion of uplands and sedimentation of creeks, tributaries, and ponds; • Minimizing creek bank instability; • Preventing flooding; and • Returning grades to preconstruction contours. • Installation of silt fencing and/or straw wattle; • Soil stabilization; • Revegetation of graded and fill areas with a standard erosion control mix (approved by a native habitat restorationist); • Runoff control to limit increases in sediment in stormwater runoff (e.g., straw bales, silt fences, drainage swales, geofabrics, check dams, and sand bag dikes); <p>A SWPPP that complies with the statewide General Permit shall be developed and implemented to protect water quality of the creeks that lie in the study area. Appropriate</p>					
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			erosion and sediment control and non-sediment pollution control (i.e., sources of pollution generated by construction equipment and material) BMPs shall be prescribed in the SWPPP, and erosion and sediment control material included in the SWPPP shall be certified as weed free. Dewatering operations are covered under the General Construction Permit as an authorized non-stormwater discharge. The discharge from dewatering operations would be evaluated and made part of the Project SWPPP. In addition, the Project shall comply with RWQCB regulations and standards to maintain and improve the quality of both surface water and groundwater resources.					
HYD-1	Have the potential violation of water quality standards and/or waste discharge requirements or otherwise substantially degrade water quality?	--	Frac-Out Plan <ul style="list-style-type: none"> • Prior to constructing underground crossings of creeks or channels, a Frac-out Contingency Plan shall be developed. At minimum, the plan shall prescribe the measures to ensure protection of water quality and related biological resources (e.g., aquatic resources, and special-status plants and wildlife) including: <ul style="list-style-type: none"> • Procedures to minimize the potential for a frac-out associated with horizontal directional drilling; • Procedures for timely detection of frac-outs; • Procedures for timely response and remediation in the event a frac-out; and • Monitoring of drilling and frac-out response activities by a qualified biologist. 	City of Palo Alto and its contractors	City of Palo Alto	1. Verify that Frac-Out Contingency Plan is developed and that measures are outlined in the plans and specifications. 2. Monitor construction activities to verify that measures are implemented during construction.	1. Pre-construction 2. Construction	1. _____ 2. _____
HYD-1	Have the potential violation of water quality standards and/or waste	--	Discharge of Exceptional Wastewater Hydrostatic test water and water collected from dewatering activities (including contaminated water) are discharged to the sanitary sewer with	City of Palo Alto	City of Palo Alto	1. Verify that permit is obtained. 2. Confirm that	1. Pre-construction 2. Construction	1. _____ 2. _____

	discharge requirements or otherwise substantially degrade water quality?		an Exceptional Waste Discharge Permit from RWQCB. The permit requires chemical constituents to be sampled and identifies limits for these constituents. To minimize impacts to water quality, the City shall obtain an Exceptional Wastewater Permit prior to discharge of such waters into the sanitary sewer.	and its contractors		water is discharged appropriately.		
HYD-2	Have the potential to substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, in a manner which would result in substantial erosion or siltation on- or off-site?	--	See above for HYD-1 information.					
HYD-3	Have the potential to result in the substantial decline in health of redwood trees and other salt-sensitive plant species?	HYD-3a	Mitigation Measure HYD-3a: Source Control of Saline Groundwater. The City shall continue to line and repair existing sewers to minimize saline groundwater infiltration.	City of Palo Alto	City of Palo Alto	1. For anticipated lining/repair projects identified in the EIR initiated by the City and any other future City projects that would minimize saline infiltration, confirm funding available for the work. 2. Retain the as-built drawings of the project in the project file.	1. Ongoing (throughout the life of this project) 2. Ongoing	1. _____ 2. _____
HYD-3	Have the potential to	HYD-3b	Mitigation Measure HYD-3b: Monitoring:	City	City	1. Monitor salinity	1. Monthly, for two	1. _____

	result in the substantial decline in health of redwood trees and other salt-sensitive plant species?		The City shall immediately begin monthly monitoring of the salinity (and related constituents) of the recycled water and shall report the rolling 12-month average for comparison to the Palo Alto City Council goal of 600 mg/l TDS. Monthly electronic reporting to those requesting it will be performed for two years, and then the frequency will be re-evaluated. The City shall monitor soil salinity and SAR through semi-annual soil analyses, preferably taken early and late in the irrigation season (approximately April and October).	of Palo Alto	of Palo Alto	(and related constituents) monthly. 2. Retain transmittal of results to those requesting this information. 3. Document salinity monitoring and reporting and retain in the project file.	years (recycled water). The frequency will be reevaluated thereafter. 2. Ongoing 3. Semiannually for two years. The frequency will be reevaluated thereafter. Retaining information will be ongoing.	2. _____ 3. _____
HYD-3	Have the potential to result in the substantial decline in health of redwood trees and other salt-sensitive plant species?	HYD-3c	<p>Mitigation Measure HYD-3b: Site Management: If at a particular site receiving recycled water, monitoring identifies an increase in soil salinity and SAR over historical levels, the City in cooperation with the owner of that site shall conduct a site-specific evaluation. That evaluation would consider (1) the extent to which the site contains protected trees (including redwood trees and oaks) that might be impacted by soil salinity, (2) the extent to which the elevated salinity is at a level that poses a threat to such protected trees, and (3) the extent to which the elevated salinity is the result of the use of the City's recycled water. If a threat is found, the City shall work cooperatively with the site owner to develop a site-specific mitigation plan, including the site owner's implementation of best management practices which are described below:</p> <ul style="list-style-type: none"> To avoid plant damage to salt sensitive landscape plants, site owners can implement a leaching program to maintain soil salinity within the root zone below 2.0 dS/m and SAR below 6.0. For moderately salt-tolerant plants, 	Site owners	City of Palo Alto	1. Include requirements in use agreements for recycled water. 2. Confirm site owners implement BMPs if deemed necessary by the site owners in inspection reports. 3. Retain inspection reports in the project file.	1. Ongoing 2. Ongoing 3. Ongoing	1. _____ 2. _____ 3. _____

			<p>maintain soil salinity below 4.0 dS/m. Where subsoils do not drain adequately, installation of subsurface drainage systems may be needed. Rainfall will satisfy a portion of the leaching requirement, depending on the rate, volume, and distribution through the season. The frequency with which leaching applications should be made depends on several variables, and is typically triggered by approaching soil salinity thresholds defined above.</p> <ul style="list-style-type: none"> Site owners can apply gypsum prior to leaching when indicated by soil analysis. Gypsum is a soil amendment that, when combined with leaching, helps lower soil sodium concentrations. Gypsum application can be considered when soil analyses reveal one or more of the following conditions: SAR exceeds 6.0, SAR increases 2 units or more (e.g., 2.3 to 4.3), and/or sodium concentration exceeds 5 meq/l (115 mg/L). The amount of gypsum needed and the frequency of application depend on site-specific soil and water characteristics, and can be determined by laboratory analysis. 					
HYD-3	Have the potential to result in the substantial decline in health of redwood trees and other salt-sensitive plant species?	HYD-3d	<p>Mitigation Measure HYD-3d: Other Options to Protect Salt-Sensitive Plants. In the event that monitoring results (see Mitigation Measure HYD-3b) show that optimal concentrations of TDS and related parameters will not be achieved prior to operation of the Project (i.e., recycled water application), the City will evaluate and implement one or more of the following actions to reduce TDS levels:</p> <ul style="list-style-type: none"> Utilize its existing Recycled Water 	City of Palo Alto	City of Palo Alto	<ol style="list-style-type: none"> Initiate the investigation of the feasibility of Reverse and Forward Osmosis treatment of its recycled water, combined with blending of 	<ol style="list-style-type: none"> Upon certification of the EIR and approval of the Project Upon completion of the investigation, prior to construction. Prior to and 	1. _____

			<p>Ordinance exemption process (Palo Alto Municipal Code 16.12.050) to exempt redwood trees (and/or other salt sensitive species) from the use of recycled water;</p> <ul style="list-style-type: none"> Blend Recycled Water and other lower salinity water prior to application; and/or Treat recycled water to reduce TDS prior to application, or shortly thereafter (the City is initiating an investigation of the feasibility of Reverse or Forward Osmosis treatment of its recycled water, combined with blending of appropriate water). 			<p>appropriate.</p> <ol style="list-style-type: none"> Retain final technical document in project file. If the Project proceeds and TDS and optimal concentrations of TDS and related parameters are not achieved, document implementation of selected option. 	during operation (if necessary)	<p>2. _____</p> <p>3. _____</p>
ASETHETICS								
AES-1	Have a substantial degradation of the existing visual character or quality of the site and its surroundings or on a public view or view corridor?	--	<p>Compliance with the Tree Technical Manual</p> <p>The City of Palo Alto Tree Technical Manual (Dockter 2001) is a separately published document issued by the City Manager, through the Departments of Planning and Community Environment and Public Works to establish specific technical regulations, standards and specifications necessary to implement the Tree Ordinance (Chapter 8.10, Tree Preservation and Management Regulations), and to achieve the City's tree preservation goals and natural resource conservation goals.</p> <p>Section 2.00 specifically addresses the protection of trees during construction; its objective is to reduce the negative impacts of construction on trees to a less than significant level.</p> <p>Construction projects within the tree protection zone (TPZ) of Regulated Trees are required to</p>	City of Palo Alto and its contractors	City of Palo Alto	<ol style="list-style-type: none"> Document completion of Tree Protection and Preservation Plan. Document compliance with requirements of 2.00 and 3.00 of the City of Palo Alto Tree Technical Manual. 	<ol style="list-style-type: none"> Pre-construction Pre-construction/ Construction 	<p>1. _____</p> <p>2. _____</p>

			<p>implement protective practices prior to and during construction. The City would be required to retain a certified arborist to prepare a Tree Protection and Preservation Plan if any activity is within the dripline of a Protected or Designated Tree. The Plan must include an assessment of impacts to trees, recommended mitigation to reduce impacts to a less than significant level, and identification of construction guidelines to be followed through all phases of a construction project.</p> <p>Section 3.00 of the Tree Technical Manual outlines requirements associated with the removal and replacement of regulated trees. The standards and specifications for replacements of trees are dependent on the location where a Protected or Designated Tree would be replaced. If a tree is to be replaced on site, the replacement tree must be the same species unless the Director determines that another species would be more suitable for the location. The location of the replacement tree on site must be approved by the Director. If it is not possible to replace the tree on site, funding for the replacement of trees is calculated using a Tree Value Replacement Standard. The funding is then applied for planting of trees elsewhere.</p>					
AES-1	Have a substantial degradation of the existing visual character or quality of the site and its surroundings or on a public view or view corridor?	--	<p>Architectural Review and Site and Design Review</p> <p>Architectural Review and/or Site and Design review will be required for all exterior modifications, including hanging pipes, pump stations, and landscaping. The individual components will require approval by the City's Architectural Review Board (ARB) for architectural review, and by the planning commission, ARB, and City Council for site and design review prior to project implementation.</p>	City of Palo Alto and its contractors	City of Palo Alto	1. Document completion of Architectural Review and/or Site and Design review.	1. Pre-construction	1. _____

AES-1	Have a substantial degradation of the existing visual character or quality of the site and its surroundings or on a public view or view corridor?	HYD-3a	See above for HYD-3a information.
AES-1	Have a substantial degradation of the existing visual character or quality of the site and its surroundings or on a public view or view corridor?	HYD-3b	See above for HYD-3b information.
AES-1	Have a substantial degradation of the existing visual character or quality of the site and its surroundings or on a public view or view corridor?	HYD-3c	See above for HYD-3c information.
AES-1	Have a substantial degradation of the existing visual character or quality of the site and its surroundings or on a public view or view corridor?	HYD-3d	See above for HYD-3d information.

AES-1	Have a substantial degradation of the existing visual character or quality of the site and its surroundings or on a public view or view corridor?	AES-1	Mitigation Measure AES-1: Restoration to Pre-construction Conditions. The City shall require its contractors to restore disturbed areas to their pre-construction conditions, to the extent consistent with pipeline operations, so that short-term construction disturbance does not result in long-term visual impacts.	City of Palo Alto or its contractor	City of Palo Alto	1. Include in plans and specifications. 2. Document contractor has complied with plans and specifications.	1. Design 2. Post-Construction	1. _____ 2. _____
AIR QUALITY								
Item b	Violate any air quality standard or contribute substantially to an existing or projected air quality violation?	--	Bay Area Air Quality Management District (BAAQMD) Dust Control Measures The following basic construction measures are identified by BAAQMD and shall be incorporated into contract specifications and implemented by the contractor. <ul style="list-style-type: none"> • All exposed surfaces (e.g., parking areas, staging areas, soil piles, graded areas, and unpaved access roads) shall be watered two times per day; • All haul trucks transporting soils, sand, or other loose material off-site shall be covered; • All visible mud or dirt track-out onto adjacent public roads shall be removed using wet power vacuum street sweepers at least once per day. The use of dry power sweeping is prohibited; • All vehicle speeds on unpaved roads shall be limited to 15 mph • All roadways, driveways, and sidewalks to be paved shall be completed as soon as possible. Building pads shall be laid as soon as possible after grading unless seeding or soil binders are used; • Idling times shall be minimized either 	City of Palo Alto and its contractors	City of Palo Alto	1. Include in plans and specifications. 2. Document contractor has complied with plans and specifications.	1. Design 2. Construction	1. _____ 2. _____

			<p>by shutting equipment off when not in use or reducing the maximum idling time to 5 minutes (as required by the California airborne toxics control measure Title 13, Section 2485 of California Code of Regulations). Clear signage shall be provided for construction workers at all access points.</p> <ul style="list-style-type: none"> • All construction equipment shall be maintained and properly tuned in accordance with manufacturer's specifications. All equipment shall be checked by a certified visible emissions evaluator. • Post a publicly visible sign with telephone number and person to contact at the lead agency regarding dust complaints. This person shall respond and take corrective action within 48 hours. The Air District's phone number shall also be visible to ensure compliance with applicable regulations. <p>The following additional construction mitigation measures identified by BAAQMD shall be incorporated into contract specifications and implemented by the contractor, to supplement the proposed standard project requirement.</p> <ul style="list-style-type: none"> • All exposed surfaces shall be watered at a frequency adequate to maintain minimum soil moisture of 12 percent. Moisture content can be verified by lab samples or moisture probe. • All excavation, grading, and/or demolition activities shall be suspended when average wind speeds exceed 20 mph. 					
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			<ul style="list-style-type: none"> • Wind breaks (e.g., trees, fences) shall be installed on the windward side(s) of actively disturbed areas of construction. Wind breaks should have at maximum 50 percent air porosity. • Vegetative ground cover (e.g., fast-germinating native grass seed) shall be planted in disturbed areas as soon as possible and watered appropriately until vegetation is established. • The simultaneous occurrence of excavation, grading, and ground-disturbing construction activities on the same area at any one time shall be limited. Activities shall be phased to reduce the amount of disturbed surfaces at any one time. • All trucks and equipment, including their tires, shall be washed off prior to leaving the site. • Site accesses to a distance of 100 feet from the paved road shall be treated with a 6 to 12 inch compacted layer of wood chips, mulch or gravel. • Sandbags or other erosion control measures shall be installed to prevent silt runoff to public roadways from sites with a slope greater than one percent. • Idling time of diesel powered construction equipment shall be minimized to two minutes. • The project shall develop a plan demonstrating that off-road equipment (more than 50 horsepower) to be used in the construction project (i.e., owned, leased, and subcontractor vehicles) would achieve a project wide fleet- 					
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			<p>average 20 percent NOx reduction and 45 percent PM reduction compared to the most recent ARB fleet average. Acceptable options for reducing emissions include the use of late model engines, low-emission diesel products, alternative fuels, engine retrofit technology, after-treatment products, add-on devices such as particulate filters, and/or other options as such become available.</p> <ul style="list-style-type: none"> • Use low VOC (i.e., ROG) coatings beyond the local requirements (i.e., Regulation 8, Rule 3: Architectural Coatings). • All construction equipment, diesel trucks and generators shall be equipped with Best Available Control Technology for emission reductions of NOx and PM. • All contractors shall use equipment that meets CARB's most recent certification standard for off-road heavy duty diesel engines. 					
Item c	Have the potential to result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard (including releasing emissions which exceed quantitative	--	See Item b above for Bay Area Air Quality Management District (BAAQMD) Dust Control Measures					

	thresholds for ozone precursors)?							
Item d	Have the potential to expose sensitive receptors to substantial levels of toxic air contaminants?	--	See Item b above for Bay Area Air Quality Management District (BAAQMD) Dust Control Measures					
Items b, c, d	<p>Violate any air quality standard or contribute substantially to an existing or projected air quality violation?</p> <p>Have the potential to result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors)?</p> <p>Have the potential to expose sensitive receptors to substantial levels of toxic air</p>	AIR-1	<p>Mitigation Measure AIR-1. Two Crew Construction of Proposed Pipeline (using open trench construction technique) and Pump Station Restrictions.</p> <p>To ensure NOx emissions do not exceed the BAAQMD threshold, the City shall either:</p> <ol style="list-style-type: none"> 1. Incorporate into contract specifications the requirement for contractors to limit open trench construction of the proposed pipeline to one crew (rather than two crews) and sequence the pump station construction so that it would be constructed one at a time, not concurrent with any other activity; or 2. Upon refinement of the construction details and assumptions for equipment use, dimensions of the trenches, rate of construction, backfill volume, the City shall rerun the air quality model analysis to confirm whether simultaneous construction of the proposed pipeline or pump stations would result in exceedance of BAAQMD NOx emissions threshold. If NOx threshold is exceeded, then the City shall implemented item 1 above. If NOx threshold is not exceeded, then the City would be able to proceed with concurrent construction of two pipelines (using open trench construction) / two pump stations 	City of Palo Alto and its contractor	City of Palo Alto	<ol style="list-style-type: none"> 1. Document construction method to be used. 2. Confirm that appropriate limitations have been included in plans and specifications. 3. Include in plans and specifications the appropriate method for sequencing / limiting construction, as needed. If thresholds are not exceeded, the City may proceed with construction using two crews. If thresholds are exceeded, sequence / limit construction such that NO_x 	<ol style="list-style-type: none"> 1. Facility Planning / Design 2. Design 3. Construction 	<ol style="list-style-type: none"> 1. _____ 2. _____ 3. _____

	contaminants?		accordingly.			emissions thresholds are not exceeded. 4. Document contractor has complied with plans and specifications.		4. _____
BIOLOGICAL RESOURCES								
Item a	Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?	--	Health and Safety and Hazardous Materials Management and Spill Prevention Control Plans The City shall require the contractor to prepare a Health and Safety Plan and Hazardous Materials Management and Spill Prevention and Control Plan prior to commencement of construction that includes a project-specific contingency plan for hazardous materials and waste operations. The Health and Safety Plan shall be applicable to all construction activities, and shall establish policies and procedures according to federal and California Occupational Safety and Health Administration (OSHA) regulations for hazardous materials Health and Safety Plans, and the City of Palo Alto's Pollution Prevention plan sheet. Elements of the plan shall include, but not be limited to, the following: <ul style="list-style-type: none"> • Discussion of hazardous materials management, including delineation of hazardous material storage areas, access and egress routes, waterways, emergency assembly areas, and temporary hazardous waste storage 	City of Palo Alto and its contractors	City of Palo Alto	1. Document that requirement is included in plans and specifications. 2. Document contractor has complied with the plans and specifications.	1. Design 2. Construction	1. _____ 2. _____

			areas; <ul style="list-style-type: none"> • Notification and documentation of procedures; and • Spill control and countermeasures, including employee spill prevention/response training. 					
Item a	Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?	--	See HYD-1 for Best Management Practices – Stormwater Quality					
Item b	Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations, including federally protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal pool, coastal, etc.) through	--	See Biological Resources, Item a above					

	direct removal, filling, hydrological interruption, or other means?							
Item d	Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or as defined by the City of Palo Alto's Tree Preservation Ordinance (Municipal Code Section 8.10)?	--	See Biological Resources, Item a above See AES-1 above for Compliance with the Tree Technical Manual					
Items a, b, d	<p>Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?</p> <p>Have a substantial adverse effect on any riparian habitat or other sensitive natural community</p>	BIO-1	<p>Mitigation Measure BIO-1: Protection of Sensitive Habitats and Jurisdictional Features. The proposed project has been designed to avoid impacts to sensitive habitats, including jurisdictional wetlands and waters. However, indirect impacts to jurisdictional waters could occur as a result of the proposed project. The following general measures will be implemented during the construction and operation of the proposed project to minimize indirect impacts to sensitive habitats and jurisdictional features:</p> <ul style="list-style-type: none"> All construction equipment will use identified staging areas and access roads located in upland areas. When accessing work sites, travel and parking of vehicles and equipment will be limited to pavement, existing roads, and previously disturbed areas (except where overland travel is required). Construction workers will not be allowed to enter sensitive areas that 	<p>1, 2. City of Palo Alto or its contractor</p> <p>2. Contractor</p> <p>3, 4. City of Palo Alto</p>	City of Palo Alto	<p>1. Document that requirements are included in plans and specifications. Confirm measures are implemented.</p> <p>2. Inspect construction sites to confirm plans and specifications implemented during construction.</p> <p>3. Inspect construction sites to confirm plans and specifications implemented after</p>	<p>1. Design</p> <p>2. Construction</p> <p>3. Post-Construction, before operation.</p>	<p>1. _____</p> <p>2. _____</p> <p>3. _____</p>

	<p>identified in local or regional plans, policies, regulations, including federally protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?</p> <p>Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or as defined by the City of Palo Alto's Tree Preservation Ordinance (Municipal Code Section 8.10)?</p>		<p>have been fenced or staked.</p> <ul style="list-style-type: none"> • Ground disturbance and vegetation removal will not exceed the minimum amount necessary to complete work at the site. • The following BMPs shall be incorporated into the SWPPP as protective measures to address wind- or water-related erosion: <ul style="list-style-type: none"> ○ No discharge of pollutants from vehicle and equipment cleaning will be allowed into storm drains, wetlands, or water courses. ○ No vehicles may be refueled within 100 feet of wetlands, streams, or other waterways. Vehicles operating adjacent to wetlands and waterways must be inspected and maintained daily to prevent leaks. ○ Waste facilities will be maintained. Waste facilities include concrete wash-out facilities, portable toilets, and hydraulic fluid containers. Waste will be removed to a proper disposal site. • After construction is completed, a final cleanup will include removal of all stakes, temporary fencing, flagging, and other refuse generated by construction. 			construction is completed.		
Items a, d	Have a substantial adverse effect, either directly or through habitat modifications,	BIO-2	Mitigation Measure BIO-2: Protection of CRLF. Construction activities associated with the creek crossing (Matadero Creek near Deer	City of Palo Alto	City of Palo	1. Confirm requirement is included in plans and	1. Design 2. Construction	1. _____

	<p>on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?</p> <p>Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or as defined by the City of Palo Alto's Tree Preservation Ordinance (Municipal Code Section 8.10)?</p>		Creek Road) will be limited to the dry season (generally April 15 to October 15) to the extent feasible.	or its contractor	Alto	<p>specifications.</p> <p>2. Confirm construction occurs in compliance with plans and specifications.</p>		2. _____
Items a, d	Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California	BIO-3	<p>Mitigation Measure BIO-3: Employee Education Program (required for CRLF, BUOW, and CCR if preconstruction surveys determine they are present). An employee education program will be conducted by a qualified biologist, consisting of a brief presentation to explain special-status species concerns to contractors, their employees, and any other personnel involved in the project. The program will include the following: a description of relevant special-status species and their habitat needs as they</p>	<p>1. City of Palo Alto or its contractor</p> <p>2. Contractors</p>	City of Palo Alto	<p>1. Confirm requirement is included in plans and specifications the need to conduct an employee-education program as described in Mitigation Measure BIO-3.</p>	<p>1. Design</p> <p>2. Pre-construction</p>	1. _____

	<p>Department of Fish and Game or U.S. Fish and Wildlife Service?</p> <p>Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or as defined by the City of Palo Alto's Tree Preservation Ordinance (Municipal Code Section 8.10)?</p>		<p>pertain to the project; a report of the occurrence of these species in the project vicinity, as applicable; an explanation of the status of these species and their protection under the MBTA, California Fish and Game Code, and other statutes; and, a list of measures being taken to reduce potential impacts to natural resources during project construction and implementation. A fact sheet conveying this information will be prepared for distribution to the above-mentioned people and anyone else who may enter the project area. Upon completion of training, employees will sign a form stating that they attended the training and understand all of the conservation and protection measures. Construction crews will be informed during the education program meeting that, to the extent possible, travel within the marked project area will be restricted to established roadbeds.</p>			<p>2. Upon completion of training, have Contractor employees sign a form stating they have attended training and understand conservation and protection measures.</p>		<p>2. _____</p>
Items a, d	<p>Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?</p>	BIO-4	<p>Mitigation Measure BIO-4: Monitoring During Construction. A qualified biologist will be retained to monitor construction activities associated with the creek crossing (Matadero Creek near Deer Creek Road). The biologist will have expertise with CRLF biology and ecology. The biologist will have the authority to halt work if a special-status species is observed.</p>	<p>1. City of Palo Alto or its contractors</p>	<p>City of Palo Alto</p>	<p>1. Confirm requirement is included in plans and specifications the need for monitoring at Matadero Creek during construction.</p> <p>2. Retain biologist to monitor creek crossing activities.</p> <p>3. Confirm monitoring at creek crossing.</p>	<p>1. Design</p> <p>2. Prior to/during construction</p> <p>3. Construction</p>	<p>1. _____</p> <p>2. _____</p> <p>3. _____</p>

	Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or as defined by the City of Palo Alto's Tree Preservation Ordinance (Municipal Code Section 8.10)?							
Items a, d	<p>Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?</p> <p>Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or as defined by the City of Palo Alto's Tree</p>	BIO-5	<p>Mitigation Measure BIO-5: General Measures to Reduce Impacts to Wildlife Species. The following shall be relevant to the following species: California red-legged frog, burrowing owl, and the California Clapper Rail.</p> <ul style="list-style-type: none"> All excavations left open overnight will either be covered to prevent wildlife from becoming entrapped or will include escape ramps. In addition, excavations must be inspected for wildlife at the start of each workday and prior to back filling. The USFWS and/or CDFW will be contacted prior to removing or relocating any special-status wildlife within the excavation. Food items may attract wildlife into construction areas, which would expose them to construction-related hazards. The construction areas will be maintained in a clean condition. All trash (e.g., food scraps, cans, bottles, containers, wrappers, cigarette butts, and other discarded items) will be placed in closed containers and properly disposed of. 	City of Palo Alto's contractor	City of Palo Alto	<ol style="list-style-type: none"> Confirm requirement is included in plans and specifications the conditions in BIO-5. If special-status wildlife found in excavations, halt work and resume after it leaves or consult with USFWS and/or CDFW prior to removing or relocating species. Confirm compliance with plans and specifications. 	<ol style="list-style-type: none"> Design Construction Construction 	<ol style="list-style-type: none"> 1. _____ 2. _____ 3. _____

	Preservation Ordinance (Municipal Code Section 8.10)?		If an animal is found at a work site and is believed to be a protected species, work must be halted until the animal leaves of its own accord or the USFWS and/or CDFW is consulted to relocate the species. Care shall be taken not to harm the species. No wildlife or plant species will be handled and/or removed from the site by anyone except approved biologists.					
Items a, d	Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?	BIO-6	Mitigation Measure BIO-6: Burrowing Owl Pre-Construction Surveys. Pre-construction BUOW surveys will be conducted in suitable habitat for BUOW (i.e., in pastureland habitat between Deer Creek Road and Hillview Avenue and in the vicinity of the RWQCP) in accordance with the recommendations and guidelines provided in the Staff Report on Burrowing Owl Mitigation (Department of Fish and Game, March 2012). If no BUOW or BUOW sign is observed no further action will be required. If BUOW or BUOW sign is observed then no disturbance will occur within 160 feet of occupied burrows during the non-breeding season (September 1 through January 31) or within 250 feet during the breeding season (February 1 through August 31). A qualified biologist will be present in these locations to monitor construction and ensure the BUOW is not disturbed.	City of Palo Alto or its contractors	City of Palo Alto	<ol style="list-style-type: none"> 1. Confirm requirement is included in plans and specifications the conditions in BIO-6. 2. Confirm pre-construction Burrowing Owl surveys are conducted to determine presence / absence. If no BUOW / BUOW sign is observed, no further action is required. 3. If signs of Burrowing Owls are observed, ensure no disturbance within the identified buffer and have a biologist 	<ol style="list-style-type: none"> 1. Design 2. Pre-construction 3. Construction 4. Pre-construction/ Construction 	<ol style="list-style-type: none"> 1. _____ 2. _____ 3. _____

						present to monitor construction		
						4. Document contractor has complied with plans and specifications.		4. _____
Items a, d	<p>Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?</p> <p>Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or as defined by the City of Palo Alto's Tree Preservation Ordinance (Municipal Code Section 8.10)?</p>	BIO-7	<p>Mitigation Measure BIO-7: Buffer for California Clapper Rail or Survey. Construction activities within 500 feet of the marshland habitat surrounding the RWQCP will be conducted outside the breeding season for CCR (i.e., September 1 through January 31). If this is not feasible, a qualified biologist will conduct protocol-level surveys for CCR in accordance with the California Clapper Rail Draft Survey Protocol (USFWS 2000). A qualified biologist is an individual who has experience conducting protocol-level surveys for CCR. Prior to commencement of the surveys, the biologist will prepare a brief letter report describing the survey design and submit it to the USFWS and the CDFW for review and approval. Upon the completion of the surveys, results will be submitted to the USFWS and CDFW for a final decision on the possibility of doing work during the breeding season for CCR.</p>	City of Palo Alto or its contractors	City of Palo Alto	<p>1. Confirm requirement is included in plans and specifications the conditions that if construction occurs within 500 feet of the marshland habitat during CCR's breeding season, retain qualified biologist to conduct survey.</p> <p>2. Have biologist prepare a brief letter report describing survey and submit to USFWS and CDFW (if survey needed).</p> <p>3. Confirm biologist conducts protocol-level surveys and</p>	<p>1. Design</p> <p>2. Pre-construction</p> <p>3. Pre-construction</p> <p>4. Construction</p>	<p>1. _____</p> <p>2. _____</p> <p>3. _____</p>

						submits results to USFWS and CDFW.		
						4. Confirm implementation of final decision from USFWS and CDFW.		4. _____
Items a, d	<p>Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?</p> <p>Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or as defined by the City of Palo Alto's Tree Preservation Ordinance (Municipal Code Section 8.10)?</p>	BIO-8	<p>Mitigation Measure BIO-8: Measure to Protect Nesting Birds. If equipment staging, site preparation, grading, excavation, or other project-related construction activities are scheduled to occur during the avian nesting season (generally February 1 to September 1), a focused survey for active nests will be conducted by a qualified biologist within 15 days prior to the beginning of project-related activities. Surveys will be conducted in all suitable habitat located at project work sites, and in staging or storage areas. Surveys will be conducted at the appropriate times of day (e.g., dawn or dusk), and during the appropriate nesting times and will concentrate on areas of suitable habitat. If a lapse in project-related activities of 15 days or longer occurs, another focused survey will be conducted. If no active nests are found, then no further mitigation is required. If an active nest is found within the surveyed areas, an appropriate exclusion buffer will be established by a qualified biologist and the exclusion buffer will be maintained until the young have fledged or will no longer be impacted by the project. A qualified biologist will be present to monitor construction activities in the vicinity of the nest and ensure the nesting species is not disturbed. If a species appears disturbed by construction activities (as determined by a qualified biologist) work will be halted and the USFWS and/or CDFW will be</p>	City of Palo Alto or its contractors	City of Palo Alto	<ol style="list-style-type: none"> 1. Confirm requirement is included in plans and specifications. 2. Confirm any necessary surveys are conducted. 3. If active nests are found during the survey, verify installation of buffer and completion of monitoring. 4. Verify coordination with USFWS and/or CDFW if needed. 5. Document contractor has complied with plans and specifications. 	<ol style="list-style-type: none"> 1. Design 2. Pre-construction 3. Pre-construction 4. Construction 5. Pre-construction/ Construction 	<ol style="list-style-type: none"> 1. _____ 2. _____ 3. _____ 4. _____ 5. _____

			consulted. Project activities will not resume without approval from the USFWS and/or CDFW.					
Items a, d	<p>Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?</p> <p>Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or as defined by the City of Palo Alto's Tree Preservation Ordinance (Municipal Code Section 8.10)?</p>	BIO-9	<p>Mitigation Measure BIO-9: Bat Preconstruction Surveys. Preconstruction day and night-roost surveys will be conducted to avoid impacts to bats. The survey will be conducted by a qualified bat biologist following the protocol in the Bats and Bridges Technical Bulletin (Erickson et al. 2003) to determine if bats are using the bridges as a roost site. If a roost is observed, the CDFW and/or USFWS will be consulted and additional mitigation measures will be implemented. Example measures include working during the daytime if night roosts are present, no clearing or grubbing adjacent to the roost, no work within 100 feet of the roost, no lighting near the roost where it could shine on the roost structure.</p>	City of Palo Alto and its contractors	City of Palo Alto	<ol style="list-style-type: none"> 1. Confirm requirement is included in plans and specifications. 2. For bridge crossings, confirm pre-construction bat roost surveys are conducted. 3. If a roost is observed document consultation with CDFW and/or USFWS. 4. Verify implementation of any measures specified by CDFW and USFWS. 5. Document contractor has complied with plans and specifications. 	<ol style="list-style-type: none"> 1. Design 2. Pre-construction 3. Construction 4. Construction 5. Pre-construction/ Construction 	<ol style="list-style-type: none"> 1. _____ 2. _____ 3. _____ 4. _____ 5. _____
Items a, d	<p>Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a</p>	BIO-10	<p>Mitigation Measure BIO-10: Bats Breeding Season Surveys. Construction activities near Adobe Creek crossing near Middlefield Road, the Barron Creek crossing near Cowper Street, and the Matadero Creek crossing near Cowper</p>	City of Palo Alto and its	City of Palo Alto	<ol style="list-style-type: none"> 1. Confirm requirement is included in plans and specifications. 	<ol style="list-style-type: none"> 1. Design 2. Pre-construction 3. Pre-construction 4. Construction 5. Pre-construction/ 	<ol style="list-style-type: none"> 1. _____

	<p>candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?</p> <p>Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or as defined by the City of Palo Alto's Tree Preservation Ordinance (Municipal Code Section 8.10)?</p>		<p>Street will be scheduled to avoid the bat breeding season (April through August) to the extent feasible. If work in these locations is required in the breeding season, a survey for bats will be conducted. The survey will be conducted by a qualified bat biologist following the protocol in the Bats and Bridges Technical Bulletin (Erickson et al. 2003) to determine if bats are using the bridges as a roost site. If a roost is observed, the CDFW and/or USFWS will be consulted and additional mitigation measures will be implemented. Example measures include excluding bats from directly affected work areas or replacing the roost location.</p>	contractors		<p>2. If construction occurs during the bat breeding season, confirm pre-construction survey are conducted.</p> <p>3. If a roost is observed, document consultation with CDFW and/or USFWS.</p> <p>4. If needed, document implementation of the measures specified by CDFW and USFWS.</p> <p>5. Document contractor has complied with plans and specifications.</p>	Construction	<p>2. _____</p> <p>3. _____</p> <p>4. _____</p> <p>5. _____</p>
CULTURAL RESOURCES								
Item a	Have the potential to directly or indirectly destroy a local cultural resource that is recognized by City Council resolution?	--	<p>Protection of Cultural Resources</p> <p>Should any previously undiscovered historic or prehistoric archaeological deposits be discovered during construction, work shall stop within 50 feet of the discovery, until such time that the discovery can be evaluated by a qualified archaeologist and appropriate mitigative action taken as determined necessary in consultation with the lead Federal agency for NHPA Section 106 compliance, in accordance with 36 CFR Part 800.13, and the City. Measures might include preserving in situ the</p>	City of Palo Alto and its contractors	City of Palo Alto	<p>1. Confirm requirement is included in plans and specifications.</p> <p>2. Document contractor has complied with plans and specifications.</p> <p>3. If archeological deposits are</p>	<p>1. Design</p> <p>2. Construction</p> <p>3. Construction</p> <p>4. Construction</p>	<p>1. _____</p> <p>2. _____</p> <p>3. _____</p>

			<p>archaeological resource or an archaeological monitoring or data recovery program. Prehistoric archaeological site indicators include chipped chert and obsidian tools, and tool manufacturing waste flakes, grinding implements such as mortars and pestles, and darkened soil that contains dietary debris such as bone fragments and shellfish remains. Historic site indicators include, but are not limited to, ceramics, glass, wood, bone, and metal remains. Section 7050.5(b) of the California Health and Safety code will be implemented in the event that human remains, or possible human remains, are located during Project-related construction excavation. Section 7050.5(b) states:</p> <p style="padding-left: 40px;">In the event of discovery or recognition of any human remains in any location other than a dedicated cemetery, there shall be no further excavation or disturbance of the site or any nearby area reasonably suspected to overlie adjacent remains until the coroner of the county in which the human remains are discovered has determined, in accordance with Chapter 10 (commencing with Section 27460) of Part 3 of Division 2 of Title 3 of the Government Code, that the remains are not subject to the provisions of Section 27492 of the Government Code or any other related provisions of law concerning investigation of the circumstances, manner and cause of death, and the recommendations concerning treatment and disposition of the human remains have been made to the person responsible for the excavation, or to</p>			<p>discovered during construction, document that appropriate action is taken.</p> <p>4. If human remains, or possible remains are located, confirm implementation of California Health and Safety code section 7050.5(b).</p>		4. _____
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			<p>his or her authorized representative, in the manner provided in Section 5097.98 of the Public Resources Code.</p> <p>The County Coroner, upon recognizing the remains as being of Native American origin, is responsible for contacting the Native American Heritage Commission (NAHC) within 24 hours. The Commission has various powers and duties to provide for the ultimate disposition of any Native American remains, as does the assigned Most Likely Descendant. Sections 5097.98 and 5097.99 of the Public Resources Code also call for protection from inadvertent destruction. To achieve this goal, the construction personnel on the Project would be instructed as to the potential for discovery of cultural or human remains, the need for proper and timely reporting of such finds, and the consequences of failure thereof.</p>					
Item b	Cause a substantial adverse change in the significance of an archaeological resource pursuant to 15064.5?	--	See Cultural Resources Item a above					
Item c	Have the potential to directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?	--	<p>Protection of Paleontological Resources</p> <p>If paleontological resources are discovered during earthmoving activities, the construction crew would immediately cease work near the find. In accordance with Society of Vertebrate Paleontology guidelines (Society of Vertebrate Paleontology 2010), a qualified paleontologist would assess the nature and importance of the find and recommend appropriate salvage, treatment, and future monitoring and mitigation.</p>	City of Palo Alto and its contractors	City of Palo Alto	<p>1. Confirm requirement is included in plans and specifications.</p> <p>2. If paleontological resources are discovered, document appropriate treatment.</p>	<p>1. Design</p> <p>2. Construction</p>	<p>1. _____</p> <p>2. _____</p>

Item d	Have the potential to disturb any human remains, including those interred outside of formal cemeteries?	--	See Cultural Resources Item a above					
Item e	Have the potential to adversely affect a historic resource listed or eligible for listing on the National and/or California Register, or listed on the City's Historic Inventory?	--	See Cultural Resources Item a above					
Item f	Have the potential to eliminate important examples of major periods of California history or prehistory?	--	See Cultural Resources Item a above					
Items a, b, d, e, f	<p>Have the potential to directly or indirectly destroy a local cultural resource that is recognized by City Council resolution?</p> <p>Cause a substantial adverse change in the significance of an archaeological resource pursuant to 15064.5?</p> <p>Have the potential to disturb any human remains, including those interred outside of formal cemeteries?</p>	CR-1	<p>Mitigation Measure CR-1: Subsurface Testing. A program of sub-surface testing shall be conducted to determine whether buried resources are present within the areas of high or high to moderate archaeological sensitivity that will be impacted by Project construction. Only those locations where design confirms that the proposed pipeline would be buried at archaeologically sensitive locations will require subsurface testing. A testing program will be developed to determine the best approach for each location, considering the physical constraints of the urban setting (e.g., structures, traffic). The testing program could consist of multiple core extractions at individual sites; the locations and depths of the bore holes would be determined on the basis of projected depths of excavation at the individual work areas. A qualified archaeologist would monitor the testing efforts, and inspect the cores for</p>	City of Palo Alto and its contractors	City of Palo Alto	<p>1. Document completion of sub-surface testing.</p> <p>2. If resources are present and avoidance is not feasible, document completion of ARDP. If findings are positive, confirm an ADRP is developed in consultation with relevant agencies which identify</p>	<p>1. Design, upon selection of the construction methods.</p> <p>2. Pre-construction</p> <p>3. Pre-construction/ Construction</p>	<p>1. _____</p> <p>2. _____</p>

	<p>Have the potential to adversely affect a historic resource listed or eligible for listing on the National and/or California Register, or listed on the City's Historic Inventory?</p> <p>Have the potential to eliminate important examples of major periods of California history or prehistory?</p>		<p>prehistoric archaeological site indicators (e.g., chipped chert and obsidian tools, and tool manufacturing waste flakes, grinding implements such as mortars and pestles, and darkened soil that contains dietary debris such as bone fragments and shellfish remains) and historic site indicators (e.g., ceramics, glass, wood, bone, and metal remains).</p> <p>If the findings of the subsurface testing are negative, then no further actions (e.g., further testing or archaeological monitoring) would be recommended as necessary for NHPA Section 106 compliance, although consultation with SHPO would still be needed to formally complete the Section 106 process.</p> <p>If the findings of the subsurface testing are positive (and avoidance of the archaeological site is not feasible or practicable through project redesign), then a qualified archaeologist will develop an archeological data recovery plan (ADRP) in consultation with the City, the lead Federal agency, the SHPO and other appropriate consulting parties, as applicable, in accordance with the requirements of 36 CFR Part 800. The ADRP shall identify how the proposed data recovery program will used to evaluate and preserve the significant information the archaeological resource is expected to contain. That is, the ADRP will identify what scientific/historical research questions are applicable to the expected resource, what data classes the resource is expected to possess, and how the expected data classes would address the applicable research questions. Implementation of the ADRP through the development and execution of an appropriate agreement document by the</p>			<p>appropriate measures.</p> <p>3. Confirm implementation of the measures identified in the ADRP.</p>		3. _____
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			lead Federal agency, the SHPO, the City, and any other identified signatories, would satisfy the requirements of NHPA Section 106 as outlined at 36 CFR § 800.6. Whether the results of subsurface testing are negative or positive, if Federal funding for the Project is approved, full compliance with Section 106 of the NHPA as determined by the lead Federal agency will be required prior to Project construction.					
GEOLOGY, SOILS, and SEISMICITY								
Item a	Have the potential to expose people or structures to potential substantial adverse effects, including the risk of loss; injury, or death involving rupture of a known earthquake fault, groundshaking, liquefaction or landslides?	--	<p>Geologic Report for Potentially Affected Facilities</p> <p>During the design phase for the Project, the City shall require preparation of a Geologic Report by a geologist registered in the State of California for facilities that could be affected by seismic-related hazards or unstable soils (e.g., liquefaction and expansive soils).</p> <ul style="list-style-type: none"> The Geologic Report shall include an engineering analysis of liquefaction and the potential for expansive soils at the pump stations. This assessment shall include a liquefaction assessment study in accordance with the California Geological Survey Special Publication 117 Guidelines. If this report finds unstable soils would present potential risks associated with liquefaction, engineering recommendations for surface and subsurface drainage specifications and detailed design for fill placement and excavation shall be provided. 	City of Palo Alto and its contractors	City of Palo Alto	<p>1. Document preparation of Geologic Report.</p> <p>2. Document incorporation of recommendations in plans and specifications.</p>	<p>1. Design</p> <p>2. Design</p>	<p>1. _____</p> <p>2. _____</p>
Item b	Result in substantial soil erosion or the loss of topsoil	--	See HYD-1 for Best Management Practices – Stormwater Quality					
Item c	Result in substantial siltation.	--	See HYD-1 for Best Management Practices – Stormwater Quality					

Item d	Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse.	--	See Geology and Soils Item a above.
Item e	Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial risks to life or property.	--	See Geology and Soils Item a above.
GREENHOUSE GAS EMISSIONS			
Item a	Have the potential to generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?	AIR-1	See above for AIR-1 information. See Air Quality Item a above.
Item b	Have the potential to conflict with any applicable plan, policy or regulation of an agency adopted for the purpose of reducing the emissions of greenhouse gases?	AIR-1	See above for AIR-1 information. See Air Quality Item a above.

HAZARDS and HAZARDOUS MATERIALS								
Item a	Have the potential to create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials.	--	See Biological Resources Item a for Health and Safety and Hazardous Materials Management and Spill Prevention Control Plans See HYD-1 for Discharge of Exceptional Wastewater					
Item a	Have the potential to create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials.	--	Storage, Handling, and Use of Hazardous Materials in Accordance with Applicable Laws The City shall ensure that all construction-related hazardous materials and hazardous wastes are stored, handled, and used in a manner consistent with applicable federal, state, and local laws, and the City of Palo Alto's Pollution Prevention plan sheet. In addition, construction-related hazardous materials and hazardous wastes shall be staged and stored away from stream channels and steep banks to keep these materials a safe distance from near-by residents and prevent them from entering surface waters in the event of an accidental release.	City of Palo Alto and its contractors	City of Palo Alto	1. Confirm requirements are included in plans and specifications. 2. Confirm measures are implemented during construction.	1. Design 2. Construction	1. _____ 2. _____
Item a	Have the potential to create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials.	--	Proper Disposal of Contaminated Soil and/or Groundwater If contaminated soil and/or groundwater is encountered or if suspected contamination is encountered during Project construction, work shall be halted in the area, and the type and extent of the contamination shall be identified. A contingency plan to dispose of any contaminated soil or groundwater would be developed through consultation with appropriate regulatory agencies and consistent with the requirements of the City of Palo Alto's Pollution Prevention plan sheet and RWQCP's permit requirements for discharge of exceptional	City of Palo Alto and its contractors	City of Palo Alto	1. Confirm requirements are included in plans and specifications. 2. Confirm measures are implemented during construction.	1. Design 2. Construction	1. _____ 2. _____

			wastewater to the sanitary sewer					
Item b	Have the potential to create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?	--	See Hazards and Hazardous Materials Item a above					
Item c	Have the potential to emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?	--	See Hazards and Hazardous Materials Item a above					
Item e	Located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would create a significant hazard to the public or the environment?	--	See Hazards and Hazardous Materials Item a above					
Item h	Have the potential to impair implementation of or physically interfere with an adopted emergency response plan or emergency	--	Traffic Control Plan The City's Transportation Section would require the contractor to have a full traffic control plan prepared by a registered traffic engineer. The traffic control plan shall be in accordance with the City's Traffic Control Requirements and would show specific methods for maintaining	City of Palo Alto and its contra	City of Palo Alto	1. Confirm requirements are included in plans and specifications. 2. Confirm measures are	1. Design 2. Construction	1. _____ 2. _____

	evacuation plan?		<p>traffic flows to minimize construction impacts on traffic and parking. There are several schools in the vicinity of the Project. These areas would be evaluated more closely to determine whether the traffic control plan is appropriate or if additional measures are needed specific to school areas. Examples of traffic control measures to be considered include:</p> <ul style="list-style-type: none"> • Identify all roadway locations where special construction techniques (e.g., directional drilling) would be used to minimize impacts to traffic flow; • Develop circulation and detour plans to minimize impacts to local street circulation. This may include the use of signing and flagging to guide vehicles through and/or around the construction zone; • Schedule truck trips outside of peak morning and evening commute hours; • Prohibit construction on collector and arterial streets during morning commute period before 9 a.m. and in the afternoon commute period after 4 p.m.; • Use haul routes, minimizing truck traffic on local roadways to the extent possible; • Consider detours for bicycles and pedestrians in all areas potentially affected by Project construction. Pedestrian and bicycle detours should not be required unless deemed necessary for safety reasons; • Use flagmen to maintain alternating one-way traffic while working on one-half of the street; • Use advance construction signs and 	ctors		implemented during construction.		
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			<p>other public notices to alert drivers of activity in the area;</p> <ul style="list-style-type: none"> • Use “positive guidance” detour signing on alternate access streets to minimize inconvenience to the driving public; • Install traffic control devices as specified in the California Department of Transportation Manual of Traffic Controls for Construction and Maintenance Work Zones; • Develop and implement access plans for highly sensitive land uses such as police and fire stations, transit stations, hospitals and schools. The access plans would be developed with the facility owner or administrator. To minimize disruption of emergency vehicle access, ask affected jurisdictions to identify detours, which would then be posted by the contractor. Notify in advance the facility owner or operator of the timing, location, and duration of construction activities and the locations of lane closures; • Store construction materials only in designated areas; and • Coordinate with local transit agencies for temporary relocation of routes or bus stops in work zones, as necessary. • Establish methods for minimizing for construction effects on parking (e.g., identifying designated areas for construction worker parking at staging areas). 					
NOISE								
Item a	Have the potential to expose persons to or	--	Compliance with Local Noise Ordinance According to the City of Palo Alto's Noise	City of	City of	1. Confirm requirements	1. Design 2. Construction	1. _____

	generate noise levels in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?		<p>Ordinance (Palo Alto Municipal Code Chapter 9.10), for residential and non-residential property, construction, alteration and repair activities which are authorized by a valid city building permit shall be prohibited on Sundays and holidays and shall be prohibited except between the hours of 8:00 a.m. and 6:00 p.m. Monday through Friday, and 9:00 a.m. and 6:00 p.m. on Saturday, provided that the construction, demolition or repair activities during those hours meet the following standards:</p> <ul style="list-style-type: none"> • No individual piece of equipment shall produce a noise level exceeding 110 dBA at a distance of 25 feet. If the device is housed within a structure on the property, the measurement shall be made outside the structure at a distance as close to 25 feet from the equipment as possible. • The noise level at any point outside of the property plane of the Project shall not exceed 110 dBA. • The holder of a valid construction permit for a construction project in a non-residential zone shall post a sign at all entrances to the construction site upon commencement of construction, for the purpose of informing all contractors and subcontractors, their employees, agents, materialmen and all other persons at the construction site, of the basic requirements of this measure. <ul style="list-style-type: none"> ○ The sign(s) shall be posted at least five feet above ground level, and shall be of a white background, with black lettering, which lettering shall be a minimum of one and one-half inches in height. 	Palo Alto and its contractors	Palo Alto	<p>are included in plans and specifications.</p> <p>2. Confirm measures are implemented during construction.</p>		2. _____
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			<p>o The sign shall read as follows:</p> <p>•</p> <p>CONSTRUCTION HOURS FOR RESIDENTIAL (OR NON- RESIDENTIAL) PROPERTY (Includes Any and All Deliveries) MONDAY - FRIDAY.....8:00 a.m. to 6:00 p.m. SATURDAY.....9:00 a.m. to 6:00 p.m. SUNDAY/HOLIDAYS.....Construction prohibited.</p>					
Item a	Have the potential to expose persons to or generate noise levels in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?	--	<p>Pump Station Design/Noise For the pump station at the Mayfield Soccer Fields, a detailed analysis of the buildings' sound isolation would be conducted by a qualified acoustical consultant during the engineering design phase of the project. A post-construction field sound measurement shall be conducted by an acoustical consultant to verify that the project operational noise standards are in compliance with relevant City noise standards.</p>	City of Palo Alto and its contractors	City of Palo Alto	<p>1. Document completion of acoustical analysis and incorporation of measures in design.</p> <p>2. Verify that operational noise levels are in compliance with City noise standards.</p>	<p>1. Design</p> <p>2. Post-Construction</p>	<p>1. _____</p> <p>2. _____</p>
Item c	Have the potential to create a substantial permanent increase in ambient noise levels in the project vicinity above levels existing without the project?	--	See Noise Item a above					
Item d	Have the potential to create a substantial temporary or periodic increase in ambient noise levels in the	--	See Noise Item a above					

	project vicinity above levels existing without the project?		
Item g	Have the potential to cause the average 24 hour noise level (Ldn) to increase by 5.0 decibels (dB) or more in an existing residential area, even if the Ldn would remain below 60 dB?	--	See Noise Item a above
Item h	Have the potential to cause the Ldn to increase by 3.0 dB or more in an existing residential area, thereby causing the Ldn in the area to exceed 60 dB?	--	See Noise Item a above
Item i	Have the potential to cause the Ldn to increase by 3.0 dB or more in an existing residential area, thereby causing the Ldn in the area to exceed 60 dB?	--	See Noise Item a above
Item j	Result in indoor noise levels for residential development to exceed an Ldn of 45 dB?	--	See Noise Item a above
Item k	Result in instantaneous noise levels of greater than 50 dB in bedrooms or 55 dB in other rooms in areas with an	--	See Noise Item a above

	exterior Ldn of 60 dB or greater?							
Item I	Generate construction noise exceeding the daytime background Leq at sensitive receptors by 10 dBA or more?	--	See Noise Item a above					
Items a, c, d, g, h, i, j, k, l	<p>Have the potential to expose persons to or generate noise levels in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?</p> <p>Have the potential to create a substantial permanent increase in ambient noise levels in the project vicinity above levels existing without the project?</p> <p>Have the potential to create a substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project?</p> <p>Have the potential to cause the average 24 hour noise level</p>	NOI-2	<p>Mitigation Measure NOI-1: Noise Control Measures to Reduce Construction Noise. The City shall incorporate into contract specifications all of the following measures:</p> <ul style="list-style-type: none"> Impact equipment (e.g., jack hammers, pavement breakers, and rock drills) used for project construction will be hydraulically or electrically powered whenever possible to avoid noise associated with compressed air exhaust from pneumatically powered tools. However, where use of pneumatically powered tools is unavoidable, an exhaust muffler on the compressed air exhaust would be used. This muffler can lower noise levels from the exhaust by up to 10 dBA. External jackets on the tools themselves would be used where feasible, and this could achieve a reduction of 5 dBA. Quieter procedures will be used such as drilling rather than impact equipment whenever feasible. Wherever possible, sonic or vibratory pile drivers will be used instead of impact pile drivers. If sonic or vibratory pile drivers are not feasible, acoustical enclosures will be provided as necessary to reduce noise levels. Engine and pneumatic exhaust controls on pile drivers will be required as 	City of Palo Alto and its contractors	City of Palo Alto	<p>1. Confirm requirement is included in plans and specifications.</p> <p>2. Document contractor has complied with plans and specifications.</p>	<p>1. Design.</p> <p>2. Construction</p>	<p>1. _____</p> <p>2. _____</p>

<p>(Ldn) to increase by 5.0 decibels (dB) or more in an existing residential area, even if the Ldn would remain below 60 dB?</p> <p>Have the potential to cause the Ldn to increase by 3.0 dB or more in an existing residential area, thereby causing the Ldn in the area to exceed 60 dB?</p> <p>Have the potential to cause an increase of 3.0 dB or more in an existing residential area where the Ldn currently exceeds 60 dB?</p> <p>Result in indoor noise levels for residential development to exceed an Ldn of 45 dB?</p> <p>Result in instantaneous noise levels of greater than 50 dB in bedrooms or 55 dB in other rooms in areas with an exterior Ldn of 60 dB or greater?</p>	<p>necessary to ensure that exhaust noise from pile driver engines are minimized to the extent feasible. Where feasible, pile holes will be pre-drilled to reduce potential noise and vibration impacts.</p> <ul style="list-style-type: none"> • All equipment and trucks used for project construction shall use the best available noise control techniques (including mufflers, use of intake silencers, ducts, engine enclosures and acoustically attenuating shields or shrouds) and be maintained in good operating condition to minimize construction noise impacts. All internal combustion engine-drive equipment shall be fitted with intake and exhaust mufflers which are in good condition. • Unnecessary idling of internal combustion engines shall be prohibited. In practice, this would mean turning off equipment if it would not be used for five or more minutes. • Stationary noise-generating construction equipment, such as air compressors and generators, shall be located as far as possible from homes and businesses. • Staging areas shall be located as far as feasibly possible from sensitive receptors. 						
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	Generate construction noise exceeding the daytime background Leq at sensitive receptors by 10 dBA or more?							
Items a, c, d, g, h, i, j, k, l	<p>Have the potential to expose persons to or generate noise levels in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?</p> <p>Have the potential to create a substantial permanent increase in ambient noise levels in the project vicinity above levels existing without the project?</p> <p>Have the potential to create a substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project?</p> <p>Have the potential to cause the average 24 hour noise level (Ldn) to increase by</p>	NOI-3	<p>Mitigation Measure NOI-2: Pre-Construction Notification. Prior to construction, written notification to residents within 500 feet of the proposed facilities undergoing construction shall be provided, identifying the type, duration, and frequency of construction activities. Notification materials shall also identify a mechanism for residents to register complaints with the City if construction related noise impacts should occur.</p>	City of Palo Alto	City of Palo Alto	1. Confirm written notifications are sent to residents within 500 feet of the construction area.	1. Pre-construction	1. _____

<p>5.0 decibels (dB) or more in an existing residential area, even if the Ldn would remain below 60 dB?</p> <p>Have the potential to cause the Ldn to increase by 3.0 dB or more in an existing residential area, thereby causing the Ldn in the area to exceed 60 dB?</p> <p>Have the potential to cause an increase of 3.0 dB or more in an existing residential area where the Ldn currently exceeds 60 dB?</p> <p>Result in indoor noise levels for residential development to exceed an Ldn of 45 dB?</p> <p>Result in instantaneous noise levels of greater than 50 dB in bedrooms or 55 dB in other rooms in areas with an exterior Ldn of 60 dB or greater?</p>							
---	--	--	--	--	--	--	--

	Generate construction noise exceeding the daytime background Leq at sensitive receptors by 10 dBA or more?							
Items a, c, d, g, h, i, j, k, l	<p>Have the potential to expose persons to or generate noise levels in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?</p> <p>Have the potential to create a substantial permanent increase in ambient noise levels in the project vicinity above levels existing without the project?</p> <p>Have the potential to create a substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project?</p> <p>Have the potential to cause the average 24 hour noise level (Ldn) to increase by 5.0 decibels (dB) or</p>	NOI-3	<p>Mitigation Measure NOI-3: Design of the Pump Station to Reduce Noise. To ensure the proposed pump station complies with the City's noise standards, structure openings, including air ventilation would employ acoustical rated louvers, silencers, or other noise-reduction devices, as appropriate, to reduce noise propagation to the outside of the building.</p>	City of Palo Alto and its contractors	City of Palo Alto	<p>1. Confirm requirements are included in plans and specifications.</p> <p>2. Confirm construction complies with design requirements.</p>	<p>1. Design</p> <p>2. Construction</p>	<p>1. _____</p> <p>2. _____</p>

<p>more in an existing residential area, even if the Ldn would remain below 60 dB?</p> <p>Have the potential to cause the Ldn to increase by 3.0 dB or more in an existing residential area, thereby causing the Ldn in the area to exceed 60 dB?</p> <p>Have the potential to cause an increase of 3.0 dB or more in an existing residential area where the Ldn currently exceeds 60 dB?</p> <p>Result in indoor noise levels for residential development to exceed an Ldn of 45 dB?</p> <p>Result in instantaneous noise levels of greater than 50 dB in bedrooms or 55 dB in other rooms in areas with an exterior Ldn of 60 dB or greater?</p> <p>Generate construction</p>							
---	--	--	--	--	--	--	--

	noise exceeding the daytime background Leq at sensitive receptors by 10 dBA or more?							
TRANSPORTATION AND TRAFFIC								
Item a	Have the potential to exceed the capacity of the existing circulation system, based on an applicable measure of effectiveness (as designated in a general plan policy, ordinance, etc.), taking into account all relevant components of the circulation system, including but not limited to intersections, streets, highways and freeways, pedestrian and bicycle paths, and mass transit?	--	See Hazards and Hazardous Materials Item h above for Traffic Control Plan					
Item a	Have the potential to exceed the capacity of the existing circulation system, based on an applicable measure of effectiveness (as designated in a general plan policy, ordinance, etc.), taking into account all relevant	--	Restoration of Roads to Pre-construction Condition Following construction, the City shall ensure that road surfaces, bicycle routes, and bus stop facilities that are damaged during construction are returned to their pre-construction condition or better.	City of Palo Alto and its contractors	City of Palo Alto	1. Confirm requirements are included in plans and specifications. 2. Confirm completion of road restoration.	1. Design 2. Post-construction	1. _____ 2. _____

	components of the circulation system, including but not limited to intersections, streets, highways and freeways, pedestrian and bicycle paths, and mass transit?							
Item b	Conflict with an applicable congestion management program, including but not limited to level of service standards and travel demand measures, or other standards established by the county congestion management agency for designated roads or highways?	--	See Hazards and Hazardous Materials Item h above for Traffic Control Plan and Transportation and Traffic Item a					
Items a, b	Have the potential to exceed the capacity of the existing circulation system, based on an applicable measure of effectiveness (as designated in a general plan policy, ordinance, etc.), taking into account all relevant components of the circulation system, including but not limited to intersections, streets,	TRA-2	Mitigation Measure TRA-1: CMP Facilities. The City shall work with VTA to determine when peak hour traffic starts on Page Mill Road, a CMP facility. If peak hour traffic starts around 3 p.m. on this road, then the City shall prohibit construction on this roadway after 3 p.m.	City of Palo Alto and its contractors	City of Palo Alto	1. Document consultation with VTA. 2. Confirm appropriate requirement is included in plans and specifications. 3. Document contractor has complied with plans and specifications.	1. Design 2. Design 3. Construction	1. _____ 2. _____ 3. _____

	highways and freeways, pedestrian and bicycle paths, and mass transit? Conflict with an applicable congestion management program, including but not limited to level of service standards and travel demand measures, or other standards established by the county congestion management agency for designated roads or highways?							
Item d	Substantially increase hazards due to a design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?	--	See Hazards and Hazardous Materials Item h above for Traffic Control Plan					
Item e	Result in inadequate emergency access?	--	See Hazards and Hazardous Materials Item h above for Traffic Control Plan					
Item f	Have the potential to result in inadequate parking capacity that impacts traffic circulation and air quality?	--	See Hazards and Hazardous Materials Item h above for Traffic Control Plan					
Item f	Have the potential to result in inadequate	TRA-2	Mitigation Measure TRA-2: Coordinate construction with Businesses. To reduce the	City of	City of	1. Document coordination	1. Pre-construction	1. _____

	parking capacity that impacts traffic circulation and air quality?		disruption of business from the temporary reduction of parking, the City shall coordinate with individual businesses on the timing of construction.	Palo Alto	Palo Alto	with businesses.		
Item g	Conflict with adopted policies, plans, or programs supporting alternative transportation (e.g., pedestrian, transit & bicycle facilities)?	--	See Hazards and Hazardous Materials Item h above for Traffic Control Plan					
Item n	Impede the development or function of planned pedestrian or bicycle facilities?	--	See Hazards and Hazardous Materials Item h above for Traffic Control Plan					
Item o	Impede the operation of a transit system as a result of congestion?	--	See Hazards and Hazardous Materials Item h above for Traffic Control Plan					

Certificate Of Completion

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Subject: Please DocuSign: RESO 9548 Certifying EIR Recycled Water.pdf
Source Envelope:
Document Pages: 85
Certificate Pages: 5
AutoNav: Enabled
EnvelopeID Stamping: Enabled

Status: Completed

Envelope Originator:
Tabatha Boatwright
250 Hamilton Ave
Palo Alto , CA 94301
tabatha.boatwright@cityofpaloalto.org
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Cara Silver
cara.silver@cityofpaloalto.org
Senior Assistant City Attorney
City of Palo Alto
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Hillary Gitelman
hillary.gitelman@cityofpaloalto.org
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Hillary Gitelman
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James Keene
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Security Level: Email, Account Authentication (None)
Electronic Record and Signature Disclosure:
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Agent Delivery Events

Status

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