

AGREEMENT FOR PROFESSIONAL SERVICES

THIS AGREEMENT, made and entered into on Sept. 12, 2017 by and between the City of St. Helena, located in the County of Napa, State of California (City), and GEI (Consultant).

RECITALS:

A. City desires to employ Consultant to furnish professional services in connection with the project described as Comprehensive Condition Assessment of Spillway, Phreatic Surface Investigation and Analysis and as-needed Dam Safety, Stability and Engineering Support for City of St. Helena Reservoir Facilities.

B. Consultant has represented that Consultant has the necessary expertise, experience, and qualifications to perform the required duties.

NOW, THEREFORE, in consideration of the mutual premises, covenants, and conditions herein contained, the parties agree as follows:

SECTION 1 – BASIC SERVICES

Consultant agrees to perform the services set forth in **Exhibit A, "Scope of Services"** and made part of this Agreement.

SECTION 2 – ADDITIONAL SERVICES

Consultant shall not be compensated for any services rendered in connection with its performance of this Agreement that are in addition to or outside of those set forth in this Agreement or **Exhibit A, "Scope of Services"**, unless such additional services and compensation are authorized in advance and in writing by the City Council or City Manager of the City.

SECTION 3 – TIME FOR COMPLETION

The time for completion of services shall be as identified in **Exhibit A, "Scope of Services"**.

SECTION 4 – COMPENSATION AND METHOD OF PAYMENT

A. Subject to any limitations set forth in this Agreement, City agrees to pay consultant the amount specified in Exhibit B, "Compensation", attached hereto and made a part hereof. Total compensation shall not exceed \$95,410, unless additional compensation is approved in accordance with Section 2.

B. Consultant shall furnish to City an original invoice for all work performed and expenses incurred during the preceding month. The invoice shall detail charges by the following categories if applicable: labor (by sub-category), travel, materials, equipment, supplies, subconsultant contracts, and miscellaneous expenses. City shall independently review each invoice submitted to determine whether the work performed and expenses incurred are in compliance with the provisions of this Agreement. If no charges or expenses are disputed, the

invoice shall be approved, and City will use its best efforts to cause Consultant to be paid within 30 days of receipt of invoice. If the City disputes any charges or expenses, the City will return the original invoice to Consultant for correction and resubmission. If the City reasonably determines, in its sole judgment, that the invoiced charges and expenses exceed the value of the services performed to date and that it is probable that the Agreement will not be completed satisfactorily within the contract price, City may retain all or a portion of the invoiced charges and expenses. Within thirty (30) days of satisfactory completion of the project, City shall pay the retained amount, if any, to Consultant.

C. Payment to the Consultant for work performed pursuant to this Agreement shall not be deemed to waive any defects in work performed by Consultant.

SECTION 5 – STANDARD OF PERFORMANCE

Consultant represents and warrants that it has the qualifications, experience and facilities necessary to properly perform the services required under this Agreement in a thorough, competent and professional manner. Consultant shall at all times faithfully, competently and to the best of its ability, experience and talent, perform all services described herein. In meeting its obligations under this Agreement, Consultant shall employ, at a minimum, generally accepted standards and practices utilized by persons engaged in providing services similar to those required of Consultant under this Agreement.

SECTION 6 – INSPECTION AND FINAL ACCEPTANCE

City may inspect and accept or reject any of Consultant's work under this Agreement, either during performance or when completed. City shall reject or finally accept Consultant's work within sixty (60) days after submitted to City, unless the parties mutually agree to extend such deadline. City shall reject work by a timely written explanation, otherwise Consultant's work shall be deemed to have been accepted. City's acceptance shall be conclusive as to such work except with respect to latent defects and fraud. Acceptance of any of Consultant's work by City shall not constitute a waiver of any of the provisions of this Agreement including, but not limited to, the sections pertaining to indemnification and insurance.

SECTION 7 – INSURANCE REQUIRED

Consultant shall procure and maintain for the duration of the contract insurance against claims for injuries to persons or damages to property which may arise from or in connection with the performance of the work hereunder by the Consultant, its agents, representatives, or employees, as indicated:

- A. Minimum Scope of Insurance. Coverage shall be at least as broad as:
1. Insurance Services Office Commercial General Liability coverage (occurrence form CG 0001).
 2. Insurance Services Office form number CA 0001 (Ed. 1/87) covering Automobile Liability, code 1 (any auto).
 3. Workers' Compensation insurance as required by the State of California and Employer's Liability Insurance.

- B. Minimum Limits of Insurance. Consultant shall maintain limits no less than:

1. General Liability: \$2,000,000 per occurrence for bodily injury, personal injury and property damage including operations, products and completed operations, as applicable. If Commercial General Liability Insurance or other form with a General Liability Insurance or other form with a general aggregate limit is used, either the general aggregate limit shall apply separately to this project/location or the general aggregate limit shall be twice the required occurrence limit.
2. Automobile Liability: \$2,000,000 per accident for bodily injury and property damage.
3. Employer's Liability: \$2,000,000 per accident for bodily injury or disease.

C. Professional Liability Insurance. When Consultant under this Agreement is duly licensed under California Business and Professions Code as an architect, landscape architect, environmental engineer or other professional engineer, or land surveyor ("design professional"), Consultant shall maintain at least \$2,000,000 of professional liability insurance.

D. Excess Limits. If Consultant maintains higher limits than the minimums shown above, City requires and shall be entitled to coverage for the higher limits maintained by Consultant. Any available insurance proceeds in excess of the specified minimum limits of insurance and coverage shall be available to the City.

E. Primary Coverage. For any claims related to this contract the Consultants insurance coverage shall be primary insurance as respects to City, its officers, officials, employees and volunteers. Any insurance or self-insurance maintained by the City, its officers, officials, employees, or volunteers shall be excess of Consultants insurance and shall not contribute with it.

F. Deductibles and Self-Insured Retentions. Any deductibles or self-insured retentions of \$25,000 or greater must be declared to and approved by the City.

G. Other Insurance Provisions. The commercial general liability and automobile liability policies are to contain, or be endorsed to contain, the following provisions:

1. The City, its agent, officers, officials, employees, and volunteers are to be covered as additional insured as respects: liability arising out of work or operations performed by the Consultant or Consultant's subconsultants; or automobile owned, leased, hired or borrowed by the Consultant.
2. For any claims related to Consultant's conduct while performing the work of this project, the Consultant's insurance coverage shall be primary insurance as respects the City, its agents, officers, officials, employees and volunteers. Any insurance or self-insurance maintained by the City, its agents, officers, officials, employees or volunteers shall be excess of the Consultant's insurance and shall not contribute with it.
3. Each insurance policy required by this clause shall be endorsed to state that coverage shall not be cancelled by either party, except after thirty (30) days prior written notice by certified mail, return receipt requested, has been given to the City.
4. Coverage shall not extend to any indemnity coverage for the active negligence of the additional insured in any case where an agreement to indemnify the additional insured would be invalid under Subsection (b) of Section 2782 of the Civil Code.

H. Waiver of Subrogation. Consultant's commercial general liability, automobile liability, workers' compensation, and employer's liability policies shall be endorsed with a waiver of subrogation. The insurance company, in its endorsement, agrees to waive all rights of subrogation against the City, its agents, officers, officials, employees and volunteers for losses paid under the terms of this policy which arises from the work performed by the named insured for the City.

I. The Acceptability of Insurers. Insurance is to be placed with insurers with a current A.M. Best's rating of no less than A: VII, unless otherwise acceptable to the City.

J. Verification of Coverage. Consultant shall furnish the City with original certificates and amendatory endorsements effecting coverage required by this clause. The endorsements should be on forms provided by the City or on forms that conform to City requirements. All certificates and endorsements are to be received and approved by the City before work commences. The City reserves the right to require complete, certified copies of all required insurance policies, including endorsements affecting the coverage required by these specifications at any time.

SECTION 8 – INDEMNIFICATION

A. Consultant shall indemnify and hold harmless City, its agents, officers, officials, employees, and volunteers from any and all claims, demands, suits, loss, damages, injury, and/or liability (including any and all costs and expenses in connection therewith), incurred by reason of any negligent or otherwise wrongful act or omission of Consultant, its officers, agents, employees and subcontractors, or any of them, under or in connection with this Agreement; and Consultant agrees at its own cost, expense and risk to defend any and all claims, actions, suits, or other legal proceedings brought or instituted against City, its agents, officers, officials, employees and volunteers, or any of them, arising out of such negligent or otherwise wrongful act or omission, and to pay and satisfy any resulting judgments.

B. When Consultant under this Agreement is duly licensed under California Business and Professions Code as an architect, landscape architect, professional engineer, or land surveyor ("design professional"), the provisions of this section regarding Consultant's duty to defend and indemnify apply only to claims that arise out of or relate to the negligence, recklessness, or willful misconduct of the design professional.

C. If any action or proceeding is brought against Indemnitees by reason of any of the matters against which Consultant has agreed to indemnify Indemnitees as provided above, Consultant, upon notice from City, shall defend Indemnitees at Consultant's expense by counsel acceptable to City, such acceptance not to be unreasonably withheld. Indemnitees need not have first paid for any of the matters to which Indemnitees are entitled to Indemnification in order to be so indemnified. The insurance required to be maintained by Consultant shall ensure Consultant's obligations under this section, but the limits of such insurance shall not limit the liability of Consultant hereunder. The provisions of this section shall survive the expiration or earlier termination of this Agreement.

D. The provisions of this section do not apply to claims to the extent occurring as a result of the City's sole negligence or willful acts or misconduct.

SECTION 9 – INDEPENDENT CONTRACTOR STATUS

A. Consultant is and shall at all times remain a wholly independent contractor and not an officer, employee or agent of City. Consultant shall have no authority to bind City in any manner or to incur an obligation, debt or liability of any kind on behalf of or against City, whether by contract or otherwise, unless such authority is expressly conferred under this Agreement or is otherwise expressly conferred in writing by City.

B. The personnel performing the services under this Agreement on behalf of Consultant shall at all times be under Consultant's exclusive direction and control. Neither City, nor any elected or appointed boards, officers, officials, employees or agents of City, shall have control over the conduct of Consultant or any of Consultant's officers, employees or agents, except as set forth in this Agreement. Consultant shall not at any time or in any manner represent that Consultant or any of Consultant's officers, employees or agents are in any manner officials, officers, employees or agents of City.

C. Neither Consultant, nor any of Consultant's officers, employees or agents, shall obtain any rights to retirement, health care or any other benefits which may otherwise accrue to City's employees. Consultant expressly waives any claim Consultant may have to any such rights.

SECTION 10 – CONFLICTS OF INTEREST

A. Consultant covenants that neither it, nor any officer or principal of its firm, has or shall acquire any interest, directly or indirectly, which would conflict in any manner with the interests of City or which would in any way hinder Consultant's performance of services under this Agreement. Consultant further covenants that in the performance of this Agreement, no person having any such interest shall be employed by it as an officer, employee, agent, or subcontractor without the express written consent of the City Manager. Consultant agrees to at all times avoid conflicts with the interests of City in the performance of this Agreement.

B. City understands and acknowledges that Consultant is, as of the date of execution of this Agreement, independently involved in the performance of non-related services for other governmental agencies and private parties. Consultant is aware of any stated position of City relative to such projects. Any future position of City on such projects shall not be considered a conflict of interest for purposes of this section.

SECTION 11 – OWNERSHIP OF DOCUMENTS

A. All original maps, models, designs, drawings, photographs, studies, surveys, reports, data, notes, computer files, files and other documents prepared, developed or discovered by Consultant in the course of providing any services pursuant to this Agreement shall become the sole property of City and may be used, reused or otherwise disposed of by City without the permission of the Consultant. When requested by City, but no later than three years after project completion, Consultant shall deliver to City all such original maps, models, designs, drawings, photographs, studies, surveys, reports, data, notes, computer files, files and other documents.

B. All copyrights, patents, trade secrets, or other intellectual property rights associated with any ideas, concepts, techniques, inventions, processes, improvements, developments, works of authorship, or other products developed or created by Consultant during the course of providing services (collectively the "Work Product") shall belong exclusively to City. The Work

Product shall be considered a “work made for hire” within the meaning of Title 17 of the United States Code. Without reservation, limitation, or condition, Consultant hereby assigns, at the time of creation of the Work Products, without any requirement of further consideration, exclusively and perpetually, any and all right, title, and interest Consultant may have in the Work Product throughout the world, including without limitation any copyrights, patents, trade secrets, or other intellectual property rights, all rights of reproduction, all rights to create derivative works, and the right to secure registrations, renewals, reissues, and extensions thereof.

SECTION 12 – CONFIDENTIAL INFORMATION; RELEASE OF INFORMATION

A. All information gained or work product produced by Consultant in performance of this Agreement shall be considered confidential, unless such information is in the public domain or already known to Consultant. Consultant shall not release or disclose any such information or work product to persons or entities other than City without prior written authorization from the City Manager, except as may be required by law.

B. Consultant, its officers, employees, agents or subcontractors, shall not, without prior written authorization from the City Manager or unless requested by the City Attorney of City, voluntarily provide declarations, letters of support, testimony at depositions, response to interrogatories or other information concerning the work performed under this Agreement. Response to a subpoena or court order shall not be considered “voluntary” provided consultant gives City notice of such court order or subpoena.

C. If Consultant, or any officer, employee, agent or subcontractor of Consultant, provides any information or work product in violation of this Agreement, then City shall have the right to reimbursement and indemnity from Consultant for any damages, costs and fees, including attorneys fees, caused by or incurred as a result of Consultant’s conduct.

D. Consultant shall promptly notify City should Consultant, its officers, employees, agents or subcontractors be served with any summons, complaint, subpoena, notice of deposition, request for documents, interrogatories, request for admissions or other discovery request, court order or subpoena from any party regarding this Agreement and the work performed thereunder. City retains the right, but has no obligation, to represent Consultant or be present at any deposition, hearing or similar proceeding. Consultant agrees to cooperate fully with City and to provide City with the opportunity to review any response to discovery requests provided by Consultant. However, this right to review any such response does not imply or mean the right by City to control, direct, or rewrite such response.

SECTION 13 – SUSPENSION OF WORK

City may, at any time, by ten (10) days written notice suspend further performance by Consultant. All suspensions shall extend the time schedule for performance in a mutually satisfactory manner and Consultant shall be paid for services performed and reimbursable expenses incurred prior to the suspension date.

SECTION 14 – COMPLIANCE WITH LAW

Consultant shall keep itself informed of and comply with all applicable federal, state and local laws, statutes, codes, ordinances, regulations and rules in effect during the term of this

Agreement. Consultant shall obtain any and all licenses, permits and authorizations necessary to perform the services set forth in this Agreement. Neither City, nor any elected or appointed boards, officers, officials, employees or agents of City, shall be liable, at law or in equity, as a result of any failure of Consultant to comply with this section.

SECTION 15 – COMPLIANCE WITH CIVIL RIGHTS

During the performance of this contract, Consultant agrees as follows:

A. Equal Employment Opportunity. In connection with the execution of this Agreement, Consultant shall not discriminate against any employee or applicant for employment because of race, religion, color, ancestry, age, sexual orientation, gender, gender identity and gender expression as protected categories specifically and expressively in that category, physical handicap, medical condition, marital status, sex, or national origin. Such actions shall include, but not be limited to, the following: employment, promotion, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rate of pay or other forms of compensation; and selection for training including apprenticeship.

B. Nondiscrimination Civil Rights Act of 1964. Consultant will comply with all federal regulations relative to nondiscrimination to federally-assisted programs.

C. Solicitations for Subcontractors including Procurement of Materials and Equipment. In all solicitations, either by competitive bidding or negotiations, made by Consultant for work to be performed under a subcontract, including procurement of materials or leases of equipment, each potential subcontractor, supplier, or lessor shall be notified by Consultant of Consultant's obligations under this Agreement and the regulations relative to nondiscrimination.

SECTION 16 – RECORDS

A. Records of Consultant's direct labor costs, payroll costs, and reimbursable expenses pertaining to this project covered by this Agreement will be kept on a generally recognized accounting basis and made available to City if and when required for a period of up to 3 years from the date of Consultant's final invoice.

B. Consultant's records and design calculations will be available for examination and audit if and as required. The cost of any reproductions shall be paid by City.

SECTION 17 – COOPERATION BY CITY

All public information, data, reports, records, and maps as are existing and available to City as public records, and which are necessary for carrying out the work as outlined in the Exhibit A, "Scope of Services", shall be furnished to Consultant in every reasonable way to facilitate, without undue delay, the work to be performed under this Agreement.

SECTION 18 – NOTICES

All notices required or permitted to be given under this Agreement shall be in writing and shall be personally delivered, or sent by facsimile or first class mail, addressed as follows:

To City: City Manager
1480 Main Street
St. Helena, California 94574

To Consultant: Richard Sanchez
GEI Consultants
2868 Prospect Park Drive, Suite 400
Rancho Cordova, CA 94617

Notice shall be deemed effective on the date personally delivered or transmitted by facsimile, or, if mailed, three (3) days after deposit in the custody of the U.S. Postal Service.

SECTION 19 – TERMINATION

A. City may terminate this Agreement, with or without cause, at any time by giving ten (10) days written notice of termination to Consultant. If such notice is given, Consultant shall cease immediately all work in progress.

B. If either Consultant or City fail to perform any material obligation under this Agreement, then, in addition to any other remedies, either Consultant, or City may terminate this Agreement immediately upon written notice.

C. Upon termination of this Agreement by either Consultant or City, all property belonging to City which is in Consultant's possession shall be delivered to City. Consultant shall furnish to City a final invoice for work performed and expenses incurred by Consultant, prepared as set forth in this Agreement.

SECTION 20 – ATTORNEY FEES

If litigation or other proceeding is required to enforce or interpret any provision of this Agreement, the prevailing party in such litigation or other proceeding shall be entitled to an award of reasonable attorneys' fees, costs and expenses, in addition to any other relief to which it may be entitled. In addition, any legal fees, costs and expenses incurred to enforce the provisions of this Agreement shall be reimbursed to the prevailing party.

SECTION 21 – ENTIRE AGREEMENT

This Agreement, including the attached Exhibits, is the entire, complete, final and exclusive expression of the parties with respect to the matters addressed therein and supersedes all other agreements or understandings, whether oral or written, or entered into between Consultant and City prior to the execution of this Agreement. No statements, representations or other agreements, whether oral or written, made by any party which are not embodied herein shall be valid and binding unless in writing duly executed by the parties or their authorized representatives.

SECTION 22 – SUCCESSORS AND ASSIGNS

This Agreement shall be binding on the heirs, executors, administrators, successors and assigns of the parties. However, this Agreement shall not be assigned by Consultant without written consent of the City.

SECTION 23 – CONTINUITY OF PERSONNEL

Consultant shall make every reasonable effort to maintain the stability and continuity of Consultant's staff assigned to perform the services required under this Agreement. Consultant shall notify City of any changes in Consultant's staff assigned to perform the services required under this Agreement, prior to any such performance.

SECTION 24 – DEFAULT

In the event that Consultant is in default under the terms of this Agreement, the City shall not have any obligation or duty to continue compensating Consultant for any work performed after the date of default and may terminate this Agreement immediately by written notice to Consultant.

SECTION 25 – WAIVER

Waiver by any party to this Agreement of any term, condition, or covenant of this Agreement shall not constitute a waiver of any other term, condition, or covenant. Waiver by any party of any breach of the provisions of this Agreement shall not constitute a waiver of any other provision, nor a waiver of any subsequent breach or violation of any provision of this Agreement. Acceptance by City of any work or services by Consultant shall not constitute a waiver of any of the provisions of this Agreement.

SECTION 26 – LAW TO GOVERN; VENUE

This Agreement shall be interpreted, construed and governed according to the laws of the State of California. In the event of litigation between the parties, venue in state trial courts shall lie exclusively in the County of Napa. In the event of litigation in a U.S. District Court, venue shall lie exclusively in the Northern District of California, in San Francisco.

SECTION 27 – SEVERABILITY

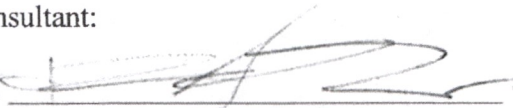
If any term, condition or covenant of this Agreement is declared or determined by any court of competent jurisdiction to be invalid, void or unenforceable, the remaining provisions of this Agreement shall not be affected thereby and the Agreement shall be read and construed without the invalid, void or unenforceable provision(s).

SECTION 28 – SPECIAL PROVISIONS

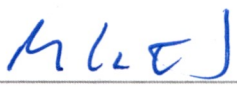
This Agreement is subject to the following special provisions: none.

IN WITNESS WHEREOF, the parties hereto have accepted, made, and executed this Agreement upon the terms, conditions, and provisions above stated, the day and year first above written.

Consultant:

By: 
Name: RICHARD SANCHEZ
Title: VICE PRESIDENT

City:

By: 
Name: Mark Prestwich
Title: City Manager

Approved as to Form:

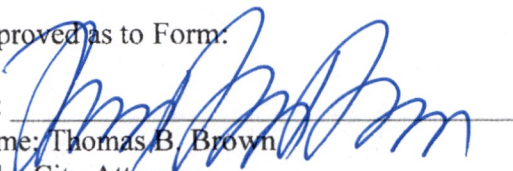
By: 
Name: Thomas B. Brown
Title: City Attorney

Exhibit A

Scope of Services

Tasks:

1 Comprehensive Spillway Assessment at Bell Canyon Reservoir

1.1 Data Collection and Review

Review available geologic maps and other available maps from the City's files. Investigation work includes reviewing any existing repairs and maintenance work completed by the City, comparing the current design to modern spillway design practices and performing a condition assessment of the following:

- Concrete headworks and lining
- Existing drainage and concrete joint system
- Existing concrete cracks and deterioration
- Potential for slab undermining or hydraulic jacking
- Potential for geologic hazards

GEI will review the available information to identify potential data gaps, evaluate the physical characteristics and condition of the spillway relative to current standards and guidelines, and identify potential concerns related to design and performance that may require further investigation or follow-up actions. Results of our review will be used to guide planning of the field inspections. Deficiencies and geologic hazards, if any, will be identified and informed regarding overall spillway safety. In addition, we will provide recommendations for supplementary studies, if needed, based on the review of existing project information.

1.2 Spillway Investigation, Inspection and Geologic Mapping

Prior to conducting the field inspection of Bell Canyon Dam spillway, GEI will prepare a brief work plan for review by the City and ultimate submission to DSOD for approval. GEI will also prepare a project-specific Health and Safety Plan (HASP), which can be provided to the City upon request.

The proposed field inspection of the spillway will be based on a visual assessment of the condition of concrete during a one-day inspection by a civil engineer and an engineering geologist. Where accessible, the GEI inspection team will visually inspect the condition of the existing spillway, including the concrete components, exposed bedrock, foundation conditions, and drainage systems. The inspection will include performing qualitative soundings along the spillway by striking the concrete surface with a rock hammer and noting any hollow or "drummy" zones that may indicate voids beneath the concrete. The visual assessment will also focus on the condition of the panel joints and any previous repairs that may have been completed. The conditions of concrete surfaces will be tabulated, noting items such as: concrete spalling, exposed aggregate and/or reinforcing steel, cracking, previous repairs, condition and type of existing repairs, offsets along construction joints, weep holes, etc.

GEI will inspect the foundation conditions of the exposed bedrock that supports the spillway weir structure and the impact area downslope of the spillway. This work will also involve geologic mapping addressing rock types; qualitative evaluation of rock strength and weathering; and the presence, orientations, and characteristics of discontinuities, foliations, bedding, shears, fractures, etc.

The condition assessment will include close visual inspection of:

- Spillway configuration and components to confirm that they are consistent with “as-built” drawings and available design/construction documentation
- Hydraulic control structures, including sills, wier, and flashboard structures for evidence of damage, deterioration, or distress (including foundation conditions)
- Condition of spillway channel for susceptibility to erosion, including the presence of soil, loose, weak, weathered, and/or closely jointed rock
- Rock joints and fractures with possible adverse orientations and conditions that may be susceptible to plucking and scour
- Channel and cut slopes with adverse joint orientations, evidence of rockfall, undermining, and other evidence of potential instability
- Evidences of past erosion such as eroded holes and channels or debris deltas at base of spillway

GEI recognizes that the unlined portions of the spillway channel at each facility may present treacherous terrain and we will plan and conduct our inspections accordingly. GEI will work with the City to identify any additional site-specific hazards and address those concerns, as appropriate.

Photographic records of observed conditions will be maintained during the inspection and will be incorporated in the Technical Memorandum. Careful documentation of deficiencies will be summarized and will include locations and any measurements taken.

1.3 Spillway Evaluation and Prepare Technical Memorandum

The various components outlined in the data collection and spillway inspection sections above will all be considered as part of the evaluation. Project components will be compared to the current state of practice for design and construction. This comparison will be used along with deficiencies noted, uncertainties, and historical performance to help evaluate the adequacy of the spillway. Any further deficiencies and geologic hazards, if any, determined from our field inspections will be identified and reported as they relate to overall spillway safety.

A final technical memorandum will be prepared for Bell Canyon Dam spillway. The memorandum will include our review of documents, details of our field inspection findings, and our assessments, and will identify any areas of concern such as potential defects, areas requiring repair, or other significant observations.

Based on the completeness of information obtained from the document review, City personnel discussions, and field inspections, a more detailed site investigation may be required to provide supporting information for completing this assessment. We will advise the City of the potential or need for further site investigation as the information becomes available

1.4 Initial Meeting and On-going Coordination

GEI has budgeted additional time for a meeting and on-going coordination with the City and DSOD following the evaluation to discuss any further action necessary.

2 Phreatic Surface Investigation and Analysis at Bell Canyon Reservoir

1.1 File Review and Subsurface Characterization

For each dam, an understanding of the foundation characteristics, surface preparation, embankment material characteristics and construction methods, and assigned engineering properties will be of most importance to the seepage and stability evaluation. Subsurface characterization for the dams will be based on review of available information provided by the City to GEI, including but not limited to: as-built documents, construction records, geotechnical strength test results, drawings and specifications, historic performance data, and prior geotechnical and geologic studies. Cross section drawings of each dam will be developed to show the dam geometry, interpreted zoning or stratigraphy, and maximum normal water levels.

If deemed necessary, we will also obtain and review documents at DSOD's office in Sacramento. Following review of available documents, GEI will assess whether additional subsurface explorations and testing are needed for the evaluations. If additional subsurface explorations and testing are needed, GEI will discuss options with the City for developing a separate scope and budget for these items.

1.2 Seepage and Slope Stability Analysis

Following review of the available information, GEI will develop two-dimensional seepage and slope stability models of Bell Canyon Dam based on each dam's maximum section geometry. Based on our preliminary review of a recent Kleinfelder memorandum entitled "Comparison of Recent Bell Canyon Dam Piezometer Readings" (dated April 2017), we understand that recent readings from piezometers in Bell Canyon Dam have indicated an elevated phreatic surface in the dam. Thus, for the present evaluations of seepage and slope stability, we recommend a phased approach to the geotechnical seepage and stability analyses.

For the current phase of work, we recommend steady-state seepage and slope stability analyses to evaluate whether adequate factors of safety exist for (1) the downstream slope for long-term (steady-state) slope stability, and (2) the upstream slope for rapid drawdown slope stability. Seismic stability and deformation analyses of the dams may be recommended for a later phase of work, pending the results of the long-term and rapid drawdown stability analyses.

Seepage and stability analyses will be performed using the GeoStudio computer programs SEEP/W and SLOPE/W, respectively. Strength parameters and permeabilities estimated in subtask 3.1 will be used in the analyses. Phreatic surfaces for stability analysis will be based on steady-state seepage analyses, but will be compared against available piezometer data, measured groundwater levels encountered in past subsurface explorations, and available information regarding dam performance.

1.3 Draft Geotechnical Evaluation Memoranda

GEI will develop a Geotechnical Evaluation Memoranda to present the results of GEI's evaluations in the preceding subtasks of Task 3. GEI will prepare draft memoranda for the City to review and will address the City's comments prior to submitting revised draft memoranda to DSOD for their review. Along with

submission of the memoranda to DSOD, GEI will attend a combined in-person meeting with DSOD to review the evaluation results for both dams. GEI will finalize the memoranda following receipt of the DSOD's comments.

Assumptions related to this task include the following:

- The City will provide GEI with recent topography to be used in the development of the seepage and stability models.

Sufficient information is available to estimate seepage and stability properties for analysis.

- No new explorations or laboratory testing will be performed by GEI.

1.3.1 Address City's Comments

Assumes a single round of revision to the draft Geotechnical Evaluation Memoranda to address the City's Comments. The City's comments will be received within three weeks of receiving draft memoranda.

1.3.2 Meeting with DSOD

One in person meeting with DOSD at DSOD offices in Sacramento

1.3.3 Address DSOD Comments and Finalize Memoranda

A single round of revision to the final Geotechnical Evaluation Memoranda to address DSOD comments.

3 As-need Dam Safety, Stability and Engineering Support for City of St. Helena Reservoir Facilities

Under task 3 Work will be identified on an as-needed, on call basis by the City of St. Helena. Work will be billed according to the schedule of rates included in Exhibit B2.

Exhibit B1

Compensation

Task	Description	Cost
1.1	Collection and Review of Background Information	\$9,596
1.2	Spillway Investigation and Geologic Mapping	\$8,615
1.3	Spillway Evaluation and Preparation of Technical Memorandum	\$20,384
1.4	Initial Meeting and On-going Coordination	\$1,896
2.1	File Review and Subsurface Characterization	\$8,500
2.2	Seepage and Slope Stability Analysis	\$6,550
2.3	Draft Geotechnical Evaluation Memoranda	\$9,204
2.3.1	Address City Comments	\$975
2.3.2	Meeting with DSOD	\$1,770
2.3.3	Address DSOD Comments and Finalize Memoranda	\$2,920
3	As-need Dam Safety, Stability and Engineering Support for City of St. Helena Reservoir Facilities	\$25,000
	Total	\$95,410

Exhibit B2

Schedule of Rates

FEE SCHEDULE AND PAYMENT TERMS



FEE SCHEDULE

<u>Personnel Category</u>	<u>Hourly Billing Rate</u> <u>\$ per hour</u>
Staff Professional – Grade 1	\$ 110
Staff Professional – Grade 2	\$ 121
Project Professional – Grade 3	\$ 133
Project Professional – Grade 4	\$ 149
Senior Professional – Grade 5	\$ 176
Senior Professional – Grade 6	\$ 201
Senior Professional – Grade 7	\$ 238
Senior Consultant – Grade 8	\$ 267
Senior Consultant – Grade 9	\$ 330
Senior Principal – Grade 10	\$ 330

Senior CADD Drafter and Designer	\$ 133
CADD Drafter / Designer and Senior Technician	\$ 121
Field Professional	\$ 100
Technician, Word Processor, Administrative Staff	\$ 99
<u>Office Aide</u>	<u>\$ 77</u>

These rates are billed for both regular and overtime hours in all categories.

Rates will increase up to 5% annually, at GEI's option, for all contracts that extend beyond twelve (12) months after the date of the contract. Rates for Deposition and Testimony are increased 1.5 times.

OTHER PROJECT COSTS

Subconsultants, Subcontractors and Other Project Expenses: - All costs for subconsultants, subcontractors and other project expenses will be billed at cost plus a 15% service charge. Examples of such expenses ordinarily charged to projects are subconsultants; subconsultants: chemical laboratory charges; rented or leased field and laboratory equipment; outside printing and reproduction; communications and mailing charges; reproduction expenses; shipping costs for samples and equipment; disposal of samples; rental vehicles; fares for travel on public carriers; special fees for insurance certificates, permits, licenses, etc.; fees for restoration of paving or land due to field exploration, etc.; state sales and use taxes and state taxes on GEI fees.

Billing Rates for Specialized Technical Computer Programs: - Computer usage for specialized technical programs will be billed at a flat rate of \$10.00 per hour in addition to the labor required to operate the computer.

Field and Laboratory Equipment Billing Rates: - GEI-owned field and laboratory equipment such as pumps, sampling equipment, monitoring instrumentation, field density equipment, portable gas chromatographs, etc. will be billed at a daily, weekly, or monthly rate, as needed for the project. Expendable supplies are billed at a unit rate.

Transportation and Subsistence: - Automobile expenses for GEI or employee owned cars will be charged at the rate per mile set by the Internal Revenue Service for tax purposes plus tolls and parking charges or at a day rate negotiated for each project. When required for a project, four-wheel drive vehicles owned by GEI or the employees will be billed at a daily rate appropriate for those vehicles. Per diem living costs for personnel on assignment away from their home office will be negotiated for each project.

PAYMENT TERMS

Invoices will be submitted monthly or upon completion of a specified scope of service, as described in the accompanying contract (proposal, project, or agreement document that is signed and dated by GEI and CLIENT).

Payment is due upon receipt of the invoice. Interest will accrue at the rate of 1% of the invoice amount per month, for amounts that remain unpaid more than 30 days after the invoice date. All payments will be made by either check or electronic transfer to the address specified by GEI and will include reference to GEI's invoice number.