

**AMENDMENT NO. 6 TO AGREEMENT A3675A
BETWEEN THE SANTA CLARA VALLEY WATER VALLEY WATER
AND GEI CONSULTANTS INC.**

This Amendment No. 6 (Amendment), effective as of the date it is fully executed by the Parties, amends the terms and conditions of Standard Consultant Agreement A3675A (Agreement) dated August 27, 2013, as amended by Amendment No. 1 dated June 11, 2015, Amendment No. 2 dated April 25, 2017, Amendment No. 3 dated September 3, 2020, Amendment No. 4 dated October 13, 2020, and Amendment No. 5 dated May 17, 2023, between SANTA CLARA VALLEY WATER DISTRICT (Valley Water) and GEI CONSULTANTS, INC., (Consultant), collectively the Parties.

WHEREAS, Consultant is currently providing professional planning and environmental services for the Calero and Guadalupe Dams Seismic Retrofits Project (Project);

WHEREAS, the Agreement currently expires on May 31, 2026;

WHEREAS, the Parties desire to extend the term of the Agreement to June 30, 2028, and to amend Revised Appendix One, Scope of Services to accommodate development of the Calero Dam Seismic Retrofit Project (CDSRP) and Guadalupe Dam Seismic Retrofit Project (GDSRP) Environmental Impact Reports (EIRs) and associated technical studies;

WHEREAS, the Parties desire to amend the Agreement to increase the Agreement's Not-to-Exceed Amount by **\$5,888,623**, resulting in a Total Not-to-Exceed Amount of **\$14,818,434**;

WHEREAS, the Parties desire to amend the Agreement to incorporate terms required by the Water Infrastructure Finance and Innovation Act (WIFIA) loan agreement between the U.S. Environmental Protection Agency (EPA) and Valley Water for the Project.

NOW, THEREFORE, in consideration of the mutual promises and agreements stated herein and notwithstanding anything to the contrary in the Agreement and Amendments No. 1, 2, 3, 4, and 5, Valley Water and Consultant hereby agree to amend the Agreement as follows:

1. Revised Appendix One, Scope of Services, is amended as set forth in the Revised Appendix One, Scope of Services, to the Revised Standard Consultant Agreement, attached hereto and incorporated herein by this reference.
2. Revised Appendix Two, Fees and Payments, is amended as set forth in the attached Revised Appendix Two, Fees and Payments, to the Revised Standard Consultant Agreement, attached hereto and incorporated herein by this reference.
3. Revised Appendix Three, Schedule of Completion, is amended as set forth in the attached Revised Appendix Three, Schedule of Completion, to the Revised Standard Consultant Agreement, attached hereto and incorporated herein by this reference.
4. All other terms and conditions of Agreement A3675A, Amendment No.1, Amendment No. 2, Amendment No. 3, Amendment No. 4, and Amendment No. 5 not otherwise amended herein, remain in full force and effect.

**AMENDMENT NO. 6 TO AGREEMENT A3675A
BETWEEN THE SANTA CLARA VALLEY WATER VALLEY WATER
AND GEI CONSULTANTS INC.**

**IN WITNESS WHEREOF, THE PARTIES HAVE SET FORTH BELOW THEIR CONSENT TO
THE TERMS AND CONDITIONS OF THIS AMENDMENT NO. 6 TO AGREEMENT A3675A
THROUGH THE SIGNATURES OF THEIR DULY AUTHORIZED REPRESENTATIVES.**

SANTA CLARA VALLEY WATER DISTRICT
Valley Water

By: _____
Tony Estremera
Chair, Board of Directors

Date: _____

GEI CONSULTANTS INC.
Consultant

Signed by:
By: Mark Freitas
Mark Freitas
Vice President

Date: 10/30/2025

Firm Address:

180 Grand Avenue, Suite 950
Oakland, CA 94612

ATTEST:

Candice Kwok-Smith
Clerk, Board of Directors

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**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
REVISED STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

CALERO AND GUADALUPE DAMS SEISMIC RETROFITS PROJECT

PLANNING AND ENVIRONMENTAL SERVICES

This Revised Appendix One Scope of Services, describes the professional planning and environmental services (Planning Consultant Services) tasks to be undertaken by the Consultant for the Calero and Guadalupe Dams Seismic Retrofit Project (Project), during the remainder of the Project planning and environmental services phase.

The purpose of the Planning Consultant Services is to provide planning and environmental studies that support Valley Water decisions and final designs (by others) to resolve seismic stability and flood and outlet risks at Calero and Guadalupe Dams.

I. PROJECT OBJECTIVES (REVISED)

- A. Valley Water's objectives for the Project are to make improvements necessary to:
 - 1. Stabilize the Calero and Guadalupe Dams embankments for the Maximum Credible Earthquake (MCE), modify or replace the outlet works if inadequate, and modify the spillways to increase freeboard during a Probable Maximum Flood (PMF) event or for additional seismic freeboard, if required;
 - 2. Relocate the Guadalupe Dam intake structure out of the upstream berm;
 - 3. Breach Fellow's Dike and address affected historic structures;
 - 4. Incorporate other measures to address seismic and other deficiencies that are identified through the Project delivery process.
- B. Planning Consultant's Services will support Valley Water's objectives for the Project as follows:
 - 1. Resolve the seismic deficiencies per the State of California, Department of Water Resources, Division of Safety of Dams (DSOD) standards. Attachment Four—Reference Materials provides a list of technical reference material applicable to this Project;
 - 2. Meet Valley Water's Dam safety and operation and maintenance requirements;
 - 3. Meet the requirements identified in Valley Water's Quality Management System procedures. Attachment Five—Valley Water Procedures & Work Instructions provides a list of Valley Water procedures and work instructions to be performed by the Consultant;

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

4. Meet the requirements of all federal, state, and local laws and regulations required for Project delivery;
5. Meet requirements of the resource and regulatory agencies (permitting agencies) including DSOD;
6. Address all stakeholders' interests;
7. Provide a recommended alternative for each dam to resolve the seismic deficiencies per DSOD and all other applicable engineering standards; and
8. Develop sufficient information and analysis to enable Valley Water's Board of Directors to make Project decisions.

II. INTENT (UNCHANGED)

- A. Consultant is responsible for the preparation of the planning study and environmental documents, and for providing Project management services associated with the Consultant's services. Consultant will be responsible for reviewing design work for consistency with the planning assumptions/requirements, and supporting Valley Water in securing resource agency permits.
- B. Conflict of Interest—Valley Water intends to retain construction management consultant services to support construction of the seismic retrofit of the Calero and Guadalupe Dams. The Consultant and its sub-consultants are precluded from being awarded a contract by Valley Water for construction management or construction of these two Dam projects. However, subcontractors, vendors, and suppliers providing non-professional services, such as but not limited to lab testing, soil borings, or other technical services may propose and/or contract with prime consultants or Valley Water for construction management services relating to the seismic retrofit of the Guadalupe and Calero Dams.

III. PROJECT BACKGROUND (REVISED)

This Project will remediate seismic deficiencies at Calero and Guadalupe Dams identified in the Seismic Stability Evaluation of Calero and Guadalupe Dams (SSE1B-B & SSE1B-C) Reports dated October 26, 2012, and May 22, 2012, respectively. The SSE1B findings conclude that the Calero and Guadalupe Dams have inadequate seismic stability, under the ground motions anticipated during a Maximum Credible Earthquake. There are currently reservoir operating restrictions on both reservoirs as interim risk reduction measures, until the seismic deficiencies are remediated. These restrictions have been approved by the Division of Safety of Dams (DSOD).

Valley Water imposed storage restrictions at Guadalupe Reservoir as an interim risk reduction measure and Valley Water has kept the reservoir storage at 18-feet below the

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

dam spillway crest.

Valley Water imposed storage restrictions at Calero Reservoir as an interim risk reduction measure and Valley Water has kept the reservoir storage at 19-feet below the dam spillway crest. A DSOD restriction on Calero Reservoir also exists due to deficiencies of Fellows Dike (which limits the upstream extent of Calero Reservoir). A Planning Study Report for the Calero/Fellows Dike was prepared in March 2010 by Valley Water staff. The staff-recommended project was to breach the dike and allow waters of Calero Reservoir to inundate lands beyond the current area of inundation.

Valley Water has kept water levels lower than normal in compliance with the interim risk reduction measures at Guadalupe Reservoir and Calero Reservoir since 2012 to prevent over spilling until Valley Water implements corrective actions to restore the integrity of the dams. Environmental review for the Calero Dam Seismic Retrofit Project (CDSRP, Component 1 of this contract) and Guadalupe Dam Seismic Retrofit Project (GDSRP, Component 2 of this contract) was initiated in 2018 but was halted due to Valley Water's focus as an organization on addressing seismic deficiencies at Anderson Dam and Reservoir, the largest reservoir in the County.

In December 2023, DSOD downgraded the Calero and Guadalupe Reservoirs from a status of "Fair" to "Poor." To progress the design of necessary improvements at Calero and Guadalupe Dams, Valley Water modified its approach to the design of Calero Dam including Fellows Dike, and Guadalupe Dam, and divided each dam into two construction phases, referred to as "Package A" and "Package B." This contract covers planning and environmental services for the entire Project, which include Package A and B for both the CDSRP and GDSRP. Valley Water is currently prioritizing work on Calero Dam, including the breaching of Fellows Dike, as Calero Reservoir serves as a critical water infrastructure facility and supplies drinking water to Valley Water treatment plants, in turn providing water to 1.8 million residents in Santa Clara County. Valley Water will continue to work on Guadalupe Dam at staged intervals between or after some work is completed on Calero Dam, including Fellows Dike.

Calero Dam:

Description of Dam and Reservoir

The Calero Dam was constructed in 1936. Calero Reservoir has a capacity of 9,934 acre-feet. The reservoir stores watershed runoff, imported water, and water diverted from Almaden Reservoir through the Almaden-Calero canal. The reservoir stores water for replenishing the groundwater system and supply to the treatment plants. The County of Santa Clara Parks and Recreation Department also operates a recreation program on the reservoir.

The dam is a zoned earth fill dam with upstream and downstream embankment zones. The upstream embankment zone is constructed with less pervious material to limit seepage. No internal drainage or filter zones are incorporated in the dam.

Calero Reservoir normally operates at its maximum operating level each year during the

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

winter and is drawn down during the period from late spring to early fall as the water is used. Water into the reservoir is regularly transferred from nearby Almaden Reservoir to Calero via the Almaden-Calero Canal, which has a capacity of about 100 cubic feet per second (cfs).

Spillway and Outlet Works

The spillway is a reinforced concrete channel located within the ridge about 900 feet from the right abutment of the dam. It has a weir length of about 82 feet and a capacity of 5,260 cfs.

The outlet works consist of a submerged intake structure with a hydraulically-operated slide gate, a 36-inch diameter, 481-foot long cast-in-place concrete outlet pipe with a steel liner under the dam, and a concrete outlet structure housing the control valves. The outlet is controlled downstream with a 30-inch butterfly valve operated from the outlet structure. Approximately 700 feet downstream of the dam, the outlet pipe is connected to the Almaden Valley Pipeline at the Calero Valve Yard, and includes a turnout to provide flow to Arroyo Calero.

Partial List of Issues to be Considered

Seismic deformation analysis has determined that unacceptable horizontal and lateral displacements will occur in Calero Dam and remediation of the seismic deficiencies are necessary.

Seepage at the abutment or through the embankment of Calero Dam has occurred since the first filling of the reservoir in 1937. Following investigations concrete lined ditches and weirs were installed in 1967 to collect and measure the seepage. Valley Water also implemented a grouting program in 1991 to attempt to reduce seepage through the right abutment. However, the grouting did not generally reduce the seepage at the dam. Given the complex relationship between the embankment and foundation it is likely that the design of an improved seepage collection system will require a more detailed understanding of the seepage sources for effective capture.

Over the years, Valley Water has examined the feasibility of increasing the Calero Reservoir capacity by raising the dam. A 1966 study found it feasible to raise the dam by 30 feet. A subsequent study in 1982 updated the 1966 study findings.

The most recent PMF study was performed by DSOD in 1981 using HMR 36 and HMR 49. DSOD policy after the 1999 release of HMR 58/59 requires that new dams or major work be designed under HMR 59. HMR 59 has a tendency to increase Probable Maximum Precipitation (PMP) values in small watersheds. The Calero spillway will also need to be upgraded to meet current DSOD requirements.

Fellows Dike

Fellows Dike is located along the southeast shore of Calero Reservoir. It is

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

approximately 1,900 feet long, with a height that ranges from zero feet at the south end to a maximum of approximately 12 feet at the north end.

Total storage of Calero Reservoir is 9,934 acre-feet. In January 1998, DSOD inspected Fellows Dike and determined that the dike is under their jurisdiction. The dike was found to be in poor condition and DSOD requested that no water be stored against it which resulted in a reduction of 2,000 acre feet or 20% of total storage capacity at Calero Reservoir. Subsequently, a geotechnical investigation conducted on Fellows Dike in 2001 found that the dike would need improvement to bring the facility up to DSOD standards before it could impound water. The dike foundation adjacent to Calero Creek contains several pockets of soils that may liquefy under heavy earthquake shaking.

A minimum operational level of 4,000 acre-feet of water in Calero Reservoir is required for emergency conditions. Therefore, the impact of the 2,000 acre-feet of water loss is that the active storage is reduced from approximately 6,000 acre-feet to 4,000 acre-feet.

A Planning Study Report for the Fellows Dike was prepared in March 2010 by Valley Water staff. The staff-recommended project was to breach the dike and allow waters of Calero Reservoir to inundate lands beyond the current area of inundation. The CDSRP components at Fellows Dike includes demolishing four existing facilities, relocating one historic structure (i.e., the Bailey-Fellows House) above the inundation elevation, treating contaminated soils to acceptable levels (complete), breaching the mid-section of dike, and replanting lost vegetation from dike breach.

Guadalupe Dam

Description of Dam and Reservoir

The Guadalupe Dam was constructed in 1936. The reservoir has a capacity of 3,460 acre-feet.

The Guadalupe Dam was designed as an earthfill dam with upstream and downstream embankment zones. The upstream and downstream slopes are approximately 2.5H:1V. Subsequent investigations have shown the upstream and downstream embankment materials are similar in nature and engineering characteristics, thus the dam could essentially be treated as a homogeneous dam. No internal drainage or filter zones are incorporated in the dam.

The upstream embankment was buttressed in 1972 with a compacted clay berm designated as the upstream berm that starts at about El. 572.3 ft (NAVD88) and slopes down at about 5H:1V into the reservoir. The new embankment berm was constructed on the upstream face to stabilize an incipient tension crack indicative of possible slope failure observed in the center of the embankment. A concrete parapet wall was also constructed along the crest of the dam, near the upstream face, to restore about 2.5 ft. freeboard lost to normal embankment settlement. The wall is about 536 ft. long.

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

Spillway and Outlet Works

The spillway is a reinforced concrete-lined side-weir channel cut into the left abutment and has a capacity of 9,000 cfs.

The outlet works consists of an intake structure, an outlet pipe and an outlet structure. The intake is 72-inch-diameter reinforced concrete box-type structure which was modified in 1972. The estimated deformations of the upstream embankment / berm have the potential to impact the intake and associated hydraulic lines that control the slide gate in the intake structure. Centered underneath the dam is the low-level outlet pipe which is a 36-inch-diameter, 720-foot long cast-in-place concrete pipe with steel liner. The outlet structure is located at the downstream toe and includes a 30-inch butterfly valve used to control flow to Guadalupe Creek. The outlet pipe discharges to a stilling basin before reaching the creek channel.

Partial List of Issues to be Considered

The draft 2008 hydrology study using HMR 59 indicated that the spillway will pass the PMF. During the PMF, reservoir will be up against the parapet wall. It will need to be determined if the wall is structurally capable of withstanding the PMF behind the parapet wall.

Seismic deformation analysis has determined that unacceptable horizontal and lateral displacements will occur in Guadalupe Dam and remediation of the seismic deficiencies are necessary.

Seismic deformation analysis undertaken has determined that a lateral displacement near the upstream toe of the embankment could be as high as 4 feet. The existing intake structure is not expected to survive the lateral displacement. The inlet structure will need to be moved outside the footprint of the deformed embankment.

IV. PROJECT COMPONENTS AND ELEMENTS (REVISED)

The Project involves improvements to three Valley Water facilities which are inter-related. This Project has two Components:

- Component 1 refers to Calero Dam including Fellows Dike, and,
- Component 2 refers to Guadalupe Dam.

As detailed above in Section III., Project Background, Valley Water is prioritizing work on Calero Dam, including Fellows Dike, while continuing to advance work on Guadalupe Dam. The improvements to these Components consist of:

- A. Component 1: Improvements to stabilize the Calero Dam embankments for the Maximum Credible Earthquake, modify or replace the outlet works, and modify the spillway and the embankments to increase freeboard during a PMF event.

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

Improvements also include the breach of Fellows Dike and relocation of historical structures.

- B. Component 2: Improvements to stabilize the Guadalupe Dam embankments for the Maximum Credible Earthquake, modify or replace the outlet works, and modify the embankment and spillway to increase freeboard during a PMF event.

As detailed above in Section III., Project Background, of this contract, Valley Water has organized elements of CDSRP and GDSRP into Package A and Package B for construction. This organization will allow Valley Water to demonstrate progress to DSOD on the retrofits of Calero Dam, including Fellows Dike, and Guadalupe Dam. Retrofit elements of both dams would be constructed either through Package A or Package B for each dam as identified below.

Calero Dam including Fellows Dike (Component 1) elements known to be included are:

- Main Dam and Auxiliary Dam Embankments (Package A)
- Relocation of Bailey-Fellows House and breaching of Fellows Dike (Package A)
- Spillway (Package A)
- Valve Yard Levee (Package A and B)
- Intake structure (to meet Valley Water requirement of out of water inspectable hydraulic lines and controls) (Package B)
- Outlet structure (as existing structure will most likely be buried by the downstream buttress) (Package B)

Guadalupe Dam (Component 2) elements currently known to be included are:

- Embankment (Package A)
- Spillway (Package A)
- New dam crest access from Hicks Road (Package A)
- Intake structure (to move it away from the footprint of the seismically deformed embankment) (Package B)
- Outlet structure (as existing structure will most likely be buried by the downstream buttress) (Package B)

The seismic improvements to Calero Dam, including Fellows Dike, and Guadalupe Dam, would be constructed in two packages (Package A and Package B). The Dams and respective project elements have been redesigned to reflect this construction sequencing. Thus, substantially different project descriptions for each Dam are currently being pursued by Valley Water in contrast with those previously assumed in the original contract and Amendments 1 through 5.

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

V. PROJECT TASKS (REVISED)

The Planning Consultant will perform the services described in this Scope of Services. The Consultant will prepare a Planning Study Report (PSR) for each of the Components 1 and 2. The PSR for Fellows Dike has previously been prepared by Valley Water. The recommendations of that PSR will be incorporated by the Consultant into the PSR for Component 1. The California Environmental Quality Act (CEQA) document/s for the entire Project (both Components) will be prepared by the Consultant. The Consultant will prepare two CEQA documents, one for Component 1 and one for Component 2. The Consultant will submit the CEQA deliverables for Component 1 and Component 2 as independent documents on a staggered basis to facilitate Valley Water review.

Services to be provided by the Consultant are described in the tasks below.

Consultant must receive written authorization from Valley Water Project Manager prior to initiating work on any of the tasks and subtasks identified as "conditional."

TASK 1 - PROJECT MANAGEMENT (REVISED)

Subtask 1.1 Prepare Planning Phase Work Plan

Subtask 1.2 Provide Monthly Project Status/Progress Reports

Subtask 1.3 Attend Monthly Progress Meetings/Coordination

Subtask 1.4 Plan and Attend Workshops/Coordination Meetings

TASK 2 - PLANNING STUDY (COMPLETE)

Subtask 2.1 Prepare Problem Definition

Subtask 2.1.1 Perform Background Review and Data Collection

Subtask 2.1.2 Conduct Investigations and Analysis

Subtask 2.1.2.1 Prepare PMP and PMF Hydrologic Studies for Calero and Guadalupe Reservoirs:

Subtask 2.1.2.2 Perform Additional Geotechnical Foundation Investigation for Downstream Buttress.

Subtask 2.1.2.3 Analyze Seepage at Calero Dam

Subtask 2.1.2.4 Provide Assessment of Outlet Works at Calero Dam and at Guadalupe Dam for Emergency Drawdown

Subtask 2.1.2.5 Perform Condition Assessment of Calero Reservoir Outlet Works - Conditional:

Subtask 2.1.2.6 Perform Condition Assessment of Guadalupe Reservoir Outlet Pipe - Conditional

Subtask 2.1.2.7 Inspect and Evaluate Upstream Concrete Slope Panels at

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

Guadalupe Dam.

Subtask 2.1.3 Prepare Problem Definition Report

Subtask 2.2 Prepare Planning Study Report

Subtask 2.2.1 Develop Alternative Evaluation Methodology

Subtask 2.2.2 Prepare Cost-Benefit Analysis (Guadalupe Dam Only)

Subtask 2.2.3 Prepare Feasible Alternatives Report

Subtask 2.2.4 Develop Staff-Recommended Alternative

Subtask 2.2.5 Prepare Planning Study Report

Subtask 2.2.6 Prepare Transition Reports

TASK 3 - ENVIRONMENTAL DOCUMENTATION AND PERMIT SUPPORT (REVISED)

Subtask 3.1 Develop Initial Regulatory and CEQA strategy, and coordination with regulatory agencies

Subtask 3.2 Perform Environmental Investigations and Studies

Subtask 3.2.1 Gather and Organize Environmental Information Relevant to the Project

Subtask 3.2.2. Prepare Base Map

Subtask 3.2.3 Summarize Environmental Conditions Based on Existing Data

Subtask 3.2.4 Prepare Field Investigation Plan

Subtask 3.2.5 Conduct Field Investigations

Subtask 3.3 Prepare Project Description and Initial Study Checklist (IS)

Subtask 3.3.1 Prepare Project Description

Subtask 3.3.2 Prepare Initial Study Checklist (IS)

Subtask 3.4 Prepare Draft Environmental Impact Report

Subtask 3.4.1 Prepare Notice of Preparation

Subtask 3.4.2 Conduct Environmental Scoping

Subtask 3.4.3 Prepare Administrative Draft EIR (ADEIR)

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

Subtask 3.4.4 Prepare Draft EIR

Subtask 3.5 CEQA Public Noticing and Participation Requirements

Subtask 3.5.1 Prepare Information for Valley Water Website and Filing Draft EIR with the State Clearinghouse

Subtask 3.5.2 Prepare Notice of Completion for Filing with State Clearinghouse

Subtask 3.5.3 Prepare for and Attend Public Hearing

Subtask 3.5.4 Respond to Public Comments

Subtask 3.6 Prepare Final Environmental Impact Report

Subtask 3.6.1 Prepare Final EIR

Subtask 3.6.2 Prepare Findings and Statement of Overriding Considerations

Subtask 3.6.3 Prepare Notice of Determination (NOD)

Subtask 3.6.4 Assist with Public Hearing and Certification of EIR

Subtask 3.6.5 Prepare the Administrative Record for the Final EIRs

Subtask 3.7 Support Regulatory Permitting

Subtask 3.7.1 Assist with Initial Regulatory Agency Consultation

Subtask 3.7.2 Prepare Draft Permit Applications

Subtask 3.7.3 Prepare Habitat Mitigation and Monitoring Plan

Subtask 3.7.4 Prepare Final Permit Applications

Subtask 3.7.5 Provide Support during Permit Negotiation

Subtask 3.7.6 Prepare Habitat Revegetation and Tree Replacement Plan

Subtask 3.8 NEPA Support Services

TASK 4 - DEVELOP ON-SITE BORROW AND SPOIL REQUIREMENTS (COMPLETE)

Subtask 4.1 Conduct a Borrow and Spoil Siting and Suitability Study

Subtask 4.2 Identify Preferred Borrow and Spoil Sites

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

TASK 5 - DESIGN SUPPORT (REVISED)

Subtask 5.1 Review of 50% Design Deliverables for Package A

Subtask 5.2 Review of 90% Design Deliverables for Package A

Subtask 5.3 Review of 50% Design Deliverables for Package B

Subtask 5.4 Review of 90% Design Deliverables for Package B

Subtask 5.5 Other Design Support

TASK 6 - SUPPLEMENTAL SERVICES (REVISED)

A detailed description of each task is given below along with the main assumptions and deliverables.

TASK 1 - PROJECT MANAGEMENT (REVISED)

The objective is to develop and integrate planning phase scope, schedule, cost, quality, risk, staffing, communication, and resources in a manner to fulfill the terms of the Agreement. The scope and deliverables will include the items described below.

Subtask 1.1 - Prepare Planning Phase Work Plan (COMPLETE)

1. The Consultant will develop the work plan in accordance with Valley Water's Quality Environmental Management System (QEMS) document #W75102. The work plan will consist of a stand-alone document that provides discussions of Project Objectives identified above and detailed descriptions of the specific work to be performed. The work plan will detail the Consultant's approach to undertaking the two Components: Calero Dam (including Fellows Dike) (Component 1), and Guadalupe Dam (Component 2), Scope of Services, while integrating specific subtasks of the work for efficiency, where feasible. At a minimum, the Planning Phase Work Plan will include: the Consultant team organization; team member roles and responsibilities; stakeholder, management, document control, and team communication, coordination and protocols; technical and managerial work activities, quality assurance and quality control plan; key deliverables; task level resource and cost-loaded schedule; Project controls and reporting.
2. Consultant will provide a quality assurance and control (QA/QC) plan as a section of the Planning Phase Work Plan describing the Consultant's procedures to document that Consultant's services and deliverables meet Valley Water requirements and accepted practices and standards of Consultant's and its subconsultants professions. The QA/QC plan must contain details and methodology for reviewing Consultant deliverables including calculations, Technical Memorandums (TMs), cost estimates, plans and specifications, and

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

inter-disciplinary and constructability reviews prior to submittal of such deliverables to Valley Water. Consultant must provide, upon Valley Water request, records to demonstrate that QA/QC reviews were performed on Consultant's and subconsultants' deliverables.

3. Consultant will prepare an overall Microsoft® Project Schedule for the Project services to lay out the tasks and milestones for the planning and environmental evaluations. Consultant will monitor compliance with the schedule, update it monthly as necessary, and distribute it for review at monthly progress meetings. The schedule will include all preparation, permitting, environmental compliance, geotechnical field investigations, survey, laboratory testing, engineering analyses, and report preparation, and time for Valley Water to review deliverables necessary to meet the Project Objectives. The schedule will recognize and incorporate key milestones of the Project that are critical for the timely completion of the Project.

Subtask 1.1 - Assumption

None.

Subtask 1.1 - Deliverables

1. Draft and Final Planning Phase Work Plan (Complete)
2. Draft and Final Updated Planning Phase Work Plan (Complete)

Subtask 1.2 - Provide Monthly Project Status/Progress Reports

1. The Consultant will provide monthly Project status/progress reports to Valley Water. The status reports will provide a brief summary of the work performed and the remaining work for each task. The Project status/progress report will include milestones and deliverables completed to date, an updated schedule, estimate of work required to complete the Project, and any anticipated changes to the Agreement that may be necessary to complete this Scope of Services. Any fees or time constraints, and corrective actions if appropriate, will be documented in the monthly Project status/progress reports.
2. The monthly Project status/progress report will include:
 - a. An assessment of actual versus planned progress in completing the Scope of Services, including a description of the tasks, and deliverables completed to-date;
 - b. For each task, the percentage of services performed versus the percentage of fees incurred for such task, and explanation of any significant variances in percentage of services performed compared to percentage of fees incurred;

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

- c. For each task, the percentage of the fees incurred for such task compared to dollar amount allocated to such task;
- d. A statement that all tasks will be completed within the agreed upon not-to-exceed total amount of this Agreement described in Appendix Two, Fees and Payments;
- e. A statement that progress in the performance of this Scope of Services required by this Agreement is on schedule within the time line set forth in Appendix Three, Schedule of Completion; or, if completion of the services is not on schedule, a statement of the anticipated length of the delay, the cause of the delay, measures proposed or taken to prevent or minimize the delay, and the timeline for implementation of such measures;
- f. A look-ahead schedule listing deliverables and activities planned for the next 2 months;
- g. A summary of proposed changes to the Scope of Services, if required, including justifications for such changes;
- h. A Small Business Enterprise (SBE) participation report to document the level of SBE participation throughout the Project;
- i. Action Item and Decision Log: This log will document action items and Project concerns and issues throughout the term of the Agreement which require resolution by Valley Water and/or Consultant; and
- j. Draft billing statements, transmitted with the monthly Project status/progress reports, will be organized such that the billing categories correspond with the Scope of Services tasks. Draft billing statements will include a summary of labor expenditures, direct costs, and billed sub-consultant charges. Draft billing statements will be prepared in accordance with the requirements stated in the Standard Consultant Agreement, Section IV Fees and Payment, as well as Appendix Two, Fees and Payments. An Adobe PDF version will be provided by Consultant for preliminary review by Valley Water.

Subtask 1.2 - Assumptions

- 1. Monthly Project status/progress reports will be provided during the Agreement term as directed by Valley Water.
- 2. Valley Water will provide a billing and reporting template at kick-off meeting.

Subtask 1.2 - Deliverables

- 1. Monthly Project status/progress reports (MSWord and MS Excel)

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

2. Draft monthly billing statement

Subtask 1.3 - Attend Monthly Progress Meetings/Coordination (REVISED)

1. The Consultant will attend monthly progress meetings at Valley Water offices (in San Jose, CA), as well at the DSOD offices (in Sacramento, CA) as necessary and directed by Valley Water. At least one week prior to the meetings the Consultant will prepare and forward the meeting agenda to Valley Water. Following each progress meeting, the Consultant will prepare and submit a draft electronic copy of the meeting summary notes to Valley Water's Project Manager for review and comment. Consultant will incorporate review comments and will submit final meeting minutes notes to Valley Water. The monthly meetings will inform Valley Water and Project members of progress to date, key issues and critical activities.
2. Telephone conference calls (at least once every week) will occur between Valley Water's Project Manager and Consultant Project Manager to coordinate specific activities occurring and to discuss Project issues and needs.
3. In addition to Consultant's monthly progress meetings, Consultant will provide Project management services that include coordination of its subconsultants, managing its subconsultant invoicing and payment, and managing the requirements for SBE participation and contracting.
4. Consultant will establish a password-protected website (SharePoint), or will use Valley Water-provided SharePoint, where available information will be compiled for access by Valley Water and Consultant team members.
5. All Project-related correspondence with DSOD and permitting agencies will be through Valley Water.

Subtask 1.3 - Assumptions

1. Thirty-six (36) Monthly Progress meetings were assumed to occur over the term of the original Agreement. (Complete)
2. Each of the telephone conference calls were assumed to last no more than one hour.
3. Thirty-six (36) additional Monthly Progress meetings were assumed to occur from December 2016 to December 2019. (Complete)
4. Thirty-six (36) additional Monthly Progress meetings were assumed to occur from January 2020 to December 2022. (Complete)
5. Forty-one (41) additional monthly meetings were assumed to occur from January 2023 to May 2026.
6. Twenty-one (21) weekly planning and permitting coordination meetings were assumed to occur from July 25, 2024, to December 13, 2024. (Complete)

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

7. One hundred sixty-two (162) twice weekly planning and permitting coordination meetings are assumed to occur from December 16, 2024, to June 29, 2026.
8. Twenty-five (25) additional monthly progress meetings are assumed to occur from June 2026 to June 2028.
9. Two hundred eight (208) environmental planning and permitting meetings, expected twice a week with Valley Water, from July 2026 to June 2028.

Subtask 1.3 - Deliverables

1. Draft and Final meeting agendas and meeting notes, when requested by Valley Water
2. Use of the CDSRP-GDSRP SharePoint site for shared access to compiled Project information

Subtask 1.4 -Plan and Attend Workshops/Coordination Meetings

1. The Consultant will plan and attend "issue specific" workshops and coordination meetings as detailed in this Scope of Services. These meetings and workshops will be held at key decision points, and when consensus or stakeholder outreach is required, as determined by Valley Water. The Consultant will also prepare, organize, and attend a kick-off meeting with Valley Water to review the Project scope of services schedule, design requirements etc.
2. At least one week prior to the meeting/workshops, the Consultant will prepare and forward the meeting/workshop agenda to Valley Water. Workshops will include topical presentations by the Consultant and Valley Water (as needed), discussion, documentation, and action items.

Subtask 1.4 - Assumptions

1. The Consultant will conduct 19 workshops/review meetings on Calero Dam (including Fellows Dike) (Component 1) and, Guadalupe Dam (Component 2) for the following topics:
 - a. Project kick-off meeting (combined meeting for Component 1 and Component 2). (Complete)
 - b. PMP / PMF workshop (combined meeting for Component 1 and Component 2). (Complete)
 - c. Project Requirements and Risk Management workshop (combined meeting for Component 1 and Component 2). (Complete)
 - d. Development of alternatives criteria (combined meeting for Component 1 and Component 2). (Complete)
 - e. Borrow and spoil siting (combined meeting for Component 1 and Component 2). (Complete)

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

- f. Evaluation and ranking of Alternatives (separate meetings for Component 1 and Component 2). (Complete)
 - g. Feasible Alternatives workshop (separate meetings for Component 1 and Component 2). (Complete)
 - h. Planning Study Report review meeting (separate meetings for Component 1 and Component 2). (Complete)
 - i. Environmental (CEQA) kick-off (combined meeting for Component 1 and Component 2). (Complete)
 - j. Environmental permitting (separate meetings for Component 1 and Component 2).
 - k. Re-initiation of CEQA documentation (separate meetings for Component 1 and Component 2).
 - l. Additional review meeting for CEQA documentation.
 - m. Environmental (NEPA) kick-off with federal lead agency (separate meetings for Component 1 and Component 2).
2. The meetings/workshops will appropriately consider Fellows Dike.

Subtask 1.4 - Deliverables

- 1. Meetings / Workshops
- 2. Draft and Final Meeting materials (agenda and handouts)
- 3. Draft and Final Meeting minutes

TASK 2 - PLANNING STUDY (COMPLETE)

- 1. The Consultant will prepare two Planning Study Reports (PSRs), one for Calero Dam and Fellows Dike (Component 1) and one for Guadalupe Dam (Component 2). These separate PSRs will be used as the basis for separate CEQA documents.
- 2. The Consultant will develop and evaluate alternatives which meet the Project Objectives and will identify a recommended Project for the design phase for both Calero Dam (including Fellows Dike) and Guadalupe Dam, which maximizes the benefit to life-cycle cost ratio for Valley Water. Project requirements and objectives will be established by Valley Water and reviewed by the Consultant. The Planning Study Scope of Services and deliverables will be performed and prepared in accordance with Valley Water's QEMS procedures included in Appendix One, Attachment Seven. The Planning Phase investigations and analysis shall be consistent with Valley Water's Water Supply and Infrastructure Master Plan (WSIMP) incorporated herein by this reference.

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

Subtask 2.1 - Prepare Problem Definition

Under subtask 2.1 Consultant will prepare draft and final Problem Definition Reports (PDRs). The PDRs will incorporate all activities required to define the Project problem, background research and data collection, field investigations, understanding of the subject facilities and related faculties, and confirmation of objectives, constraints, and opportunities. The PDRs will also include a section on technical and Project risks. The Consultant will perform the following subtasks in close coordination with Valley Water staff to develop PDRs that will provide a sound basis for the subsequent PSRs.

Subtask 2.1.1 - Perform Background Review and Data Collection

Subtask 2.1.1 - Consists of Activities A through E as described below:

- A. Assemble Available Information. The Consultant will assemble available information provided by Valley Water as well as collecting information/data that may be available from other sources, as identified by Valley Water, to confirm and document the problem, constraints, and options. The Consultant will also consult with Valley Water staff to confirm the customer/partner/stakeholder list, Project challenges, Project Requirements, objectives, and operational and environmental constraints. The Consultant will be responsible for obtaining all Project requirements and constraints from Valley Water, DSOD, resource agencies and other stakeholders. The Consultant will work through Valley Water to conduct stakeholder interviews to confirm Project interests, determine and rank selection criteria.

Review Existing Data. The Consultant will review existing analyses, reports, memoranda, and, correspondence relative to the Project. The review will include documents relevant to the potential Dam modification, outlet modification, and, spillway modification. The Consultant will review and confirm Project specific and Valley Water-wide objectives with Valley Water, DSOD, and other resource agencies and stakeholders.

- B. Collect Right-of-Way Information. Consultant will collect property boundaries and delineation/tract register information.
- C. Collect Utility and Encroachment Information. Consultant will collect utility and encroachment information within the maximum probable Project footprint.
- D. Field Reconnaissance. Consultant will perform field reconnaissance of the Project site and potential borrow areas to support feasibility level design activities.

Subtask 2.1.1 - Assumptions

1. Valley Water will provide electronic copies (if available) of information for use by the Consultant.

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

2. Valley Water will provide boundary information in a hard copy format and electronic files (GIS and/or AutoCAD) for incorporation into Consultants maps.
3. Activity C includes one meeting with Valley Water's Real Estate Services Unit to discuss strategies and schedules for reconnaissance/field study access onto adjacent properties, and Valley Water procedures for field clearances to incorporate in Consultant's field work plans. Meeting will also include discussion of temporary construction or permanent easements that may be needed for conceptual alternatives to be considered in the planning phase.
4. Activity D assumes review of existing utility and encroachment information is limited to expected on-site use areas of Valley Water reservoirs. If utility and encroachment studies are required for off-site areas, these services would be developed under Task 6, Supplemental Services.
5. Field reconnaissance under Activity E will be conducted by Consultant in the company of Valley Water staff who are familiar with the dams and can arrange access, and includes visual inspections and photographs of the following key facilities/areas:
 - a. Spillway areas of both dams, to evaluate potential modifications to the spillway and prepare for the PMP and PMF studies, as described in Subtask 2.1.2 1.
 - b. The right abutment and other areas of Calero Dam to observe the extents of historic seepage and to assist in the scoping any additional geologic reconnaissance or subsurface exploration programs that would be necessary for the seepage evaluation described in Subtask 2.1.2.3.
 - c. Outlet works of both dams to observe downstream areas such as the stilling box and downstream outlet structures, and visible portions of the upstream control facilities above the reservoir waterline. The Corrosion and ROV sub-consultants will also be on-site during this reconnaissance to observe the upstream outlet condition, and plan for underwater video inspections and of the intake towers and outlet pipes and hydraulic lines, as described in Subtasks 2.1.2.5 and 2.1.2.6.
 - d. Upstream concrete slope panels at Guadalupe Reservoir to photograph and observe visible portions of the concrete above the reservoir waterline.
6. Except for deliverables noted below, information, observations and conclusions from Subtask 2.1.1 will be incorporated into the PDRs pursuant to Subtask 2.1.3.

Subtask 2.1.1 – Deliverables (COMPLETE)

1. Memoranda listing documents reviewed (one for Calero Dam (including Fellows Dike) and one for Guadalupe Dam)

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

2. Memoranda confirming Project Objectives and Project Requirements (one for Calero Dam (including Fellows Dike) and one for Guadalupe Dam)

Subtask 2.1.2 - Conduct Investigations and Analysis

Consultant will perform the following:

Subtask 2.1.2.1 - Perform PMP and PMF Hydrologic Studies for Calero and Guadalupe Reservoirs

The Consultant will perform a modified HMR Report No. 58/59 study for Calero and Guadalupe Reservoirs following DSOD Interim Hydrology Policy. Based on the PMP results, a PMF analysis will be prepared to calibrate and verify the PMF runoff models and propose spillway modifications necessary to pass the PMF. The Consultant will support Valley Water in its negotiations with DSOD regarding spillway modifications designed to pass 1) the HMR 36 PMF or 2) the modified HMR 58/59 PMF. The result of the PMP/PMF studies will be selection of the design basis flood for subsequent planning and future design.

Subtask 2.1.2.1 - Assumption

None.

Subtask 2.1.2.1 – Deliverable (COMPLETE)

1. PMF Report (one each for Calero and Guadalupe Reservoirs) including spillway modification details

Subtask 2.1.2.2 - Perform Additional Geotechnical Foundation Investigation for Downstream Buttress.

The Consultant will drill and sample up to 6 exploratory borings downstream of the existing Calero and Guadalupe Dam embankments (3 at each dam) to identify the thickness and stratigraphy of existing alluvium and the depth of and lateral extent of work necessary for conceptual design of a stability buttress. The Consultant shall be responsible for obtaining all permits, permissions, approvals and preparing all CEQA documentation required for investigations to be performed. The geotechnical data obtained under this subtask will be appended to the Transition to Design Report prepared under Subtask 2.2.6.

Subtask 2.1.2.2 - Assumptions

Consultant will design the geotechnical studies with the goal of avoiding impacts through the proper timing and placement of study locations. Consultant will attempt to design the studies to avoid impacts to wetlands, sensitive species habitat, and cultural resources sites and include avoidance and minimization measures such as pre-study surveys to avoid impacts. If impacts can be avoided, it is assumed that the work can be conducted

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

under a CEQA Section 15306 (Class 6) Categorical Exemption for information collection and Consultant will prepare Categorical Exemption documentation under Valley Water guidance for their preferred format. If impacts cannot be reasonably avoided then Consultant will prepare a brief Initial Study and Negative Declaration or Mitigated Negative Declaration to satisfy CEQA requirements under Task 6, Supplemental Services.

Subtask 2.1.2.2 – Deliverables (COMPLETE)

1. Geotechnical Exploration Memorandum (one each for Calero and Guadalupe Dam) summarizing the results of the additional exploration at the dams
2. Geotechnical data Appendix to the Transition to Design Report (one each for Calero and Guadalupe Dam)
3. CEQA documentation for approvals and permits required for site investigations

Subtask 2.1.2.3 - Analyze Seepage at Calero Dam

1. The Consultant shall review existing information and assess the areas of historic seepage at the embankment of Calero Dam. Seepage conditions at Calero Dam are generally due to the combined effects of challenges faced during dam construction and complex geologic conditions in the dam foundation. Seepage appears to daylight in three distinct areas termed by Valley Water as the “right abutment,” the “embankment,” and the “left toe” areas. The Consultant will address Valley Water’s requirement to improve the overall seepage monitoring and collection system.

The Consultant shall submit a Technical Memorandum to Valley Water on the problem with recommendations for any geotechnical investigation as needed. After such geotechnical investigation, the Consultant shall submit a Report to Valley Water outlining options for an improved seepage collection and monitoring system as well as recommendations. The recommendations, if approved, shall eventually be incorporated in the Staff-Recommended Alternative.

Subtask 2.1.2.3 - Assumptions

Consultant will design the geotechnical studies, if needed, with the goal of avoiding impacts through the proper timing and placement of study locations. Consultant will attempt to design the studies to avoid impacts to wetlands, sensitive species habitat, and cultural resources sites and include avoidance and minimization measures such as pre-study surveys to avoid impacts. If impacts can be avoided, it is assumed that the work can be conducted under a CEQA Section 15306 (Class 6) Categorical Exemption for information collection and Consultant will prepare Categorical Exemption documentation under Valley Water guidance for their preferred format. If impacts cannot be reasonably avoided then Consultant will prepare a brief Initial Study and Negative Declaration or

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

Mitigated Negative Declaration to satisfy CEQA requirements as a Supplemental Services task.

Subtask 2.1.2.3 – Deliverables (COMPLETE)

1. Technical Memorandum on historic seepage at Calero Dam
2. Report on Improved Seepage Collection and Monitoring System at Calero Dam
3. CEQA documentation for approvals and permits required for site investigations

Subtask 2.1.2.4 - Provide Assessment of Outlet Works at Calero Dam and Guadalupe Dam for Emergency Drawdown

Based on information collected and existing data reviewed in Subtask 2.1.1 the Consultant shall analyze the hydraulic capacity of the outlet works at both Calero Dam and Guadalupe Dam and their ability to meet DSOD emergency drawdown requirements as well as other Valley Water operational requirements. The Consultant will present the information with analysis and recommendations in Technical Memoranda, one for Calero Dam and one for Guadalupe Dam.

Subtask 2.1.2.4 - Assumption

None.

Subtask 2.1.2.4 – Deliverable (COMPLETE)

1. Draft and Final Technical Memoranda on Assessment of Outlet Works for Emergency Drawdown (one for Calero Dam (including Fellows Dike) and one for Guadalupe Dam)

Subtask 2.1.2.5 - Perform Condition Assessment of Calero Reservoir Outlet Works

The outlet works include the intake structure with hydraulically operated slide gates in the reservoir, a 36-inch diameter 481-foot long concrete jacketed steel outlet pipe under the main dam and a concrete outlet containing a stilling box and a weir.

1. If the existing outlet has adequate hydraulic capacity to meet emergency drawdown and expected operational requirements (based on the review of existing information from Subtask 2.1.1, the ability of the existing outlet facilities to meet DSOD emergency drawdown requirements and Valley Water operating requirements) the Consultant shall inspect and perform a condition assessment of the Calero Reservoir outlet works
2. The Consultant shall inspect and evaluate replacement of the hydraulic system lines and related appurtenances at Calero Reservoir. The replacement options evaluated would keep the hydraulic lines away from contact with water. Some of these options may mean modifying the inlet structure to locate all valves and

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

hydraulic lines from the reservoir so that their maintenance can occur without lowering the reservoir.

3. The Consultant will conduct a condition assessment using under water video for accessible submerged areas as well as Remote Operated Vehicles (ROV) for inspection of the outlet pipe. Prior to underwater or conduit inspections, Consultant and marine subcontractor will prepare a detailed work plan for the condition assessment in concert with Valley Water operations and maintenance staff; such plan will consider stream-flow maintenance requirements identified in the Dam Maintenance EIR, Valley Water operational and access procedures, and health and safety requirements.

Subtask 2.1.2.5 - Assumptions

1. A 1-day dive inspection of the intake structure at Calero Dam to visually observe conditions and obtain video documentation and inspector observations of conditions at the intake structure. The dive inspection will be performed by a diver with experience doing underwater condition assessments of structural concrete and steel, and mechanical equipment.
2. A 1- to 2-day ROV inspection of the outlet conduit at Calero Dam using either: (1) in-the-dry inspection with the upstream gate closed and the downstream valve open, and using a track-mounted ROV inserted from the downstream end; or (2) in-the-wet inspection with the upstream gate open and the downstream valve closed, and using a neutral-buoyancy ROV inserted from the upstream end that can be "flown" down the pipe. The ROV will obtain video images and a real time narrative of observations by the inspector that are approximately registered along the length of the pipe by tether length. Depending on the size and capabilities of equipment that can access the pipe through the gates/valves, for the in-the-dry option, it may also be possible to gather supplemental quantitative data such as UT tests and or laser/sonar profile information to gather dimensional information about the pipe, sediment and any potential obstructions.
3. During dive and ROV inspections, Valley Water will provide pump-over of reservoir water during shutdown of the outlet works as needed to maintain minimum stream flows called for in the Dam Maintenance EIR.
4. Valley Water staff will open valves and remove pipe flanges/manways as necessary to insert and retrieve the ROV, and provide operation and lockout/tagout of gates valves as needed during the inspections.
5. Hydraulic system inspections include: (1) inspection of the underwater hydraulic line/gate connections during dive inspections , (2) visual inspection of the upper connections at the control house and exposed conduits above the reservoir water levels, and (3) interview of operations staff to obtain anecdotal information about O&M procedures and past leakage issues and repairs.

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

Subtask 2.1.2.5 – Deliverable (COMPLETE)

1. Section in Problem Definition Report detailing the assessment and evaluation

Subtask 2.1.2.6 - Perform Condition Assessment of Guadalupe Reservoir Outlet Pipe

The outlet works consists of a 72-inch-diameter reinforced concrete intake tower housing a 48-inch-diameter corrugated steel riser, a low-level outlet pipe which is a 36-inch-diameter 720-foot long welded steel outlet pipe encased in concrete, and an outlet structure located at the downstream toe that includes a 30-inch butterfly valve used to control flow to Guadalupe Creek.

1. If the existing outlet has adequate hydraulic capacity to meet emergency drawdown and expected operational requirements (based on the review of existing information from Subtask 2.1.1, the ability of the existing outlet facilities to meet DSOD emergency drawdown requirements and Valley Water operating requirements) the Consultant shall inspect and perform a condition assessment of the Guadalupe Reservoir outlet pipe.
2. Replacement of the intake structure and hydraulic lines is required due to the requirement to move the inlet structure away from the seismically deformed embankment footprint. The outlet structure will also need to be replaced as it will most likely be buried by the downstream buttress. Therefore only the outlet pipe will be inspected by Consultant.
3. Consultant will conduct the condition assessment using under water video for accessible submerged areas as well as ROV for inspection of the outlet pipe. Prior to underwater or conduit inspections, Consultant will prepare a detailed workplan for the condition assessment in concert with Valley Water operations and maintenance staff; such plan will consider stream-flow maintenance requirements identified in the Dam Maintenance EIR; Valley Water operational and access procedures; and health and safety requirements.

Subtask 2.1.2.6 - Assumptions

1. A 1-day dive inspection of the intake structure at Guadalupe Dam to visually observe conditions and obtain video documentation and inspector observations of conditions at the intake structure, and possibly for positioning the ROV at the base of the inlet structure will be performed by Consultant. The dive inspection will be performed by a diver with experience doing underwater condition assessments of structural concrete and steel, and mechanical equipment.
2. A 1- to 2-day ROV inspection of the outlet conduit at Guadalupe Dam using either: (1) in-the-dry inspection with the upstream gate closed and the downstream valve open, and using a track-mounted ROV inserted from the downstream end; or (2) in-the-wet inspection with the upstream gate open and

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

the downstream valve closed, and using a neutral-buoyancy ROV inserted from the upstream end that can be “flown” down the pipe will be performed by Consultant. The ROV will obtain video images and a real time narrative of observations by the inspector that are approximately registered along the length of the pipe by tether length. Depending on the size and capabilities of equipment that can access the pipe through the gates/valves, for the in-the-dry option, it may also be possible to gather supplemental quantitative data such as UT tests and or laser/sonar profile information to gather dimensional information about the pipe, sediment and any potential obstructions.

3. During dive and ROV inspections, Valley Water will provide pump-over of reservoir water during shutdown of the outlet works as needed to maintain minimum stream flows called for in the Dam Maintenance EIR. Valley Water will also lower Guadalupe reservoir to provide a maximum water depth of 80-feet over the bottom of the intake structure. Also, Valley Water staff will open valves and remove pipe flanges/manways as necessary to insert and retrieve the ROV, and provide operation and lockout/tagout of gates valves as needed during the inspections.

Subtask 2.1.2.6 – Deliverable (COMPLETE)

1. Section in Problem Definition Report detailing the assessment and evaluation

Subtask 2.1.2.7 - Inspect and Evaluate Upstream Concrete Slope Panels at Guadalupe Dam.

The Consultant will inspect and evaluate the condition of upstream concrete slope protection panels at Guadalupe Reservoir.

Subtask 2.1.2.7 - Assumption

1. Consultant’s inspection of concrete panels will include visual inspection of panels exposed above the water line. No below-water inspection and no destructive testing will be performed.

Subtask 2.1.2.7 – Deliverable (COMPLETE)

1. Section in Problem Definition Report detailing the assessment and evaluation

Subtask 2.1.3 - Prepare Problem Definition Report

- A. Based on information reviewed and collected in Subtask 2.1, the Consultant will prepare a Problem Definition Report for each dam consistent with Valley Water QEMS guidelines. The Problem Definition Report will fully establish existing conditions, define the problems and causes, identify constraints and options, and

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

Project Requirements. The Consultant will prepare a draft report, provide response to comments, and submit a final report.

- B. The Consultant will assist Valley Water in confirming stakeholder list; provide input on the strategic outreach to stakeholders plan (prepared by Valley Water), and assist Valley Water in developing presentation materials and stakeholder meeting preparation.
- C. The Consultant will organize and conduct a Project Requirements Workshop with all stakeholders. The workshop will be combined with the Risk Management Workshop described in 2.1.3.D. The workshop scope and not-to-exceed fees are included in Subtask 1.4.
- D. The Consultant will prepare and submit a Project-Risk Management Plan for Valley Water's consideration and approval. The plan will identify the risks and recommend strategies for overcoming the risks. This subtask includes conducting a Risk Management Workshop during the Planning Phase to serve as the basis for a Risk Management Plan. The workshop scope and not-to-exceed fees are included in Subtask 1.4.

Subtask 2.1.3 – Deliverables (COMPLETE)

- 1. Draft and Final Problem Definition Reports (one for Calero Dam (including Fellows Dike) and one for Guadalupe Dam)
- 2. Meeting materials (including stakeholder lists) and attendance at stakeholder outreach meeting run by Valley Water (one for Calero Dam (including Fellows Dike) and one for Guadalupe Dam)
- 3. Project Requirements Workshop and Risk Management Workshop
- 4. Draft and Final Project-Risk Management Plan

Subtask 2.2 - Prepare Planning Study Report

The following subtask sections describe the Consultant's scope to complete the Planning Study Report.

Subtask 2.2.1 - Develop Alternative Evaluation Methodology

Consultant will develop a model for use in screening and evaluation of conceptual and feasible alternatives. This task will rely on determination and confirmation of Project Objectives and Project Requirements and stakeholder interests and criteria determined under Subtask 2.1. Based on information received during stakeholder interviews, a model will be prepared and submitted by Consultant to Valley Water for presentation and review. Following review of model algorithms, hierarchy, criteria, and measurement metrics, the model will be revised by Consultant based on comments received. The final model will be submitted by Consultant to Valley Water.

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

Subtask 2.2.1 - Assumptions

1. Screening model will be an Excel-based spreadsheet that incorporates approximately 10 to 20 specific criteria that will serve as qualitative or quantitative metrics for evaluation of various alternatives. The model will allow independent weighting of criteria to reflect Valley Water and stakeholder priorities, as well as sensitivity testing of results based on different weighting factors. Model will allow comparison of alternatives using a total numerical score as well as a visual representation in a bar chart.
2. Subtask includes a combined 1/2-day workshop with Valley Water staff to review the draft model and proposed criteria and metrics, and agree on preliminary weighting factors for initial use in alternative comparison. The workshop scope and not-to-exceed fee is included in Subtask 1.4.

Subtask 2.2.1 – Deliverable (COMPLETE)

1. Draft and Final Alternatives Evaluation Models (one for Calero Dam (including Fellows Dike) and one for Guadalupe Dam)

Subtask 2.2.2 - Prepare Cost-Benefit Analysis (Guadalupe Dam Only)

The Guadalupe Dam retains one of the smaller capacity (3,460 acre-feet) reservoirs owned and operated by Valley Water. Valley Water seeks to determine if the anticipated expenditure of a seismic retrofit would be worth the realized benefits. The Consultant will, therefore, consider a range of alternatives for Guadalupe Dam to remediate the seismic deficiencies of the embankment. These will include a full retrofit, or a complete or partial dam removal. The Consultant will perform a cost benefit analysis (CBA) for the identified dam modification alternatives. The CBA will be a systematic process for calculating and comparing the benefits and costs of the various alternatives. The CBA analysis will be used to inform the conceptual alternatives process.

Subtask 2.2.2 - Assumptions

1. Cost-benefit analysis will be prepared after conceptual alternatives have been identified under Subtask 2.2.3, Activity A.
2. The cost of various alternatives will be estimated by Consultant as part of conceptual evaluations performed under Subtask 2.2.3.
3. Consultant will work collaboratively with Valley Water to identify cost/benefit categories, and assign cost/benefit values for operational (e.g., water supply, O&M), intangible (e.g., flood protection, recreation, habitat, water quality) or/and other non-infrastructure items. Where possible, values will be estimated by applying established methodologies that rely on standard indices of costs of goods and services; where this is not possible, techniques used by federal agencies such as the USACE and the Bureau of Reclamation will be applied to

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

impute values through use of procedures such as shadow pricing. Federal guidelines for economic evaluation will also be used in determining parameters such as time horizons and discount rates to be applied in the CBA.

Subtask 2.2.2 – Deliverable (COMPLETE)

1. Draft and Final Technical Memorandum on Cost-Benefit Analysis (Guadalupe Dam)

Subtask 2.2.3 - Prepare Feasible Alternatives Report

Subtask 2.2.3 consists of Activities A through F as described below:

- A. Development of Conceptual Alternatives. The Consultant will develop conceptual-level designs for each conceptual alternatives along with a description of features and function. Level of development will be sufficient to allow initial screening for fatal flaws and initial comparison based on cost, implementability, operational and environmental considerations. The conceptual designs will identify general location, configuration, and size/operational features of major components, and identify significant uncertainties or technical feasibility issues that may exist in the alternative at this stage of design development. The configuration and key features will be illustrated by conceptual drawings or figures, with key Project data/quantities summarized in a concise, standardized table or narrative.
- B. Screening Evaluation of Conceptual Alternatives. The Consultant will evaluate the conceptual alternatives based on the initial screening criteria identified as part of the model development process (Subtask 2.2.1). The screening process for conceptual alternatives, however, will be less rigorous than the process that will be followed by Consultant for identification of the staff-recommended alternative. Consultant will assess the conceptual alternatives based on their ability to satisfy overall objectives and meet Project criteria. A weighted-criteria approach will be utilized by Consultant to screen the conceptual alternatives with close coordination and input from Valley Water. At the end of the screening process a number of feasible alternatives will be identified for further evaluation.
- C. Summary of Conceptual Alternatives. Following development and screening of the conceptual alternatives, the Consultant will prepare draft and final conceptual alternatives section of the Feasible Alternatives Report that includes screening rationale and initial identification of the array of feasible alternatives.
- D. Refinement of Feasible Alternatives. The Consultant will further refine the feasible alternatives identified under Activity B to allow for additional evaluation and identification of a staff-recommended alternative. Consultant will provide level of detail (designs 10% stage of Project definition) for the feasible alternatives sufficient enough to provide comparative analyses and support environmental compliance documents. Consultant's engineering analyses will be

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

carried out to the extent that enables each feasible alternative to meet design and performance criteria. The criteria identified by Consultant during model development will clearly identify data requirements for alternative analyses, the level of detail for feasibility design, and prevent unnecessary efforts. The design is intended to allow designation of a preliminary footprint and construction requirements appropriate for consideration under CEQA, and provide a more refined estimate of Project costs and other features for use in final comparison of alternatives. The configuration and key features will be illustrated by drawings or figures, with key Project data/quantities summarized in a concise, standardized table or narrative.

- E. Comparison of Feasible Alternatives. The Consultant will update the previously developed decision model from Activity B with new metric information from the feasibility designs and review the model results and conduct sensitivity testing in a workshop with Valley Water. Following completion of initial decision model analyses, Consultant will prepare a table (Feasible Alternatives Matrix) that summarizes the key features of each feasible alternative along with the relative score of each alternative along with the sub-score of each individual criterion.
- F. Feasible Alternatives Report. The Consultant will summarize the forgoing analysis and comparison of alternatives in a Feasible Alternatives Report that includes a discussion of the various alternatives and the methodology and assessment criteria used to compare the alternatives and presents the Feasible Alternatives Matrix. The Consultant will participate in a workshop with Valley Water staff and DSOD to review the draft Feasible Alternatives Report.

Subtask 2.2.3 - Assumptions

- 1. Activity A includes development of up to 15 conceptual alternatives each for Calero and Guadalupe Reservoirs, with the alternatives based on the previously identified seismic remediation concepts for the dam embankments (5 at Calero and 4 at Guadalupe) combined with up to 2 or 3 outlet rehabilitation / replacement concepts, and 1 or 2 spillway modification concepts at each reservoir that may be possible depending on the embankment concept and the level of reservoir drawdown allowed for construction. Construction cost opinions developed under Activity A are considered commensurate with an Association for the Advancement of Cost Engineering (AACE) International Class 5 estimate.
- 2. Activity D includes development of up to 5 feasible alternatives each for Calero and Guadalupe Dams. Construction cost opinions developed under Activity D are considered commensurate with an AACE International Class 4 estimate.
- 3. Activity E includes two 1/2-day workshops with Valley Water staff (one for Calero and one for Guadalupe). The first part of each workshop will present/discuss the feasible designs for each alternative. The second part will review the preliminary decision model results for the feasible alternatives, and identify the need for any re-weighting of criteria, either for sensitivity testing, or for inclusion in the final

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

model. Based on the modeling and sensitivity testing, it is expected that the Staff Recommended Alternative to be carried forward will be identified. The workshops scopes and not-to-exceed fees are included in Subtask 1.4.

4. Activity F includes two workshops meetings with Valley Water and DSOD together (one for Calero and one for Guadalupe) to review the draft Feasible Alternatives Report before finalization. The workshops scopes and not-to-exceed fees are included in Subtask 1.4.

Subtask 2.2.3 – Deliverables (COMPLETE)

1. Draft and Final Feasible Alternatives Report (one for Calero Dam (including Fellows Dike) and one for Guadalupe Dam)
2. Two Feasible Alternatives Workshops with Valley Water and DSOD together (one for Calero and one for Guadalupe)

Subtask 2.2.4 - Develop Staff-Recommended Alternative

Following the identification of the staff-recommended alternative, Consultant will develop the alternative in more detail sufficient to develop a budget level cost estimate. The Consultant will prepare a narrative description and drawings of the staff recommended alternative that will be included as a section in the Planning Study Report. The narrative will describe the key design features, construction and operational requirements, preliminary engineering design criteria, construction cost for the alternative.

Subtask 2.2.4 - Assumptions

1. The staff-recommended alternative will be developed to a level of detail sufficient to prepare an opinion of probable construction cost commensurate with an AACE (Association for the Advancement of Cost Engineering) International Class 3 estimate.
2. Report section will include preliminary engineering design drawings (approximate 20% stage of design development) to illustrate the general configuration and typical sections/details of key components of the alternative sufficient to prepare budgetary cost estimates.

Subtask 2.2.4 – Deliverable (COMPLETE)

1. Draft and Final Staff-Recommended Alternative section of the Planning Study Report (one for Calero Dam (including Fellows Dike) and one for Guadalupe Dam)

Subtask 2.2.5 - Prepare Planning Study Report

The Consultant will prepare a Planning Study Report that describes the Project background, objectives, problem definition, conceptual alternatives analysis, public

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

outreach process, feasible alternatives analysis, staff-recommended alternative, and the basis for its selection. The staff-recommended alternative will be fully described in the report including life-cycle operation and maintenance guidelines and costs, real estate needs, estimated construction costs, schedule, and funding. Supporting calculations and preliminary engineering drawings for the staff recommended alternative prepared will be include as appendices. The Consultant will coordinate a meeting with Valley Water staff and the DSOD to review the draft Planning Study Report (PSR) prior to finalization.

Subtask 2.2.5 - Assumptions

1. The PSR body will include a summary of the previously prepared Problem Definition (PDR) and Feasible Alternatives Reports (FAR), with the PDR and FAR to be included as separate appendices.
2. This subtask included two workshops with Valley Water and DSOD together (one for Calero Dam (including Fellows Dike) and one for Guadalupe Dam) to review the Draft Planning Study Report before finalization. The workshop scopes and not-to-exceed fees are included in Subtask 1.4.

Subtask 2.2.5 – Deliverables (COMPLETE)

1. Draft and Final Planning Study Reports (one for Calero Dam (including Fellows Dike) and one for Guadalupe Dam)
2. Two PSR Workshops with Valley Water and DSOD together (one for Calero Dam (including fellows Dike) and one for Guadalupe Dam)

Subtask 2.2.6 - Prepare Transition Reports

Consultant will prepare the Planning-to-Design Phase Transition Report to properly transfer Project information to Valley Water. The Transition Report will provide all relevant Project information to Valley Water so that decisions and requirements identified during the Planning Phase will be addressed as Project requirements in the Design Phase. This will assure design deliverables meet Planning Phase objectives, and assure Planning Phase activities are not duplicated during design. Consultant will prepare a draft and final Transition Report.

Subtask 2.2.6 – Deliverable (COMPLETE)

1. Draft and Final Planning-to-Design Transition Report (one for Calero Dam including Fellows Dike) and one for Guadalupe Dam)

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

TASK 3 - ENVIRONMENTAL DOCUMENTATION AND PERMIT SUPPORT (REVISED)

1. The Consultant will prepare two Environmental Impact Reports (EIRs), one for Calero Dam and Fellows Dike (Component 1), and another for Guadalupe Dam (Component 2) that comply with the requirements of the California Environmental Quality Act (CEQA) in a manner such that these documents may be presented to Valley Water's Board of Directors as the CEQA Lead Agency, to enable them to certify the Final EIRs and adopt the Mitigation Monitoring and Reporting Plans (MMRPs). The Consultant will support Valley Water in obtaining the necessary environmental permits for construction of the Project, as well as permits/clearance needed for field investigations including supplemental geotechnical and borrow investigations.
2. The two EIRs will be prepared based on final project descriptions that describe redesigned elements and allow for construction of each dam in two packages (Package A and Package B).
3. The Consultant will support Valley Water in their role as the CEQA Lead Agency and primary contact with regulatory agencies for the Project. The regulatory agencies are as follows: State of California Department of Water Resources Division of Safety of Dams (DSOD), United States Army Corp of Engineers (USACE), United States Fish and Wildlife Service (USFWS), National Marine Fisheries Service (NMFS), Regional Water Quality Control Board (RWQCB), and California Department of Fish and Wildlife (CDFW), the Valley Habitat Plan Implementing Entity, the County of Santa Clara (CSC), and Santa Clara County Parks. Under the direction of Valley Water, Consultant will support Valley Water when Valley Water engages key agencies once sufficient Project design details exist, in order to formulate Project design alternatives that address agency concerns, and to develop appropriate CEQA mitigation measures consistent with the anticipated permitting requirements.
4. The Consultant may utilize a staggered scheduling of the two EIRs so that the Consultant may incorporate any applicable comments from Valley Water on the first document into the second document prior to submitting it to Valley Water.
5. The Consultant assumes that the Santa Clara Valley Habitat Conservation Plan (SCVHCP) will include the projects as covered activities and impacts to upland species and habitat impacts regulated by CDFW and USFWS will be permitted under the HCP.
6. Costs for environmental tasks assume economies of scale and a staggered schedule for the two dam projects. Should either dam project be cancelled or substantially delayed, estimated costs for the active dam project will be up to 65 percent of the Task 3 cost for both dam projects.

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

Subtask 3.1 - Develop Initial Regulatory and CEQA strategy, and coordination with regulatory agencies (COMPLETE)

1. The Consultant will inventory the regulatory permitting needs for the Project, and will work with Valley Water to develop a strategy for pursuing regulatory approvals necessary for the design and schedule requirements of the Project.
2. Environmental permits or approvals for this Project are anticipated to include:
 - a. Individual Permits under Clean Water Act (CWA) Section 404, administered by the USACE.
 - b. Regional Water Quality Control Board authorization under CWA Section 401, as well as Waste Discharge Requirements pursuant to the State's Porter-Cologne Water Quality Control Act.
 - c. Approval from the California Department of Fish and Wildlife, including Streambed Alteration Agreements (Fish and Game Code Section 1602).
 - d. Biological Assessments for submittal to the National Marine Fisheries Service (NMFS) under Section 7 of the federal Endangered Species Act.
3. This task will result in production of Regulatory and CEQA Strategy Technical Memoranda which will outline the various requirements and develop a clear and comprehensive plan and timeline for addressing each.

Subtask 3.1 - Assumptions

1. One in-person meeting with Valley Water staff and one phone-call with Valley Water Staff to discuss CEQA and regulatory lessons learned from the ongoing Valley Water projects at Anderson Dam and Almaden Dam, and consider the regulatory and CEQA strategy for the Project.
2. The strategy memorandum will be comprehensive and summarize Valley Water and Consultant consensus on regulatory strategy.
3. Consultant will prepare and submit two draft memoranda per dam and one final memorandum per dam.

Subtask 3.1 – Deliverables (COMPLETE)

1. Preliminary Draft Regulatory and CEQA Strategy Memoranda (one for Calero Dam including Fellow's Dike and one for Guadalupe Dam). (electronic)
2. Final Draft Regulatory and CEQA Strategy Memoranda (one for Calero Dam including Fellow's Dike and one for Guadalupe Dam). (electronic for second review)

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

3. Final Regulatory and CEQA Strategy Memoranda (one for Calero Dam including Fellow's Dike and one for Guadalupe Dam). (electronic and hardcopy)

Subtask 3.2 - Perform Environmental Investigations and Studies (REVISED)

The Consultant shall perform investigations and studies needed to evaluate environmental impacts of the Project as required by CEQA and other applicable laws and regulations.

The Consultant shall revise previously prepared investigations and studies needed to evaluate environmental impacts of the redesigned CDSRP, including Fellows Dike (Component 1), and GDSRP (Component 2) that are needed to develop the Administrative Draft EIR as required by CEQA and applicable laws and regulations. The Consultant will consider previously gathered and prepared information for either Component 1 or Component 2 in order to confirm existing conditions, or the consultant will prepare updated information if appropriate for Component 1 or Component 2, as described below.

Subtask 3.2.1 - Gather and Organize Environmental Information Relevant to the Project (REVISED)

1. Consultant will collect and review existing materials provided by Valley Water as referenced in Attachment Four, Reference Materials, of this Appendix One. Consultant will work with Valley Water to identify any other existing environmental data not provided in Attachment Four. In addition to this information, Consultant will gather other pertinent information from other sources, including:
 - a. The Santa Clara Valley Water Valley Water Dam Maintenance Program Final PEIR.
 - b. CEQA document for projects in the vicinity.
 - c. Planning documents including relevant general plans and/or master plans.
 - d. The Valley Habitat Plan.
 - e. Previous reports prepared by H.T. Harvey for Valley Water work in the Project area.
 - f. California Natural Diversity Database (CNDDDB) occurrences from the Project vicinity.
 - g. Species occurrence data and status information compiled by the California Native Plant Society.
 - h. Water quality and sediment data from RWQCB reports and information used to develop TMDLs for the area.

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

- i. A delineation of the Area of Potential Effects (APE) in consultation with Project engineers and Valley Water. Consultant will conduct a record search of the APE at the Northwest Information Center of the California Historical Resources Information System (NWIC), and compile all documents pertaining to cultural resources identification and evaluation within the APE.
 - j. For information on potential hazardous materials sites, Consultant will utilize information provided by Valley Water and conduct a database search of Geotracker and EnviroSTOR or use a database search vender such as Environmental Data Resources Inc. (EDR) to provide data from a large number of databases, and will investigate identified sites using desktop methods as needed.
2. Consultant will review the information gathered above and provide Valley Water a list of additional environmental data needs and copies of information materials gathered (not originally provided by Valley Water).
3. The Consultant will collect and review updated materials provided by Valley Water and/or update materials as referenced in the amended Attachment Four, Reference Materials, of this Appendix One. This includes updating and/or conducting a review of more recent information 1b through 1j above. Consultant will review the updated information gathered and provide Valley Water a revised list of additional environmental data needs and copies of information materials gathered (not originally provided by Valley Water).

Subtask 3.2.1 - Deliverables

1. Environmental data and documents for the Project (one for Calero Dam including Fellows Dike and one for Guadalupe Dam) (Complete)
2. Lists of additional environmental data needs, (one for Calero Dam including Fellows Dike and one for Guadalupe Dam) (Complete)
3. Revised and updated lists of additional environmental data needs and copies of the information materials gathered (one for Calero Dam including Fellows Dike) and one for Guadalupe Dam).

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

Subtask 3.2.2 - Prepare Base Map (REVISED)

1. Consultant shall prepare base maps for the Project areas. The maps shall be prepared in a Geographic Information System (GIS) format compatible with Valley Water's GIS system; have an appropriate level of detail to serve as a basis for the analysis associated with Subtask 3.2.3, and subsequent environmental analysis; be constructed in a manner consistent with the protocol for information sharing of Valley Water's GIS department pursuant to Attachment Four, Reference # 19, Valley Water Standards for GIS Products; and be consistent with applicable metadata requirements.
2. The base maps will highlight previously mapped environmental resources in the Project areas. The base maps will serve as a platform for additional investigations and use in the CEQA analysis and permitting.

Subtask 3.2.2 - Assumptions

1. Valley Water will provide relevant existing and available GIS information currently in their possession.
2. Consultant will utilize existing GIS-compatible data; digitizing or creating new GIS data would require authorization of additional scope and costs by Valley Water under Supplemental Services.
3. The base map will include the entirety of each reservoir and an approximate 2.5-mile wide buffer. Additional offsite areas, such as borrow sites or access roads outside of this buffer could be added as necessary through authorization under Supplemental Services.
4. Consultant shall prepare revised basemaps for the project areas of Calero Dam and Fellows Dike and Guadalupe Dam in a GIS format compatible with Valley Water's GIS system. The basemaps will have an appropriate level of detail to serve as the basis for the analysis with Subtask 3.2.3 and subsequent environmental analysis.
5. The revised base maps will highlight previously mapped environmental resources in the Project areas and previously surveyed areas, as applicable to the resource area. The revised base maps will serve as a platform for additional investigations and use in the CEQA analysis and permitting
6. Assumptions 1 through 3 are the same for the revised basemaps.

Subtask 3.2.2 - Deliverable

1. Base maps for Project (one for Calero Dam including Fellow's Dike and one for Guadalupe Dam) along with metadata (Complete).

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

2. Revised base maps for Project with revised elements (one for Calero Dam including Fellow's Dike and one for Guadalupe Dam) along with metadata.

Subtask 3.2.3 - Summarize Environmental Conditions Based on Existing Data (REVISED)

1. Consultant will review existing reports, plans and policies and other information relevant to the Project, as identified in Subtask 3.2.1, including an assessment of environmental conditions as required by CEQA, the Migratory Bird Treaty Act, state and federal Endangered Species Acts, CWA, Porter Cologne Act, Fish and Game Code Section 1602, cultural and archaeological statutes, local ordinances, and air quality regulations.
2. Results of Consultant's analysis will be summarized by Consultant in CEQA and permitting documents.

Subtask 3.2.3 - Assumptions

1. Consultant will update the review of existing and recent reports, plans and policies and other information relevant to the Project, as identified in Subtask 3.2.1. The Consultant will also review any new information that may now be relevant given the redesign of Calero Dam and Fellows Dike (Component 1) and Guadalupe Dam (Component 2).

Subtask 3.2.3 - Deliverable

1. The results of Consultant's analysis will be summarized by the Consultant in CEQA and permitting documents.

Subtask 3.2.4 - Prepare Field Investigation Plan (COMPLETE)

1. Consultant will prepare separate field investigation plans for field studies pertaining to Calero (including Fellow's Dike) and Guadalupe Dams including identified borrow sources /sites and spoil disposal areas as described in Subtask 3.2.5.
2. Based on the data requirements identified under Subtask 3.2.2 and 3.2.3, Consultant will develop draft and final field investigation plans and submit them to Valley Water for review. The investigation plans will provide a description of the work to be conducted, locations, and approximate dates of field surveys, and methods to be used. In cases where equipment must be set up, such as for traffic counts, a drawing will be provided that illustrates approximate location.
3. Field investigations for the dams will include habitat surveys for sensitive biological resources, archeological surveys, baseline visual resources, and baseline traffic counts. The investigation plans will provide a description of the work to be conducted, locations, and approximate dates of field surveys, and methods to be used. In cases where equipment must be set up, such as for traffic counts, a drawing will be provided that illustrates approximate locations.

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

Subtask 3.2.4 - Assumptions

1. Existing water and sediment quality data in reports gathered under Task 3.2.1 will be sufficient for CEQA and permitting purposes.
2. No additional baseline air quality data is required because ambient air quality data is available from local air monitoring stations operated by Bay Area Air Quality Management Valley Water (BAAQMD).

Subtask 3.2.4 – Deliverable (Complete)

1. Draft and Final Field Investigation Plans (one for Calero Dam including Fellows Dike and one for Guadalupe Dam)

Subtask 3.2.5 - Conduct Field Investigations (REVISED)

Field investigations will be conducted for multiple environmental resources based on the scope and assumptions described below.

A. Biological Resources

Biological field surveys for this task will gather the information needed for the EIR, permits, and other agency authorizations. Biological field surveys will consist of habitat assessments at each dam location. Consultant will map and characterize habitats at a level suitable for the CEQA impact evaluation purposes and to satisfy the requirements of permitting through the Valley Habitat Plan.

The Consultant will evaluate the availability and potential suitability of existing habitats for special-status species. The dominant biotic communities of the Project area will be characterized based on dominant plant and associated wildlife and will be mapped on the base map developed in Task 3.2.2 (described above).

B. Special-Status Plant Surveys

Consultant will conduct additional special-status plant surveys at Calero and Guadalupe Reservoirs in support of the redesigned CDSRP and GDSRP. Although the results of the previous surveys will inform the new surveys, the new surveys will be comprehensive and floristic in nature. Given the flowering periods of potentially occurring special-status plants (which can vary annually for annual species), surveys will be conducted in early spring (approximately March), mid-spring (approximately mid-April to early May), late spring (approximately late May to mid-June), and late summer/fall (approximately July- September). Surveys will be conducted according to the latest resource agency protocols, and for Valley Habitat Plan (VHP) covered species will be conducted so as to satisfy all VHP requirements. Field surveys and data collection will take into account pertinent VHP clarification and interpretation

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

memos for VHP-covered plant species. Following completion of the survey for each project site, the Consultant will prepare a Special-Status Plant Survey Report summarizing the survey effort and findings. This effort for CDSRP is authorized under Supplemental Services Task Order 31 (Task 2).

C. Regulated Habitats Delineation

Consultant will delineate regulated habitats at Calero and Guadalupe Reservoirs in support of the redesigned CDSRP and GDSRP. Due to the time that has elapsed since regulated habitat delineations were first performed for the CDSRP and GDSRP, the Consultant will revisit each project site to update delineation mapping as necessary to reflect existing conditions. The Consultant will conduct field surveys to perform the mapping and data collection necessary to delineate the boundaries of USACE (CWA Section 404), San Francisco Bay Regional Water Quality Control Board (CWA Section 401/Porter-Cologne Water Quality Control Act), and California Department of Fish and Wildlife (California Fish and Game Code Section 1600) jurisdiction in these areas. Following completion of delineation field work, the Consultant will prepare an updated Regulated Habitats Delineation Report and field-verified land cover maps for each of project site. This survey and reporting effort for CDSRP is authorized under Supplemental Services Task Order 31 (Task 3).

D. Wildlife Reconnaissance Surveys

Consultant will conduct wildlife reconnaissance surveys at Calero and Guadalupe Reservoirs in support of the redesigned CDSRP and GDSRP. The Consultant will conduct reconnaissance-level surveys of each project site to determine habitat suitability for special-status and sensitive wildlife species that will need to be considered during preparation of the EIR and permitting materials. Potential habitat will be described in field notes and the location of potential resources of concern will be recorded. Further, per the requirements of the VHP, an ecologist will conduct a field investigation to identify and map potential tricolored blackbird (*Agelaius tricolor*) nesting substrate. The survey will be limited to any riparian, freshwater marsh, or pond land cover type located within 250 feet of project areas, subject to access. Results of wildlife reconnaissance surveys will be reported in the Terrestrial Biological Resources Technical Report for each project site. Each report will include a discussion of the existing biological conditions, including sensitive biological resources, that may be present in the project areas, as well as a description of the project's regulatory setting as related to terrestrial biological resources. This effort for CDSRP is authorized under Supplemental Services Task Order 31 (Tasks 4 and 7).

E. Geotechnical Investigations Assistance

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

Consultant will conduct surveys for sensitive biological resources and verify land cover types at Calero and Guadalupe Reservoirs in support of geotechnical investigations conducted for the redesigned CDSRP and GDSRP. In addition, the Consultant will conduct pre-activity clearance surveys for special-status species and other sensitive resources as requested by Valley Water in support of geotechnical investigations, soil sampling, and other project activities for both the CDSRP and GDSRP. A brief preactivity survey report and compliance documentation will be prepared following each survey. This survey and reporting effort for CDSRP is authorized under Supplemental Services Task Order 31 (Task 5).

F. Tree Survey

Consultant will conduct a tree survey and prepare an arborist report for Calero and Guadalupe Reservoirs in support of the redesigned CDSRP and GDSRP. During the tree survey, ecologists will locate all trees within potential impact areas for each project. For the purpose of this inventory, trees shall include any perennial, woody plant species whose diameter at 4.5 feet above grade is 4 inches or larger. The results of the inventory will be summarized in an arborist report that describes the inventory methods and findings, including a summary of relevant City or County codes and ordinances, data tables summarizing data for all surveyed trees, and a site map showing tree locations and tree tag numbers. This survey and reporting effort for CDSRP is authorized under Supplemental Services Task Order 31 (Task 4).

G. Bald and Golden Eagle Nest Surveys

The Consultant will conduct bald and golden eagle nest surveys at Calero Reservoir to document nesting locations. The surveys for the CDSRP would focus on areas where nests, if present, could potentially be disturbed by Project activities or where territories could be abandoned due to habitat changes during Project construction (i.e., abandonment by bald eagles as a result of temporary drawdown or dewatering of the reservoir). The Consultant will conduct one breeding-season survey in late winter and spring of 2025 (January to mid-June) to obtain this information. The survey would be conducted by ecologists experienced in conducting surveys for nesting eagles. The survey would cover areas within 1 mile of the existing reservoir; within 1 mile of the dam and any other areas where CDSRP activities are proposed (such as staging or stockpiling areas outside the dam/reservoir); and within 2 miles of where blasting may be necessary occur to construct a tunnel for the sloping intake structure. Two sets of helicopter surveys, supplemented with ground-based surveys, will be conducted. The bald and golden eagle nest survey results will be documented in an Eagle Nest Survey technical memorandum. Neither bald nor golden eagles are known to nest in the vicinity of Guadalupe Dam/Reservoir. However, no eagle surveys have been conducted for Guadalupe, and there is some potential for either or both eagle species to nest close enough to Guadalupe Dam/Reservoir to be

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

disturbed by retrofit activities. To inform CEQA impact assessment and development of mitigation measures, as well as to inform USFWS and CDFW coordination regarding potential impacts to eagles, Consultant will conduct the same surveys for Guadalupe Dam/Reservoir that are proposed for Calero Reservoir. However, surveys at Guadalupe will occur during the 2026 breeding season. The survey and reporting effort for CDSRP is authorized under Supplemental Services Task Order 31 (Task 14).

H. Cultural Resources

Consultant will conduct field surveys for archaeological and historic-era built environment resources within the Area of Potential Effect (APE), consisting of a pedestrian-level survey at each dam (including Fellows Dike for Calero Dam). Consultant proposed level of effort assumes that the existing documentation of historic-era resources at Fellows Dike is complete and will not require updates.

The Consultant will contact the State of California Native American Heritage Commission (NAHC), and individuals identified by the NAHC, in order to notify individuals with an interest or potential knowledge of cultural resources in the area.

All gathered data will be used by Consultant to compile a technical report adhering to Secretary of the Interior Guidelines, which can be used in support of CEQA, National Historic Preservation Act (NHPA) Section 106 documentation, and the acquisition of federal permits.

Consultant will prepare a Draft and Final Finding of Effect (FOE) cover letter. The cover letter will briefly describe the Project and the Project activities that are subject to permitting, including permitting associated with relocation of the Bailey-Fellows House, as needed. The FOE will describe any NRHP/CRHR-eligible resources potentially affected by the Project. Consultant will support Valley Water's role to work with the federal Section 106 lead agency (USACE) in order to ensure appropriate consultation with Native American representatives and the State Office of Historic Preservation, successful compliance with Section 106, and issuance of federal permits.

I. Aesthetics

The Consultant will conduct field visits to each dam to assess existing visual resource conditions in the Project area. The field visits will include an inventory, including photo documentation of the following existing conditions: viewpoints; notable visual resources; and vividness, intactness, and unity of the Project area. Photographs will be taken at the time to be used in the analysis and for graphics.

J. Noise & Vibration

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

Consultant will conduct noise monitoring to inform baseline conditions and noise and/or vibration modeling to assess noise generation and vibrations from construction activities at nearby sensitive receptors.

K. Air Quality and Greenhouse Gases

Consultant will conduct modeling of criteria air pollutant, greenhouse gas emissions, and energy estimates from construction activities. Consultant also will conduct additional modeling to evaluate changes in post-project operational and maintenance activities to assess air pollutant emissions in comparison to applicable thresholds, if determined to be necessary. Consultant will conduct dispersion modeling and health risk assessment from construction activities if determined necessary to evaluate risk of diesel particulate matter (a toxic air contaminant) to nearby sensitive receptors.

L. Transportation

The Consultant will perform a field traffic assessment to qualitatively describe site conditions and will conduct daily traffic counts at up to five locations for each dam using machine traffic counting equipment (Complete). Consultant will conduct an updated evaluation of potential transportation impacts, in compliance with CEQA Guidelines Section 15064.2, by preparing Vehicle Mile Travel (VMT) analysis for the projects at Calero Dam including Fellows Dike and Guadalupe Dam.

M. Hazardous Materials

The Consultant will conduct a hazardous materials site database search for the Calero and Guadalupe Dams locations, such as a search of GeoTracker and EnviroSTOR or use a vendor such as Environmental Data Resources, Inc. (EDR) and will investigate identified sites using desktop methods as needed.

Subtask 3.2.5 - Assumptions

1. **Special-Status Plant Surveys.** It is assumed that (1) the maximum extent of CDSRP and GDSRP activities will be identified prior to the initiation of fieldwork, (2) that each project site has not changed substantially since the previous surveys, and (3) that there would be up to two rounds of review of the Special-Status Plant Survey report.
2. **Regulated Habitats Delineation.** It is assumed that (1) the maximum extent of CDSRP and GDSRP activities will be identified prior to the initiation of fieldwork, (2) that each project site has not changed substantially since the previous surveys, and (3) that there would be up to two rounds of review of the Regulated Habitats Delineation Report.

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

3. **Wildlife Reconnaissance Surveys.** It is assumed that (1) the maximum extent of CDSRP and GDSRP activities will be identified prior to the initiation of fieldwork, (2) that each project site has not changed substantially since the previous surveys, (3) except for the San Francisco dusky-footed woodrat nest survey and tricolored blackbird habitat assessment, no focused surveys for specific wildlife species are included in this scope of work, (4) the level of detail in the Terrestrial Biological Resources Technical Report will be what is appropriate for the EIR, and (5) that there would be up to two rounds of review of the Terrestrial Biological Resources Technical Report.
4. **Tree Survey.** It is assumed that (1) the maximum extent of CDSRP and GDSRP activities will be identified prior to the initiation of fieldwork, (2) that each project site has not changed substantially since the previous surveys, and (3) that there would be up to two rounds of review of the arborist report.
5. **Bald and Golden Eagle Nest Surveys.** It is assumed that that there would be up to two rounds of review of each Eagle Nest Survey technical memorandum.
6. **Jurisdictional Delineation:** Consultant will re-conduct field studies at each dam sufficient to identify potentially jurisdictional waters of the U.S. including wetlands, as well as waters of the state. The previously prepared preliminary jurisdictional delineation report for Calero Dam including Fellows Dike will be updated using the most recent USACE requirements and field information. The consultant will update the previously prepared preliminary jurisdictional delineation report for Guadalupe Dam. This survey and reporting effort for CDSRP is authorized under Supplemental Services Task Order 31 (Task 3).
7. **Cultural Resources:**

Consultant will conduct updated pedestrian-level field surveys for archaeological and historic-era built environment resources within the Area of Potential Effect (APE) at Calero Dam including Fellows Dike (assumed to be 200 acres) and Guadalupe Dam (assumed to be 80 acres), including areas that may not have been previously surveyed at each dam site.

Consultant will re-contact the State of California Native American Heritage Commission (NAHC) for an updated list of individuals, and individuals identified by the NAHC, in order to notify individuals with an interest or potential knowledge of cultural resources in the area of Calero Dam including Fellows Dike and Guadalupe Dam. Consultant will also assist Valley Water during coordination with the Santa Clara County Art and Historical Society.

All previously gathered data and updated data will be used by Consultant to compile Cultural Resources Technical Reports for CDSRP and GDSRP adhering to Secretary of the Interior Guidelines, which can be used in support of CEQA and NHPA Section 106 documentation, and the acquisition of federal permits.

Assumes the following: no new archaeological resources will be identified in the records searches and field surveys for the CDSRP and GDSRP, NAHC Sacred Lands Database results will be negative for Tribal resources for CDSRP and GHSRP, no more than 4 historic-era built environment resources will be identified

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

in the APE for each of the CDSRP (the Bailey House, a portion of the Historic District, Calero Dam and associated resources, Almaden-Calero Canal) and the GDSRP (Guadalupe Dam and Reservoir, Outlet Works and associated resources, Spillway, Hicks Road), no newly identified built environmental resources will meet National Register Historic Places and California Register Historic Resources eligibility criteria, and no archaeological or geoarchaeological site investigations are included.

8. **Aesthetics:** Consultant will re-conduct the field visits to assess and potentially update the existing visual resource conditions in the Project area. The updated field visits will include an inventory, including photo documentation of the following existing conditions at the previously identified locations for Calero Dam including Fellows Dike and Guadalupe Dams: viewpoints; notable visual resources; and vividness, intactness, and unity of the Project area. Photographs will be taken at the time to be used in the analysis and for graphics.
9. **Noise & Vibration:** Consultant will conduct monitoring at the 2 short-term and 3 long term locations measured in 2018 at the Calero Dam and add 1 short-term monitoring site near the Fellows Dike area. Consultant will conduct short (15 to 30 minute) and long-term (24-hour) noise monitoring at four locations at the Guadalupe Dam area. These noise measurements will be used to describe daytime and nighttime ambient noise levels at up to 10 noise-sensitive locations nearby each dam. Ambient vibration monitoring is not included because there are no existing uses that generate substantial vibrations. Consultant will use modeling to determine noise levels associated with the proposed project. Consultant will estimate the proposed project's potential noise impacts from construction equipment and vehicle trips using the Federal Highway Administration's (FHWA) Roadway Construction Noise Model (RCNM) methods and reference noise levels. Consultant also will use project-specific construction and geologic data to estimate groundborne vibration levels at up to 6 different vibration-sensitive areas. Monitoring data and noise modeling results will be presented in a technical memorandum in comparison to local noise standards. Where local noise standards are not available, consultant will recommend appropriate noise standards to adequately address noise impacts as required by CEQA (i.e., absolute noise level exposure and perception in noise increases).
10. **Air Quality and Greenhouse Gases:** Consultant will estimate criteria air pollutant and greenhouse gas emissions using appropriate publicly available industry standard air quality models (e.g., CalEEMod) and/or emissions factors appropriate for project-specific emissions sources, consistent with CalEEMod and Bay Area Air District-approved methods. Emissions will be estimated from construction of elements in Package A and Package B of Calero Dam including Fellows Dike and Guadalupe Dam and operations if there are post-project changes in emissions from operational and maintenance activities. Modeling for operations, if needed, is anticipated to be limited in scope and to vehicle use and operations of pumps or other water conveyance infrastructure. Consultant also will estimate construction and operational energy and fuel demand and present results in a summary table.

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

Regarding short-term exposure to project-generated toxic air contaminants (TACs), this scope assumes that a quantitative construction-only health risk assessment (HRA), would be necessary for both projects. The HRA will include construction emissions source characterization, one air dispersion model for each project site, including a unique receptor grid, and site-specific parameters (e.g., meteorological data, terrain data). The HRA will evaluate TAC exposure associated with diesel particulate matter (exhaust) and fine particulate matter concentrations (PM_{2.5}) (exhaust + fugitive) from construction of elements. Consultant will use AERMOD to predict exposure to concentrations of pollutants at sensitive receptor locations and quantify associated carcinogenic and non-carcinogenic health risks that will be compared against Bay Area Air District's risk and concentration thresholds. The HRA will use assumptions consistent with Bay Area Air District's 2022 CEQA Guidelines and the Office of Environmental Health Hazard Assessment (OEHHA) guidance. Consultant will conduct up to three mass emissions calculations in spreadsheets or CalEEMod (for each project) and one AERMOD run (for each project) to quantify adverse health risks at sensitive receptor locations. All emissions results will be summarized in a technical memorandum in tabular form, in comparison to adopted air district thresholds.

11. **Transportation:** Consultant analysis will focus solely on VMT and roadway conditions and will not include traffic LOS analysis for the roads and intersections near the project sites. A description of the project(s) VMT from construction activities will be provided along with a description of access roads in terms of road design characteristics, traffic controls, traffic lane width, traffic volumes, speed limits etc., Consultant will discuss historic traffic collisions along the access roads (McKean Road and Baily Avenue for Calero Dam and Hicks Road for Guadalupe Dam) and identify collision hot spots. Consultant will conduct limited field work to collect average daily trips at up to five locations for a 24-hour period on McKean Road and Bailey Avenue for the CDSRP. This information will be compiled into a brief memorandum for use in preparing the Administrative Draft EIR transportation sections for each Project component.
12. **Hazardous Materials:** Consultant will update the hazardous materials site database search for the Calero Dam including Fellows Dike area and Guadalupe Dam area, using a vendor such as Environmental Data Resources, Inc. (EDR) or other suitable databases (i.e., EnviroSTOR). The Consultant will also review updated and more recent environmental testing information provided at either Calero or Guadalupe Dams. Consultant will not conduct field investigations for hazardous materials.
13. Results of the updated field surveys will primarily be summarized in either new Technical Reports supporting the preparation of the EIR or in appropriate resource sections of the EIR.
14. Field notes will be typed for internal Consultant use, in sufficient detail to prepare primary regulatory documents (EIR and permits).
15. Existing mercury sampling data will be sufficient to meet regulatory requirements. Should preparation of a mercury sampling plan and field sampling for mercury be

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

necessary, it will be conducted under a separate cost and scope as Supplemental Services.

16. Species-specific or protocol level surveys, beyond those already described in Subtask 3.2.5, are not included in the scope for Task 3.
17. Suitable borrow material will be available on-site and surveys of potential borrow areas at an off-site or a distant location will be conducted under Task 6, Supplemental Services.
18. Fisheries field work is not included in the scope for Task 3. Consultant will rely on existing data from Valley Water and others regarding fisheries resources within the Project area.
19. Existing and publicly available hazardous materials data will be sufficient for the purposes of analyzing impacts under CEQA and to meet regulatory requirements. Should preparation of a hazardous materials sampling plan and field sampling be necessary, it will be conducted under a separate cost and scope as Supplemental Services.

Subtask 3.2.5 - Deliverables

1. Draft and Final Special-Status Plant Survey Reports for CDSRP and GDSRP. GIS shapefiles of special-status plant locations mapped during the survey effort.
2. Draft and Final Regulated Habitats Delineation Reports and field-verified land cover maps for CDSRP and GDSRP. GIS shapefiles for the regulated habitats mapping and the land cover mapping.
3. Draft and Final Terrestrial Biological Resources Technical Reports for CDSRP and GDSRP. GIS shapefiles for the locations of any special-status or sensitive wildlife locations.
4. Pre-activity survey reports on special-status species and other sensitive resources, and compliance documentation, during geotechnical investigation assistance for CDSRP and GDSRP.
5. Draft and Final Arborist Reports and GIS shapefile of tree locations for CDSRP and GDSRP.
6. Draft and Final Eagle Nest Survey Technical Memorandum for CDSRP and GDSRP.
7. Draft and Final Cultural Resources Technical Reports for CDSRP and GDSRP.
8. Results of the updated field surveys will be summarized in the technical reports and technical memoranda described herein or in appropriate resource sections of the EIR.

**Subtask 3.3 - Prepare Project Description and Initial Study Checklist (IS)
(REVISED)**

The purpose of this task is to accurately describe the elements of the proposed Project based on the Staff-Recommended Alternative, and the Planning Study Reports, and the

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

redesigns of the CDSRP and GDSRP that have occurred to accommodate Package A and Package B construction. The description of the proposed Project Components will be used in the environmental review process.

Subtask 3.3.1 - Prepare Project Description (REVISED)

Consultant will work with Valley Water to produce draft and final detailed Project Descriptions for each EIR for use in the CEQA process, based on the review and analyses conducted in the previous two tasks. Project elements and other components of the proposed Project such as borrow areas, staging areas, haul routes, dewatering, stream flow bypasses, and access areas will be described. The Project Descriptions will include descriptions of design for intakes, outlets, and spillways; description of surrounding areas influenced by the reservoir and flow releases; construction techniques and equipment to be used; and construction phasing for each dam and typical operation and maintenance requirements. The Project Descriptions will be subject to Valley Water review prior to completion of the final Project Descriptions by Consultant. (Complete)

The Consultant will work with Valley Water to prepare new Project Descriptions based on the redesign of Calero Dam and Fellows Dike (Component 1) and Guadalupe Dam (Component 2) and the need to construct each Component in two packages (Package A and Package B), using applicable information (if any) from previously prepared Project Descriptions.

Subtask 3.3.1 – Assumptions

1. Valley Water will have internal concurrent reviews of the new draft Project Descriptions for CDSRP and GDSRP and will reconcile any conflicting comments.
2. There will be two rounds of reviews prior to the new Project Descriptions for CDSRP and GDSRP being finalized by the Consultant.
3. Once final Project Descriptions are developed, there will be no subsequent substantive changes in Project designs and plans for CDSRP and GDSRP that would necessitate changes to the Project Descriptions or substantively alter the scope of the environmental analysis.
4. Development of the project descriptions includes a field visit to each dam by five GEI staff.

Subtask 3.3.1 – Project Descriptions (REVISED)

1. Draft and Final CEQA Project Descriptions (one for Calero Dam including Fellows Dike and one for Guadalupe Dam) (Completed)
2. New Draft and Final CEQA Project Descriptions for CDSRP and GDSRP.

Subtask 3.3.2 - Prepare Initial Study Checklist (IS) (COMPLETE)

An Initial Study has been used by Consultant to determine issues requiring detailed

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

analysis in the Guadalupe Dam EIR and to screen out certain topics that would not require further review in the Guadalupe Dam EIR. The Checklist was based on the current CEQA Guidelines Appendix G: Environmental Checklist and Valley Water guidance. Consultant provided supporting text to explain the basis for its conclusions stated in the Checklist. The Consultant also provided conceptual level information related to impacts and potential qualitative, early conceptual level mitigation.

Subtask 3.3.2 - Assumptions

1. The evaluation described in Task 3.4 below will focus on the potentially significant impacts identified in the IS checklist, or as appropriate, those raised during the scoping period.
2. The following resource topics will be dismissed from further consideration in the Initial Study (others may be eliminated as well): agricultural and forest resources, mineral resources, and population/housing.
3. Valley Water will prepare the Internal Decision Memorandum as required by QEMS guidelines using information from this task.
4. Initial Study analyses is qualitative. Substantive analyses, as needed, will be performed under Task 3.4.3.

Subtask 3.3.2 – Deliverables (COMPLETE)

1. Draft Initial Study for Guadalupe Dam (electronic)

Subtask 3.4 - Prepare Draft Environmental Impact Report (REVISED)

Following completion of Task 3.3, development of Draft Environmental Impact Reports will be undertaken by Consultant. This task includes the steps to prepare two Draft EIRs, in addition to the Notices of Preparation to announce the upcoming environmental review, administrative drafts for Valley Water review and public drafts to be circulated for comment.

Subtask 3.4.1 - Prepare Notice of Preparation (COMPLETE)

Consultant will prepare Notices of Preparation (NOP) for each dam to announce the upcoming environmental review and solicit public input on the scope and content of the EIR. The NOPs will include the IS's developed under Task 3.3, to inform public input regarding the environmental analysis. The two IS's developed under Task 3.3 above will be included with the NOP as an attachment, to help obtain public input regarding the impact topics to be included or dismissed from the EIR.

Subtask 3.4.1 - Assumptions

1. Valley Water will provide an initial list of interested parties.

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

2. Valley Water will provide a mailing list for each dam.
3. Valley Water will distribute the NOPs.

Subtask 3.4.1 – Deliverable (COMPLETE)

1. Draft NOPs (electronic); Final NOPs (15 paper copies plus one electronic copy) (one set for Calero Dam including Fellows Dike and one set for Guadalupe Dam)

Subtask 3.4.2 - Conduct Environmental Scoping (COMPLETE)

1. In collaboration with Valley Water, Consultant will schedule and plan up to four public scoping meetings required by CEQA (two for each dam). At Valley Water's direction, Consultant will attend the meeting, answer questions, and solicit comments from the public and prepare detailed meeting notes. Consultant will prepare informational and presentation materials for the meeting. The location for the scoping meetings will be determined in consultation with Valley Water Project Manager. Consultant will compile comments received at the scoping meeting and in response to the NOP and prepare a Scoping Summary Report.
2. Consultant will document and provide public comments to Valley Water.

Subtask 3.4.2 - Assumptions

1. Valley Water will provide service to capture public comments.
2. Consultant will not provide a meeting transcript.
3. Valley Water will make meeting place arrangements, facilitate the meeting, and make the presentation.

Subtask 3.4.2 – Deliverables (Complete)

1. Draft and final public scoping meeting materials (paper and electronic) (one for Calero Dam including Fellows Dike and one for Guadalupe Dam), scoping materials will include comment cards and up to two boards per dam (Completed).
2. Scoping Summary Reports (electronic) (one for Calero Dam including Fellows Dike and one for Guadalupe Dam)

Subtask 3.4.3 - Prepare Administrative Draft EIR (ADEIR) (REVISED)

Consultant will prepare separate Administrative Draft EIRs for each dam including assessments of up to two (2) borrow and/or spoil areas for each dam. The ADEIR will incorporate the data and information collected and reviewed during previous tasks including Task 3.2, as well as comments submitted during the public scoping period. The ADEIR for each dam will be prepared based on the Final Revised Project Description for Calero Dam and the Final Revised Project Description for Guadalupe Dam described in Subtask 3.3.1. Technical analyses and impact assessments will be prepared using the

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

impact topics and significance thresholds prescribed in Appendix G of the most recently published CEQA Guidelines, Valley Water input, and other applicable standards provided by Valley Water. The following resources are assumed to be dismissed from further evaluation in each EIR: Agricultural and Forestry Resources, Minerals, and Population and Housing. All other resources will be fully evaluated in each EIR as described below. Appropriate mitigation measures will be identified for significant impacts. Consultant will use mitigation measures developed for Valley Water's Dam Maintenance Program EIR to the extent that they are applicable to impacts of the Seismic Retrofit Project. Proposed borrow sites will be also assessed in the environmental analysis.

The approaches to each of the environmental topics that Consultant will address in the EIR are described below.

A. Aesthetics

Consultant will describe the existing aesthetic conditions, including sensitive visual resources and sensitive visual receptors, and will analyze temporary aesthetic impacts from construction as well as long-term changes in aesthetic character. Consultant will reference any applicable visual or scenic resource policies from the San Jose Envision 2040 General Plan, the County of Santa Clara's General Plan, and Countywide Trails Master Plan to analyze impacts to aesthetic resources.

B. Air Quality and Greenhouse Gas

Consultant will analyze the potential significance of the Project's air quality and greenhouse gas emissions associated with Project construction. Each EIR will describe the existing air quality conditions of the Project area and San Francisco Bay Area Air Basin, the federal, state, and Bay Area Air Quality Management Valley Water regulations applicable to the Project, and the potential impacts from the Project's emission-generating activities. These activities include fuel combustion in construction equipment and fugitive dust generation during dam stabilization, breaching of Fellow's Dike, and borrow and spoils material transport.

Each EIR's impact analysis (prepared by the Consultant) will assess the significance of: 1) construction equipment emissions; 2) the health risks associated with the Project's emissions (i.e., carcinogenic and non-carcinogenic health risks); and 3) odors associated with the Project's emissions. The analysis would use methodologies consistent with the most recent guidelines available from the BAAQMD.

If necessary, the EIR (prepared by the Consultant) will acknowledge and disclose the potential for risks associated with airborne asbestos fibers or other contaminants associated with borrow area soils or dredge spoils, however, the EIR will not model or quantify the incremental risks associated with this impact because federal and state regulatory processes are in place to quantify and

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

control the risks associated with this potential impact (e.g., BAAQMD Regulation 11, Rule 14 - Asbestos Containing Serpentine).

Consultant will prepare a discussion of the potential impacts associated with implementation of the proposed Project in the context of existing BAAQMD guidance. Consultant will use the most recent and applicable CEQA thresholds to complete the air quality impact analysis.

Greenhouse gas impact analyses (prepared by the Consultant) will be based on the construction equipment and vehicle use. The impact analysis will be completed by evaluating whether the Project will comply with currently applicable BAAQMD best management practices and the Sacramento Metropolitan Air Quality Management District (SMAQMD) quantitative screening level for assessing construction emissions.

C. Biological Resources

Consultant will use the information collected in Task 3.2 and experience on similar dam projects in the region to evaluate the biological resources in the ADEIR. The biological resource evaluations will address each of the components of the Project in the context of the biotic resources of the Project sites and vicinity and identify site-specific direct, indirect and cumulative impacts. Consultant will assess potential impacts to special-status species, sensitive habitats, as well as jurisdictional waters. This analysis will include an evaluation of the effects of reservoir dewatering and stream flow reductions on downstream fisheries habitats at Calero Dam and Guadalupe Dam. Consultant will evaluate impact significance using the thresholds provided in the CEQA Guidelines and Valley Water's guidance.

Mitigation will be developed by the Consultant in coordination with Valley Water to address potentially significant impacts of the Project on biotic resources on and off the Project site. Potential mitigation options to be evaluated will include avoiding the impact, minimizing the impact by decreasing the timing and locations of the proposed actions, restoring the biotic resource to its former condition after the impact has occurred, reducing or eliminating the impact over time by appropriate preservation and maintenance operations during the life of the Project, and/or compensating for the impact by replacing elsewhere those habitats or those biota that have been adversely affected.

D. Cultural Resources and Tribal Cultural Resources

Consultant will conduct a cultural resources evaluation for both dams in compliance with CEQA, NEPA, and NHPA Section 106. Consultant will use the results of recent cultural resources studies conducted within the Project areas and collected as part of Task 3.2—such as those in support of the Final Program Environmental Impact Report for the Valley Water Dam Maintenance Program—in order to assess Project effects, make mitigation recommendations, and make recommendations of eligibility for listing on the National Register of Historic

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

Places (NRHP) and/or the California Register of Historical Resources (CRHR). Consultant will use cultural resources information, as well as any information generated through Valley Water's consultation with Tribes pursuant to AB 52 to prepare a Tribal Cultural Resources evaluation.

E. Energy (New)

Using information from the air quality and GHG analysis, Consultant will prepare a new and separate Energy section from that of the GHG section for the Calero Dam and Fellows Dike EIR and Guadalupe EIR using the most recent state CEQA Guideline thresholds. The analysis will quantitatively evaluate construction energy use during Package A and Package B for each Dam by developing information based on the air quality and GHG analysis; operational energy use for each Dam is assumed to be negligible and therefore will not be fully evaluated.

F. Geology and Soils

Using prior site-specific knowledge and existing data, Consultant will analyze the Project's potential to expose people or structures to substantial adverse effects from the rupture of a known earthquake fault, strong seismic ground shaking, seismic-related ground failure, or landslides. Consultant will also address the potential for soil erosion and liquefaction, and will recommend mitigation measures to minimize the loss of topsoil and erosion during construction.

G. Groundwater (New)

Consultant will prepare new and separate groundwater sections from that of the surface hydrology and water quality section for the EIR of Component 1 and Component 2. Consultant will qualitatively evaluate potential changes in groundwater storage, recharge, and quality during construction based on existing data/information and the Final Project Description developed in subtask 3.3.1 and using information developed in Subtask 3.2.5 for Component 1 and Component 2 EIRs.

H. Hazards and Hazardous Materials

Consultant will evaluate potential threats to public health and safety from hazardous materials and other hazards that could result from Project construction. Consultant will review available environmental database reports collected under Task 3.2, describe the regulatory framework, and potential impacts from construction. Potential disturbance of existing hazardous materials/contamination sites located within the area of construction disturbance and the immediate vicinity around construction disturbances will be evaluated.

I. Surface Water Hydrology and Water Quality

Consultant will evaluate impacts to hydrology, flood control, and water quality, and in particular assess construction impacts on water quality and hydrology parameters, along with applicable federal, state, and local regulations.

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

Consultant will evaluate potential water-quality impacts that could stem from reservoir dewatering, construction of cofferdams, and other in-water and near-water Project construction activities. Consultant will evaluate the potential for Project activities to expose or mobilize mercury (a greater concern at Guadalupe Reservoir), both during and following construction activities. Consultant will also prepare an analysis for potential bioaccumulation of contaminants resulting from aqueous mobilization due to drawdown, cofferdam, and in-water construction activities. This analysis will consist of a qualitative evaluation of the construction work relying on water and sediment contaminant data supplied by Valley Water (if available) or otherwise publicly available.

J. Noise

Noise and vibration impacts associated with the Project are anticipated to be limited to temporary noise from on-site construction activities and haul trucks traveling on local streets to and from the two dam locations. Consultant will describe in each EIR the existing noise and vibration environment of the Project area, identify sensitive receptors, and compare projected construction noise to local noise standards (i.e., County of Santa Clara and City of San Jose).

Consultant will, in each EIR, identify typical construction equipment sound levels, quantify peak and typical construction activity noise levels (including attenuation due to topography and ground cover), and, if necessary, identify best management practices or mitigation measures to reduce the magnitude of potential construction noise and vibration impacts, such as restricted work hours or blasting noise management plans if blasting is proposed.

K. Land Use and Planning

Although the Project would be exempt from local building and zoning ordinances under California Government Code Section 53091, Consultant will assess whether the Project would conflict with local land use plans, policies and regulations adopted for the purpose of avoiding or mitigating an environmental effect. The impact analysis will consider relevant policies from local jurisdictions including the City of San Jose General Plan and Zoning Ordinance, County of Santa Clara General Plan and Zoning Ordinance and County of Santa Clara Parks and Recreation Department policies (related to the breaching of Fellow's Dike).

L. Transportation

The transportation analysis will focus on construction impacts but also consider any post-project changes in vehicle use for operational and maintenance activities. Consultant will qualitatively evaluate VMT from construction vehicles and workers, including by identifying sources of construction VMT and opportunities, if any, to reduce VMT; and quantify any permanent increases in post-project VMT. Consultant will also evaluate site access and roadway systems near the dams in terms of roadway widths, curvatures, capacities, pavement

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

strength, and integrity to identify appropriate access routes, seeking the least impact and shortest distance. Consultant will identify local roadways near the access points to the dam construction area that may experience short-term construction impacts in the section and will discuss potential delay on these roadways related to construction activities in terms of “time spent following” construction vehicles.

M. Public Services (New)

A qualitative discussion of the emergency access and routes as they relate to emergency response times under existing conditions and project construction conditions will be discussed as part of the public services evaluation. Information will be used from the traffic analysis regarding potential road closures or detours during construction that may be needed and a qualitative evaluation of effects on emergency response times will be performed.

N. Recreation

Each EIR will contain an analysis of the relevant Project Component’s impacts to recreational resources during Project construction and long-term operation of the dams and reservoirs once the retrofit Project is completed. Recreation policies from the San Jose Envision 2040 Parks, Open Space and Recreation Element, the Santa Clara County General Plan, and the Santa Clara County Parks Plans (e.g., Countywide Trails Master Plan) that overlap with the Project area will be referenced and/or used to analyze impacts to recreation facilities.

O. Wildfire (New)

Consultant will prepare new and separate wildfire sections from that of the hazards and hazardous materials section for the EIR of Calero Dam including Fellows Dike and Guadalupe Dam. Consultant will qualitatively evaluate the potential and risk of wildfire during construction based on existing data/information and the Final Project Description developed in subtask 3.3.1 and using information developed in Subtask 3.2.5 for each EIR.

P. Utilities and Service Systems

The primary function of Calero and Guadalupe Dams is to store and convey water supply. Construction of the proposed dam improvements may temporarily affect water supply availability and distribution, the impacts of which the Consultant will evaluate. Other public utilities, such as electricity, gas, stormwater, and wastewater facilities would not likely be affected. If necessary, Consultant will identify feasible and appropriate measures for avoiding or reducing impacts to utilities and services.

Q. Cumulative Impacts and Other CEQA Requirements

Consultant will prepare a cumulative analysis for projects that may occur at the same time or near the Project vicinity. This may include other Valley Water dams such as Almaden or Anderson, depending on how construction schedules for

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

those projects coincide with the construction schedules of the Guadalupe and Calero Project Components.

The documents will also contain sections on CEQA alternatives and other statutory considerations, including growth inducement or irreversible impacts, as well as lists of preparers and appropriate appendices.

The Consultant will work with Valley Water to obtain sufficient information to describe alternatives considered but eliminated from further reevaluation and alternatives carried forward for further consideration for Calero Dam including Fellows Dike and Guadalupe Dam. Potential CEQA alternatives will be screened using the objectives for each project. The CEQA objectives will have been reviewed and agreed upon by Valley Water prior to alternative screening. The CEQA alternatives will be evaluated in the EIR pursuant to CEQA requirements and guidelines and do not need to be described or analyzed at the same level of detail as that of the proposed project for Calero Dam including Fellows Dike and Guadalupe Dam.

R. Alternatives Analysis

Consultant will identify a reasonable range of alternatives using the Planning Study Reports for each dam, other options considered during design, and new alternatives identified in coordination with Valley Water and the design consultant that reduce at least one significant impact, as required by CEQA. Consultant will compile a list of possible alternatives and identify considerations for alternatives in NEPA documentation and CWA Section 404(b)(1) alternatives analysis and alternatives that do not meet CEQA requirements for alternatives considered. The alternatives analysis in the EIR will discuss the alternatives development/screening process, identify alternatives considered but dismissed, and evaluate a reasonable range of alternatives considered, including the No Project Alternative, in comparison to the proposed project.

Subtask 3.4.3 - Assumptions

1. The study area for biological and cultural field surveys will be limited to the core Project areas, including Guadalupe Reservoir and Dam, Calero Reservoir and Dam (including Fellows Dike) and immediate environs. Surveys in additional Project areas outside the core areas such as off-site borrow areas, staging, disposal; water storage and release areas would require additional scope and not-to-exceed fees and may be performed as Supplemental Services.
2. Borrow areas will be identified on-site.
3. Land Cover Maps produced for the ADEIRs will be appropriate to meet the requirements of the Valley Habitat Plan application package in Task 3.7.
4. Valley Water will provide a list of its concurrent projects to be analyzed for cumulative impacts. Consultant will contact County of Santa Clara for a list of other projects in the area to include in the cumulative analysis.

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

5. No visual simulation modeling will be needed, and photography of the existing areas will be sufficient to present the analysis of aesthetic impacts.
6. Consultant work effort does not include recreation counts, surveys, or outreach to the recreation community.
7. No field work or laboratory analysis is necessary to evaluate hydrology and water quality for this task.
8. Valley Water will provide information regarding the management of water, including dewatering, reservoir releases, and turbidity management, during construction of Package A and Package B for Component 1 and Component 2. Valley Water Assumptions 1 through 8 are suitable and applicable for the EIR analysis regarding the redesigned Calero Dam including Fellows Dike and Guadalupe Dam.
9. No field work or laboratory analysis is necessary to evaluate fisheries resources for this task.
10. Valley Water will be responsible for consultation with Tribes pursuant to AB 52 and will provide the Consultant with information that is developed through the AB 52 consultation process for consideration, evaluation, and incorporation into the ADEIR.
11. The ADEIR for Calero Dam including Fellows Dike will be delivered to Valley Water in batches as agreed upon between Valley Water and Consultant, with simpler resources provided first (e.g., aesthetics, groundwater) and more challenging resources that rely on extensive field work provided later (e.g., air quality, greenhouse gases, transportation).

Subtask 3.4.3 – Deliverable

1. First Administrative Draft EIR (ADEIR) (electronic copies) (one for Calero including Fellow's Dike and one for Guadalupe Dam).
 - a. Consultant will prepare a new aesthetics section for the Calero Dam including Fellows Dike EIR and will prepare an aesthetics section for the Guadalupe EIR. Both sections will evaluate the Final Project Description developed in Subtask 3.3.1 for each dam and will include existing aesthetic conditions, including any applicable updates based on work performed in Subtask 3.2.5. Consultant will follow the general approach outlined in Subtask 3.4.3.A above regarding aesthetics.
 - b. Consultant will prepare a new AQ section and a new GHG section for the Calero Dam including Fellows Dike EIR and will prepare an AQ section and GHG section for the Guadalupe Dam EIR. These sections will evaluate the Final Project Description developed in Subtask 3.3.1 for each Dam. Consultant will follow the scope of AQ and GHG analysis outlined in Subtask 3.4.3.B.1 through 3.4.3.B.5 above regarding air quality and greenhouse gases.
 - c. Consultant will prepare a new terrestrial biological resources section and new fisheries section for the Calero Dam including Fellows Dike EIR and will prepare a terrestrial biological resources and fisheries section for the Guadalupe EIR.

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

These sections will evaluate the Final Project Descriptions for each Component developed in Subtask 3.3.1 and will use information developed in Subtasks 3.2.1, 3.2.3, and 3.2.5. These sections will analyze impacts on wildlife, vegetation, and fisheries from construction of elements in Package A and Package B of each Dam. The Consultant will integrate VHP considerations into the approach to the impact and mitigation assessment. Consultant will also reference the Fish and Aquatic Habitat Collaborative Effort (FAHCE) EIR for discussing operational impacts on fisheries at Calero Dam and Guadalupe Dam post construction. The sections will cover the same fish species as the FAHCE EIR and no recreational fish will be evaluated. Consultant will follow the scope of biological resource analysis outlined in Subtask 3.4.3.C.1 and Subtask 3.4.3.C.2 above. Preparation of the terrestrial biological resources section of the Draft EIR for CDSRP is authorized under Supplemental Services Task Order 31. Preparation of the fisheries resource section of the CDSRP Draft EIR is authorized under Supplemental Services Task Order 30.

- d. Consultant will prepare a new cultural resources section for the Calero Dam including Fellows Dike EIR and will prepare a cultural resources section for the Guadalupe Dam EIR. These sections will evaluate the Final Project Description developed in Subtask 3.3.1 for each Dam and will use information developed in Subtask 3.2.5. These sections will analyze impacts on cultural resources, including historic architecture, from construction of elements in Package A and Package B of each Dam. Consultant will follow the scope of cultural resource analysis outlined in Subtask 3.4.3.D above.
- e. Consultant will prepare a new Tribal Cultural Resources section for the Calero Dam including Fellows Dike EIR and will prepare a Tribal Cultural Resources section for the Guadalupe EIR. These sections will evaluate the Final Project Description developed in Subtask 3.3.1 for each Dam and will use information developed in Subtask 3.2.5. These sections will analyze impacts on Tribal Cultural Resources from construction of elements in Package A and Package B of each Dam. Consultant will follow the scope of Tribal Cultural Resources analysis outlined in Subtask 3.4.3.D above and incorporate information provided by Valley Water from their on-going consultation with Tribes pursuant to AB52 for each Dam.
- f. Consultant will prepare a new geology and soils section for Calero Dam including Fellows Dike EIR and will prepare a geology and soils section for Guadalupe EIR. Both sections will evaluate the Final Project Description developed in Subtask 3.3.1 and use information developed in Subtask 3.2.5. Consultant will follow the scope of geology and soils analysis outlined in Subtask 3.4.3.F above and qualitatively evaluate construction impacts related to geology and soils by incorporating recent geotechnical information provided by Valley Water related to Calero Dam including Fellows Dike and Guadalupe Dam.
- g. Consultant will prepare a new hazards and hazardous materials section qualitatively evaluating the construction of Package A and Package B of Calero Dam including Fellows Dike. Consultant will also prepare a hazards and hazardous materials section qualitatively evaluating the construction of Package A and Package B of Guadalupe Dam. The hazards and hazardous materials sections will include the scope of analysis described in Subtask 3.4.3.H above

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

and will be based on the Final Project Description developed in Subtask 3.3.1 and using information developed in Subtask 3.2.5 for each Dam, including the most recent environmental testing information prepared for Calero Dam including Fellows Dike.

- h. Consultant will prepare a new surface water hydrology/water quality section qualitatively evaluating the construction of Package A and Package B of Calero Dam including Fellows Dike. Consultant will also prepare a surface water hydrology/water quality section qualitatively evaluating the construction of Package A and Package B of Guadalupe Dam. These sections will evaluate the Final Project Description developed in Subtask 3.3.1 for each Dam and will use information developed in Subtask 3.2.5. Preparation of the hydrology and water quality section of the CDSRP Draft EIR is authorized under Supplemental Services Task Order 30.
- i. Consultant will prepare a new noise and vibration section for the Calero Dam including Fellows Dike EIR and will prepare a noise and vibration section for the Guadalupe EIR. These sections will evaluate the Final Project Description developed in Subtask 3.3.1 for each Dam. These sections will quantitatively evaluate noise impacts from construction of elements in Package A and Package B of each Dam using baseline noise measurements and modeled data. Consultant assumes equipment lists and horsepower will be provided for Package A and Package B purposes and that construction at each Dam site may require the use of a vibratory hammer for pile driving purposes and will quantify and analyze such use. Consultant will model potential noise and vibration impacts and will follow the scope of noise and vibration analysis outlined in Subtask 3.4.3.J.1 and 3.4.3.J.2 above.
- j. Consultant will prepare a new land use and planning section qualitatively evaluating the construction of Package A and Package B of Calero Dam including Fellows Dike. Consultant will also prepare a land use and planning section qualitatively evaluating the construction of Package A and Package B of Guadalupe Dam. The land use sections will include the scope of analysis described in Subtask 3.4.3.K above and will include a policy compatibility analysis.
- k. Consultant will prepare a new transportation section for the Calero Dam and Fellows Dike EIR and will prepare a transportation section for the Guadalupe EIR. These sections will evaluate the Final Project Description developed in Subtask 3.3.1 for each Dam. The new section will quantify any post-project increases in VMT and qualitatively evaluate VMP from construction of elements in Package A and Package B of each Dam, pursuant to CEQA Guidelines Section 15064.3(b) and SB743. Consultant will not evaluate LOS, as LOS is no longer required by CEQA. Emergency access and road hazards will be qualitatively evaluated based on road closures needed to construct Package A and Package B elements and ingress/egress locations and access points for construction trips for each dam.
- l. Consultant will prepare a new public services section qualitatively evaluating the construction of Package A and B of Calero Dam including Fellows Dike on emergency response times as a result of potential construction road closures or detours. Consultant will also prepare a public services section qualitatively

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

evaluating the construction of Package A and Package B of Guadalupe dam. Public service ratios for police, fire, schools, and libraries will not be assessed as part of the public service analysis. Each section will include existing and available information regarding emergency response times around each reservoir. The recreation sections will include the scope of analysis described in Subtask 3.4.3.M above.

- m. Consultant will prepare a new recreation section qualitatively evaluating the construction of Package A and Package B of Calero Dam including Fellows Dike. Consultant will also prepare a recreation section qualitatively evaluating the construction of Package A and Package B of Guadalupe Dam. Each section will include existing and available statistics regarding visitation at each reservoir. The recreation sections will include the scope of analysis described in Subtask 3.4.3.N above.
- n. Consultant will prepare a new utilities and service system section qualitatively evaluating the construction of Package A and Package B of Calero Dam including Fellows Dike. Consultant will also prepare a utilities and service system section qualitatively evaluating the construction of Package A and Package B of Guadalupe Dam. The sections will include the scope of analysis described in Subtask 3.4.3.P and will include an analysis of water supply during the construction of Package A and Package B of each Dam and post-construction.
- o. Consultant will prepare a new cumulative impact chapter and other CEQA requirements analysis section qualitatively evaluating the construction of Package A and Package B of Calero Dam including Fellows Dike. Consultant will also prepare a cumulative impacts chapter and other CEQA requirements analysis qualitatively evaluating the construction of Package A and Package B of Guadalupe Dam. The chapters will include the scope of analysis described in Subtask 3.4.3.Q.1 through 3.4.3.Q.3 above.
- p. Consultant will prepare a new alternatives chapter evaluating a reasonable range of alternatives for the CDSRP and will prepare an alternative chapter evaluating a reasonable range of alternatives for the GDSRP. The chapters will include the scope of analysis described in Subtask 3.4.3.R above.

Subtask 3.4.4 - Prepare Draft EIR (REVISED)

Based on Valley Water comments provided to Consultant on the ADEIR, Consultant will revise the Administrative Draft EIR and issue a second draft ADEIR. The Consultant will respond to comments on the second ADEIR and the resulting document/s will be the Public Draft (DEIRs). Valley Water will be provided screen check copies of the Draft EIRs to ensure that comments have been incorporated prior to printing.

Subtask 3.4.4 - Assumptions

- 1. Valley Water will provide one consolidated set of ADEIR comments for each resource topic area section, with conflicting comments reconciled prior to submitting to the Consultant. Consolidated comments on each resource topic area section will be provided in electronic format.

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

2. One Valley Water conference call for each DEIR to review Valley Water planning and legal comments. It is assumed that any additional conference calls to review comments will be covered in the biweekly progress meetings.

Subtask 3.4.4 - Deliverables

1. Second ADEIRs (electronic copy) incorporating comments on the first ADEIRs (one set for Calero Dam including Fellows Dike and one set for Guadalupe Dam).
2. Screencheck Draft EIRs (electronic copy) incorporating comments on the second ADEIRs (one set for Calero Dam including Fellows Dike and one set for Guadalupe Dam).
3. Up to 10 hard copies of the Public Draft EIRs incorporating comments on the Screencheck Draft EIRs. Electronic copies will be submitted via Sharepoint or another file transfer system and will include one print-ready pdf of all chapters and all appendices and individual pdfs of chapters and appendices, suitable for downloading from Valley Water's website (one set for Calero Dam including Fellows Dike and one set for Guadalupe Dam).

Subtask 3.5 - CEQA Public Noticing and Participation Requirements (REVISED)

This task identifies the steps required for release and public review of the Draft Environmental Impact Report.

Subtask 3.5.1 - Prepare Information for Valley Water Website and Filing Draft EIR with the State Clearinghouse (REVISED)

Consultant will prepare a Notice of Availability (NOA) for each dam for public mailing and posting on Valley Water's website. The NOAs will be developed in compliance with CEQA Guidelines Sections 15087 and 15105.

The Consultant will send the NOAs to the County of Santa Clara Clerk/Recorder for recording and all responsible and trustee agencies, and the State Clearinghouse. The NOAs will be mailed to the public by Valley Water. Valley Water will publish the NOA in a newspaper of general circulation consistent with Valley Water public outreach procedures.

Subtask 3.5.1 - Assumptions

1. Valley Water will prepare and pay for newspaper advertisements.
2. Valley Water will distribute materials except as noted above.

Subtask 3.5.1 - Deliverables

2. Draft and Final NOA or publication on Valley Water website and State Clearinghouse filing (one set for Calero Dam including Fellows Dike and one set for Guadalupe Dam).

Subtask 3.5.2 - Prepare Notice of Completion for Filing with State Clearinghouse

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

(REVISED)

In coordination with Valley Water, Consultant will prepare the Notice of Completion (NOC) that contains a brief Project description and location, address where the Draft EIR is available for public review, and the dates of the review period. The Consultant will submit the NOC to the State Clearinghouse, along with the NOA prepared under this Task to start the 45-day (or longer) public review period in compliance with CEQA Guidelines Section 15085.

Subtask 3.5.2 - Deliverables

1. Draft and Final NOC for Calero Dam (including Fellows Dike) and Guadalupe Dam
2. State Clearinghouse electronic filing materials for Calero Dam (including Fellows Dike) and Guadalupe Dam

Subtask 3.5.3 - Prepare for and Attend Public Hearing (REVISED)

During the public comment period Consultant will support Valley Water in preparing for public meetings or hearings for Valley Water Board of Directors. Consultant will assist Valley Water in presenting the Project, describe the CEQA process, and answer questions on the EIR from the Board of Directors and public. Consultant will record notes during the public meetings and hearings. As part of this task, Consultant will prepare meeting notices / announcements, public hearing and meeting displays, handouts, and presentations in coordination with Valley Water. Consultant will record written public comments during these hearings and meetings.

Subtask 3.5.3 - Assumptions

1. One public meeting will be held for each dam EIR at a community facility near each project location. Valley Water will handle arrangements for the meeting rooms and will facilitate the meetings and present the Project.
2. Valley Water will provide service to capture public comments.
3. Consultant will respond only to written comments submitted on the EIRs by mail or on comment cards at the meetings, or notes captured by Valley Water.
4. Consultant will maximize use of master responses and will provide up to 400 hours of support for preparing draft responses to comments for the CDSRP and up to 400 hours of support for preparing draft responses to comments for the GDSRP.

Subtask 3.5.3 - Deliverables

1. Public Hearing Display Material (up to 4 presentation boards for each dam) (one set for Calero Dam including Fellows Dike and one set for Guadalupe Dam)
2. Agenda(s) (one for Calero Dam including Fellows Dike and one for Guadalupe Dam)

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

3. Handouts (one for Calero Dam including Fellows Dike and one for Guadalupe Dam)
4. Public comment cards (paper)
5. Meeting Notes (one for Calero Dam including Fellows Dike and one for Guadalupe Dam)

Subtask 3.5.4 - Respond to Public Comments (REVISED)

After the close of the public comment period on the Draft EIRs, Consultant will review comment letters provided by Valley Water and will prepare a numbered matrix of all public comments received. Consultant will assess whether they can address certain comments with "Master Responses." For comments that require individual responses, Consultant will prepare those as appropriate. Based on Valley Water comments, Consultant will revise the response to comments. Two rounds of revisions will be provided to develop a Final Response to Comments. The Final Response to Comments Report will be included in the Final EIRs in Subtask 3.6.1.

Subtask 3.5.4 - Assumptions

1. Up to five conference calls for each dam EIR to discuss comment matrix, strategy, and responses to comments.

Subtask 3.5.4 - Deliverables

1. First Draft Responses to Comments (one for Calero Dam including Fellows Dike and one for Guadalupe Dam).
2. Second Draft Response to Comments (one for Calero Dam including Fellows Dike and one for Guadalupe Dam)
3. Final Response to Comments (one for Calero Dam including Fellows Dike and one for Guadalupe Dam)

Subtask 3.6 - Prepare Final Environmental Impact Report (REVISED)

Following completion of the public review process for the Draft EIR, the Final EIR will be completed by Consultant.

Subtask 3.6.1 - Prepare Final EIR (REVISED)

Based on public comments and the Final Response to Comments in Subtask 3.5.4, Consultant will prepare the Administrative Final EIR (AFEIR), incorporating public comments, responses to comments and content of the Draft EIR. The Administrative Final EIRs (AFEIR) for each dam will include copies of the comment letters received on the Public Draft EIR, a specific response to each comment (from revised (after Valley Water comments) Response to Comments Report), and underline (additions) and strikeout (deletions) edits to the Draft EIR text as a result of public comments or other changes initiated by Valley Water as the lead agency.

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

The AFEIRs will also include the Mitigation, Monitoring, and Reporting Program (MMRP). Consultant will prepare Draft MMRPs for each dam in compliance with CEQA Guidelines Section 15097 and Valley Water QEMS guidelines. The MMRPs will incorporate the mitigation measures proposed in the Draft EIRs with information including, but not limited to responsibility for performing the measures, standards of performance, and the entity responsible for ensuring the mitigation is carried out as specified.

Consultant will complete the Final EIRs based on comments received from Valley Water on the Screencheck Final EIRs. Preparation of the Final EIRs is assumed primarily related to document layout, format, and final editing.

An electronic copy of the Final EIR will be provided by the Consultant to any public agency that submitted comments on the Public Draft EIRs and per CEQA Guidelines Section 15089(b), the Final EIR will be distributed to commenting agencies at least ten days prior to certification of the Final EIR.

Subtask 3.6.1 - Assumptions

1. One meeting at Valley Water's office or conference call for each AFEIR to review Valley Water comments. Valley Water will provide a set of consolidated comments on the Draft Response to Comments Reports with any discrepancies resolved.
2. Substantive quantitative reanalysis to respond to Draft EIR comments and changes to the Project Description that require EIR updates between Draft and Final versions will not occur in order to maintain the schedule or if required, may be performed under to Task 6, Supplemental Services.

Subtask 3.6.1 - Deliverables

1. First AFEIRs with MMRPs (electronic copy) (one set for Calero Dam including Fellows Dike and one set for Guadalupe Dam)
2. Second AFEIRs with MMRPs (electronic copy) incorporating comments on the first AFEIR (one set for Calero Dam including Fellows Dike and one set for Guadalupe Dam)
3. Screencheck Final EIRs and MMRPs (electronic copy) incorporating comments on the second AFEIR (one set for Calero Dam including Fellows Dike and one set for Guadalupe Dam)
4. Final EIRs (up to 10 hard copies) incorporating comments on the Screencheck Final EIRs (one set for Calero Dam including Fellows Dike and one set for Guadalupe Dam). Consultant will also produce one-print ready PDF of all chapters, responses to comments, and appendices and individual PDs of chapters, responses to comments, and appendices suitable for download from Valley Water's website.

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

**Subtask 3.6.2 - Prepare Findings and Statement of Overriding Considerations
(UNCHANGED)**

In coordination with Valley Water, Consultant will prepare draft Findings for each Project Component for each significant impact, and a Statement of Overriding Consideration for significant impacts found to be unavoidable, if applicable, for Valley Water's use in certifying the Final EIRs and approving the Project. The Statements of Overriding Considerations, if required, will express Valley Water's reasons for approving a Project that would have significant, unavoidable impacts on the environment. The Statement of Overriding Considerations will be based on supporting evidence in the administrative record. Consultant will prepare the findings in compliance with CEQA Guidelines Section 21081 and 21081.5. Following review and comment of the draft Findings, Consultant will finalize the Findings for adoption.

Subtask 3.6.2 - Deliverable

1. Draft and Final Findings and Statement of Overriding Considerations. (one for Calero Dam including Fellows Dike and one for Guadalupe Dam)

Subtask 3.6.3 - Prepare Notice of Determination (NOD) (UNCHANGED)

Consultant will prepare draft Notices of Determination for Valley Water review and filing once the Project has been approved by Valley Water Board of Directors. Within 5 days of Project approval, Consultant will file the Notice of Determination with the County of Santa Clara Clerk-Recorder's Office and State Clearinghouse and will mail it to anyone who requested a copy of the notice.

Subtask 3.6.3 - Deliverable

1. Draft and Final Notice of Determination (one for Calero Dam including Fellows Dike and one set for Guadalupe Dam) (electronic)

Subtask 3.6.4 - Assist with Public Hearing and Certification of EIR (UNCHANGED)

Consultant will provide support to Valley Water for the public meeting(s) or hearing(s) where Valley Water Board of Directors considers the EIR for approval. Consultant (as needed) will attend the Board's meeting, as requested. Consultant will record notes of public comments during the meeting and provide those comments to Valley Water.

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

Subtask 3.6.4 - Assumptions

1. Two hearings (one for Calero Dam including Fellows Dike and one for Guadalupe Dam) to be held at Valley Water's boardroom. Valley Water will present Project to the Board.
2. No official transcription will be provided. Notes from the public meeting will be prepared for Valley Water's review. Copies of all comments received in writing will be provided to the Consultant by Valley Water.

Subtask 3.6.4 - Deliverables

1. Public Hearing Displays, Handouts (one for Calero Dam including Fellows Dike and one for Guadalupe Dam)
2. Meeting notes from public meeting (hearing) (one for Calero Dam including Fellows Dike and one for Guadalupe Dam)

Subtask 3.6.5 – Prepare the Administrative Record for the Final EIRs (NEW)

Consultant will prepare the administrative record of all in text citations/references cited in the Final EIR for Calero and the Final EIR for Guadalupe. The consultant will compile and save pdfs or native files if data is not suitable to be converted to pdf (e.g., excel file) of each reference cited in each Final EIR Chapter and Appendix for Calero and Guadalupe. The pdf or native files will be organized in folders aligned to the structure of the Final EIR. The consultant will prepare an excel file index for each Final EIR of all in text citations/references identifying the following information: the text citation, document date, full reference found in the EIR, EIR location, confirmation that the pdf or native file is saved in the appropriate folder. If in text citations/references are referenced more than once in different parts of the Final EIR the consultant will enter the appropriate information into the excel index and save the pdf or native file to the respective folders.

Subtask 3.6.5 - Assumptions

1. The record will be compiled throughout the preparation of the EIR, but will only be provided for the in text citations/references found in the Final EIR.
2. The excel file index and record will be provided after the Findings and Statement of Overriding Considerations.
3. Valley Water will be responsible for records that are not in text citations/references that may be considered part of the project's administrative record.

Subtask 3.6.5 - Deliverables

1. Draft Excel File Index and record for Calero and for Gudalupe (electronic and uploaded to Valley Waters sharepoint site)

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

2. Final Excel File Index and record for Calero and for Guadalupe (electronic and uploaded to Valley Water's sharepoint site)

Subtask 3.7 - Support Regulatory Permitting

The purpose of this task is for Consultant to produce permit applications, environmental documents and other supporting material needed for Project implementation. Valley Water will take the lead in negotiations with regulatory agency staff. Consultant will provide support with negotiations as noted below.

Subtask 3.7.1 - Assist with Initial Regulatory Agency Consultation

Under the direction of Valley Water, Consultant will plan and participate in initial consultation(s) with regulatory agency personnel. Consultant will be responsible for keeping detailed notes of meeting(s).

Subtask 3.7.1 - Assumptions

1. Up to three pre-application consultation meetings (e.g., RWQCB, USACE, and CDFW) and six post application consultation meetings (two with each of the three resource agencies listed above) with regulatory agency personnel.

Subtask 3.7.1 - Deliverables

1. Initial Consultation Meeting Agenda and Notes (one for Calero Dam including Fellows Dike and one for Guadalupe Dam)

Subtask 3.7.2 - Prepare Draft Permit Applications

In consultation with Valley Water, the Consultant will prepare draft permit applications for compliance with applicable regulations for the following agencies: United States Army Corp of Engineers (USACE), USFWS, NMFS, San Francisco Bay Regional Water Quality Control Board (RWQCB), California Department of Fish and Wildlife (CDFW), and Valley Habitat Plan Implementing Entity.

For each application, Consultant will first prepare a draft version of the application for review by Valley Water. Based on Valley Water comments, Consultant will revise the draft applications. Consultant will finalize the applications for submittal to the regulatory and local agencies. The Draft Permit Applications are listed below:

1. **Clean Water Act Section 404.** Consultant will assemble a CWA Section 404 application package that includes Eng. Form 4345, a project description, a summary of previous environmental studies, an assessment of impacts to 404-jurisdictional habitats, and discussion of mitigation for impacts to waters of the U.S. Although the extent of impacts to 404-jurisdictional areas is not yet known, for the sake of this proposal, we have assumed that an Individual Permit may be necessary due to the potential extent of project impacts. The key component of an Individual Permit is an

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

Alternatives Analysis. Consultant will prepare Alternatives Analysis in consultation with the project team, pursuant to the Environmental Protection Agency's (EPA's) Section 404(b)(1) Guidelines (40 CFR 230). The Alternatives Analysis also will be consistent with the alternatives analysis included in CEQA and NEPA documentation for each Project component.

During the preparation of the Alternatives Analysis, the project team will provide the Consultant with drawings for at least two or three on-site alternatives that were considered and rejected, along with details regarding why any alternatives having less impact to waters of the U.S. than the proposed project are impracticable. This information will include detailed descriptions of each alternative, cost estimates, and impact areas (from which the Consultant will calculate impacts to waters of the U.S.). The Consultant will coordinate with the project team regarding the materials that will need to be prepared but will rely on the project's designers and engineers for information on why the project cannot practicably reduce impacts on waters of the U.S., to document that the proposed project is the Least Environmentally Damaging Practicable Alternative (LEDPA).

The basic outline to be followed includes:

- i. Describe the need for the Alternatives Analysis document;
- ii. Describe the location, situation etc.;
- iii. Describe the need for the project;
- iv. State the project purposes (basic and overall);
- v. Develop criteria which relate the 404(b)(1) Guidelines, which the project must meet and on which alternatives can be evaluated;
- vi. Describe alternatives (off-site and on-site);
- vii. Compare alternatives in terms of the evaluation criteria;
- viii. Demonstrate that the preferred alternative complies with the 404(b)(1) Guidelines and is the least environmentally damaging practicable alternative by showing that it meets all criteria while others fail, or meet to a lesser degree; and
- ix. Support document with appropriate data, drawings and or tables.

This task includes assisting USACE staff as needed in preparing the Public Notice for the project and preparing any response to comments on the Public Notice.

In the event that project impacts meet the criteria for use of a Nationwide Permit rather than an Individual Permit, the Consultant will prepare the materials necessary for a Nationwide Permit notification, consisting of all the components referenced above except for a detailed Alternatives Analysis.

The Consultant will submit a first-review administrative draft USACE permit application package to the Project team for review and comment.

Section 106 Compliance. A Section 106 complaint cultural resource technical document, as required by USACE in their 404 permitting process, is included in Subtask 3.2. In support of the 404 permit applications, Consultant will support

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

consultation with the State Historic Preservation Office (SHPO) and prepare a Memorandum of Agreement (MOA) prior to completion of the Section 106 process and issuance of the 404 permit per USACE and the State Historic Preservation Office (SHPO) requirements. It is anticipated that a Treatment Plan for the affected structures at Fellows Dike would be required prior to construction, but not necessary for 404 permit issuance. If required by the USACE for permit issuance, Consultant will prepare a Treatment Plan if authorized as a Supplemental Service.

2. **USFWS Biological Assessment (NEW).** Consultant will prepare a Biological Assessment that can be used by the USACE for Section 7 consultation during Section 404 permitting. The Biological Assessment will discuss the effects of Valley Habitat Plan-covered activities briefly, because incidental take authorization for those activities will be provided by the Valley Habitat Plan. Effects of non-Valley Habitat Plan covered activities will be discussed in greater detail.
3. **NMFS Biological Assessment.** In consultation with Valley Water, Consultant will prepare for Valley Water review the draft and final Biological Assessment (BA), as appropriate, for each dam to facilitate the USACE's formal Section 7 consultation with NMFS regarding potential Project impacts to listed fish species and critical habitat regulated by NMFS.

During or prior to preparation of the BAs, Consultant will participate in meetings between Valley Water and NMFS in order to review potential impacts of Project, related issues, avoidance and minimization measures, conservation measures and potential Project benefits to listed fish.

Substantial existing information is available regarding the fisheries habitat associated with Calero and Guadalupe Creeks downstream of the two dams. The Consultant will utilize existing fisheries information to address the potential for Valley Water's Project to result in "take" of the Central California Coast Steelhead DPS in Alamitos, Calero, and Guadalupe Creeks, as well as adverse modification of their habitat, as well as adverse effects on Essential Fish Habitat (EFH), as defined by Section 9 of the federal Endangered Species Act (ESA) and the EFH provisions of the Magnuson-Stevens Act.

Consultant will include the following in the BAs:

- Detailed analysis of direct, indirect, and cumulative effects of actions affecting waters of the United States, associated listed species, critical habitat, and selected Essential Fish Habitat (EFH) species (as applicable).
- Review of downstream water release alternatives.
- Identification of the potential for "take" of the Central California Coast Steelhead DPS, adverse modification of critical habitat, and adverse effects to EFH (as applicable), and avoidance and minimization measures.

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

- Where appropriate, identification of additional actions that would assist in species conservation and are tied to tasks identified in recovery plans.
 - Description of monitoring and reporting programs.
 - Potential Project effects on the listed species, considering intensity, duration, frequency, and severity of actions.
4. **San Francisco Bay Regional Water Quality Control Board.** The RWQCB will take jurisdiction over the same aquatic features that are regulated by the USACE, and may also claim as waters of the state areas up to the top of bank along streams, as well as any riparian trees or shrubs that are rooted below top of bank. Consultant will prepare a CWA Section 401 water quality certification/waste discharge requirement application to submit to RWQCB. The complete permit package includes much of the same information that is submitted to the USACE as described above, but will also include Form R2C502-E and several additional materials. The submittal will include all copies of the CEQA documents, applicable correspondence with USACE and RWQCB staff, the EPA Section 404(b)(1) Guidelines Alternative Analysis, an impact assessment, and project drawings. In addition, the RWQCB requires a processing fee for handling the application, to be paid by Valley Water.

Consultant will submit a first-review administrative draft RWQCB permit package to the project team for review and comment. Consultant will respond to comments received on the draft application and generate a final permit application package for submittal to RWQCB. As part of this task, Consultant staff will attend meetings with the project team and RWQCB staff to discuss the project.

5. **California Department of Fish and Wildlife Lake/Streambed Alteration Agreement.** The Project will require approval from CDFW pursuant to Fish and Game Code Section 1602 (Lake or Streambed Alteration Agreement [LSAA]). Consultant will prepare the following items to support acquisition of a LSAA for each Project Component (One for Calero Dam including Fellow's Dike and one for Guadalupe Dam):

CDFW will claim jurisdiction over all activities within Calero and Guadalupe Reservoirs, along creeks both upstream from these reservoirs and downstream from the dams, and in any associated riparian habitat. Consultant will prepare permit materials in support of a 1602 Lake and Streambed Alteration Agreement (LSAA) for submittal to the CDFW to authorize impacts to waters of the State and riparian habitats regulated by CDFW under Section 1602 of the California Fish and Game Code. Application materials include Form FG 2023, Lake and Streambed Alteration Program Project Questionnaire, all copies of environmental documentation, applicable correspondence with USACE, RWQCB, and other agency staff, an impact assessment, and project drawings. In addition, CDFW requires a processing fee for handling applications, to be paid by Valley Water.

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

Consultant will submit a first-review, administrative draft CDFW permit package to the project team for review and comment. Consultant will respond to comments received on the draft application and generate a final application package for submittal to CDFW through its Environmental Permit Information Management System (EPIMS). As part of this task, Consultant staff will attend meetings with the project team and CDFW staff to discuss the project.

6. **Eagle Incidental Take Permitting.** Based on the presence of a bald eagle nest within the CDSRP area and the possibility that golden eagles nest within 1 mile of the CDSRP area, it is expected that permits from both the USFWS (under the Bald and Golden Eagle Protection Act) and CDFW (under the Fish and Game Code) will be necessary for the CDSRP. Consultant will prepare applications for each permit, and meet/coordinate with the USFWS and CDFW as necessary. Although it is not yet known whether eagle take permits will be needed for the GDSRP, this task includes preparation of applications for the same permits, and coordination with the USFWS and CDFW as necessary, for the GDSRP if eagle surveys determine that such permits are necessary.
7. **Santa Clara Valley Habitat Conservation Plan Application.** Consultant anticipates that Incidental Take Permits issued by USFWS and CDFW under the Valley Habitat Plan will be available for use by the Project in accordance with the Federal Endangered Species Act (FESA) and California Endangered Species Act (CESA). The Valley Habitat Plan requires submittal of project-specific documentation to the Implementing Entity. The process for review and approval of the documentation has not yet been established and may be subject to change.

Consultant will use Valley Water's existing documentation of resources, and the habitat level studies scoped under Task 3.2, to evaluate potential impacts to biological resources within the Project area and vicinity to satisfy the Valley Habitat Plan species-specific survey. The conditions for the following biological resources will be addressed as appropriate:

- California red-legged frog, foothill yellow-legged frog, and western pond turtle
- Contra Costa goldfields
- Serpentine-endemic rare plants
- Bay checkerspot butterfly habitat
- Blue and valley oaks
- Western Burrowing Owl
- Tricolored Blackbird

Consultant will prepare the following items in support of the Valley Habitat Plan Implementation Applications. One package will be prepared for each Project Component (One for Calero Dam including Fellow's Dike and one for Guadalupe Dam):

- 1) Cover Letter.

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

- 2) Reservoir-Specific Dewatering Plan.
- 3) Habitat Plan Application Package. The Habitat Plan Application Package will include the following information as specified in the Valley Habitat Plan:
 - (a) A description of the Project and a map showing the location;
 - (b) Documentation of existing land cover types in the Project area from Valley Water-provided information;
 - (c) A map of wetlands and other waters in the Project area;
 - (d) Results of species surveys previously conducted within the proposed Project region; and
 - (e) Documentation of additional avoidance and minimization measures that will be implemented.

Subtask 3.7.2 - Assumptions

1. USACE

- a. Consultant-prepared maps and drawings will meet USACE standards. Preparation of the list of adjacent property owners for the permit application will require assistance from Valley Water (via Valley Water's communication lists for the project).
- b. For the Alternatives Analysis, the project team (Valley Water or the engineering consultant) will provide drawings for at least two or three on-site alternatives that were considered and rejected, and details regarding why any alternatives having less impact to waters of the U.S. than the proposed project are impracticable.
- c. Project design changes following finalization of the HMMP may require revisions to the HMMP. If so, such revisions may be conducted under Supplemental Services.
- d. Mitigation design plans and specifications are not included in the Consultant scope of work and may be conducted under Supplemental Services.
- e. The project design/description will be stable, with respect to impacts on waters of the U.S., as compared to the delineation conducted as part of Task 3.2; if the project design changes so that impacts to waters of the U.S. would change substantially, additional work would be conducted under Task 6, Supplemental Services.
- f. The USACE will verify the preliminary jurisdictional determination based on

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

the delineation conducted as part of Task 3.2. Typically, this is adequate for most projects evaluated by the USACE. If not adequate, preparation of additional materials required for an approved determination may be conducted under Task 6, Supplemental Services.

- g. Field delineations for waters and wetlands for upstream water storage opportunities or downstream water release locations are not included. However, Fellows Dike area is included.
- h. For permitting purposes, a Treatment Plan for Historic Resources at Fellow's Dike is not required for Section 106 compliance. A Treatment Plan may be required prior to construction and may be prepared during final design.
- i. Task will include permits for one round of geotechnical investigations, which assumes the need for permits from CDFW (1600 LSAA) and Valley Habitat Plan.

2. USFWS

- a. Even though the CDSRP and GDSRP are considered covered activities under the Valley Habitat Plan, a Biological Assessment will need to be prepared for each project to facilitate Federal Endangered Species Act Section 7 consultation between the USACE and USFWS during CWA Section 404 permitting. For project activities that are Valley Habitat Plan-covered, this Biological Assessment can be abbreviated, briefly describing the project and its effects on Valley Habitat Plan-covered species. However, it is possible that some effects of project activities on federally listed species may not be covered by the Valley Habitat Plan, either because they exceed the Valley Habitat Plan's assumptions regarding project impacts (e.g., regarding releases from the dam or duration of dewatering) or because the project impacts species that are not covered by the Valley Habitat Plan. This task assumes that some description of project impacts that are not covered by the Valley Habitat Plan will be necessary, in addition to describing Valley Habitat Plan-covered impacts.

3. NMFS

- a. Attendance by Consultant at 1 in person and 5 virtual meetings (6 meetings total) for NMFS/USFWS consultation.
- b. Previously prepared documents either draft EIRs, the FAHCE EIR, and updated steelhead rearing studies will provide most of the background information for the setting sections.
- c. All internal review cycles are assumed to have a single set of non-conflicting comments from Valley Water staff and Valley Water legal team.

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

- d. All NMFS review cycles are assumed to have a single set of non-conflicting comments from NMFS.
- e. Response to comments will be provided in table form with clear direction from Valley Water and/or Consultant on comments that fisheries subconsultant is responsible for addressing.
- f. The Consultant will provide response to comments and document revisions up to the time and materials not to exceed budget. Permitting and planning labor requested beyond the budget labor will require a budget amendment, particularly if the number of comments and technical complexity far exceeds the expectations (e.g., require in-depth quantitative analysis/modeling) of this scope and budget or the Proposed Action in the BE and/or the Project Description in the EIR are modified in a way that substantially changes the level of effects/impacts to fisheries resources and water quality.
- g. Scope does not include preparation of technical appendices. If technical analysis are needed in appendix form, an amendment to the scope/budget will be required.
- h. Sensitive species are assumed to be included in the EIRs and will be the same set of species as included in the FAHCE EIRs. Non-native, recreational fish are not assumed to be included in this scope of work.

4. RWQCB

- a. The Alternatives Analysis prepared for the USACE's 404 application will be sufficient for the RWQCB's alternatives analysis requirements. If the RWQCB requires substantial additional information regarding alternatives considered but rejected, beyond that included in the 404(b)(1) Alternatives Analysis, additional work would be conducted under Task 6, Supplemental Services.
- b. The preliminary jurisdictional delineation in Task 3.2 will identify waters of the state and the HMMP prepared for the USACE will contain elements required by the state and will be sufficient for the RWQCB review.
- c. The project design/description will be stable, with respect to impacts on waters of the state, once the Consultant begins preparing the permit application; if the project design changes so that impacts to waters of the state would change substantially, additional work would be conducted under Task 6, Supplemental Services.
- d. Sediment and water quality data sufficient for RWQCB review and approval is available and will be provided by Valley Water.

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

5. CDFW

- a. The HMMP prepared for the USACE will be prepared with enough content and detail to be sufficient for the CDFW review.
- b. The Jurisdictional Delineation submitted to the USACE will be acceptable to CDFW for waters of the state.
- c. The project design/description will be stable, with respect to impacts on CDFW-regulated habitats, once the Consultant begins preparing the permit application; if the project design changes so that impacts to CDFW-regulated habitats will change substantially, additional materials would be developed under Task 6, Supplemental Services.

6. Valley Habitat Plan Implementing Entity

- a. Where Valley Water is unable to supply data to meet the species-specific surveys, additional surveys may need to be performed under Task 6, Supplemental Services.
- b. USACE consultation with USFWS for Section 7 and/or additional agency review as required by the Valley Habitat Plan will be limited to USFWS review of the Habitat Plan Application Package and the Reservoir-Specific Dewatering Plan. No additional documents will be prepared.
- c. All permit processing fees for the applications will be paid by Valley Water.

Subtask 3.7.2 - Deliverables

- 1. Initial Draft Permit Applications for each agency referenced in this Subtask 3.7.2. (one for Calero Dam including Fellows Dike and one for Guadalupe Dam). Draft Permit Applications include:
 - a. USACE Section 404 Nationwide Permit Pre-construction Notification or Individual Permit Application and the following supporting materials:
 - i. Section 404(b)(1) Alternatives Analysis and Environmental Assessment
 - ii. Jurisdictional Delineation
 - iii. Cultural Resources Investigation for Section 106 Compliance
 - b. USFWS Biological Assessment
 - c. NMFS Biological Assessments
 - Two Draft BEs (one for CDSRP and one for GDSRP) that incorporate Notice of Preparation Comments within the EIR analysis and development of a post-construction flow analysis.

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

- Two supplemental BEs (one for CDSRP and one for GDSRP) if there are design or project updates that substantially change the effects to steelhead.
- d. San Francisco Bay RWQCB 401 Certification Application
 - i. The submittal will include all copies of the California Environmental Quality Act (CEQA) documents, applicable correspondence with USACE and RWQCB staff, the EPA Section 404(b)(1) Guidelines Alternative Analysis, an impact assessment, and project drawings.
- e. CDFW LSAA Notification
- f. Bald and Golden Eagle Protection Act Permit Application and Fish and Game Code Incidental Take Permit application
- g. Valley Habitat Plan Implementation Application
- 2. Final Draft Permit Applications for each agency referenced in this Subtask 3.7.2 (one for Calero Dam including Fellows Dike and one for Guadalupe Dam) incorporating Valley Water comments.

Subtask 3.7.3 - Prepare Habitat Mitigation and Monitoring Plan

Consultant will prepare a Draft Habitat Mitigation and Monitoring Plan (HMMP) separate from, but consistent with, the MMRP developed as part of the CEQA process. The final HMMP will be in the form of a report detailing mitigation plans, which will be sent to the resource agencies with (or during agency processing of) the permit applications finalized in Subtask 3.7.5.

In the HMMP, the Consultant will identify measures that will be implemented to mitigate temporary and permanent impacts to biological resources resulting from the activities of the proposed Project. This will utilize, as needed, any Fish Rescue and Relocation Plan for each reservoir, and, Flow Maintenance Plan for each reservoir. These plans will be developed as needed, by the Consultant depending on the Staff- Recommended alternative/s. In the HMMP, the Consultant will identify timelines for the implementation of other wetland, waters, and fisheries mitigation defined in the CEQA document, responsible parties, reporting procedures, and other logistics, the frequency of occurrence, and performance standards, as necessary.

Consultant will develop a Final HMMP based on Valley Water comments on the Draft plan (one-round of comments).

Subtask 3.7.3 - Assumptions

1. The HMMP will summarize proposed wetlands, waters, and fisheries mitigation developed in the permitting tasks (Subtask 3.7.1 and 3.7.2). The HMMP will mitigate impacts to Waters of the State, as defined by the RWQCB, and waters

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

of the U.S., as defined by USACE. This task will not include the development of additional mitigation design drawings or specifications.

2. Mitigation for upland species/habitats regulated by CDFW and USFWS would occur through the payment of Valley Habitat Plan impact fees, and a detailed plan is not required for these species/habitats.
3. This task will not include technical studies and designs for soils handling, restoration hydrology, and engineering, if they are found to be necessary

Subtask 3.7.3 - Deliverable

1. Draft and Final Habitat Mitigation and Monitoring Plan (HMMP) (one for Calero Dam including Fellows Dike and one for Guadalupe Dam)

Subtask 3.7.4 - Prepare Final Permit Applications

Based on the comments received from Valley Water, Consultant will prepare the final permit applications for the Project, which Valley Water will distribute, as appropriate. Consultant will submit, in one package, all technical information that went into the biological assessment and permit applications. This may include, but not be limited to, GIS files, vegetation or wildlife survey results, cultural, and resource data.

Subtask 3.7.4 - Deliverable

1. Final Permit Applications (one for Calero Dam including Fellows Dike and one for Guadalupe Dam)

Subtask 3.7.5 - Provide Support during Permit Negotiation

Consultant will provide support to Valley Water during permit negotiations. This support may take the form of strategizing with Valley Water, preparing handouts and/or displays, attending meetings to answer questions and/or give short presentations. At Valley Water discretion, Consultant may be responsible for preparing meeting notes to document meeting discussions and outcomes.

Subtask 3.7.5 - Assumption

1. Six (6), four-hour joint agency meetings held remotely or in Santa Rosa, Sacramento, San Francisco, or Valley Water Offices.

Subtask 3.7.5 - Deliverables

1. Negotiation meeting(s) material and displays (one for Calero Dam including Fellows Dike and one for Guadalupe Dam)
2. Attendance at negotiation meeting(s) (one for Calero Dam including Fellows Dike and one for Guadalupe Dam)

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

3. Meeting Notes (one for Calero Dam including Fellows Dike and one for Guadalupe Dam)

Subtask 3.7.6 - Prepare Habitat Revegetation and Tree Replacement Plan

Consultant will prepare a Draft Habitat Revegetation and Tree Replacement Plan describing how areas disturbed by construction will be revegetated and how/where tree replacement for trees impacted by each project will occur. Consultant will first prepare a high-level concept for use in the EIR project description and analysis, followed by more detailed plans to accompany permit applications and to be used during coordination with the County. The Plan will describe methods and a plant palette for revegetating various areas disturbed by each project that can be restored to natural habitats following project completion, as well as methods and tree species that can be planted to replace trees removed by each project. Consultant will develop a Final Habitat Revegetation and Tree Replacement Plan based on Valley Water comments on the Draft plan (one-round of comments).

Subtask 3.7.3 - Assumptions

1. This task includes development of conceptual plans and drawings, not detailed design drawings or specifications.
2. Valley Water is exempt from compliance with County and City tree ordinances under Government Code Sections 53091(d) or (e). Nevertheless, recognizing the importance to the City and County of protected trees, Valley Water will voluntarily comply with County (including Santa Clara County Parks) and City tree ordinances, including submittal of tree removal permits and mitigation via the planting of replacement trees, if desired by the City and/or County. This scope assumes Valley Water or its construction contractor(s) would be responsible for obtaining such tree removal permits, if required. The Consultant will prepare a tree and vegetation restoration plan for the City or County.

Subtask 3.7.3 - Deliverable

1. Draft and Final Habitat Revegetation and Tree Replacement Plan (one for Calero Dam including Fellows Dike and one for Guadalupe Dam).

Task 3.8 – NEPA Support Services

Consultant will prepare National Environmental Policy Act (NEPA) documentation to support acquisition of USACE CWA Section 404 Individual Permits for both the Calero and Guadalupe seismic retrofits. This scope assumes USACE will act as the lead federal agency under NEPA and Consultant will work under the direction of USACE to prepare Environmental Assessments (EAs) and associated documentation to comply with NEPA. Consultant will coordinate regularly with USACE as needed. The EA will be prepared in accordance with applicable NEPA requirements and USACE NEPA Guidance at the

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

time of document preparation. The EA also will consider public comments on the public notice issued by USACE for the CWA Section 404 Individual Permit.

The EAs will evaluate the scope of the federal action - the USACE CWA Section 404 permit – including construction activities within waters of the U.S. and changes in operation of Calero and Guadalupe Reservoirs. The EA will evaluate the preferred alternative (i.e., the proposed project), the No Action Alternative, and an additional action alternative (three total alternatives) at an equal level of detail; and will identify other alternatives considered and dismissed, as agreed upon with USACE. The alternatives presented to USACE will be consistent with the alternatives analysis in the Draft EIR and developed for compliance with CWA Section 404(b)(1).

Since EAs are limited to 75 pages, the EA contents will focus on describing the alternatives, summarizing the conclusions of each resource evaluation required by USACE for NEPA, and providing other information required in EAs by USACE. Additional information on alternatives and technical analysis supporting the conclusions in the resource evaluations will be provided in appendices to the EA. Consultant will efficiently prepare the EA and supporting analysis contained in appendices using the Draft EIR text prepared in Task 3.4. Consultant also will expand upon analysis of the No Action Alternative and other action alternative (i.e., not the proposed project) in the Draft EIR, as needed to provide an equal level of detail in the EA. Additionally, Consultant will conduct a socioeconomic analysis as required.

Consultant will first prepare an Administrative Draft EA (ADEA) under the direction of USACE and then provide a second ADEA, including all appendices, to Valley Water for review and comment. Consultant will then finalize the Draft EA under USACE direction for a 30-day public review and comment period. Consultant will then prepare an Administrative Final EA (AFEA) including response to substantive comments under the direction of USACE and then provide a second AFEA, including all appendices, to Valley Water for review and comment. Consultant will then finalize the Final EA under USACE direction. Consultant also will prepare the Finding of No Significant Impact (FONSI) if requested by USACE.

Subtask 3.8 – Assumptions

1. Alternatives will be consistent with those evaluated in the Draft EIR and CWA Section 404(b)(1). Valley Water will provide additional information on the No Action Alternative and other action alternative (i.e., not the proposed project) if required for the EA.
2. No additional surveys, other field work, or operational modeling are anticipated to prepare the EA. If quantitative modeling of air quality, GHG, and noise and vibration of the other action alternative and No Action Alternative is required, this will be completed under Task 6.
3. An Environmental Justice analysis is not included in the scope.

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

4. Environmental resources dismissed from further detailed evaluation in the Calero and Guadalupe EIRs (i.e., agriculture and forestry, mineral resources, and population and housing) will not be evaluated in detail in the EA.
5. Document review will consist of USACE review of two ADEAs, Valley Water review of the second ADEA, and USACE review of a Screencheck Draft EA.
6. Document review will consist of USACE review of two AFEAs, Valley Water review of the second AFEA, and USACE review of a Screencheck Draft FA.
7. Includes up to 150 hours of support to prepare responses to substantive comments on the Draft EA for the CDSRP and up to 150 hours of support to prepare responses to substantive comments on the GDSRP for the first AFEA.

Subtask 3.8 – Deliverables

1. First ADEAs (electronic copy) (one for Calero Dam including Fellows Dike and one for Guadalupe Dam).
2. Second ADEAs (electronic copy) incorporating comments on the first ADEAs (one for Calero Dam including Fellows Dike and one for Guadalupe Dam).
3. Screencheck Draft EAs (electronic copy) incorporating comments on the second ADEAs (one for Calero Dam including Fellows Dike and one for Guadalupe Dam).
4. Draft EAs (electronic copy) incorporating comments on the Screencheck Draft EAs (one for Calero Dam including Fellows Dike and one for Guadalupe Dam).
5. First ADFAs including responses to comments (electronic copy) (one for Calero Dam including Fellows Dike and one for Guadalupe Dam).
6. Second ADFAs including responses to comments (electronic copy) incorporating comments on the first AFEAs (one for Calero Dam including Fellows Dike and one for Guadalupe Dam).
7. Screencheck Final EAs including responses to comments (electronic copy) incorporating comments on the second AFEAs (one for Calero Dam including Fellows Dike and one for Guadalupe Dam).
8. Final EAs including responses to comments (electronic copy) incorporating comments on the Screencheck Final EAs (one for Calero Dam including Fellows Dike and one for Guadalupe Dam).
9. Draft FONSI (one for Calero Dam including Fellows Dike and one for Guadalupe Dam).
10. Final FONSI (one for Calero Dam including Fellows Dike and one for

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

Guadalupe Dam).

TASK 4 - DEVELOP ON-SITE BORROW AND SPOIL REQUIREMENTS (COMPLETE)

The Planning Study Report will include an assessment of potential borrow and spoil disposal sites at Calero and Guadalupe dams. Consultant will identify on-site quarry/quarries and on-site spoil disposal/stockpile areas for both dams, starting during the planning phase to allow permits to be obtained commensurate with certification of the environmental documents.

1. Borrow Sites

The dam retrofit (buttressing) alternatives, as documented in the previously prepared Seismic Stability Evaluation reports, will require several hundred thousand cubic yards of material (borrow) that will need to meet certain density and gradation requirements. Preliminary quantity estimates indicate up to 225,000 cubic yards at Calero Dam and 135,000 cubic yards at Guadalupe Dam (subject to confirmation based on further engineering analysis) will be needed.

1. Spoil Disposal Sites

Downstream buttressing options will require removal of soils and weathered rock to suitable foundation material and will need to be spoiled on-site. In addition, inlet and outlet improvements including tunneling (or other) work will generate spoils that require disposal on or off-site.

The borrow and spoil evaluation will include the following subtasks with a goal of a two-step process that allows the results from Subtask 4.1 to inform the scope and direction of Subtask 4.2.

Subtask 4.1 - Conduct a Borrow and Spoil Siting and Suitability Study

1. To assess potential rock and general embankment fill borrow areas, the Consultant will perform the following Activities A through G, for Calero and Guadalupe Dam / Reservoirs:
 - a. Evaluate the preliminary quantities and quality of borrow needed for the alternatives
 - b. Assess potential staging areas for material handling for the Project alternatives.
 - c. Review available on-site and regional information to identify candidate on-site borrow sources, stockpile and spoil disposal areas at the reservoirs.
 - d. Develop screening criteria to prioritize candidate on-site borrow and spoil locations based on environmental, accessibility, and engineering considerations.

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

- e. Conduct a meeting with Valley Water to screen the borrow source and spoil disposal areas to select sites for field reconnaissance level studies.
 - f. Perform a geologic field reconnaissance of potential borrow areas by an engineering geologist from the Consultant. The goals of the reconnaissance will be to: a) confirm/define the limits of rock types potentially useful and b) categorize rock exposures within these limits according to a four-class ranking (A through D) that takes into account rock strength, rock hardness, and degree of weathering. Observations made during the geologic reconnaissance will be documented on a field geologic map and photographs will be taken of each area.
 - g. Perform a geotechnical reconnaissance of potential borrow and spoils disposal areas by a geotechnical engineer and environmental specialists from the Consultant. The goals of the spoils disposal reconnaissance will be to: a) review the apparent geotechnical conditions at each location; b) assess the potential slope stability and erosion impacts at each location; c) assess the sites from an environmental impact perspective. Observations made during the reconnaissance will be documented on a field map and photographs of each site will be taken and catalogued.
2. The desktop and field reconnaissance studies will be documented by the Consultant in a draft and final Borrow and Spoil Siting Technical Memorandum. The Technical Memorandum will provide a summary of the findings of the Task 4.1 activities and present recommendations for a preferred on-site borrow and spoil site for Task 4.2 studies.

Subtask 4.1 - Assumptions

- 1. On-site borrow and/or spoil sites are assumed.
- 2. The geologic, geotechnical and environmental reconnaissance will be conducted in four days (two days per reservoir location).
- 3. The Consultant will conduct up to two meetings with Valley Water to screen candidate sites for the Task 4.1 reconnaissance, and then select preferred borrow and spoil site/s for Task 4.2 studies
- 4. Field reconnaissance will be performed at up to four (4) total borrow and/or spoil sites for each reservoir location.
- 5. Up to four (4) borrow and/or spoil sites will be identified for each reservoir for Task 4.2 studies.
- 6. One consolidated set of Valley Water comments will be incorporated into the Borrow and Spoil Siting memorandum to finalize the draft document.

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

Subtask 4.1 – Deliverable (TASK 4: COMPLETE)

1. Draft and Final Technical Memorandum on Borrow Sites and Spoil Disposal Areas (one for Calero Dam and one for Guadalupe Dam)

Subtask 4.2 - Identify Preferred Borrow and Spoil Sites

The Consultant will develop a footprint of borrow and spoil site disturbance areas to be used in the preparation of the Staff-Recommended alternative for preliminary design. The Consultant will also provide initial design parameters to allow the design phase consultant to prepare plans and specifications, and allow early consultation for potential permits.

Task 4.2 - Activities will include the following:

- A. Preparation of a geotechnical work plan addressing the following elements:
 1. Proposed types of exploration (test pit, boring, or seismic velocity survey).
 2. Specific purpose of each exploration.
 3. Location, size, depth, and means of completing each exploration.
 4. Means of accessing the location where the exploration will be completed, along with any necessary right of entry protocols.
 5. Identification of the excavation, drilling, and/or other subcontractors who will execute the exploration work, including proof of insurance and appropriate licensing.
 6. Identification of the professionals from the Consultant team who will manage and undertake the exploration work.
 7. Means of clearing the proposed exploration locations for underground utilities/improvements.
 8. Permitting needs specific to the exploration activities (including CEQA, as applicable). This will include depiction of exploration footprints, staging and laydown areas and access routes on site plans to assist with environmental clearances and right of entry permits.
 9. Environmental monitoring needs during the exploration.
 10. Site restoration requirements.

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

- B. Perform a geotechnical exploration program including 6 borings up to 40 feet in depth, 20 excavation pits up to 15 feet in depth, and 4 seismic refraction lines with a total length of up to 2,000 feet (combined for both reservoir sites).
- C. Perform a geotechnical laboratory testing program to characterize suitability of borrow materials, and determine whether the sites will yield suitable materials based on anticipated excavation volumes, requirements for new fills, and shrink/swell factors. Spoil sites will also be characterized to determine geotechnical suitability for receiving either temporary stockpile materials or permanent spoils and waste rock from processing.
- D. Perform preliminary engineering evaluation using geotechnical field and laboratory data to develop the following:
 - 1. An initial estimate of rock production (usable vs. wastage).
 - 2. Identification of the depth to competent material, its density, and initial range of suitable gradation needed for buttressing that could affect the size or footprint of disturbance that will need to be evaluated under CEQA.
 - 3. Identification of the presence of any large-scale subsurface variations that may affect the size of the quarry site to confirm the suitability of the preferred site or adverse geotechnical conditions to assist Valley Water in selecting other sources of borrow.
- E. Develop maps as part of a preliminary borrow and spoil plan. These maps will be developed using available County of Santa Clara Light Detection and Ranging (LIDAR) data files (or Valley Water files, if available) to create AutoCAD Civil 3D files that will allow for readily estimating the amount of land needed for a) topsoil spoil; b) rock processing and stockpiling areas; c) proposed haul roads to/from the dams; and d) proximity to local communities and species of concern that may be affected by the noise (blasting, rock processing, & trucks), dust, lighting associated night-time work, etc.).
- F. Evaluate the preferred borrow and spoil sites for potential cultural or paleontological impacts. This work will be incorporated into the proposed borrow plan to avoid critical sites and minimize other impacts to obtain an environmentally permissible approach.
- G. Prepare a Technical Memorandum summarizing the findings of the borrow and spoil siting suitability study for the activities described above, including a presentation of excavation, grading and restoration plans, test pit and boring logs, and laboratory test results, and findings of the preliminary engineering evaluation.

Subtask 4.2 - Assumptions

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

- 1) This Scope of Services is limited to the pre-feasibility through feasibility-level of analysis.
- 2) Test pit, boring, and seismic refraction survey exploration progress dependent upon terrain and environmental monitoring requirements.
- 3) The on-site studies will be conducted at up to two (2) borrow and/or spoil / staging locations per reservoir location.
- 4) The construction and subsequent restoration of haul roads will not be necessary to conduct geotechnical explorations.
- 5) Geotechnical exploration will be conducted on Valley Water property only.
- 6) The Consultant will perform the exploration work in accordance with the best management practices described in Valley Water's approved Dam Maintenance EIR.
- 7) Consultant will design the geotechnical studies with the goal of avoiding impacts through the proper timing and placement of study locations. Consultant will attempt to design the studies to avoid impacts to wetlands, sensitive species habitat, and cultural resources sites and include avoidance and minimization measures such as pre-study surveys to avoid impacts. If impacts can be avoided, it is assumed that the work can be conducted under a CEQA Section 15306 (Class 6) Categorical Exemption for information collection and Consultant will prepare Categorical Exemption documentation under Task 2.1.2.7 using Valley Water guidance for their preferred format. If impacts cannot be reasonably avoided then Consultant will prepare a brief Initial Study and Negative Declaration or Mitigated Negative Declaration to satisfy CEQA requirements as described under Supplemental Services Task 6.7.
- 8) Hazardous materials testing and disposal will not be necessary at exploration locations.
- 9) Dredging associated with work upstream of Guadalupe Dam may contain trace amounts of mercury that will need to be addressed. Sampling immediately in advance of dredging could allow non-hazardous soils to be disposed of on-site while soils deemed hazardous would need to be disposed of at an approved off-site location. No over-water exploration work or environmental sampling and testing is included in the Task 4 Scope of Services. If such services are needed, they would be performed under Task 6 Supplemental Services.
- 10) Two preliminary excavation, haul road grading and restoration plans (one per each reservoir location) will be prepared for the borrow areas for use in planning-level mass balance estimates for the sites. These plans will be included in the Report documenting Footprint of Disturbance (See Task 4.2 Deliverables).

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

- 11) One consolidated set of Valley Water comments will be incorporated into the Geotechnical Work Plan, Feasibility Level Geotechnical Study, and Documentation of Footprint Disturbances to finalize the draft documents.

Subtask 4.2 - Deliverables (TASK 4: COMPLETE)

1. Draft and Final Geotechnical Study of Preferred Borrow (Quarry) Site/s (one for Calero Dam and one for Guadalupe Dam)
2. Draft and Final Report documenting the Footprint of Disturbance associated with the preferred borrow and spoil sites (one for Calero Dam and one for Guadalupe Dam)

TASK 5 - DESIGN SUPPORT (REVISED)

In a supportive role, the Consultant will be responsible for reviewing the design consultant's work for consistency with the planning assumptions and requirements (Design Review). The Design Review is not meant to replace or absolve the Engineer of Record of its roles and responsibilities relative to the design. It is understood that the Engineer of Record assumes full responsibility for the design.

Subtask 5.1 - Review of 50% Design Deliverable for Package A

1. Consultant will meet with Valley Water and design consultant to receive 30% design deliverables and discuss design progress, considerations, and challenges. Consultant will perform a comprehensive review of plans, specifications, and cost estimates; and provide comments and recommendations in a 30% Design Review Memorandum. It is assumed that 30% design documents will include outline specifications and minimally developed details.

Subtask 5.1 - Deliverable

1. Draft and Final 50% Design Review Memorandum

Subtask 5.2 - Review of 90% Design Deliverable for Package A

1. Consultant will meet with Valley Water and design consultant to receive 60% design deliverables and discuss design progress, considerations, and challenges. Consultant will prepare a comprehensive review of plans, specifications, and cost estimates; and provide comments and recommendations in a 90% Design Review Memorandum. It is assumed that 60% design documents will include first draft complete specifications and substantially developed details.

Subtask 5.2 - Deliverable

1. Draft and Final 90% Design Review Memorandum

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

Subtask 5.3 - Review of 50% Design Deliverable for Package B

1. Consultant will meet with Valley Water and design consultant to receive 90% design deliverables and discuss design progress, considerations, and challenges. Consultant will perform a comprehensive review of plans, specifications, and cost estimates; and provide comments and recommendations in a 50% Design Review Memorandum. It is assumed that 90% design documents will be considered "bid ready."

Subtask 5.3 - Deliverable

1. Draft and Final 50% Design Review Memorandum

Subtask 5.4 - Review of 90% Design Deliverable for Package B

1. Consultant will meet with Valley Water and design consultant to receive 90% design deliverables and discuss design progress, considerations, and challenges. Consultant will perform a comprehensive review of plans, specifications, and cost estimates; and provide comments and recommendations in a 90% Design Review Memorandum. It is assumed that 90% design documents will be considered "bid ready."

Subtask 5.4 - Deliverable

1. Draft and Final 90% Design Review Memorandum

Subtask 5.5 - Other Design Support

1. Consultant will meet with Valley Water and design consultant to review preliminary design documents, technical memoranda and reports. The Consultant will provide review comments and recommendations. The Consultant will also review other design documents and provide comments.

Subtask 5.5 - Deliverable

1. Review comments on design documents

TASK 6 - SUPPLEMENTAL SERVICES (REVISED)

1. Valley Water may require, and Consultant will perform, Supplemental Services on an as-needed basis. Prior to performing any Supplemental Services, Consultant must receive an approved Task Order issued by Valley Water and executed by both Parties as specified in Section VI. Additional Terms and Conditions, paragraph E. Task Orders. Refer to the Revised Appendix One, Task Order Template.
 - A. Details of the specific scope, deliverable, schedule, and fees for any Supplemental Services will be developed with Valley Water and submitted in writing prior to approval to

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

begin work.

B. The Not-To-Exceed Fees for each Supplemental Services Task Order will be based upon the Hourly Rate Schedule (time and material) as described in Revised Appendix Two, Fees and Payments, of this Agreement, and must include all of the following information:

1. The agreed upon scope of services requested by Valley Water,
2. The total not-to-exceed amount for Consultant to complete the Supplemental Services Task Order on a Time and Materials basis,
3. The schedule for completing the Supplemental Services Task Order; and
4. Consultant key staff and classifications that will be assigned to complete the Supplemental Services.

C. Under no circumstances will Consultant commence the Supplemental Services until:

1. The Supplemental Services Task Order is received, reviewed, and executed by Valley Water's Project Manager; and
2. The Consultant receives an Task Order Notice-To-Proceed from Valley Water's Project Manager.

2. Specific Supplemental Services

Specific examples of possible Supplemental Services include but are not limited to:

Task 6.1 Implement Value Engineering / Constructability Review (UNCHANGED)

Consultant will perform Value Engineering (VE) and Constructability reviews according to the following subtasks.

Subtask 6.1.1- Arrange and Conduct Value Engineering (VE) Sessions

Value Engineering (VE) studies will be used to compare conceptual designs by evaluating their comparative economic advantages and disadvantages in addressing seismic retrofit issues, PMF issues and inlet/outlet issues. Consultant will include early cost benefit analysis using a one-page high-low business case model for each of the ideas formulated to address potential failure modes and remedial alternatives. The Consultant will:

- a. Conduct a feasibility-level VE session of the proposed retrofit scope of work during the Planning Phase.

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

- b. Provide Certified Value Engineering Specialist or Associated Value Engineering Specialist as Value Engineering team leader.
- c. Provide necessary design disciplines and cost estimator/scheduler.
- d. Include operability and maintainability assessments.
- e. Prepare draft and final Value Engineering Report.
- f. Identify strategies for accelerating the Project's completion.

Subtask 6.1.1 - Assumptions

- 1. The anticipated not-to-exceed fee includes preparation of one page business case evaluation for ideas early-on, which will assist the Project team in developing conceptual designs that will accelerate the Project's completion.
- 2. The anticipated not-to-exceed fee also assumes that the VE workshop for each dam will consist of a 4-day workshop located at a Valley Water-provided facility, with the Consultant providing 3 technical discipline staff in addition to the VE Team Leader and a cost estimator/scheduler.
- 3. Valley Water will provide a participant familiar with the site issues and with operation and maintenance of each dam, as well as its integration into Valley Water water delivery facilities.

Subtask 6.1.1 - Minimum Deliverables

- 1. Value Engineering session (Complete)
- 2. Value Engineering Draft and Final Report (Complete)

Subtask 6.1.2 - Arrange and Conduct Constructability Reviews

Calero Dam and Guadalupe Dam each have challenging operational, engineering and permitting needs, and separate constructability reviews will be performed for each. The Consultant will arrange for and conduct feasibility-level constructability reviews and prepare a Constructability Review Memorandum for each dam and submit for Valley Water's consideration and approval. The constructability review sessions will lay out the proposed designs, construction sequence, relationship between construction activities and the construction methodology envisioned for retrofits to the dams and include the effects of potential CEQA permitting constraints that may limit some construction techniques. The construction challenges identified will be outlined to the engineering team, estimator/scheduler, environmental planners, and Valley Water operations staff and their input will be included in the Constructability Review Memorandum. The constructability review will also take into account the risk management strategy to refine construction sequences and methods in order to minimize the potential for disruption of reservoir during construction.

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

Prior to the constructability review sessions, the Consultant will prepare an agenda for review and approval by Valley Water that includes session purpose and goals, summary of key issues and timing of key segments planned for the sessions.

Subtask 6.1.2 - Assumptions

1. The constructability review workshops will be performed after refinement of Feasible Alternatives under Subtask 2.2.3 but prior to identification of the Staff Recommended Alternative in Subtask 2.2.4, when design concepts have been developed to approximately the 10% stage of design development.

Subtask 6.1.2 - Minimum Deliverables

1. Constructability review session
2. Constructability Review Memorandum

Task 6.2 - Additional Geotechnical Investigations (REVISED)

1. Consultant will perform additional geotechnical investigations if site conditions warrant additional data needs. Recommendations will include a draft scope of services and draft sampling plan, rationale for the additional services, fees, and schedule of completion. Additional geotechnical investigation may include but not limited to:
 - a. Design of Seepage monitoring, collection and disposal at Calero Dam.
 - b. Calero Dam site.
 - c. Guadalupe Dam site.
 - d. Potential new tunnel outlet for the two dams.
 - e. Potential new weir.
 - f. Spillway modifications.
 - g. Borrow site investigations.
2. Identified Seepage Areas at Calero Dam: Based on the recommendations provided in the Calero Main Dam Forensic Geologic Report (Forensic Report) subsurface exploration consisting of rotary borings in foundation and embankment areas may be considered. Areas of exploration may include the right abutment foundation, embankment and downstream left toe seepage areas. Recommendations for additional subsurface exploration will be made, if any, after Consultant's site reconnaissance and seepage evaluation studies as described in Task 2.1.2.3.
3. Calero and Guadalupe Dam sites: The earthfill buttress alternatives for Calero and Guadalupe Dams would result in new embankments extending outside the current dam footprints. As scoped in Task 2.1.2.2 three (3) borings per dam site are planned near the toe of Calero Dam and Guadalupe Dam to provide information on stratigraphy and assist with preliminary estimates of foundation excavation extents and quantities for a given alternative. Additional explorations beyond those scoped in Task 2.1.2.2, if determined

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

necessary, will be performed under this Task 6 Supplemental Services.

4. Potential New Tunnel Outlets and Weir and Spillway Modifications: The existing geotechnical and geologic studies of the Guadalupe and Calero sites may be sufficient to characterize tunnel outlet alignments for the development and screening of conceptual alternatives. However, geophysical surveys at tunnel outlet and spillway areas could further characterize subsurface conditions, could be used to determine candidate locations for future explorations once the configurations of the preferred alternatives are better defined, and would be relatively economical to perform while planning concepts and footprints are under development. The geophysical data can also be integrated with existing and future geotechnical and geologic data.
5. Geophysical studies would consist of seismic refraction surveys in overland areas of the outlet alignments, and in weirs and spillway areas to determine the depth of alluvial or colluvial materials. The Consultant will analyze the results from the seismic refraction surveys and geologic mapping in conjunction with established criteria to evaluate the relative rippability and excavatability of harder rock units in spillway, weir, and outlet areas.

Task 6.2 - Assumptions

1. Consultant anticipated not-to-exceed fees for this subtask 6.2 includes costs for preparation of additional exploration workplan, drilling permits, mobilization/demobilization of field exploration equipment, 6 days of exploration, (generally equivalent to one 80-foot boring or two 40-foot borings per day), obtaining samples of soil and rock, logging of borings, clean up and grouting of boreholes, nominal physical laboratory testing on samples, and providing final boring logs with descriptions of soil and rock encountered and laboratory test results.
2. Consultant anticipated not-to-exceed fees for this subtask 6.2 includes two days of seismic refraction surveys.
3. The anticipated scope of services for this subtask 6.2 is limited to the pre-feasibility through feasibility-level of analysis.
4. The construction and subsequent restoration of access roads will not be necessary to conduct geotechnical explorations.
5. Geotechnical exploration will be conducted on Valley Water property only.
6. The Consultant will perform the exploration work in accordance with the best management practices described in Valley Water's approved Dam Maintenance EIR.
7. Any necessary CEQA documentation /permitting will be limited to preparation of Categorical Exemptions, Negative Declarations or Mitigated Negative Declarations.

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

8. Hazardous materials testing and disposal will not be necessary at exploration locations. (NEW)

Task 6.2 - Minimum Deliverable

1. Draft and Final Reports (Various)

Task 6.3 - County of Santa Clara Permit Application (UNCHANGED)

Construction of the Project and property acquisition will require permits/authorizations from the County of Santa Clara (County) to ensure consistency with County's planning, zoning, building, and public works regulations. If requested by Valley Water, Consultant will assist Valley Water in obtaining permits/authorizations from the County. Consultant will prepare a permit application package for compliance with the County for Calero and/or Guadalupe Dams.

Consultant will prepare the following items in support of the permit applications:

- a. Determine the need for permits/authorizations based on engineering specifications and County Requirements.
- b. Draft and Final Cover Letter. The cover letter will briefly describe the Project and the Project activities that are subject to permitting. The cover letter will describe the contents of the permit application binder.
- c. Draft and final County Permit Application Forms.

Task 6.3 - Assumption

1. The level of effort to support this supplemental service is assumed to be 100 hours per dam.

Task 6.3 - Minimum Deliverables

1. Draft and Final Cover Letter
2. Draft and Final County Planning, Building, and Public Works Permit Application Forms

Task 6.4 - Tree Removal Permits (REVISED)

Construction of the Project may require impacts to trees protected by County ordinances. For each dam, Valley Water will determine the need for a County Tree Removal Permit based on coordination with Santa Clara County Parks and the tree survey conducted by the Consultant, as included in Subtask 3.2.5(F). Valley Water and its Consultant will consult with Santa Clara County Parks on appropriate revegetation and will prepare a revegetation plan for Calero and/or Guadalupe Reservoirs. Tree impacts may also need to be addressed in an Encroachment Permit from the County Department of Roads and Airports; this is assumed to be prepared by

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

Valley Water's future construction contractor for the Project. Finally, impacts to oak woodlands are anticipated and will need to be addressed under the California Public Resources Code 20183.4, the Oak Woodland Conservation Act. Impacts to oak woodlands will need to be evaluated (significance, mitigation measures) as part of the environmental analysis for CEQA.

Task 6.4 - Assumptions

1. Four, 2-hour phone calls with the County.
2. Tree surveys outside of Subtask 3.2.5(F) in additional Project areas would require a separate scope and cost, subject to approval by Valley Water.
3. Revegetation plans will be integrated with all relevant CEQA mitigation plans related to mitigation for vegetation impacts.

Task 6.4 - Deliverables

1. Draft and Final Revegetation Plan

Task 6.5 - Special Status Plant Protocol Surveys (UNCHANGED)

As stated in Condition 13 of the SCVHCP, special status plant surveys are required in sensitive habitats. For this Task 6.5, a qualified botanist will perform surveys as specified in the SCVHCP, where the Project could impact sensitive habitat areas, or in other areas, including up to 5 borrow sites per dam, where protocol level plant surveys may be required.

Task 6.5 - Assumptions

1. Three rounds of surveys will be required to cover all potential bloom seasons. Each round will require two botanists for one field day each.
2. Project will avoid any special status plants documented during the plant surveys. A salvage plan, if required, may be performed under Task 6.13, Other Supplemental Services.

Task 6.5 - Minimum Deliverable

1. Draft and Final Plant Surveys Technical Memorandum.

Task 6.6 - Monitoring for Geotechnical Studies

Depending on the location, habitat, soil type and other factors, field geotechnical investigations may require monitoring of biological or cultural resources for compliance with regulatory permits. Consultant will provide qualified staff monitors with the permits, approval, or training required by relevant permits. The monitors shall provide initial environmental training materials to the geotechnical contractor.

Task 6.6 - Assumptions

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

1. Up to 10 days of biological monitoring.
2. Up to 4 days of cultural resource monitoring.
3. Ongoing environmental training of new field personnel shall be performed by the geotechnical contractor using provided materials.

Task 6.6 - Minimum Deliverable

1. Draft Monitoring Results Memorandum

Task 6.7 - CEQA & Regulatory Compliance for Geotechnical Studies (UNCHANGED)

As described under Task 2.1.2, Investigations and Analysis for the Planning Study, Consultant has assumed that impacts can be avoided through planning of the geotechnical investigations. If impacts cannot be reasonably avoided then Consultant will prepare a brief Initial Study and Negative Declaration or Mitigated Negative Declaration (IS/ND-MND) under this task to satisfy CEQA requirements. Consultant will use Valley Water's existing documentation of resources and habitat level studies to evaluate potential impacts to biological resources within the survey area and vicinity to meet Valley Habitat Plan species-specific survey requirements, and recommend avoidance measures wherever possible to avoid impacts to special status species and waters of the US or State of California. The Initial Study checklist will be accompanied by discussions of resources area that may be impacted, including the nature of the impacts and proposed minimization and avoidance measure or mitigation measures.

Consultant will provide an administrative draft document for Valley Water review and will finalized this based on Valley Water comments. Consultant will work with Valley Water to obtain approval of the ND-MND and will submit a Notice of Intent to adopt a Negative Declaration along with 15 copies of the documents to the State Clearinghouse to begin the 30-day public review period. Consultant will provide notification to the public in the form a notice in a local newspaper.

Task 6.7 - Assumptions

1. No public meeting or other hearings will be necessary.
2. Valley Water will receive up to three public comment letters that require formal responses.
3. Valley Water will pay for newspaper advertisements directly.

Task 6.7 - Minimum Deliverables

1. Administrative Draft and Final IS/MND for geotechnical studies at each dam, as needed
2. Fifteen (15) copies of Document to State Clearinghouse
3. Draft and final text for newspaper notice

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

Task 6.8 - CDFW Incidental Take Permit Application (California Fish and Game Code Section 2081) (REVISED)

1. Supplemental Services may be utilized if additional Incidental Take Permit Applications are needed for impacts to specific species not covered by the VHP. The application(s) would address potential take of state-listed species during construction or operation of the dams.
2. The Consultant will use Valley Water's existing documentation of resources and habitat level studies to evaluate potential impacts to state-listed species within the Project areas and vicinity. To the extent possible, the ITP applications will be based on the information provided in the Biological Assessment submitted to the USFWS for federally listed species.
3. The ITP applications will address each state-listed species under the jurisdiction of CDFW and will incorporate the following components:
4. Detailed analysis of direct, indirect, and cumulative effects of actions affecting state listed species and associated habitats.
5. Identification of the potential for "take" of state-listed species and specific measures to avoid or minimize potential take to the extent practicable.
6. Where appropriate, identification of additional actions that will assist in species conservation including actions identified in the Habitat Mitigation and Monitoring Plan will be developed under Supplemental Services.
7. Description of the monitoring and reporting programs necessary to assure CDFW that they will know when the authorized amount or extent of take is approached or exceeded.

Task 6.8 - Assumptions

1. The ITP will utilize existing data or data collected under other tasks performed by the Consultant under this Agreement.
2. Development of habitat mitigation and monitoring plans, if required, will be conducted under subtask 6.13 Other Supplemental Services.
3. Consultant will prepare two administrative drafts and one final version of the ITP applications and will attend two meetings with CDFW and Valley Water during preparation of the documents.

Task 6.8 - Minimum Deliverables

1. First administrative draft ITP applications
2. Second administrative draft ITP applications
3. Final ITP applications

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

Task 6.9 - Fisheries Technical Memorandum (UNCHANGED)

Steelhead conservation measures will be required to support the formal consultation with the National Marine Fisheries Service (Task 3.7.3). The Consultant will prepare a technical memorandum that will identify and evaluate feasible steelhead conservation measures within the Guadalupe River watershed including Guadalupe Creek below Guadalupe Dam, Alamitos Creek below Almaden Dam and Calero Creek below Calero Dam. This information will be developed concurrent with the planning phase of the Project so that any data gaps can be addressed prior to the initiation of the permitting tasks (Task 3.7).

This memorandum will specifically include the following elements:

1. Summary of existing studies and agreements for steelhead habitat in the Guadalupe River watershed;
2. Description of existing steelhead passage conditions below Guadalupe and Calero dams;
3. Description of the extent and condition of existing steelhead spawning and rearing habitat above and below Guadalupe and Calero dams;
4. Feasible measures to improve or maintain steelhead habitat in the Guadalupe River watershed; and
5. Potential Data gaps that would require additional studies and analysis.

Task 6.9 - Assumptions

The anticipated not-to-exceed amount associated with this Task is based on the following assumptions:

1. The technical memorandum will provide conceptual level details of potential fisheries conservation measures consistent with the Planning Phase of the Project.
2. Collection of data not already acquired by Valley Water or the Consultant in other tasks for the Project will be addressed under subtask 6.13 Other Supplemental Services.
3. Feasibility of fisheries conservation measures will be evaluated based on existing information available to the Consultant.

Task 6.9 - Deliverables

1. Draft Fisheries Technical Memorandum
2. Final Fisheries Technical Memorandum

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

Task 6.10 - Treatment Plan for Historic Resources (REVISED)

If required as a condition for the completion of Section 106 compliance and issuance of the USACE 404 permit, Consultant will prepare a Treatment Plan for the relocation of National Register of Historic Places (NRHP)-eligible structures associated with the Bailey/Fellows Ranch. The Treatment Plan will serve as a guide for the conservation, treatment, relocation, and rehabilitation of the structures. The Treatment Plan will be prepared in consultation with the USACE and SHPO and will be consistent with the *Secretary of the Interior's Standards for Rehabilitation* and the *Secretary of the Interior's Standards for the Treatment of Historic Properties*. The Consultant will also provide support and coordination with the Santa Clara County Historical and Genealogical Society as part of the preparation of the Treatment Plan.

Task 6.10 - Assumption

1. The Treatment Plan will be based on previously completed studies of the ranch structures including the analysis and recommendations from those studies.

Task 6.10 - Deliverables

1. Draft Historic Resources Treatment Plan
2. Final Historic Resources Treatment Plan

Task 6.11 - Additional Quantities of Services and Deliverables (UNCHANGED)

Consultant will provide additional services and deliverables beyond the quantities of services and deliverables stated in Task 1 through 5 to include but not limited to:

1. Additional meetings, including meetings and phone calls of longer duration than specified.
2. Additional status/progress reports.
3. Additional technical studies.
4. Technical services including CADD, hazardous materials, right-of-way, environmental and biological studies.
5. Additional public outreach support.

Task 6.12 - Other Supplemental Services

Other Supplemental Services, Consultant may perform at the request of Valley Water in accordance with Task 6, may include but not be limited to:

1. Additional data collection that could include but is not limited to bald eagle surveys, fisheries surveys in Guadalupe Creek, and data collection efforts associated with off site staging areas not part of the original Project footprint.

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

2. Salvage plans for special status plants.
3. Historic American Buildings Survey (HABS) and Historic American Engineering Record (HAER) documentation for the Bailey House and the historic district.

Task 6.13 - Water Quality Investigations (UNCHANGED)

Consultant will develop studies to assess baseline water quality conditions (turbidity, temperature, Dissolved Oxygen) in the reservoir and in Guadalupe Creek downstream of the dam. Potential changes to water quality during initial dewatering and sediment transport during periods when stormwater flows through the empty reservoir beds downstream into Guadalupe Creek will also be evaluated. Consultant will develop details in a separate proposal, after discussions and negotiations with Valley Water and the resource agencies. The Task Order Scope of Services could include but not be limited to:

1. Review available baseline data and identify any data gaps
2. Develop data collection work plan
3. Develop sediment transport model
4. Collect baseline water quality measurements in the reservoir and downstream areas using automated recorders at a number of locations
5. Conduct sediment modelling and impact analysis
6. Develop potential mitigation options
7. Agency coordination
8. Draft and final report preparation

Task 6.14 - Phytophthora Pathogen Management and Monitoring Plan (NEW)

Consultant will work with Valley Water staff and Phytosphere Research to prepare a Phytophthora Pathogen Management and Monitoring Plan for use during CDSRP/GDSRP construction to minimize the potential for mobilization and spread of Phytophthora into sensitive habitats. The Plan will be prepared based on similar plans prepared for the Anderson Dam Seismic Retrofit Project.

Task 6.14 - Deliverables

1. Phytophthora Pathogen Management and Monitoring Plan in Word and PDF format

Task 6.14 - Deliverables

1. Consultant will revise the Plan based on up to two rounds of review.

VI. ADDITIONAL TERMS AND CONDITIONS (UNCHANGED)

A. Consultant as Independent Contractor

1. Consultant will perform all Services as an independent contractor and not an agent or employee of Valley Water.

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

2. The expertise and experience of Consultant are material considerations for Valley Water's award and execution of this Agreement. Consultant will not assign or transfer any interest in this Agreement nor the performance of any of Consultant's obligations hereunder, without prior written consent of Valley Water, in the form of an Amendment executed by both Parties, and any attempt to so assign this Agreement, or any rights, duties or obligations arising hereunder, will be void and of no effect. Any assignment of moneys due or to become due in accordance with this Agreement, will be to the extent permitted by law, and will be subject to all proper set-offs, deductions, and withholdings in favor of Valley Water.

B. Consultant's General Responsibilities

1. Standard of Care
 - a. Consultant and its sub-consultants must perform services in accordance with those standards of care that are generally recognized as being used by competent persons in Consultant's area of specialty in the State of California.
 - b. Consultant and its sub-consultants must perform services in compliance with all applicable written federal, state and local codes, statutes, laws, regulations and ordinances, including, but not limited to, environmental, energy conservation, and disabled access requirements.
2. Unless the requirements for the Scope of Services described in this Agreement are specifically modified in writing, Consultant must provide its services and deliverables as required.
3. Consultant shall provide staff designated in Revised Attachment One, Consultant's Key Staff and Subconsultants. Any designated staff changes proposed by Consultant are subject to approval at the administrative staff level by Valley Water Representative.

C. Confidentiality

1. Due to the nature of the services the Consultant will provide under the Agreement, there may be disclosure to the Consultant of detailed information about Valley Water's operations, including on a need-to-know basis information which may be protected from public disclosure by confidentiality laws, the attorney-client privilege, and/or other provisions of law which govern the nature and timing of disclosure of public information.

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

2. The Consultant understands and acknowledges that Valley Water staff members providing information to the Consultant do so with the understanding that such information will be handled appropriately. In the event the Consultant receives such restricted or confidential information, the Consultant will limit access to the information to only those of the Consultant's employees, its subcontractors, and its subconsultants authorized by Valley Water to have the information.
3. Consultant will notify Valley Water's Project Manager immediately of any request by any third party to have access to the information, and will not disclose the requested information without first receiving express written authorization from Valley Water's Project Manager. The requirements of this section will survive completion, termination, suspension, and expiration of the Agreement.

D. Project Management

1. The Project Manager for Valley Water is Bal Ganjoo, Senior Project Manager.
2. The Project Manager for Consultant is as indicated in Revised Attachment One to Revised Appendix One, Consultant's Key Staff and Subconsultants, of this Appendix.
3. Valley Water's Project Manager or his designee is the only person authorized to accept Consultant's deliverables on behalf of Valley Water.

E. Task Orders

1. Supplementary Services will be assigned to the Consultant through issuance of Task Orders. After Supplementary Services to be performed under this Agreement are identified and communicated to Consultant by Valley Water Project Manager, the Consultant will prepare a proposed Task Order. The proposed Task Order must identify the following:
 - a. Description of the services, including deliverables.
 - b. The total not-to-exceed amount for Consultant to complete the services, including estimated number of hours per assigned staff to complete the services.
 - c. Proposed staff that will be assigned to complete the services, including resumes if not previously provided to Valley Water Project Manager.
 - d. Estimated cost of each reimbursable expense, including any applicable fees.

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

- e. Time schedule for completing the services.
 - f. Copies of applicable state, federal, and local permits required to complete the services, unless previously provided to Valley Water Project Manager.
- 2. Consultant agrees that the not-to-exceed amount specified in a proposed Task Order will be the product of a good faith effort in exercising its professional judgment. After an agreement has been reached on the negotiable items, the finalized Task Order will be signed by representatives of both Parties.
 - 3. Consultant must not commence performance of services on a Task Order until it has been approved by Valley Water's Water Utility Capital Division Deputy Operating Officer and notice to proceed has been issued by Valley Water's Project Manager. No payment will be made for any services performed prior to approval or after the period of performance of the Task Order. The period of performance for Task Orders will be in accordance with dates specified in the Task Order. No Task Order will be written which extends beyond the expiration date of this Agreement. The total amount payable by Valley Water for an individual Task Order will not exceed the amount agreed to in the Task Order.
 - 4. Prevailing Wage Requirements: The Scope of Services may be considered by Valley Water to be "Public Works" requiring the payment of prevailing wages. See the Revised Standard Consultant Agreement Section II Duties of Consultant; Revised Appendix Two, Fees and Payments, paragraph L. Prevailing Wages, and Attachment Three Task Order Template.

F. Conflict of Interest

- 1. Consultant represents that there exists no actual or potential conflict of interest concerning the services to be performed under this Agreement.
- 2. Consultant represents that Consultant's performance under the Agreement does not require the breach of any agreement or obligation to keep in confidence the proprietary information of another party.
- 3. Consultant will not bring to Valley Water or use in the performance of Consultant's duties under the Agreement any materials or documents of another party considered confidential or proprietary unless Consultant has obtained written authorization from such party, and the informed consent of Valley Water, for the possession and use of such materials.

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

4. Consultant represents and warrants that during the term of the Agreement, Consultant, Consultant's parent company, Consultant's subsidiaries, or any affiliated entity sharing substantially similar ownership of or control with Consultant will not act as a consultant or expert for any party in support of any potential or active claim or legal action against Valley Water by such party.
5. Consultant, Consultant's parent company, Consultant's subsidiaries, or any affiliated entity sharing substantially similar ownership of or control with Consultant will not submit a proposal: (i) for any contract to be awarded for construction management, or the construction of any project that is related to the services provided under the Agreement; or (ii) in response to any request for proposal or Valley Water solicitation developed or prepared by or with the assistance of Consultant, Consultant's parent company, Consultant's subsidiaries, or any affiliated entity sharing substantially similar ownership of or control with Consultant; and (iii) for any single or sole source products/services related to the services under this Agreement, or have a financial stake in any single or sole source products/services resulting from this Agreement.

G. Term & Termination

This paragraph G. Term and Termination and the following paragraph H. Compensation Upon Termination or Suspension, of Article VI. Additional Terms and Conditions, replaces the second paragraph stated in the Revised Standard Consultant Agreement portion of this Agreement, at Section VI. Changes in Work.

1. Term & Automatic Termination

This Agreement encompasses all services for which Consultant is responsible to provide within the time limits and not-to-exceed amount set forth herein. Consultant will not undertake to provide services where it reasonably appears that the services cannot be provided and expenses cannot be incurred within said total compensation limit and the applicable not-to-exceed amount of any Task Order.

Valley Water's Rights

- a. **Suspension:** Valley Water may, by written notice to Consultant, suspend any or all services pursuant to this Agreement or to any individual Task Order. Valley Water may subsequently terminate this Agreement or any Task Order for convenience, or determine to proceed. If a decision to proceed is not made within ninety (90) days from the date of the notice of suspension, any decision to proceed must be conditioned upon execution of a new Notice-To-Proceed or Task Order.

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

- b. Termination for Convenience: Valley Water may, by written notice to Consultant, terminate all or part of this Agreement or any Task Order at any time for Valley Water's convenience. Upon receipt of such notice, Consultant will immediately cease all work as specified in the notice. If this Agreement or any Task Order is so terminated, Consultant will be compensated as set forth in section H., Consultant's Compensation Upon Termination of Suspension, referenced below.
- c. Termination for Breach: If Consultant violates any of the covenants, agreements or stipulations of this Agreement or a Task Order, or if Consultant fails to fulfill in a timely and proper manner its obligations pursuant to this Agreement or any Task Order, and does not cure such failure or violation within thirty (30) days (or a reasonable extension thereof, if requested, which extension will not be unreasonably withheld) after receipt of written notice from Valley Water specifying such failure or violation, Valley Water will thereupon have the right to terminate this Agreement and any or all uncompleted Task Orders by giving written notice to Consultant of such termination.

Such notice will specify the effective date thereof, and Consultant will not be entitled to compensation for services or expenses beyond the specified termination date.
- d. If, after notice of termination for breach of this Agreement or any Task Order, it is determined that Consultant did not breach the Agreement or Task Order, the termination will be deemed to have been effected for Valley Water's convenience, and Consultant will receive payment that is allowed by this Agreement for a termination for convenience.
- e. The rights and remedies provided herein to Valley Water are in addition to any other rights and remedies provided by law, this Agreement, or a Task Order.

H. Consultant's Compensation Upon Termination or Suspension

- 1. In the event of termination of this Agreement or any Task Order, or suspension of services by Valley Water, Consultant shall receive compensation based on satisfactory performance, accepted by Valley Water Project Manager, as follows:
 - a. For Direct Labor - Consultant shall be entitled to receive compensation for all authorized direct labor performed prior to termination pursuant to the provisions of this Agreement or Task

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

Order and all authorized labor expenses incurred to demobilize from the Project after the date of termination.

- b. For Reimbursable Expenses - Consultant shall be entitled to receive compensation for all authorized Reimbursable Expenses incurred prior to termination and all authorized expenses incurred to demobilize from the Project after the date of termination.
- c. In no event shall the total compensation paid for any item of service exceed the payment specified in the applicable Task Order for that item of service.

I. CALIFORNIA FAIR POLITICAL PRACTICES COMMISSION STATEMENT OF ECONOMIC INTEREST FORM 700 ("FORM 700"): Upon Valley Water's request, Consultant employees, officers, agents, subconsultants, and subcontractors shall complete, execute, and submit a Form 700 as described below.

- 1. Consultant employees, officers, agents, subconsultants, and subcontractors assigned to perform services pursuant to this Agreement, shall file, in a manner prescribed by Valley Water, an Assuming Office Statement. The Assuming Office Statement shall be filed:
 - a. Within 30 calendar days of the effective date of this Agreement; and
 - b. Within 30 calendar days of Consultant hiring, adding or promoting to a designated filer position, employees, officers, agents, Subconsultants, and subcontractors to perform services to this Agreement.
- 2. Consultant employees, officers, agents, Subconsultants, and subcontractors assigned to perform services pursuant to this Agreement, that filed an Assuming Office Statement, shall file, in a manner prescribed by Valley Water, an amendment to their Form 700 any time there is a change to their disclosure information.
- 3. Consultant employees, officers, agents, Subconsultants, and subcontractors assigned to perform services pursuant to this Agreement, that filed an Assuming Office Statement, shall file an Annual Statement in a manner prescribed by Valley Water, during Valley Water's annual filing season as determined by Valley Water.
- 4. Consultant employees, officers, agents, Subconsultants, and subcontractors assigned to perform services pursuant to this Agreement, that filed an Assuming Office Statement, shall file, in a manner prescribed by Valley Water, a Leaving Office Statement when one of the following occurs:

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

- a. Upon termination of this Agreement; or
 - b. Within 30 calendar days of Consultant employees, officers, agents, Subconsultants, and subcontractors vacating a designated filing position (i.e., removed from the Project, promotion, demotion, transfer to non-designated position, end of employment, or as a result of changes in designated filer positions in Valley Water's Conflict of Interest Code).
5. Consultant understands and agrees that its employees, officers, agents, Subconsultants, and subcontractors may be disqualified from providing services to Valley Water pursuant to the California Political Reform Act, Gov. Code Sections 81000 et. seq. and Government Code Section 1090. If any of Consultant's employees, officers, agents, subconsultants, and subcontractors are disqualified from providing services, on written notice from Valley Water's Project Manager, Consultant will have 15 calendar days to remove that employee(s), officer, agent(s), subconsultant's, and subcontractor's person from the Project and provide a replacement acceptable to Valley Water.
6. The failure of Consultant's employees, officers, agents, Subconsultants, and subcontractors to file an Assuming Office, Annual, Amended, or Leaving Office Statement within the time prescribed by Valley Water is deemed a material breach and may result in termination of the Agreement for cause.
- J. Valley Water Quality and Environmental Management System (QEMS) Fact Sheet (see Revised Attachment Seven to Revised Appendix One)

As an on-site provider of services that has the potential to result in significant environmental impacts, Consultant is required to review the QEMS Fact Sheet, incorporated herein by this reference hereto, with any of the employee(s), sub-contractor(s), and/or subconsultant(s) ("Staff") performing services on behalf of Valley Water, and make Staff aware of Valley Water's Quality and Environmental Policy and their role and responsibility in achieving conformity with the expectations.

K. Release of Information Prohibited

Consultant is not permitted to provide any information concerning the Project to the media nor anyone other than authorized Valley Water personnel. Consultant will not release any information pertinent to the Project under design or construction for publication, public disclosure, or in any other manner without first obtaining clearance and a release in writing from Valley Water. Any media inquiry at any time to Consultant relating to any matter concerning Services provided or requested to be provided under this Agreement will be referred immediately to

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

Valley Water. Consultant will not communicate with the media regarding any such matter.

L. Formation of Agreement

1. No agreement between the Parties is formed until all applicable actions have been completed to the satisfaction of Valley Water. Valley Water Project Manager will not issue a Notice to Proceed until all required documents have been submitted and accepted by Valley Water.
2. Formation of this Agreement between the Parties requires accomplishment of the following, as applicable:
 - a. Execution of the Agreement by Consultant;
 - b. Submission by the Consultant, and acceptance by Valley Water, of evidence of all required insurance coverages and documents;
 - c. Submission by the Consultant, and acceptance by Valley Water, of evidence of all required Form 700 documents, if applicable;
 - d. Submission by the Consultant, and acceptance by Valley Water, of evidence of the QEMS Awareness and Training certification (see Revised Attachment Seven to Appendix One);
 - e. Submission by the Consultant, and acceptance by Valley Water, of all required Non-Disclosure Agreements ("NDA") documents, if applicable;
 - f. Submission by the Consultant, and acceptance by Valley Water, of a Health and Safety Plan, if applicable;
 - g. Any other requirements that are deemed necessary by Valley Water, and
 - h. Execution of the Agreement by Valley Water.

M. Notices

Unless otherwise specified in this Agreement, all requests for written approval or legal notices must be sent to the representatives below. All notices will be deemed to have been given when made in writing and when delivered or mailed to the representatives of Valley Water and the Consultant at their respective addresses as follows:

Valley Water:

Santa Clara Valley Water Valley Water

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

5750 Almaden Expressway
San Jose, CA 95118-3638
Attention: Ryan McCarter, Deputy Operating Officer
Dam Safety and Capital Division
Email: rmccarter@valleywater.org
Direct: (408) 630-2983

Consultant:

GEI Consultants, Inc.
180 Grand Avenue, Suite 1410
Oakland, CA 94612
Attention: Mark Freitas, P.E. G.E., Vice President
Email: mfreitas@geiconsultants.com
Direct (510) 350-2906
Fax: (510) 350-2901

N. Good Neighbor

Valley Water always strives to be a good neighbor to the community adjacent to its facility. The Consultant will ensure that disturbance to neighbors is minimized. Consultant, its staff, and Subconsultants will always interact with the members of the public in a polite and professional manner.

O. Choice of Law and Venue

The Parties agree that this Agreement is to be governed, construed, and enforced in accordance with the laws of the State of California. The Parties also agree that the venue of any litigation arising out of or connected with this Agreement will lie exclusively in the state trial court or Federal Valley Water Court located in Santa Clara County in the State of California, and the Parties consent to jurisdiction over their persons and over the subject matter of any such litigation in such courts, and consent to service of process issued by such courts.

P. Nonwaiver of Rights

The failure of either Party to this Agreement to object to or to take affirmative action with respect to any conduct of the other Party that is in violation of the terms of this Agreement will not be construed as a waiver thereof, or as waiver of any future breach or subsequent wrongful conduct.

Q. No Third-Party Beneficiaries

Nothing in this Agreement, whether express or implied, shall be construed to give any person or entity, other than the Parties hereto, any legal or equitable right, remedy, or claim under or in respect of this Agreement or any covenants, conditions, or provisions contained herein.

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

R. Severability

If a court of competent jurisdiction holds any provision of this Agreement to be illegal, unenforceable, or invalid in whole or in part for any reason, the validity and enforceability of the remaining provisions, or portions of them, will not be affected, unless an essential purpose of this Agreement would be defeated by the loss of the illegal, unenforceable, or invalid provision.

S. Debt Limitation

This Agreement is contingent on the appropriation of sufficient funding by Valley Water for the services described in this Agreement. Valley Water is subject to laws or policies which limit its ability to incur debt in future years. Nothing in this Agreement shall constitute an obligation of future legislative bodies of Valley Water to appropriate funds for purposes of this Agreement.

T. United States Environmental Protection Agency (EPA) Federal Requirements (NEW)

A. The Water Infrastructure Finance and Innovation Act (WIFIA) established a federal credit program (WIFIA Program) authorizing EPA to provide direct loans and loan guarantees to eligible borrowers for water infrastructure projects.

B. A portion of the ADSRP Project costs is expected to be financed by WIFIA pursuant to the United States Environmental Protection Agency WIFIA Master Agreement with Valley Water entered into through its Santa Clara Valley Water District Public Facilities Financing Corporation for the Water Reliability Program (WIFIA Agreement), dated February 14, 2023.

C. All contracts issued by a WIFIA Program borrower for a project receiving WIFIA loan funds are subject to federal requirements review as part of the WIFIA Program's compliance monitoring responsibilities. Because the WIFIA loan proceeds may be used to pay for ADSRP project management services rendered pursuant to this Agreement, Consultant is required to adhere to certain Federal EPA Contract Provisions listed below and incorporated herein by this reference as of the effective date of this Amendment No. 6. Consultant agrees to adhere to such applicable Federal Contract Provisions.

U. WIFIA FEDERAL COMPLIANCE REQUIREMENTS

Projects receiving credit assistance must comply with all federal laws and regulations, including environmental compliance and other compliance requirements. WIFIA borrowers have the prime responsibility for ensuring their staff and contractors comply with all Federal Requirements for a project. Consultant agrees to comply with the following Federal Requirements.

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

1. DEBARMENT AND SUSPENSION

Consultant certifies that it will not knowingly enter into a contract with anyone who is ineligible under the 2 CFR part 180 and part 1532 (per Executive Order 12549, 51 FR 6370, February 21, 1986) or who is prohibited under Section 306 of the Clean Air Act or Section 508 of the Clean Water Act to participate in the Project. Suspension and debarment information can be assessed at <http://www.sam.gov>. Consultant represents and warrants that it has or will include a term or conditions requiring compliance with this provision in all of its subcontracts under this Agreement.

2. FEDERAL LOBBYING RESTRICTIONS (31 U.S.C. 1352)

Recipients of federal financial assistance may not pay any person for influencing or attempting to influence any officer or employee of a federal agency, a member of Congress, an officer or employee of Congress, or an employee of a member of Congress with respect to the award, continuation, renewal, amendment, or modification of a federal grant loan, or contract. These requirements are implemented for USEPA in 40 CFR Part 34, which also describes types of activities, such as legislative liaison activities and professional and technical services, which are not subject to this prohibition. Upon award of this contract, Consultant shall complete and submit the certification and disclosure forms in Appendix A and Appendix B to 40 CFR Part 34. Consultant shall also require all subcontractors and suppliers of any tier awarded a subcontract over \$100,000 to similarly complete and submit the certification and disclosure forms pursuant to the process set forth in 40 CFR 34.110.

3. CIVIL RIGHTS OBLIGATIONS

Consultant shall comply with the following federal non-discrimination requirements:

- a. Title VI of the Civil Rights Act of 1964, which prohibits discrimination based on race, color, and national origin, including limited English proficiency (LEP) (42 U.S.C. 20000, *et. seq*)
- b. Section 504 of the Rehabilitation Act of 1973, which prohibits discrimination against persons with disabilities (29 U.S.C. 794, supplemented by EO 11914, 41 FR 17871, April 29, 1976 and EO 11250, 30 FR 13003, October 13, 1965)
- c. The Age Discrimination Act of 1975, which prohibits age discrimination. (42 U.S.C. 6101 *et. seq*)
- d. Section 13 of the Federal Water Pollution Control Act Amendments of 1972, which prohibits discrimination on the basis of sex.

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

e. 40 CFR Part 7, as it relates to the foregoing.

**4. PROHIBITION ON CERTAIN TELECOMMUNICATIONS AND VIDEO
SURVEILLANCE SERVICES OR EQUIPMENT**

Prohibition on Certain Telecommunications and Video Surveillance Services or Equipment (Effective August 13, 2020). The John S. McCain National Defense Authorization Act for Fiscal Year 2019 (P.L. 115- 232), at Section 889, prohibits EPA financial assistance recipients, including WIFIA borrowers, from expending loan funds to procure or obtain; extend or renew a contract to procure or obtain; or enter into a contract (or extend or renew a contract) to procure or obtain equipment, services, or systems that use covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system. As described in the Act, “covered telecommunications equipment or services” means:

- a. Telecommunications equipment produced by Huawei Technologies Company or ZTE Corporation (or any subsidiary or affiliate of such entities).
- b. For the purpose of public safety, security of government facilities, physical security surveillance of critical infrastructure, and other national security purposes, video surveillance and telecommunications equipment produced by Hytera Communications Corporation, Hangzhou Hikvision Digital Technology Company, or Dahua Technology Company (or any subsidiary or affiliate of such entities).
- c. Telecommunications or video surveillance services provided by such entities or using such equipment.
- d. Telecommunications or video surveillance equipment or services produced or provided by an entity that the Secretary of Defense, in consultation with the Director of the National Intelligence or the Director of the Federal Bureau of Investigation, reasonably believes to be an entity owned or controlled by, or otherwise connected to, the government of a covered foreign country.

The Act does not prohibit:

- a. Procuring with an entity to provide a service that connects to the facilities of a third-party, such as backhaul, roaming, or interconnection arrangements.
- b. Telecommunications equipment that cannot route or redirect user data traffic or permit visibility into any user data or packets that such equipment

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED APPENDIX ONE TO THE
STANDARD CONSULTANT AGREEMENT
SCOPE OF SERVICES**

transmits or otherwise handles.

V. ATTACHMENTS

The following listed Attachments referred to herein are incorporated in this Revised Appendix One - Scope of Services as though set forth in full:

Revised Attachment One - Consultant's Key Staff and Subconsultants (UNCHANGED)
Revised Attachment Two - Dispute Resolution (UNCHANGED)
Revised Attachment Three - Task Order Template (UNCHANGED)
Revised Attachment Four - Reference Materials (UNCHANGED)
Revised Attachment Five - Valley Water Procedures and Work Instructions (UNCHANGED)
Attachment Six - DSOD Interim Hydrology Policy (UNCHANGED)
Revised Attachment Seven - QEMS Fact Sheet (UNCHANGED)

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**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED ATTACHMENT ONE TO
REVISED APPENDIX ONE
CONSULTANT'S KEY STAFF AND SUBCONSULTANTS**

1. Consultant's key staff assigned to the Project are as follows: (REVISED)

Team Member	Project Role	Contact Info
Mark Freitas-Senior Professional Grade 8	Project Manager Engineering Planning, Geotechnical Engineering,	180 Grand Avenue, Suite 950 Oakland, CA 94612 mfreitas@geiconsultants.com P: (510) 350-2906 C: (510) 410-4964
Matt Powers-Senior Professional Grade 8	Deputy Project Manager, Engineering Planning, Geotechnical Engineering,	180 Grand Avenue, Suite 950 Oakland, CA 94612 mpowers@geiconsultants.com P: (510) 350-2902 C: (805) 801-8583
Len Sansone-Senior Professional Grade 8	Geotechnical Engineering, Borrow Studies	180 Grand Avenue, Suite 950 Oakland, CA 94612 lsansone@geiconsultants.com P: (510) 350-2903 C: (510) 407-0513
Alberto Pujol-Senior Consultant Grade 8	QA/QC, Design Support and Design Review	180 Grand Avenue, Suite 950 Oakland, CA 94612 apujol@geiconsultants.com P: (510) 350-2908 C: (510) 551-3959
Dan Wanket-Senior Professional Grade 7	Project Controls, Cost Estimating	180 Grand Avenue, Suite 950 Oakland, CA 94612 dwanket@geiconsultants.com P: (510) 350-2916 C: (510) 913-7901
Matt Powers-Senior Professional Grade 8	Deputy Project Manager	180 Grand Avenue, Suite 950 Oakland, CA 94612 mpowers@geiconsultants.com P: (510) 350-2902 C: (805) 801-8583
Todd Crampton-Senior Professional Grade 8	Engineering Geology	180 Grand Avenue, Suite 950 Oakland, CA 94612 tcrampton@geiconsultants.com P: (510) 350-2934 C: (510) 759-9470

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED ATTACHMENT ONE TO
REVISED APPENDIX ONE
CONSULTANT'S KEY STAFF AND SUBCONSULTANTS**

Team Member	Project Role	Contact Info
Dave Gutierrez-Senior Consultant Grade 8	Technical and Design Review, DSOD Liaison	180 Grand Avenue, Suite 950 Oakland, CA 94612 dgutierrez@geiconsultants.com P: (916) 631-1799 C: (916) 799-4121
Mark Fortner-Senior Professional Grade 7	Hydraulics and Hydrology	180 Grand Avenue, Suite 950 Oakland, CA 94612 mfortner@geiconsultants.com P: (916) 631-4534 C: (916) 505-4106

2. If necessary and appropriate, Consultant will employ subconsultants it deems appropriate to the complexity and nature of the required Services. All subconsultants must, if their specialty is licensable, be licensed by the State of California to perform their specific Services. Consultant must obtain Valley Water's approval of all subconsultants. Upon Valley Water's request, Consultant must provide copies of all subconsultant contract agreements. Any delegation or subcontracting of any services by Consultant will not operate to relieve Consultant of its responsibilities under this Agreement.

- A. The following subconsultants are authorized to work on the Project:
(UNCHANGED)

Firm	Project Role	Contact Info
URS	Environmental, CEQA, Permitting, Dam Engineering Support	300 Lakeside Drive, Suite 400 Oakland, CA 94612 Contact: Elizabeth Nielson T: (510) 893-3600 elizabeth.nielsen@aecom.com
Cal Engineering & Geology	Geotechnical Investigations, Geotechnical Engineering	1870 Olympic Boulevard, Suite 100 Walnut Creek, CA 94596 Contact: Phil Gregory , G.E. P: (925) 935-9771 pgregory@caleng.com
David Ford Consulting Engineers	Hydraulics and Hydrology	2015 J Street, Suite 200 Sacramento, CA 95811 Contact: David Ford P: (916) 447-8779 F: (916) 447-8780 ford@ford-consulting.com

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED ATTACHMENT ONE TO
REVISED APPENDIX ONE
CONSULTANT'S KEY STAFF AND SUBCONSULTANTS**

Firm	Project Role	Contact Info
H. T. Harvey & Associates	CEQA and Permitting Support, Biological Impacts, HCP Compliance	983 University Avenue Building D Los Gatos, CA 95032 Contact: Steve Rottenborn T: (408) 458-3246 F: (408) 458-3210 P: (408) 722-0931 (direct) srottenborn@harveyecology.com
JDH Corrosion Consultants, Inc.	Corrosion Engineering and Evaluations	100 Willow Pass Court Concord, CA 94520 Contact: J. Darby Howard, Jr. P: (925) 927-6630 ext.121 F: (925) 927-6634 dhoward@jdhcorrosion.com
Pacific Geotechnical Engineering	Geotechnical Investigations, Engineering Geology, Geotechnical Engineering	16055 Caputo Drive, Suite D Morgan Hill, CA 95037 Contact: Reid Fisher P (408) 778-2818 ext. 402 F: (408) 779-6879 rfisher@pacific-geotechnical.com
PHA Transportation Consultants (Pang Ho & Associates)	Traffic and Transportation Impacts	2711 Stuart Street Berkeley, CA 94705 Contact: Pang Ho T: (510) 848-9233 P: (510) 848.9233 pang@pangho.com
MIG	Environmental, CEQA and Permitting Support, Land Use and Planning, Air Quality/GHG, Energy, Noise, Recreation, Visual, Geology and Soils, Utilities and Service Systems	545 Middlefield Road, Suite 200, Menlo Park, CA 94025 Contact: Barbara Beard, Director of Environmental Analysis T: (650) 327-0429 P: (650) 464-5217 (direct) beard@traenviro.com
Underwater Resources	Underwater Investigations	Pier 26, The Embarcadero San Francisco, CA 94105 www.underwater-resources.com Contact: Tom Belcher P: (415) 974-5464 F: (415) 974-1749 tbelcher@underwater-resources.com

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED ATTACHMENT ONE TO
REVISED APPENDIX ONE
CONSULTANT'S KEY STAFF AND SUBCONSULTANTS**

Firm	Project Role	Contact Info
Stillwater	Environmental, CEQA and Permitting Support, Fisheries, Hydrology and Water Quality	279 Cousteau Place Suite 400 Davis, CA 95618 Contact: Katherine Ayres (530) 756-7550 kayres@stillwatersci.com
Ascent	Air quality, greenhouse gases, energy, noise, and vibrations	455 Capitol Mall, Suite 300 Sacramento, CA 95814 Contact: Honey Walters (530) 574.0772 honey.walters@ascent.inc

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**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED ATTACHMENT ONE TO
REVISED APPENDIX ONE
CONSULTANT'S KEY STAFF AND SUBCONSULTANTS**

3. Consultant Key Staff and Subconsultants

- A. Consultant's key staff and subconsultants assigned to perform the Services are identified in this Revised Attachment One to Revised Appendix One, Scope of Services.
- B. The Project team organization chart and delegated responsibilities of each team member will be submitted to Valley Water for concurrence.
- C. Consultant may utilize subconsultants, subcontractors, suppliers, or vendors it deems appropriate to the complexity and nature of the required Services.
 - 1. Consultant must obtain Valley Water's approval of all subconsultants. Upon Valley Water's request, Consultant must provide copies of all subconsultant agreements.
 - 2. Consultant must require its delegates or subconsultants to agree, in writing, to adhere to terms and conditions of this Agreement.
- D. Any delegation or use of subconsultants by Consultant will not operate to relieve Consultant of its responsibilities as described in this Agreement.
- E. If any of Consultant's designated key staff persons or subconsultants fail to perform to the satisfaction of Valley Water, on written notice from Valley Water, Consultant will have fifteen (15) calendar days to remove that person from the Project and provide a replacement acceptable to Valley Water.
- F. Consultant will not charge Valley Water for the time it takes Consultant's replacement personnel to obtain Valley Water-specific Project knowledge in the possession of the person(s) being replaced.
- G. Consultant's Key Staff

Valley Water Project Manager may approve any revisions to Consultant's list of key staff assigned to the Project as an administrative modification to this Agreement, and such approval will be confirmed in writing.
- H. Consultants Subconsultants
 - 1. Valley Water Project Manager may approve any revisions to Consultant's list of authorized Subconsultants when the Subconsultant is deleted from the list and the scope of services is deleted from the Agreement or such services are assumed by the Consultant; such approval will be confirmed in writing.

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED ATTACHMENT ONE TO
REVISED APPENDIX ONE
CONSULTANT'S KEY STAFF AND SUBCONSULTANTS**

2. Valley Water's authorized representative may approve any revisions to Consultant's list of authorized Subconsultants when a listed Subconsultant is replaced (to perform the same scope) or a new Subconsultant is added (to perform new scope), provided the firm complies with all insurance requirements established by Valley Water for such work; such approval will be confirmed in writing.

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**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED ATTACHMENT TWO TO
REVISED APPENDIX ONE
DISPUTE RESOLUTION**

1. CONSULTANT'S QUESTIONS AND CONCERNS

Questions regarding the terms, conditions and services relating to this Agreement will be decided by Valley Water who will furnish the decisions to Consultant in writing within thirty (30) days after receiving a written request from Consultant.

2. DISPUTE RESOLUTION

A. Alternate Dispute Resolution (ADR)

1. Valley Water intends to use ADR techniques including partnering and mediation to resolve disputes relating to the Project.

B. Consultant and its subconsultants are expected to participate in all ADR efforts.

C. The cost of partnering training facilities and facilitator will be borne by Valley Water.

3. NEGOTIATIONS BEFORE AND DURING MEDIATION

Negotiations to resolve disputes before and during mediation are initiated for settlement purposes only and are not binding unless otherwise agreed by Valley Water and Consultant.

4. VOLUNTARY MEDIATION

A. In the event a dispute or issue is not resolved by the Internal Review process stated in the Standard Consultant Agreement, Section VIII. Resolution of Disputes, Valley Water and Consultant agree to attempt to resolve the matter by mediation. The External Review paragraph of Section VIII. is hereby deleted.

B. Said mediation is voluntary, non-binding, and intended to provide an opportunity for the Parties to evaluate each other's cases and arrive at a mutually agreeable solution.

C. These provisions relating to voluntary mediation shall not be construed or interpreted as mandatory arbitration.

5. INITIATION OF MEDIATION

Any Party to a dispute or claim may initiate mediation by notifying the other Party or Parties in writing.

6. REQUEST FOR MEDIATION

A request for mediation must contain a brief written statement of the nature of the dispute or claim, and the names, addresses, and phone numbers of all Parties to the dispute or claim, and those who will represent them, if any, in the mediation.

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED ATTACHMENT TWO TO
REVISED APPENDIX ONE
DISPUTE RESOLUTION**

7. SELECTION OF MEDIATOR

- A. Upon receipt of a written request for mediation, unless otherwise agreed by the Parties, within fourteen (14) Days, the Parties will confer to select an appropriate mediator agreeable to all Parties.
- B. If the Parties cannot agree on a mediator, they hereby agree to accept a mediator appointed by a recognized association such as the American Arbitration Association.

8. QUALIFICATIONS OF A MEDIATOR

- A. Any mediator selected must have expertise in the area of the dispute and be knowledgeable in the mediation process.
- B. No person shall serve as a mediator in any dispute in which that person has any financial or personal interest in the result of the mediation.
- C. Before accepting an appointment, the prospective mediator must disclose any circumstances likely to create a presumption of bias or prevent a prompt meeting with the Parties. Upon receipt of such information, the Parties will confer and decide whether to select another mediator.

9. VACANCIES

If any mediator becomes unwilling or unable to serve, another mediator will be selected unless the parties agree otherwise.

10. REPRESENTATION

- A. Any Party may be represented by person(s) of their choice who must have full authority to negotiate.
- B. The names and addresses of such person(s) must be communicated in writing to both Parties and to the mediator.

11. TIME AND PLACE OF MEDIATION

- A. The mediator will set the time of each mediation session.
- B. The mediation will be held at a convenient location agreeable to the mediator and the Parties, as determined by the mediator.
- C. All reasonable efforts will be made by the Parties and the mediator to schedule the first session within sixty (60) Days after selection of the mediator.

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED ATTACHMENT TWO TO
REVISED APPENDIX ONE
DISPUTE RESOLUTION**

12. IDENTIFICATION OF MATTERS IN DISPUTE

- A. The Parties shall comply with the process as required by the mediator, with regard to providing the mediator with memorandum setting forth its position with regard to the issues that need to be resolved. At the discretion of the mediator, or otherwise agreed by the Parties, the Parties may mutually exchange such memoranda.
- B. At the first session, the Parties will be expected to produce all information reasonably required for the mediator to understand the issue(s) presented. The Mediator may require each Party to supplement such information.

13. AUTHORITY OF MEDIATOR

- A. The mediator does not have authority to impose a settlement on the Parties but will attempt to assist the parties in reaching a satisfactory resolution of their dispute.
- B. The mediator is authorized to conduct joint and separate meetings with the Parties and to make oral and written recommendations for settlement.
- C. Whenever necessary, the mediator may also obtain expert advice concerning technical aspects of the dispute, provided the Parties agree and assume the expenses of obtaining such advice. Arrangements for obtaining such advice will be made by the mediator or the Parties, as determined by the mediator.
- D. The mediator is authorized to end the mediation whenever, in the mediator's judgment, further efforts at Mediation would not contribute to a resolution of the dispute between the Parties.

14. PRIVACY

- A. Mediation sessions are private.
- B. The Parties and their representatives may attend mediation sessions.
- C. Other persons may attend only with the permission of the Parties and with the consent of the mediator.

15. CONFIDENTIALITY

Except as provided by California or federal law or regulation:

- A. The mediator will not divulge confidential information disclosed to a mediator by the Parties or by witnesses in the course of the mediation.
- B. All records, reports, or other documents received by a mediator while serving as

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED ATTACHMENT TWO TO
REVISED APPENDIX ONE
DISPUTE RESOLUTION**

mediator, are confidential.

- C. The mediator must not be compelled to divulge such records or to testify in regard to the mediation in any adversary proceeding or judicial forum.
- D. The Parties must maintain the confidentiality of the mediation and must not rely on, or introduce as evidence in any arbitration, judicial or other proceedings:
 - 1. Views expressed or suggestions made by the other Party with respect to a possible settlement of the dispute.
 - 2. Statements made by the other Party in the course of the mediation proceedings.
 - 3. Proposals made or views expressed by the mediator.
 - 4. Whether the other Party had or had not indicated willingness to accept a proposal for settlement made by the mediator.

16. NO STENOGRAPHIC RECORD

There shall be no stenographic record of the mediation.

17. TERMINATION OF MEDIATION

- A. The Mediation shall be terminated:
 - 1. By the execution of a Settlement Agreement by the Parties;
 - 2. By a written declaration of the mediator to the effect that further efforts at mediation are no longer worthwhile; or
 - 3. By a written declaration of a party or parties to the effect that the mediation proceedings are terminated.

18. EXCLUSION OF LIABILITY

No mediator shall be a necessary Party in judicial proceedings related to the mediation.

19. INTERPRETATION AND APPLICATION OF THESE MEDIATION PROVISIONS

The mediator will interpret and apply these mediation provisions insofar as they relate to the mediator's duties and responsibilities.

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED ATTACHMENT TWO TO
REVISED APPENDIX ONE
DISPUTE RESOLUTION**

20. EXPENSES

- A. The expenses of witnesses for each Party must be paid by the Party producing the witnesses.
- B. All other expenses of the mediation, including required travel and other expenses of the mediator, and the expenses of any witness called by the mediator, or the cost of any proofs or expert advice produced at the direct request of the mediator, will be apportioned as the mediator finds appropriate or as otherwise agreed to by the Parties.

21. COMPENSATION FOR PARTICIPATION IN MEDIATION

Neither Consultant nor Valley Water is entitled to compensation for time spent in or for negotiations or mediation to resolve questions or disputes between Consultant and Valley Water arising out of this Agreement.

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**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED ATTACHMENT THREE TO
REVISED APPENDIX ONE
TASK ORDER TEMPLATE**

Task Order No. _____

Title: _____

Agreement: Standard Consultant Agreement _____ (“Agreement”) Between the Santa Clara Valley Water Valley Water (“Valley Water”) and _____ (“Consultant”), dated _____.

Valley Water: _____

Consultant: _____

Dollar Amount of Task Order: Not-to-Exceed \$_____

1. Upon full execution of this Task Order No. _____, as set forth in the Revised Standard Consultant Agreement, Revised Appendix One Scope of Services, Article VI. Additional Terms and Conditions, paragraph E. Task Orders, and the issuance of a Notice to Proceed by Valley Water Project Manager, the Consultant is hereby authorized to perform the Services described in Attachment A to this Task Order. Any costs incurred, Services performed or expenditures by the Consultant before this Task Order is executed or before the issuance of the Notice to Proceed will be considered outside the contracted Scope of Services and will not be eligible for payment.
2. Both the Scope of Services to be performed and the deliverables to be provided in accordance with this Task Order are described in Attachment A which is attached hereto and incorporated by this reference. Attachment A shall include at a minimum the following:
 - A. The Consultant personnel to be assigned to perform the Services, including resumes if not previously provided to Valley Water;
 - B. The total not-to-exceed fees amount for Consultant to complete the Services, including estimated number of hours required to perform the Services assigned to each Consultant classification;
 - C. Estimated cost of each other direct cost and reimbursable expense, including any applicable fees; and
 - D. Project schedule for completing the Scope of Services.
3. The Consultant shall be compensated at fixed fees or at the hourly rates established in the Revised Standard Consultant Agreement, Revised Appendix Two, Fees and Payments. The Consultant agrees that it will provide all equipment, furnish all materials, except as may be otherwise noted in the Attachment A.

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED ATTACHMENT THREE TO
REVISED APPENDIX ONE
TASK ORDER TEMPLATE**

- 4. This Task Order becomes effective on the date of full execution by authorized representatives of the Parties and remains in effect until the earlier of: completion of the tasks set forth in Attachment A; or [expected completion date].
- 5. Copies of applicable local, state and federal permits required to perform the Services described in Attachment A are attached to this Task Order, unless the Consultant previously provided the appropriate permits to Valley Water.
- 6. The Consultant shall perform all Services described in Attachment A to this Task Order in accordance with the Terms and Conditions of the Agreement.
- 7. Prevailing Wage Requirements [NOT USED]
 - A. The Scope of Services described in this Task Order is considered by Valley Water to be "Public Works" requiring the payment of prevailing wages. See Revised Standard Consultant Agreement, Revised Appendix Two, Fees and Payments, Article IV. Terms and Conditions, paragraph L. Prevailing Wages.
 - B. In accordance with prevailing wage laws, the Director of the California Department of Industrial Relations (Director) has ascertained the general prevailing rate of wages and employer payments for health and welfare, pension, vacation, and similar purposes available to the particular craft, classification, or type of workers employed on the Project. These rates are set forth in the latest determination obtained from the Director, which is on file in Valley Water's Office of the Clerk of the Board of Directors and incorporated herein by reference the same as though set forth in full. The rates are also available on the State of California Department of Industrial Relations website at <http://www.dir.ca.gov>.
- 8. Signatures:

Signature:	_____	_____
	NAME OF CONSULTANT FIRM	DATE
	[PRINT NAME]	
	[PRINT TITLE]	
Signature:	_____	_____
	SANTA CLARA VALLEY WATER VALLEY WATER	DATE
	[PRINT NAME]	
	[PRINT TITLE]	

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**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED ATTACHMENT FOUR TO
REVISED APPENDIX ONE
REFERENCE MATERIALS**

Ref #	Description
1	Santa Clara Valley Water Valley Water , April 2012, Supporting Technical Information Document (STID) for Calero Main and Auxiliary Dams
2	Santa Clara Valley Water Valley Water , April 2012, Supporting Technical Information Document (STID) for Guadalupe Dam
3	URS Corporation, 2012, Final Report SSE1B-B Volume 1 & Volume 2- Appendices, Seismic Stability Evaluation of Calero Main Dam and Calero Auxiliary Dam, October 26, 2012.
4	URS Corporation, 2012, Final Report SSE1B-C Volume 1 & Volume 2- Appendices, Seismic Stability Evaluation of Guadalupe Dam, May 22, 2012.
5	URS Corporation, 2012, Design Memorandum No. 7A (DM-7A), Recommended Reservoir Restriction, Seismic Stability Evaluation SSE1B, Calero Reservoir, October 26, 2012.
6	URS Corporation 2012, Design Memorandum No. 8B (DM-8B), Conceptual Remedial Alternatives, Seismic Stability Evaluation SSE1B, Calero Main Dam, October 26, 2012.
7	URS Corporation AMEC, 2012, Design Memorandum No. 7, Recommended Reservoir Restriction, Seismic Stability Evaluation SSE1B, Almaden and Guadalupe Reservoirs, February 28, 2012.
8	URS Corporation AMEC, 2012, Design Memorandum No. 8A (DM-8A) , Conceptual Remedial Alternatives, Seismic Stability Evaluation SSE1B, Guadalupe Dam, March 7, 2012.
9	Nelson, J. L., 2007, Calero Main Dam (No. 72-3) Forensic Geologic Report, Santa Clara Valley Water Valley Water, October 2007.
10	Draft Application Report: Calero Reservoir Enlargement, Santa Clara Valley Water Valley Water, June 1982.
11	DSOD Letter dated April 25, 2012 regarding operating restrictions and Project Schedule for Guadalupe Dam
12	DSOD Letter dated March 23, 2012 regarding operating restrictions and Project Schedule for Calero Dam
13	Archives & Architecture, 2006, Historical and Architectural Evaluation, Bailey / Fellows Ranch site, Calero County Park, November 28, 2005 (Rev. January 3, 2006)

**AMENDMENT NO. 6 TO AGREEMENT A3675A
REVISED ATTACHMENT FOUR TO
REVISED APPENDIX ONE
REFERENCE MATERIALS**

Ref #	Description
14	Santa Clara Valley Water Valley Water, 2012, Dam Maintenance Program, Final Program Environmental Impact Report, January 2012.
15	Santa Clara Valley Water Valley Water, 2012, Dam Maintenance Program, Final Program Environmental Impact Report- Appendices, January 2012.
16	Santa Clara Valley Water Valley Water, 2012, 2012 Water Supply and Infrastructure Master Plan, October 2012
17	Black & Veatch, 2012, Guadalupe Dam Intake Structure Evaluation, (memorandum), August 1, 2012
18	Santa Clara Valley Water Valley Water, 2010, Calero/Fellows Dike, Planning Study Report, March 2010.
19	Santa Clara Valley Water Valley Water, Standards for GIS Products, April 2015.
20	Santa Clara Valley Water Valley Water, Recent GIS shapefiles related to habitat for Valley Habitat Plan implementation.

**AMENDMENT NO. 4 TO AGREEMENT A3675A
REVISED ATTACHMENT FIVETO
REVISED APPENDIX ONE
VALLEY WATER PROCEDURES AND WORK INSTRUCTIONS**

Reference #	Document Title
1	Capital Project Delivery – Document #Q-751-013
2	Create Work Plan – Document #W75102
3	Planning Phase WBS Item Descriptions and Instructions – Document #W73002
4	Environmental Planning – Document #Q520D01
5	Purpose of Environmental Planning and CEQA – Document #W520M01
6	CEQA Documentation Guidelines – Document #W-520-070
7	Mitigation Monitoring and Reporting Programs – Document #W520M03
8	Responsible Agency – Document #W-520-069
9	Best Management Practices Handbook – Document #W-751-037
10	Design Phase WBS Item Descriptions and Instructions – Document #W73004

**AMENDMENT NO. 4 TO AGREEMENT A3675A
REVISED ATTACHMENT SIX TO
REVISED APPENDIX ONE**

DIVISION OF SAFETY OF DAMS (DSOD) - INTERIM HYDROLOGY POLICY (6/21/2012)

SOD policy after the 1999 release of HMR 58/59 was to not actively require new hydrology studies as a result of the updated HMR. If a new dam was proposed or major work was being performed that affected the spillway, then those projects would be analyzed under HMR 59 with the requirement of 1.5 feet of residual freeboard.

Also, if dam owners initiated an updated hydrological study on their own using HMR 59, we would then follow and do our evaluation of the spillway with HMR 59.

Otherwise, dams that were previously analyzed using HMR 36 and were able to pass the PMF without overtopping the dam were considered adequate. If a dam was not able to pass the PMF based on HMR 36, then the spillway remediation would need to be designed to pass the PMF based on HMR 59.

So, now after learning more about the methodologies used to derive HMR 59 and the fact that the NOAA Atlas 14 has recently been released, DSOD is in a transition period with our hydrology policy with respect to HMR 59.

DSOD still requires as before that new dams and major projects be designed under HMR 59, and if an existing dam previously analyzed using HMR 36 can adequately pass a PMF, then no additional work is required at this time.

If an existing dam was previously shown to not adequately pass a PMF based on HMR 36 (overtops the dam), then the dam owner has the following options to consider. It may be advantageous for the dam owner to do a phased approach in evaluating the level of study required as outlined below:

1. Using HMR 59, determine if the precipitation is higher or lower than that of HMR 36. In some areas, HMR 59 is similar to HMR 36 or may show a reduction. If HMR 59 is equal to or lower than HMR 36, then the adequacy of the spillway is based on HMR 59.
2. If the results from HMR 59 are higher than HMR 36, then the owner can either remediate the spillway with those results which may be conservative, or develop a modified HMR 59 accounting for the updated NOAA Atlas 14 data as compared to NOAA Atlas 2 data. In this approach, the results from the HMR 36 should be used as a lower bound in evaluating the results from the modified HMR 59 study. If the results are reasonable, then the modified HMR 59 may be used as the basis for the PMF to evaluate the adequacy of the spillway.
3. Lastly, if the modified HMR 59 study continues to show a significant increase in precipitation as compared to HMR 36, then the dam owner may choose to have a SSPMP analysis performed. If this option is chosen, then the input parameters and methods used need to be thoroughly discussed with us before initiating the study. Results of the SSPMP may or may not be accepted based on the reasonableness of the results compared to HMR 36, historical storms, etc. It would be advantageous for the dam owner to have an independent technical advisor to review the parameters and methodologies used by the consultant performing the SSPMP study since there currently is not a standardization in place for SSPMP studies.

AMENDMENT NO. 4 TO AGREEMENT A3675A REVISED ATTACHMENT SEVEN TO REVISED APPENDIX ONE QEMS FACT SHEET



What is ISO?

The International Organization for Standardization (ISO) is the world's largest developer of voluntary international standards, which are state of the art specifications for products, services, and good practices, helping make industry more efficient and effective. For the Santa Clara Valley Water District's (district) customers and public, this means greater confidence in consistent, high quality products and services the district provides.

The district has extensive history of ISO commitment, having first been registered to ISO 9001 in 2002 for Quality Management Systems and to ISO 14001 in 2004 for Environmental Management Systems.

Principles of ISO

- *Customer Focus: take care of your customers*
- *Leadership on purpose and direction: requires Management's attention*
- *Involvement of people at all levels: everyone is involved*
- *Process approach to resources and activities: process consistency and stability*
- *Systems approach to management: plan the work; work the plan*
- *Continual improvement as a permanent objective: seek regular, constant improvement*
- *Factual approach to decision making: ensure the facts before making decisions*
- *Mutually beneficial relationships: if they fail, then the organization fails*

What are the Benefits of ISO?

- *Improves efficiency and productivity*
- *Reduces variation, waste, inefficiencies, and defects*
- *Facilitates continual improvement*
- *Improves process consistency and stability*
- *Improves employee motivation and participation*
- *Improves customer confidence and satisfaction*
- *Improves conformity to quality and environmental requirements*

District's Quality and Environmental Policy

The Santa Clara Valley Water District is committed to organizational excellence and environmental stewardship, and as such, maintains an integrated Quality and Environmental Management System (QEMS) conforming to ISO standards. The QEMS supports the organization's continual improvement through the development of a robust employee knowledge base, which ensures continuity of daily operations and facilitates succession planning. Compliance with this policy is the responsibility of each individual working for or on behalf of the District.

**AMENDMENT NO. 4 TO AGREEMENT A3675A
REVISED ATTACHMENT SEVEN TO
REVISED APPENDIX ONE
QEMS FACT SHEET**



Purpose:

- ***Provide Silicon Valley safe, clean water for a healthy life, environment, and economy.***

Customers:

- ***Meet customer requirements and enhance customer satisfaction.***

Environmental Stewardship:

- ***Provide environmental stewardship through prevention of pollution and minimizing and managing environmental impacts by setting and regularly reviewing quality and environmental objectives.***

Continual Improvement:

- ***Ensure the QEMS is regularly monitored and improved in accordance with ISO requirements to ensure that all District products and services offer the highest level of quality while maximizing the District's environmental stewardship efforts.***

Compliance:

- ***Compliance with Board policies and statutory and regulatory requirements related to the District's quality and environmental processes.***

Policy, Objectives, and Targets:

- ***Ensure this policy is documented, maintained, and implemented, and, in addition to the District's quality and environmental objectives and targets, reviewed for continuing suitability through periodic Management Reviews.***

Awareness and Competence:

- ***Ensure, through workforce development, training, communication, and succession planning, that each individual working for and on behalf of the District has the awareness, skills, and knowledge to carry out this policy in a manner that maximizes effectiveness, ensures continuity of daily operations, promotes continual improvement, and contributes to environmental stewardship.***

Public:

- ***Ensure this policy is available to the public.***

AMENDMENT NO. 4 TO AGREEMENT A3675A REVISED ATTACHMENT SEVEN TO REVISED APPENDIX ONE QEMS FACT SHEET



District's Significant Environmental Aspects

For each type of activity, product, or service, the district has identified its unique environmental aspects and determined the most significant environmental aspects that have or could have a significant environmental impact.

Management recognizes the following two major activities, within the scope of the QEMS, as having or could have a significant impact on the environment:

Bulk Chemical Storage

The district water treatment plants utilize several bulk chemicals in the water treatment process. The chemical of greatest concern, which could create a significant impact, is 19.5% aqueous ammonia. This chemical is regulated under the California Accidental Release Program. This chemical is singled out for greater control because accidental releases have the potential to create offsite consequences that could spread to residential neighborhoods adjacent to the water treatment plants.

Construction of water utility and flood protection capital projects.

Construction of water utility infrastructure and flood protection projects can involve significant changes to riparian environments and other landforms. The district recognizes the impact of these changes by integrating projects into watersheds as a whole, ensuring that ecological functions and processes are supported, ensuring that the quality and availability of water are protected for ecological and water supply functions, and that environmental impacts of projects are avoided, minimized, or mitigated.

District's Quality and Environmental Objectives

The district has identified operational objectives throughout the organization. Specifically, in support of ISO, the district analyzes and determines goals for meeting customer product requirements and overall environmental goals consistent with the environmental policy.

The following in-scope quality and environmental objectives act as a general framework for continual improvement in the organization.

Quality Objectives:

- *Prepare and respond effectively to flood emergencies countywide to protect life and property*
- *Respond effectively to historic drought conditions*
- *Reliable high quality drinking water is delivered*

**AMENDMENT NO. 4 TO AGREEMENT A3675A
REVISED ATTACHMENT SEVEN TO
REVISED APPENDIX ONE
QEMS FACT SHEET**



- *Maintain effective relationships with the retailer and other stakeholder to ensure high quality, reliable drinking water.*
- *Provide natural flood protection for residents, businesses, and visitors by removing parcels from flooding, applying an integrated watershed management approach that balances environmental quality and protection from flooding.*

Environmental Objectives:

- *Prepare for and respond to emergencies that threaten local waterways.*
- *Reduce greenhouse gas emissions to achieve carbon neutrality by 2020.*

Environmental Impacts

Pollution prevention is the cornerstone of ISO's environmental standard. ISO requires that every individual working for or on behalf of the District is responsible for being aware of how their work could impact or potentially impact the environment. ISO specifies that staff, vendors, and contractors are aware of the QEMS policy, the District's significant environmental aspects, and the impacts of their work on the environment. Processes and programs are designed and implemented to help control environmental impacts resulting from District operations and therefore, deviating from these could have unintended adverse impacts on the environment.

Assessing the QEMS for Effectiveness

To ensure that the district is continually improving its QEMS and conforms to the ISO standards, regularly scheduled audits of the system are conducted by an external third-party. This organization, known as a registrar, audits the QEMS and makes findings based on interviews and review of district procedures and records. Any deviations from the ISO standards are captured as non-conformities and require the district to take the necessary corrective and preventive actions to prevent reoccurrence. If the district is found to be in conformance to the ISO standards of which it is registered, the registrar recommends certification.

For More Information:

Your District contact can provide more information or answer any questions.

**AMENDMENT NO. 4 TO AGREEMENT A3675A
REVISED APPENDIX TWO
FEES AND PAYMENTS**

I. GENERAL (UNCHANGED)

Payment for all services performed by Consultant to the satisfaction of Valley Water as described in Appendix One and Revised Appendix One - Scope of Services for this Agreement will be based on the Total Not-to-Exceed (NTE) Fees stated in this Revised Appendix Two for the completion of the associated tasks. Valley Water will make payments to the Consultant according to the terms provided for in this Revised Appendix Two. Payments made by Valley Water to the Consultant for services rendered will be considered full compensation for all personnel, materials, supplies, subconsultant(s), and equipment including reimbursable, travel, and per diem expenses incurred by the Consultant to complete the work.

II. TOTAL AUTHORIZED FUNDING (REVISED)

Total payment for services performed, as described in Appendix One and Revised Appendix One - Scope of Services, will not exceed a total amount of **\$14,818,434** during the term of this Agreement. Under no conditions will the total compensation to the Consultant exceed this amount without prior written approval in the form of an amendment to this Agreement executed by Valley Water's Board of Directors ("Board"), or Chief Executive Officer, or designee, as authorized by the Board. The Consultant guarantees that it will complete the contracted Scope of Services for the Total NTE Amount stated herein.

III. COST BREAKDOWN (REVISED)

The not-to-exceed total compensation of this Agreement consists of the following task fee breakdown. No services will be performed or fees paid by Valley Water to the Consultant for Supplemental Services without prior written authorization by Valley Water as stated in Appendix One and Revised Appendix One of this Agreement.

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**AMENDMENT NO. 4 TO AGREEMENT A3675A
REVISED APPENDIX TWO
FEES AND PAYMENTS**

COST BREAKDOWN (REVISED)

Task	Description	Original Total Fixed NTE Fees	Amendment No. 1 NTE Fee	Amendment No. 2 NTE Fee	Amendment No. 3 NTE Fee	Amendment No. 4 NTE Fee	Amendment No. 5 NTE Fee	Amendment No. 6 NTE Fee	Revised Total Fixed NTE Fee
1	Project Management	\$559,722	-	\$420,921	-	\$368,904	-	\$806,663	\$2,156,210
2	Planning Study	\$1,642,112	-	-	-	-	-	-	\$1,642,112
3	Environmental Documentation and Permit Support	\$1,529,310	-	\$279,052		\$841,066	-	\$4,525,180	\$7,174,608
4	Develop On-site Borrow and Spoil Requirements	\$360,862	-	-		-	-	-	\$360,862
5	Design Support	\$120,339	-	\$16,038		-	-	\$31,766	\$168,143
6	Supplemental Services								
		\$691,485	-	\$600,000	-	\$1,500,000	-	\$525,014	\$3,317,128
Total Not-to-Exceed Amount		\$4,903,830	\$0	\$1,316,011	\$0	\$2,709,970	\$0	\$5,888,623	\$14,818,434

NOTES: Amendment Nos. 1, 3 and 5 were no-cost amendments.

**AMENDMENT NO. 4 TO AGREEMENT A3675A
REVISED APPENDIX TWO
FEES AND PAYMENTS**

IV. TERMS AND CONDITIONS (UNCHANGED)

- A. Payments for work completed, as described in Revised Appendix One and Revised Appendix One, Scope of Services, will be based on the following terms:
1. Valley Water will pay for services provided by the Consultant according to the schedule of rates for professional, technical, and administrative personnel as listed below in the Hourly/Unit Rate Schedule.
 2. The stated hourly rates are effective for the term of this Agreement unless otherwise revised as indicated. After twelve (12) months from the date this Agreement is entered into by parties ("anniversary date"), and each 12 months thereafter, these hourly rates may be negotiated by the Consultant and Valley Water, provided Consultant submits written notice to Valley Water of Consultant's request to revise the hourly rates ninety (90) calendar days prior to the anniversary date of this Agreement. Both parties will use as a benchmark for negotiations the percent change for the previous twelve (12) months of the "Employment Cost Index (ECI), for total compensation for private industry workers, for the San Francisco-Oakland-San Jose, CA CSA Census region and metropolitan area (not seasonally adjusted)" as published by the U.S. Department of Labor, Bureau of Labor Statistics, or 2.0%, whichever is less. A negative index will result in rates remaining the same. Such rate revisions are subject to written approval by Valley Water Deputy Operating Officer.

**AMENDMENT NO. 4 TO AGREEMENT A3675A
REVISED APPENDIX TWO
FEES AND PAYMENTS**

HOURLY RATE SCHEDULE

Classification/Staff	Original Rates	Effective 10/01/16	Effective 10/01/18	Effective 6/01/20	Effective 1/1/21	Effective 01/01/22
PRIME – GEI INC						
Senior Consultant-Grade 8	\$239	\$243.78	\$248.66	\$253.63	\$258.70	\$263.88
Senior Professional-Grade 7	\$212	\$216.24	\$220.56	\$224.98	\$229.48	\$234.07
Senior Professional-Grade 6	\$179	\$182.58	\$186.23	\$189.96	\$193.76	\$197.63
Senior Professional-Grade 5	\$157	\$160.14	\$163.34	\$166.61	\$169.94	\$173.34
Project Professional-Grade 4	\$133	\$135.66	\$138.37	\$141.14	\$143.96	\$146.48
Project Professional-Grade 3	\$118	\$120.36	\$122.77	\$125.22	\$127.73	\$130.28
Staff Professional-Grade 2	\$108	\$110.16	\$112.36	\$114.61	\$116.90	\$119.24
Staff Professional-Grade 1	\$98	\$99.96	\$101.96	\$104.00	\$106.08	\$108.20
Principal Engineer (Grade 8)	-	-	-	-	-	-
Senior Engineer (Grade 5)	-	-	-	-	-	-
Principal Environmental Consultant (Grade 8)	-	-	-	-	-	-
Senior Environmental Professional II (Grade 7)	-	-	-	-	-	-
Senior Environmental Professional I (Grade 5)	-	-	-	-	-	-
Project Environmental Professional (Grade 4)	-	-	-	-	-	-
Senior CADD Drafter and Designer	\$118	\$120.36	\$122.77	\$125.22	\$127.73	\$130.28
CADD Drafter/Designer and Senior Technician	\$108	\$110.16	\$112.36	\$114.61	\$116.90	\$119.24
Technician, Word Processor, Administrative Staff	\$88	\$89.76	\$91.56	\$93.39	\$95.25	\$97.16

**AMENDMENT NO. 4 TO AGREEMENT A3675A
REVISED APPENDIX TWO
FEES AND PAYMENTS**

Classification/Staff	Original Rates	Effective 10/01/16	Effective 10/01/18	Effective 6/01/20	Effective 1/1/21	Effective 01/01/22
SUBCONSULTANT(S)						
URS Corporation						
Principal	\$232	\$236.67	\$241.40	\$246.23	\$251.16	\$256.18
Principal Engineer/Geologist/Scientist	\$200	\$204.00	\$208.08	\$212.24	\$216.49	\$220.82
Senior Project Engineer/Geologist/Scientist IV	\$170	\$173.40	\$176.87	\$180.41	\$184.01	\$187.69
Senior Project Engineer/Geologist/Scientist III	\$160	\$163.20	\$166.46	\$169.79	\$173.19	\$176.65
Senior Project Engineer/Geologist/Scientist II	\$140	\$142.80	\$145.66	\$148.57	\$151.54	\$154.57
Senior Staff GIS/CADD	\$129	\$131.58	\$134.21	\$136.90	\$139.63	\$142.43
Senior Project Engineer/Geologist/Scientist I	\$125	\$127.50	\$130.05	\$132.65	\$135.30	\$138.01
Project Engineer/Geologist/Scientist	\$115	\$117.30	\$119.65	\$122.04	\$124.48	\$126.97
Senior Engineer/Geologist/Scientist II	\$110	\$112.20	\$114.44	\$116.73	\$119.07	\$121.45
Senior Engineer/Geologist/Scientist I	\$100	\$102.00	\$104.04	\$106.12	\$108.24	\$110.41
Staff Engineer/Geologist/Scientist II	\$90	\$91.80	\$93.64	\$95.51	\$97.42	\$99.37
Staff GIS/CADD	\$85	\$86.70	\$88.43	\$90.20	\$92.01	\$93.85
Staff Engineer/Geologist/Scientist I	\$85	\$86.70	\$88.43	\$90.20	\$92.01	\$93.85
Administrative Professional	\$70	\$71.40	\$72.83	\$74.28	\$75.77	\$77.29
Cal Engineering & Geology						
Principal Engineer or Geologist	\$198	\$201.96	\$206.00	\$210.12	\$214.32	\$218.61
Consulting Geotechnical Engineer	\$195	\$198.90	\$202.88	\$206.94	\$211.07	\$215.30
Associate Engineer		\$196.32	\$192.47	\$196.32	\$200.25	\$204.25
Senior Engineer or Geologist	\$140	\$142.80	\$145.66	\$148.57	\$151.54	\$154.57
Project Engineer or Geologist	\$110	\$112.20	\$114.44	\$116.73	\$119.07	\$121.45
Staff Engineer or Geologist	\$95	\$96.90	\$98.84	\$100.81	\$102.83	\$104.89

Amendment No. 6 to Agreement A3675A
Calero and Guadalupe Dams Seismic Retrofits Project
Planning and Environmental Services
Ver. 10.06.2025

CAS File No. 4479

**AMENDMENT NO. 4 TO AGREEMENT A3675A
REVISED APPENDIX TWO
FEES AND PAYMENTS**

Classification/Staff	Original Rates	Effective 10/01/16	Effective 10/01/18	Effective 6/01/20	Effective 1/1/21	Effective 01/01/22
Field Technician (Prevailing Wage)	\$105	\$107.10	\$109.24	\$111.43	\$113.66	\$115.93
Project Assistant	\$70	\$71.40	\$72.83	\$74.28	\$75.77	\$77.29
David Ford Consulting Engineers						
Principal	\$265.78	\$271.10	\$276.52	\$282.05	\$287.69	\$293.44
Sr H&H Engineer	\$188.61	\$192.38	\$196.23	\$200.15	\$204.16	\$208.24
Mid-level H&H Engineer	\$131.60	\$134.23	\$136.92	\$139.65	\$142.45	\$145.30
Jr H&H Engineer	\$88.41	\$90.18	\$91.98	\$93.82	\$95.70	\$97.61
Project Coordinator	\$88.59	\$90.36	\$92.17	\$94.01	\$95.89	\$97.81
Admin/Clerical	\$66.87	\$68.21	\$69.57	\$70.96	\$72.38	\$73.83
Planner/technical writer	\$111.67	\$113.90	\$116.18	\$118.51	\$120.88	\$123.29
H.T. Harvey & Associates						
Principal	\$215	\$219.30	\$223.69	\$228.16	\$232.72	\$237.38
Principal (Sr. Wetlands/Plant Ecologist)	\$215	\$219.30	\$223.69	\$228.16	\$232.72	\$237.38
Associate (Restoration Ecologist)	-	-	-	\$189.96	\$193.76	\$197.63
Sr. Ecologist 2	-	-	-	\$169.59	\$172.98	\$176.44
Sr. Ecologist 1 (Project Manager/Wildlife Ecologist)	\$147	\$149.94	\$152.94	\$156.00	\$159.12	\$162.30
Sr. Ecologist 1 (Herpetologist)	\$147	\$149.94	\$152.94	\$156.00	\$159.12	\$162.30
Ecologist 1 (Plant Ecologist)	\$116	\$118.32	\$120.69	\$123.10	\$125.56	\$128.07
Sr. GIS Analyst				\$125.46	\$127.97	\$130.53
GIS Specialist	\$105	\$107.10	\$109.24	\$111.43	\$113.66	\$115.93
Support	\$80	\$81.60	\$83.23	\$84.89	\$86.59	\$88.33
JDH Corrosion Consultants, Inc.						
Principal-Project Manager	\$191.40	\$195.23	\$199.13	\$203.12	\$207.18	\$211.32
Asst. Project Manager	\$175.45	\$178.96	\$182.54	\$186.19	\$189.91	\$193.71

**AMENDMENT NO. 4 TO AGREEMENT A3675A
REVISED APPENDIX TWO
FEES AND PAYMENTS**

Classification/Staff	Original Rates	Effective 10/01/16	Effective 10/01/18	Effective 6/01/20	Effective 1/1/21	Effective 01/01/22
Project Engineer	\$127.28	\$129.83	\$132.42	\$135.07	\$137.77	\$140.53
Sr. Corrosion Tech.	\$127.28	\$129.83	\$132.42	\$135.07	\$137.77	\$140.53
Project Engineer	\$143.55	\$146.42	\$149.35	\$152.34	\$155.38	\$158.49
Field Engineer	\$98.12	\$100.08	\$102.08	\$104.13	\$106.21	\$108.33
Field Technician	\$109.96	\$112.16	\$114.40	\$116.69	\$119.02	\$121.40
Field Technician	\$111.65	\$113.88	\$116.16	\$118.48	\$120.85	\$123.27
Drafting – AutoCAD	\$95.70	\$97.61	\$99.57	\$101.56	\$103.59	\$105.66
Pacific Geotechnical Engineering						
Supervising Engineer	\$177	\$180.54	-	-	-	-
Senior Geologist	\$156	\$159.12	-	-	-	-
Project Geologist	\$131	\$133.62	-	-	-	-
Senior Engineer	\$156	\$159.12	-	-	-	-
Staff Geologist	\$91	\$92.82	-	-	-	-
Staff Geologist	\$91	\$92.82	-	-	-	-
Geologist	\$121	\$123.42	-	-	-	-
Drafting	\$76	\$77.52	-	-	-	-
PHA Transportation Consultants						
Principal	\$160	\$163.20	\$166.20	\$169.79	\$173.19	\$176.65
Senior Engineer	\$140	\$142.80	\$145.66	\$148.57	\$151.54	\$154.57
TRA Environmental Sciences, Inc.						
Senior Project Manager	\$160	\$163.20	\$166.46	\$169.79	\$173.19	\$176.65
Senior Biologist II	\$140	\$142.80	\$145.66	\$148.57	\$151.54	\$154.57
Senior Analyst II	\$140	\$142.80	\$145.66	\$148.57	\$151.54	\$154.57
Analyst III	\$110	\$112.20	\$114.44	\$116.73	\$119.07	\$121.45
Support Staff	\$75	\$76.50	\$78.03	\$79.59	\$81.18	\$82.81

**AMENDMENT NO. 4 TO AGREEMENT A3675A
REVISED APPENDIX TWO
FEES AND PAYMENTS**

Classification/Staff	Original Rates	Effective 10/01/16	Effective 10/01/18	Effective 6/01/20	Effective 1/1/21	Effective 01/01/22
Underwater Resources, Inc.						
Project Manager	\$135/hr.	\$137.70	\$140.45	\$143.26	\$146.13	\$149.05
Diving Supervisor	\$1,100/shift	\$1,122.00/Shift	\$1,144.44/Shift	\$1,167.33/Shift	\$1,190.6/Shift	\$1,214.49/Shift
Diving Supervisor OT	\$170/OT hr.	\$173.40/OT hr.	\$176.87/OT hr.	\$180.41/OT hr.	\$184.01/OT hr.	\$187.69/OT hr.
Diver	\$1,640/shift	\$1,672.80/shift	\$1,706.26/shift	\$1,740.39/shift	\$1,775.19/shift	\$1,810.69/shift
Diver OT	\$265/hr.	\$270.30	\$275.71	\$281.22	\$286.84	\$292.58
Shop Labor	\$85/hr.	\$86.70	\$88.43	\$90.20	\$92.01	\$93.85

Classification/Staff	Original Rates	Effective 01/01/22	Effective 03/01/23	Effective 01/01/24	Current Rates Effective 01/01/2025
PRIME – GEI INC					
Senior Consultant-Grade 8	\$239	\$263.88	\$269.15	\$274.54	\$280.03
Senior Professional-Grade 7	\$212	\$234.07	\$238.75	\$243.52	\$248.39
Senior Professional-Grade 6	\$179	\$197.63	\$201.58	\$205.61	\$209.73
Senior Professional-Grade 5	\$157	\$173.34	\$176.81	\$180.34	\$183.95
Project Professional-Grade 4	\$133	\$146.48	\$149.78	\$152.78	\$155.83
Project Professional-Grade 3	\$118	\$130.28	\$132.89	\$135.54	\$138.26
Staff Professional-Grade 2	\$108	\$119.24	\$121.63	\$124.06	\$126.54
Staff Professional-Grade 1	\$98	\$108.20	\$110.36	\$112.57	\$114.82

**AMENDMENT NO. 4 TO AGREEMENT A3675A
REVISED APPENDIX TWO
FEES AND PAYMENTS**

Classification/Staff	Original Rates	Effective 01/01/22	Effective 03/01/23	Effective 01/01/24	Current Rates Effective 01/01/2025
Principal Engineer (Grade 8)	-	-	-		\$352.76
Senior Engineer (Grade 5)	-	-	-		\$232.86
Principal Environmental Consultant (Grade 8)	-	-	-		\$316.09
Senior Environmental Professional II (Grade 7)	-	-	-		\$272.50
Senior Environmental Professional I (Grade 5)	-	-	-	-	\$195.22
Project Environmental Professional (Grade 4)	-	-	-	-	\$164.50
Senior CADD Drafter and Designer	\$118	\$130.28	\$132.89	\$135.54	\$138.26
CADD Drafter/Designer and Senior Technician	\$108	\$119.24	\$121.63	\$124.06	\$126.54
Technician, Word Processor, Administrative Staff	\$88	\$97.16	\$99.10	\$101.08	\$103.11
SUBCONSULTANT(S)					
URS Corporation					
Principal	\$232	\$256.18	\$261.30	\$266.53	\$271.86
Principal Engineer/Geologist/Scientist	\$200	\$220.82	\$225.23	\$229.74	\$234.33
Senior Project Engineer/Geologist/Scientist IV	\$170	\$187.69	\$191.45	\$195.28	\$199.18
Senior Project Engineer/Geologist/Scientist III	\$160	\$176.65	\$180.19	\$183.79	\$187.47
Senior Project Engineer/Geologist/Scientist II	\$140	\$154.57	\$157.66	\$160.82	\$164.03
Senior Staff GIS/CADD	\$129	\$142.43	\$145.27	\$148.18	\$151.14
Senior Project Engineer/Geologist/Scientist I	\$125	\$138.01	\$140.77	\$143.59	\$146.46
Project Engineer/Geologist/Scientist	\$115	\$126.97	\$129.51	\$132.10	\$134.74
Senior Engineer/Geologist/Scientist II	\$110	\$121.45	\$123.88	\$126.36	\$128.88
Senior Engineer/Geologist/Scientist I	\$100	\$110.41	\$112.62	\$114.87	\$117.17

**AMENDMENT NO. 4 TO AGREEMENT A3675A
REVISED APPENDIX TWO
FEES AND PAYMENTS**

Classification/Staff	Original Rates	Effective 01/01/22	Effective 03/01/23	Effective 01/01/24	Current Rates Effective 01/01/2025
Staff Engineer/Geologist/Scientist II	\$90	\$99.37	\$101.35	\$103.38	\$105.45
Staff GIS/CADD	\$85	\$93.85	\$95.72	\$97.64	\$99.59
Staff Engineer/Geologist/Scientist I	\$85	\$93.85	\$95.72	\$97.64	\$99.59
Administrative Professional	\$70	\$77.29	\$78.83	\$80.41	\$82.02
Cal Engineering & Geology					
Principal Engineer or Geologist	\$198	\$218.61	\$222.98	\$227.44	\$231.99
Consulting Geotechnical Engineer	\$195	\$215.30	\$219.60	\$223.99	\$228.47
Associate Engineer		\$204.25	\$208.34	\$212.51	\$216.76
Senior Engineer or Geologist	\$140	\$154.57	\$157.66	\$160.82	\$164.03
Project Engineer or Geologist	\$110	\$121.45	\$123.88	\$126.36	\$128.88
Staff Engineer or Geologist	\$95	\$104.89	\$106.99	\$109.13	\$111.31
Field Technician (Prevailing Wage)	\$105	\$115.93	\$118.25	\$120.61	\$123.02
Project Assistant	\$70	\$77.29	\$78.83	\$80.41	\$82.02
David Ford Consulting Engineers					
Principal	\$265.78	\$293.44	\$299.31	\$305.30	\$311.40
Sr H&H Engineer	\$188.61	\$208.24	\$212.41	\$216.65	\$220.99
Mid-level H&H Engineer	\$131.60	\$145.30	\$148.20	\$151.17	\$154.19
Jr H&H Engineer	\$88.41	\$97.61	\$99.56	\$101.56	\$103.59
Project Coordinator	\$88.59	\$97.81	\$99.77	\$101.76	\$103.80
Admin/Clerical	\$66.87	\$73.83	\$75.31	\$76.81	\$78.35
Planner/technical writer	\$111.67	\$123.29	\$125.76	\$128.27	\$130.84
H.T. Harvey & Associates					
Principal	\$215	\$237.38	\$242.12	\$246.97	\$251.91
Principal (Sr. Wetlands/Plant Ecologist)	\$215	\$237.38	\$242.12	\$246.97	\$251.91
Associate (Restoration Ecologist)	-	\$197.63	\$201.58	\$205.61	\$209.73
Sr. Ecologist 2	-	\$176.44	\$179.97	\$183.56	\$187.24
Sr. Ecologist 1 (Project Manager/Wildlife Ecologist)	\$147	\$162.30	\$165.55	\$168.86	\$172.23
Sr. Ecologist 1 (Herpetologist)	\$147	\$162.30	\$165.55	\$168.86	\$172.23

**AMENDMENT NO. 4 TO AGREEMENT A3675A
REVISED APPENDIX TWO
FEES AND PAYMENTS**

Classification/Staff	Original Rates	Effective 01/01/22	Effective 03/01/23	Effective 01/01/24	Current Rates Effective 01/01/2025
Ecologist 1 (Plant Ecologist)	\$116	\$128.07	\$130.63	\$133.25	\$135.91
Sr. GIS Analyst		\$130.53	\$133.14	\$135.80	\$138.52
GIS Specialist	\$105	\$115.93	\$118.25	\$120.61	\$123.02
Support	\$80	\$88.33	\$90.09	\$91.89	\$93.73
JDH Corrosion Consultants, Inc.					
Principal-Project Manager	\$191.40	\$211.32	\$215.55	\$219.86	\$224.26
Asst. Project Manager	\$175.45	\$193.71	\$197.59	\$201.54	\$205.57
Project Engineer	\$127.28	\$140.53	\$143.34	\$146.20	\$149.13
Sr. Corrosion Tech.	\$127.28	\$140.53	\$143.34	\$146.20	\$149.13
Project Engineer	\$143.55	\$158.49	\$161.66	\$164.89	\$168.19
Field Engineer	\$98.12	\$108.33	\$110.50	\$112.71	\$114.96
Field Technician	\$109.96	\$121.40	\$123.83	\$126.31	\$128.84
Field Technician	\$111.65	\$123.27	\$125.74	\$128.25	\$130.82
Drafting – AutoCAD	\$95.70	\$105.66	\$107.77	\$109.93	\$112.13
Pacific Geotechnical Engineering					
Supervising Engineer	\$177	-	-	-	-
Senior Geologist	\$156	-	-	-	-
Project Geologist	\$131	-	-	-	-
Senior Engineer	\$156	-	-	-	-
Staff Geologist	\$91	-	-	-	-
Staff Geologist	\$91	-	-	-	-
Geologist	\$121	-	-	-	-
Drafting	\$76	-	-	-	-
PHA Transportation Consultants					
Principal	\$160	\$176.65	\$180.19	\$183.79	\$187.47
Senior Engineer	\$140	\$154.57	\$157.66	\$160.82	\$164.03
TRA Environmental Sciences, Inc.					
Senior Project Manager	\$160	\$176.65	\$180.19	\$183.79	\$187.47
Senior Biologist II	\$140	\$154.57	\$157.66	\$160.82	\$164.03

**AMENDMENT NO. 4 TO AGREEMENT A3675A
REVISED APPENDIX TWO
FEES AND PAYMENTS**

Classification/Staff	Original Rates	Effective 01/01/22	Effective 03/01/23	Effective 01/01/24	Current Rates Effective 01/01/2025
Senior Analyst II	\$140	\$154.57	\$157.66	\$160.82	\$164.03
Analyst III	\$110	\$121.45	\$123.88	\$126.36	\$128.88
Support Staff	\$75	\$82.81	\$84.46	\$86.15	\$87.87
Underwater Resources, Inc.					
Project Manager	\$135/hr.	\$149.05	\$152.03	\$155.07	\$158.17
Diving Supervisor	\$1,100/shift	\$1,214.49/Shift	\$1,238.78/Shift	\$1,263.55/Shift	\$1,288.83
Diving Supervisor OT	\$170/OT hr.	\$187.69/OT hr.	\$191.45/OT hr.	\$195.28/OT hr.	\$199.18
Diver	\$1,640/shift	\$1,810.69/shift	\$1,846.91/shift	\$1,883.84/shift	\$1,921.52
Diver OT	\$265/hr.	\$292.58	\$298.43	\$304.40	\$310.49
Shop Labor	\$85/hr.	\$93.85	\$95.72	\$97.64	\$99.59
Stillwater Sciences					
Principal-in-Charge	-	-	-	-	\$272
Principal Scientist/Engineer	-	-	-	-	\$238
Senior Scientist/Engineer	-	-	-	-	\$214
Associate Scientist/Engineer	-	-	-	-	\$191
Assistant Scientist/Engineer	-	-	-	-	\$169
Scientist II	-	-	-	-	\$152
Scientist I	-	-	-	-	\$140
Senior Technician II	-	-	-	-	\$123
Senior Technician I	-	-	-	-	\$108
Technical Administrative	-	-	-	-	\$86
Ascent					
Principal III	-	-	-	-	\$390
Principal II	-	-	-	-	\$330
Principal I	-	-	-	-	\$290
Director III (Air/Noise Services)/ Technical Lead III	-	-	-	-	\$290

**AMENDMENT NO. 4 TO AGREEMENT A3675A
REVISED APPENDIX TWO
FEES AND PAYMENTS**

Classification/Staff	Original Rates	Effective 01/01/22	Effective 03/01/23	Effective 01/01/24	Current Rates Effective 01/01/2025
Director II (Air/Noise Services)/ Technical Lead II	-	-	-	-	\$275
Director I (Air/Noise Services)/Technical Lead I	-	-	-	-	\$265
Senior Project Manager II	-	-	-	-	\$225
Senior Project Manager I	-	-	-	-	\$200
Project Manager	-	-	-	-	\$185
Senior Air Quality/Noise Specialist III	-	-	-	-	\$265
Senior Air Quality/Noise Specialist II	-	-	-	-	\$225
Senior Air Quality/Noise Specialist I	-	-	-	-	\$200
Air Quality/Noise Specialist III	-	-	-	-	\$185
Air Quality/Noise Specialist II	-	-	-	-	\$155
Air Quality/Noise Specialist I	-	-	-	-	\$140
Intern	-	-	-	-	\$115
Senior GIS Specialist	-	-	-	-	\$195
GIS Specialist	-	-	-	-	\$165
GIS/Graphics Specialist	-	-	-	-	\$140
Document Production Manager/Technical Editor II	-	-	-	-	\$165
Document Production Manager/Technical Editor I	-	-	-	-	\$155
Senior Publishing Specialist	-	-	-	-	\$150
Publishing Specialist	-	-	-	-	\$130
Project Accountant, Contracts Administrator II	-	-	-	-	\$165
Project Accountant, Contracts Administrator I	-	-	-	-	\$150
Office Administrator, Project Assistant, Admin Assistant	-	-	-	-	\$115

**AMENDMENT NO. 4 TO AGREEMENT A3675A
REVISED APPENDIX TWO
FEES AND PAYMENTS**

- B. Upon the written approval of Valley Water's Deputy Operating Officer stated herein, unused fees from a completed or cancelled task may be reallocated to an uncompleted task provided that the Agreement Total Not-to-Exceed Amount is not exceeded. Transferring fees from an uncompleted task to another task will not be permitted.
- C. Upon the written approval of Valley Water's Deputy Operating Officer referenced herein, the scope of services described in a task may be reduced or eliminated. If the scope of services is reduced or eliminated, the portion of the fees attributable to that reduced or eliminated task may be allocated to revised existing tasks, or transferred to a Supplemental Services task, if provided for herein.
- D. Any reduction or elimination of tasks and any inter-task transfers will be clearly noted and described in the subsequent monthly progress report to Valley Water.
- E. Services to be performed pursuant to the Supplemental Services task, if provided for herein, will commence only after issuance of a fully executed Task Order. Expenses incurred by the Consultant for subconsultants providing professional services and for subcontractor, including lab services, will be reimbursed at actual cost plus 5%. Consultant shall provide invoices for all lab services regardless of cost.
- F. All other direct expenses not included in overhead including, but not limited to, mapping, rendering, printouts, leased equipment, mailing and delivery services, printing services, film and processing, plotting, and supplies, will be billed monthly at cost linked to each Agreement Task, as approved by Valley Water's Project Manager.
- G. Reimbursable Expenses
 - 1. Automobile travel mileage expenses will be paid at the current IRS rate. Valley Water will not reimburse Consultant and its subconsultants for mileage and travel time to and from Valley Water Headquarters and surrounding campus located at 5700 Almaden Expressway, San Jose, California. Valley Water will reimburse Consultant and its subconsultants for mileage incurred from Valley Water Headquarters or Consultant's and subconsultants' firm addresses, whichever is closer to the destination, to Project site(s) community outreach meetings, partnering meetings, Dispute Review Board meetings, and meetings with regulatory agencies, if directed or authorized by Valley Water.
 - 2. Travel, including air travel, overnight accommodations, and per diem, required for performance of this Agreement will be paid at reasonable cost not-to-exceed the U.S. General Services Agency Per Diem Rates for Sunnyvale/Palo Alto/San Jose, California area, provided prior approval for such travel has been obtained from Valley Water Project Manager. For air travel, Valley Water will pay the cost of a coach class or equivalent ticket. Where air travel is required, Valley Water will pay the total cost of taxi,

**AMENDMENT NO. 4 TO AGREEMENT A3675A
REVISED APPENDIX TWO
FEES AND PAYMENTS**

rideshare or a rental car, which may include insurance, gas, car fee, and taxes, and will be paid for the actual costs incurred. Vehicle rental is limited to a compact or economy model, unless prior approval has been obtained from Valley Water Project Manager for a different type of vehicle.

- H. Consultant's monthly invoices will be prepared in accordance with the terms of this Revised Appendix Two and the Standard Consultant Agreement Section IV, Fees and Payments, and represent work performed and reimbursable costs incurred during the identified billing period and will be consistent with Appendix One and Revised Appendix One and include the following:
 - 1. Personnel Category and employee name itemized with all labor charges by Scope of Service Task.
 - 2. Direct charges by Scope of Service Task.
 - 3. Consultant's summary of the amount Consultant has been billed by their subconsultants and subcontractors and further detailed by Scope of Service Task.
 - 4. Direct charges must reflect actual fees versus the Agreement not to exceed fees in this Revised Appendix Two.
- I. Before submitting monthly invoices, the Monthly Progress Report and draft invoice (in Adobe PDF format) will be provided by the Consultant for preliminary review by Valley Water Project Manager. Upon preliminary approval by Valley Water, the Consultant will mail the complete signed and dated hardcopy invoice, including all supporting documentation. Valley Water's preliminary review of the draft invoice does not represent final approval of the hardcopy invoice, but is intended to reduce potential for re-submittals of hardcopy invoice by Consultant.
- J. Invoices will include a summary of labor expenditures, direct costs, and billed subconsultant charges. Billing statements, transmitted separately from the Monthly Progress Reports, will be organized such that the billing categories correspond with the Scope of Services tasks.
- K. Valley Water's Project Manager will review invoice within five (5) working days of receipt, address any questions with Consultant's Construction Manager, and approve the undisputed amount of the invoice within ten (10) working days of receipt of the invoice. Valley Water will pay undisputed invoices within thirty (30) calendar days from date invoice is approved by Valley Water's Project Manager.
- L. Prevailing Wages
 - 1. A portion of the Services to be performed pursuant to this Agreement may be considered "Public Works" subject to California Labor Code §1771, et. seq. and the applicable implementing regulations.

**AMENDMENT NO. 4 TO AGREEMENT A3675A
REVISED APPENDIX TWO
FEES AND PAYMENTS**

2. Labor Code §1720 includes "Inspection and Land Surveying" in its definition of "Public Works." If Consultant's Services includes such work, Consultant and its Subconsultants must comply with all Labor Codes applicable to prevailing wages.
3. The Consultant and its Subconsultants shall not engage in the performance of public work, as defined in California Labor Code §1771.1, unless currently registered and qualified to perform public work pursuant to California Labor Code §1725.5.
4. The General Prevailing Wage Rates issued by the California Department of Industrial Relations may be adjusted by the State throughout the term of this Agreement. Notwithstanding any other provision of this Agreement, Consultant will not be entitled to any adjustment in compensation rates in the event there are adjustments to the General Prevailing Wage Rates.
5. This Agreement is subject to compliance monitoring and enforcement by the State of California Department of Industrial Relations. Upon request, the Consultant and Subconsultants must furnish the records specified in Labor Code §1776 directly to the Labor Commissioner, in a format prescribed by the Labor Commissioner.
6. All records or documents required to be kept to verify statutory compliance with the prevailing wage requirement such as certified payroll records must be made available for audit at no cost to Valley Water, at any time during regular business hours, upon written request by Valley Water.

7. **California State Department of Industrial Relations Contractor and Sub-Contractor Registration Requirements**

Prior to Valley Water executing a Task Order for Services involving public works, as defined herein, the Consultant, and its Subconsultant(s) performing public works, must provide evidence, in the form required by Valley Water, that Consultant and its Subconsultant(s) are in compliance with the California State Department of Industrial Relations Contractor and Sub-Contractor Registration Requirements.

- M. Consultant's services will be performed by its staff members and subconsultants' staff members at the lowest hourly rates commensurate with the complexity of the required services.
- N. Consultant's attention is directed to Section IV of the Revised Standard Consultant Agreement regarding Fees and Payments and the corresponding retention clause.
- O. Small Business Enterprise (SBE) Participation

**AMENDMENT NO. 4 TO AGREEMENT A3675A
REVISED APPENDIX TWO
FEES AND PAYMENTS**

This Agreement provides for the Consultant to include California Department of General Services certified Small/Micro Businesses in the performance of the services, estimated to be 30 percent or more of the Total Not to Exceed Amount stated in this Revised Appendix Two and Consultant agrees to use its best efforts to meet this goal. With each monthly progress report, Consultant shall provide level of Small Business Enterprise (SBE) participation.

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**AMENDMENT NO. 4 TO AGREEMENT A3675A
REVISED APPENDIX THREE
SCHEDULE OF COMPLETION**

1. This Agreement commences on the date specified in the introductory paragraph of the Standard Consultant Agreement portion of this Agreement. The term of this Agreement expires **June 30, 2028**, unless, prior to its expiration, its term is modified by a written amendment hereto, signed by both Parties.
2. Consultant will commence Tasks listed in Appendix One and Revised Appendix One of this Agreement upon receipt of the Notice-to-Proceed (NTP) issued by Valley Water.
3. Consultant will perform and complete the Services described in Appendix One and Revised Appendix One, Scope of Services, in accordance with the Project Schedule table as shown below. Consultant will coordinate services with Valley Water to provide the timeline of all tasks and subtasks including the site visits, document review, meetings, and Deliverables.
4. The approved Project Schedule will be monitored monthly. Changes to the schedule for performance of Tasks and Deliverables are subject to advance written approval by Valley Water. Consultant's attention is directed to Valley Water's Revised Standard Consultant Agreement, Section VII. Delays and Extensions.
5. Project Delays - The Consultant will make all reasonable efforts to comply with the Project Schedule as shown here in Revised Appendix Three. In the event the Project Schedule will be delayed, Consultant will notify Valley Water as soon as possible, providing the reason why, the length of the delay, and a description of the actions being taken to address the delay. In the event Consultant is delayed in performance of its services by circumstances beyond its control, Valley Water may in its discretion grant a reasonable adjustment in the Project Schedule. This language will prevail should any conflict or discrepancy occur between this provision and the Revised Standard Consultant Agreement portion of this Agreement, Section VII. Delays and Extensions.
6. Valley Water's Project Manager and Consultant may agree to modify the schedule specified for Consultant's performance as a written administrative modification to the Agreement and such approval will be confirmed in writing.

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**AMENDMENT NO. 4 TO AGREEMENT A3675A
REVISED APPENDIX THREE
SCHEDULE OF COMPLETION**

PROJECT SCHEDULE (REVISED)

Task	Description	Duration from NTP
1	Project Management Services	Duration of the Agreement
1.1	Planning Phase Work Plan - Calero and Guadalupe Dams Combined	Duration of the Agreement
2.1.3	Problem Definition Report - Calero Dam	5 months from NTP (Completed)
2.1.3	Problem Definition Report - Guadalupe Dam	7 months from NTP (Completed)
2.2.5	Planning Study Report - Calero Dam	12 months from NTP (Completed)
2.2.5	Planning Study Report - Guadalupe Dam	14 months from NTP (Completed)
2.2.6	Transition Reports - Calero Dam	13 months from NTP (Completed)
2.2.6	Transition Reports - Guadalupe Dam	15 months from NTP (Completed)
3.4.4	Draft Environmental Impact Report - Calero Dam	Duration of the Agreement
3.4.4	Draft Environmental Impact Report - Guadalupe Dam	Duration of the Agreement
3.6	Final Environmental Impact Report - Calero Dam	Duration of the Agreement
3.6	Final Environmental Impact Report - Guadalupe Dam	Duration of the Agreement
3.7	Regulatory Permitting	Duration of the Agreement
4	Develop On-site Borrow and Spoil Requirements - Calero Dam	5 months from NTP (Completed)
4	Develop On-site Borrow and Spoil Requirements - Guadalupe Dam	7 months from NTP (Completed)
5	Design Support	Duration of the Agreement
6	Supplemental Services	Duration of the Agreement

**AMENDMENT NO. 4 TO AGREEMENT A3675A
REVISED APPENDIX FOUR
INSURANCE REQUIREMENTS**

Please Note: Failure to comply with the instructions below could result in a delay in receiving the Notice to Proceed. Valley Water will not be responsible for time lost or costs incurred due to failure to comply with these requirements. Please note the check-list of documents needed at the end of this Revised Appendix Four Insurance Requirements.

Without limiting the Consultant's indemnification of, or liability to, the Santa Clara Valley Water Valley Water ("Valley Water"), the Consultant must provide and maintain at its own expense, during the term of this Agreement, or as may be further required herein, the following insurance coverages and provisions as listed below.

Consultant must provide its insurance broker(s)/agent(s) with a copy of these requirements and warrants that these requirements have been reviewed by Consultant's insurance agent(s) and/or broker(s), who have been instructed by Consultant to procure the insurance coverage required herein.

In addition to certificates, Consultant must furnish Valley Water with copies of all original endorsements affecting coverage required by this Revised Appendix. The certificates and endorsements are to be signed by a person authorized by that insurer to bind coverage on its behalf. **All endorsements and certificates are to be received and approved by Valley Water before the Agreement is executed.**

In the event of a claim or dispute, Valley Water has the right to require Consultant's insurer to provide complete, certified copies of all required pertinent insurance policies, including endorsements affecting the coverage required by this Revised Appendix insurance document.

If your insurance broker has any questions about the above requirements, please advise him/her to call Mr. David Cahen, Valley Water Risk Manager at (408) 630-2213.

Certificates of Insurance

Consultant shall furnish Valley Water with a Certificate of Insurance. The certificates will be issued on a standard ACORD Form.

Consultant shall instruct their insurance broker/agent to submit all insurance certificates and required notices electronically in PDF format to the designated Valley Water Contract Administrator and email a copy to: valleywater@ebix.com

The certificates will:

1. Identify the underwriters, the types of insurance, the insurance limits, the deductibles and the policy term;
2. Include copies of all the actual policy endorsements required herein; and
3. In the "Certificate Holder" box include:

**Santa Clara Valley Water Valley Water
5750 Almaden Expressway
San Jose, CA 95118
Agreement/CAS No. A3675A / CAS No. 4479**

IMPORTANT: The agreement or CAS number must be included.

**AMENDMENT NO. 4 TO AGREEMENT A3675A
REVISED APPENDIX FOUR
INSURANCE REQUIREMENTS**

In the Description of Operations/Locations/Vehicles/Special Items Box:

1. Certificate Holder shall be named as Additional Insured;
2. Valley Water agreement or project number shall appear;
3. The list of policies scheduled as underlying on the Umbrella policy shall be listed; and
4. Waiver of Subrogation must be indicated as endorsed to all policies.

If Consultant receives any notice that any of the insurance policies required by this Revised Appendix Four Insurance Requirements may be cancelled or coverage reduced for any reason whatsoever, Consultant or insurer shall immediately provide written notice to the designated Valley Water Contract Administrator that such insurance policy required by this Revised Appendix Four Insurance Requirements is canceled or coverage is reduced.

Maintenance of Insurance

If Consultant fails to maintain such insurance as is called for herein, Valley Water, at its option, may suspend payment for work performed and/or may order Consultant to suspend all Consultant's work at Consultant's expense until a new policy of insurance is in effect.

Renewal of Insurance

Consultant will provide Valley Water with a current Certificate of Insurance and endorsements within thirty (30) business days from the expiration of insurance.

Consultant shall instruct its insurance broker/agent to:

1. Submit all renewals of insurance certificates and required notices electronically in PDF format to: valleywater@ebix.com
2. Provide the following information in the "Certificate Holder" box:

**Santa Clara Valley Water Valley Water
5750 Almaden Expressway
San Jose, CA 95118
Agreement/CAS No. A3675A / CAS No. 4479**

IMPORTANT: The agreement or CAS number must be included.

Consultant must, at its sole cost and expense, procure and maintain during the entire period of this Agreement the following insurance coverage(s).

Required Coverages

1. **Commercial General/Business Liability Insurance** with coverage as indicated:

\$2,000,000 per occurrence / **\$2,000,000** aggregate limits for bodily injury and property damage

**AMENDMENT NO. 4 TO AGREEMENT A3675A
REVISED APPENDIX FOUR
INSURANCE REQUIREMENTS**

General Liability insurance must include:

- a. Coverage at least as broad as found in standard ISO form CG 00 01.
- b. Contractual Liability expressly including liability assumed under this contract.
- c. If Consultant must be working within fifty (50) feet of a railroad or light rail operation, any exclusion as to performance of operations within the vicinity of any railroad bridge, trestle, track, roadbed, tunnel, overpass, underpass, or crossway must be deleted, or a railroad protective policy in the above amounts provided.
- d. Severability of Interest.
- e. Broad Form Property Damage liability.

2. **Business Auto Liability Insurance** with coverage as indicated:

\$2,000,000 combined single limit for bodily injury and property damage per occurrence, covering all owned, non-owned and hired vehicles.

3. **Professional/Errors and Omissions Liability** with coverage as indicated:

\$5,000,000 per claim/ **\$5,000,000** aggregate

Professional/Errors and Omission Liability appropriate to the Consultant's profession, and must include:

- a. If coverage contains a deductible, or self-insured retention, it shall not be greater than one hundred thousand dollars (\$100,000) per occurrence/event.
- b. Coverage shall include contractual liability
- c. If coverage is claims-made:
 - i. Certificate of Insurance shall clearly state that the coverage is claims-made.
 - ii. Policy retroactive date must coincide with or precede the Consultant's start of work (including subsequent policies purchased as renewals or replacements).
 - iii. Policy must allow for reporting of circumstances or incidents that might give rise to future claims.
 - iv. Insurance must be maintained and evidence of insurance must be provided for at least three (3) years after completion of the contract of work.

4. **Workers' Compensation and Employer's Liability Insurance**

Statutory California Workers' Compensation coverage covering all work to be performed for Valley Water.

Employer Liability coverage for not less than \$1,000,000 per occurrence.

**AMENDMENT NO. 4 TO AGREEMENT A3675A
REVISED APPENDIX FOUR
INSURANCE REQUIREMENTS**

General Requirements

With respect to all coverages noted above, the following additional requirements apply:

1. **Additional Insured Endorsement(s):** Consultant must provide an additional insured endorsement for Commercial General/Business Liability (for both on-going and completed operations) and Business Automobile liability coverage naming the **Santa Clara Valley Water Valley Water, its Directors, officers, employees, and agents, individually and collectively**, as additional insureds, and must provide coverage for acts, omissions, etc. arising out of the named insureds' activities and work. Other public entities may also be added to the additional insured endorsement as applicable and the Consultant will be notified of such requirement(s) by Valley Water. **NOTE:** This section does not apply to the Workers' Compensation and Professional Liability policies.

(**NOTE:** Additional insured language on the Certificate of Insurance is **NOT** acceptable without a separate endorsement such as Form CG 20 10, CG 2033, CG 2037, or CG 2038. Editions dated 07/04 are not acceptable.)
2. **Primacy Clause:** Consultant will provide evidence (either through the Certificate of Insurance, endorsement or language in the insurance contract) that consultant's insurance is primary with respect to any other insurance which may be carried by Valley Water, its Directors, its officers, agents and employees, and Valley Water's coverage must not be called upon to contribute or share in the loss. **NOTE:** This section does not apply to the Workers' Compensation policies.
3. **Cancellation Clause:** Consultant will provide endorsements for all policies stating that the policy will not be cancelled without 30 days prior notification to Valley Water.
4. **Acceptability of Insurers:** All coverages must be issued by companies admitted to conduct business in the State of California, which hold a current policy holder's alphabetic and financial size category rating of not less than A- V, according to the current Best's Key Rating Guide or a company of equal financial stability that is approved by Valley Water's Risk Manager. Non-Admitted companies may be substituted on a very limited basis at the Risk Manager's sole discretion.
5. **Self-Insured Retentions or Deductibles:** Any deductibles or self-insured retentions must be declared to and approved by Valley Water. At the option of Valley Water, either: the insurer shall reduce or eliminate such deductibles or self-insured retentions as respects Valley Water, its officers, officials, employees and volunteers; or the Consultant shall provide a financial guarantee satisfactory to the Entity guaranteeing payment of losses and related investigations, claim administration, and defense expenses. Consultant agrees that in the event of a claim they will pay down any agreed upon SIR in a prompt manner as soon as bills are incurred in order to trigger the insurance related to the SIR.
6. **Subconsultants:** The Consultant shall secure and maintain or shall be responsible for ensuring that all subconsultants performing the Contract Services secure and maintain all insurance coverages appropriate to their tier and scope of work in a form and from

**AMENDMENT NO. 4 TO AGREEMENT A3675A
REVISED APPENDIX FOUR
INSURANCE REQUIREMENTS**

- insurance companies reasonably acceptable to Valley Water.
7. **Amount of Liability not Limited to Amount of Insurance:** The insurance procured by Consultant for the benefit of Valley Water must not be deemed to release or limit any liability of Consultant. Damages recoverable by Valley Water for any liability of Consultant must, in any event, not be limited by the amount of the required insurance coverage.
 8. **Coverage to be Occurrence Based:** Except for Professional Liability, all coverage must be occurrence-based coverage. Claims-made coverage is not allowed.
 9. **Waiver of Subrogation:** Consultant agrees to waive subrogation against Valley Water to the extent any loss suffered by Consultant is covered by any Commercial General Liability policy, Automobile policy, Workers' Compensation policy described in **Required Coverages** above. Consultant agrees to advise its broker/agent/insurer and agrees to provide evidence (either through the Certificate of Insurance, endorsement or language in the insurance contract) that subrogation has been waived by its insurer.
 10. **Non-compliance:** Valley Water reserves the right to withhold payments to the Consultant in the event of material noncompliance with the insurance requirements outlined above.

**AMENDMENT NO. 4 TO AGREEMENT A3675A
REVISED APPENDIX FOUR
INSURANCE REQUIREMENTS**

CHECK LIST OF DOCUMENTS NEEDED

General Liability:	A.	Limits (\$2,000,000)	
	B.	Additional Insured (Endorsement)	
	C.	Waiver of Subrogation (COI, Endorsement or policy language)	
	D.	Primacy (COI, Endorsement or policy language)	
	E.	Cancellation Endorsement	
Auto Liability:	A.	Limits (\$2,000,000)	
	B.	Additional Insured (Endorsement)	
	C.	Waiver of Subrogation (COI, Endorsement or policy language)	
	D.	Primacy (COI, Endorsement or policy language)	
	E.	Cancellation Endorsement	
Umbrella:	A.	Limits (\$)	
	B.	Primacy (Endorsement or policy language)	
Workers Comp:	A.	Limits (\$1,000,000)	
	B.	Waiver of Subrogation (Endorsement or policy language)	
	C.	Cancellation Endorsement	
Professional Liability:	A.	Limits (\$5,000,000)	
	B.	Cancellation Endorsement	

Appendix IV ConsultantGL2AL2PL5_rev. 7.20.20/CAS rev. 9.8.20

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