

Tahoe Sierra IRWM Drought Preparedness Project
Attachment 4 - Work Summary
Tahoe Sierra Regional Water Conservation Project

The following work summary details the anticipated tasks required to implement the Regional Water Conservation Project among South Tahoe Public Utility District (STPUD), North Tahoe Public Utility District (NTPUD), Tahoe City Public Utility District (TCPUD), and outreach will be performed for participation of the Washoe Tribe of California and Nevada at the Woodfords, CA community. Per the grant Attachment 5, budget summary table, the Project includes the following tasks and subtasks:

Task A: Direct Project Administration

Task A includes project administration, reporting and labor compliance.

A.1 Administration and Reporting: STPUD will be acting as the lead agency for this regional water conservation project, as well as the lead agency for the Tahoe Sierra IRWM Drought Preparedness Project. The first administrative milestone will be an executed grant agreement between DWR and STPUD (assumed grant award date of October 16, 2014). Quarterly invoices will be submitting in conjunction with the Tahoe Sierra Integrated Regional Water Management (IRWM) group. Project reporting includes preparation and timely submittal of grant deliverables, including quarterly progress reports, and a final report upon completion of the Project. The STPUD has successfully implemented previous Proposition 84 funded projects as lead of the Tahoe Sierra IRWM group and is intimately familiar with reporting requirements and associated costs. Task A.1 deliverables include: executed grant agreement, quarterly invoices, quarterly progress reports and a final Project report.

A.2 Labor Compliance Program: The STPUD will ensure all construction work financed in any part by Proposition 84 partners adheres to a labor compliance program, pursuant to California Labor Code (CLC) 1771.5(b). This item has been identified as an ongoing task in the Project schedule (Attachment 6) throughout the implementation/construction process.

Task B: Land Purchase/Easement

No easement or land purchase is required.

Task C: Planning/Design/Engineering/Environmental Documentation

Task C.1 Planning and Design: The Regional Water Conservation Program is based on planning and design of Best Management Practices of the California Urban Water Conservation Council and implements several of these water saving BMP's region-wide. Planning and design of the program has been 100% completed, and deliverables for this task include: Informational brochures on the water conservation program; applications for participation in the program; and data management system to track water savings.

Task C.2 Environmental Documentation: The Project has been determined to be CEQA exempt and an NOE has been filed for this project so this task is 100% complete. The deliverable for this task is the CEQA notice of determination filed with El Dorado County.

Task D: Construction/Implementation

Task D.1 Turf Removal: Residential and commercial turf buy back at an estimated 93,334 sq. feet of turf removal. Deliverables for Task D.1 include: Completed participant applications; pre- and post-pictures of landscaping; data management reports of water savings.

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Task D. 2 Residential Incentives for Irrigation Water Saving Devices: Project includes approximately 67 installations of residential irrigation smart timers. Deliverables for Task D.2 include: Completed participant applications; data management reports of water savings.

Task D.3 Commercial Incentives for Irrigation Water Saving Devices: Project includes approximately 60 installations of commercial irrigation smart timers. Deliverables for Task D.3 include: Completed participant applications; data management reports of water savings.

Task D.4 Residential Water Saving Appliance Rebates: Project includes approximately 400 high efficiency washing machine rebates and 375 ultra-low flow toilet rebates. Deliverables for Task D.4 include: Completed participant applications; data management reports of water savings.

Task D.5 Commercial Water Saving Appliance Rebates: Project includes approximately 110 high efficiency washing machine rebates. Deliverables for Task D.5 include: Completed participant applications; data management reports of water savings.

Task E: Environmental Compliance/Mitigation/Enhancement

Environmental compliance is CEQA NOE listed in Task C above.

Task F: Construction/Implementation Administration

Task F includes all work necessary to assure proper implementation, monitoring and reporting requirements and will be performed by STPUD Water Conservation Program staff.

Task G: Other Costs

There are no tasks under this category.

Task H: Construction/Implementation Contingency

There are no tasks under this category.

Attachment 4 - Work Summary

Squaw Valley Public Service District (SVPSD) & Squaw Valley Mutual Water Company (SVMWC) Interconnection Facility Project

The following work summary details the anticipated tasks required to implement the SVPSD & SVMWC Interconnection Facility Project (Project). Per the grant Attachment 5, budget summary table, the Project includes the following tasks and subtasks:

Task A: Direct Project Administration

Task A includes project administration, reporting and labor compliance.

A.1 Administration and Reporting: The first administrative milestone will be an executed grant agreement with lead agency STPUD approved by the SVPSD & SVMWC Board of Directors and signed by the Board's designee (assumed grant award date of October 16, 2014). Quarterly invoices will be submitting in conjunction with the Tahoe Sierra Integrated Regional Water Management (IRWM) group. Project reporting includes preparation and timely submittal of grant deliverables, including quarterly progress reports, and a final report upon completion of the Project. Task A.1 deliverables include: an executed grant agreement, quarterly invoices, quarterly progress reports and a final Project report.

A.2 Labor Compliance Program: The SVPSD will ensure all work financed in any part by Proposition 84 adheres to a labor compliance program, pursuant to California Labor Code (CLC) 1771.5(b). This item has been identified as an ongoing task in the Project schedule (Attachment 6) throughout the construction contract process.

Task B: Land Purchase/Easement

Most of the project will be located within the Placer County Road Right of Way on Christy Lane. However, a connecting pipeline and pump station drain line will be located in the common area of the Valley View Condominiums, requiring easements. This task is 0% complete. Deliverables for this task item include: Easement documentation.

Task C: Planning/Design/Engineering/Environmental Documentation

Task C.1 Planning and Design: The planning phase of the project was completed in 2012 with a preferred site analysis. SVPSD contracted with Shaw Engineering in March 2014 to engineer and design the project. The project design is presently 75 % complete pending electrical/instrumentation. Final design is expected within 30 days. Deliverables for this task item include: 100% final planning and design documentation.

Task C.2 Environmental Documentation: Task C.2 includes work to complete the CEQA analysis. The Project is anticipated to be exempt from CEQA but formal determination will be made following completion of the 100% design package. SVPSD will be responsible for completion and filing of the CEQA NOE documentation. The deliverable for this task is: CEQA notice of determination filed with Placer County.

Task C.3 Permitting: The Project is anticipated to require a Placer County encroachment permit for work within the County ROW. The deliverable for this task is: Encroachment permit.

Task D: Construction/Implementation

Task D.1 Bidding/Contracting: Task D.1 includes work to bid the Project in accordance with competitive bid practices, including bid advertisement, pre-bid meeting, bid documentation (bid addenda), public bid opening and award of the Project (to be completed by March 1, 2015).

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Squaw Valley Public Service District (SVFPSD) & Squaw Valley Mutual Water Company (SVMWC) Interconnection Facility Project

This task also includes preparation of conformed drawings (based on bid addenda changes). Deliverables associated with this task include advertisement for bid, the pre-bid meeting agenda, bid addenda (if issued), evaluation of bids, conformed bid documents and the Project Notice of Award.

Task D.2 Pre and Post-Construction: Pre construction tasks include materials testing by a geo-technical sub consultant and post construction tasks include the services of an electrical engineer to verify all controls are properly installed. Circuit testing, and verification that meters and pumping systems perform as designed will also be evaluated. Deliverables associated with this task include: materials testing analysis and electrical testing results.

Task D.3 Construction: Project construction is scheduled to begin on April 1, 2015. This task includes all work to construction the Project, to be completed by the lowest responsible bidder. Deliverables for this task include: as-built plans and the Project Notice of Completion, filed with Placer County following completion of construction.

Task E: Environmental Compliance/Mitigation/Enhancement

The tasks associated with Environmental Compliance/Mitigation Enhancement are listed in Task C above.

Task F: Construction Administration

Task F includes all work necessary to assure proper construction of the Project in conformance with the plans and specification, permit requirements, and funding requirements. This work includes construction project management by SVPSD staff. Deliverables for this task include: final electronic copy of construction inspections.

Task G: Other Costs

The final piece of the project will be to negotiate an operating agreement between the SVPSD and the SVMWC outlining emergency response procedures, operating parameters, and billing protocol for the facility.

Task H: Construction/Implementation Contingency

Task H includes an industry-standard 10% contingency on the Project capital cost.

Attachment 4 - Work Summary

Tahoe City Main Emergency Water Supply Project

The following work summary details the anticipated tasks required to implement the Tahoe City Main Emergency Water Supply Project (Project). Per the grant Attachment 5, budget summary table, the Project includes the following tasks and subtasks:

Task A: Direct Project Administration

Task A includes project administration, reporting and labor compliance.

A.1 Administration and Reporting: The first administrative milestone will be an executed grant agreement with lead agency STPUD approved by the Tahoe City Public Utility District (TCPUD) Board of Directors (Board) and signed by the Board's designee (assumed grant award date of October 16, 2014). Quarterly invoices will be submitting in conjunction with the Tahoe Sierra Integrated Regional Water Management (IRWM) group. Project reporting includes preparation and timely submittal of grant deliverables, including quarterly progress reports, and a final report upon completion of the Project. Task A.1 deliverables include: executed grant agreement, quarterly invoices, quarterly progress reports and a final Project report.

A.2 Labor Compliance Program: The TCPUD will ensure all work financed in any part by Proposition 84 adheres to a labor compliance program, pursuant to California Labor Code (CLC) 1771.5(b). This item has been identified as an ongoing task in the Project schedule (Attachment 6) throughout the construction contract process.

Task B: Land Purchase/Easement

No easement or land purchase is required.

Task C: Planning/Design/Engineering/Environmental Documentation

Task C.1 Planning and Design: On March 21, 2014, the TCPUD Board approved a professional services agreement with Auerbach Engineering Corporation (Auerbach) of Tahoe City, California for planning and design of the Project. Auerbach is a local engineering firm with an excellent working history with the TCPUD and a strong understanding of the local permitting requirements, capable of delivering the Project in an expedited, efficient manner. Auerbach's scope of work includes preliminary engineering, geotechnical engineering, utility coordination, California Environmental Quality Act (CEQA) technical support, permitting, design and completion of construction bid documents (plans, specifications, and engineers' estimate of probable cost).

Deliverables to be completed as part of Task C.1 and their relative percent completion are as follows:

- Technical Design Memorandum – 75% complete
- Project Basemap – 25% complete
- 50% design package – 25% complete
- 90% design package – 0% complete
- 100% design package – 0% complete
- Construction bid package – 0% complete

Task C.2 Environmental Documentation: Task C.2 includes work to complete the CEQA analysis. The Project is anticipated to be exempt from CEQA but formal determination will be made following completion of the 90% design package. Auerbach will assist the TCPUD with any technical support required for completion of the CEQA analysis. TCPUD will be responsible for completion and filing of CEQA documentation. The deliverable for this task is the CEQA notice of determination filed with Placer County.

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Tahoe City Main Emergency Water Supply Project

Task C.3 Permitting: The Project is anticipated to require three (3) permits, as follows: a Placer County encroachment permit for work within the County ROW, a Caltrans encroachment permit for work within the State ROW and a Tahoe Regional Planning Agency (TRPA) permit. Both Auerbach and TCPUD have extensive experience securing these types of permits for similar projects and will submit permit applications following completion of the 90% design package. Task C.2 deliverables and their relative percent completion are as follows:

- Placer County Encroachment Permit – 0% complete
- Caltrans Encroachment Permit – 0% complete
- TRPA Permit – 0% complete

Task D: Construction/Implementation

Task D.1 Bidding/Contracting: Task D.1 includes work to bid the Project in accordance with competitive bid practices, including bid advertisement, pre-bid meeting, bid documentation (bid addenda), public bid opening and award of the Project (to be completed by April 1, 2015). This task also includes preparation of conformed drawings (based on bid addenda changes). Deliverables associated with this task include advertisement for bid, the pre-bid meeting agenda, bid addenda (if issued), evaluation of bids, conformed bid documents and the Project Notice of Award.

Task D.2 Construction: Project construction is scheduled to begin on May 1, 2015. Due to the environmental regulatory requirements of construction within the Lake Tahoe Basin, construction, i.e. earthmoving/earth disturbing operations, are only allowed between May 1 and October 15 each year. This task includes all work to construction the Project, to be completed by the lowest responsible bidder. Deliverables associated with this task include the as-built plans and the Project Notice of Completion, filed with Placer County following completion of construction.

Task E: Environmental Compliance/Mitigation/Enhancement

The environmental compliance/mitigation/enhancement tasks are listed in Task C above.

Task F: Construction Administration

Task F includes all work necessary to assure proper construction of the Project in conformance with the plans and specification, permit requirements, and funding requirements. This work includes construction project management by TCPUD staff, and due to limited internal staff resources, construction management and materials testing and inspection by a third party consultant (to be determined). Deliverables for this task include a final electronic copy of construction inspection and materials testing records.

Task G: Other Costs

Task G includes Project permit fees, as follows: a California Department of Transportation (Caltrans) Encroachment Permit, a Placer County Encroachment Permit, and Tahoe Regional Planning Agency (TRPA) Permit.

Task H: Construction/Implementation Contingency

Task H includes an industry-standard 10% contingency on the Project capital cost, which is typically encumbered by the TCPUD at the time of construction contract award.

Attachment 4 - Work Summary

Lukins Waterline Installation Project

The following work summary details the anticipated tasks required to implement the Lukins Brothers Water Company, Inc. Waterline Installation Project Phase 2 (Project). Per the grant Attachment 5, budget summary table, the Project includes the following tasks and subtasks:

Task A: Direct Project Administration

Task A includes project administration, reporting and labor compliance.

A.1 Administration and Reporting: The first administrative milestone will be an executed grant agreement with lead agency STPUD. Quarterly invoices will be submitting in conjunction with the Tahoe Sierra Integrated Regional Water Management (IRWM) group. Project reporting includes preparation and timely submittal of grant deliverables, including quarterly progress reports, and a final report upon completion of the Project. Task A.1 deliverables include: executed grant agreement; quarterly invoices, quarterly progress reports and a final Project report.

A.2 Labor Compliance Program: The LUKINS will ensure all work financed in any part by Proposition 84 adheres to a labor compliance program, pursuant to California Labor Code (CLC) 1771.5(b). This item has been identified as an ongoing task in the Project schedule (Attachment 6) throughout the construction contract process.

Task B: Land Purchase/Easement

No easement or land purchase is required.

Task C: Planning/Design/Engineering/Environmental Documentation

Task C.1 Planning and Design: Project is currently in design phase (90% complete). Lukins contracted a Draft Design Report for this project in 2009 and this draft report is being utilized for the final 100% plans and specifications.

Deliverables to be completed as part of Task C.1 and their relative percent completion are as follows:

- Project Basemap – 90% complete
- 50% design package – 100% complete
- 90% design package – 100% complete
- 100% design package – 90% complete
- Construction bid package – 0% complete

Task C.2 Environmental Documentation: Task C.2 includes work to complete the CEQA analysis. The Project is anticipated to be exempt from CEQA but formal determination will be made following completion of the 90% design package. The deliverable for this task is the CEQA notice of determination filed with El Dorado County.

Task C.3 Permitting: The Project is anticipated to require two (2) permits, as follows: a City of South Lake Tahoe permit for work within the City ROW, and a Tahoe Regional Planning Agency (TRPA) permit. Lukins will submit permit applications following completion of the 90% design package. Task C.2 deliverables and their relative percent completion are as follows:

- City of South Lake Tahoe Encroachment Permit – 0% complete
- TRPA Permit – 0% complete

Task D: Construction/Implementation

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Lukins Waterline Installation Project

Task D.1 Bidding/Contracting: Task D.1 includes work to bid the Project in accordance with competitive bid practices, including bid advertisement, pre-bid meeting, bid documentation (bid addenda), public bid opening and award of the Project (to be completed by April 15, 2015). Deliverables associated with Task D.1 include: advertisement for bid, the pre-bid meeting agenda, bid addenda (if issued), evaluation of bids, and the Project Notice of Award.

Task D.2 Construction: Project construction is scheduled to begin on May 1, 2015. Due to the environmental regulatory requirements of construction within the Lake Tahoe Basin, construction, i.e. earthmoving/earth disturbing operations, are only allowed between May 1 and October 15 each year. This task includes all work to construction the Project, to be completed by the lowest responsible bidder. Deliverables associated with this task include the as-built plans and the Project Notice of Completion, filed with El Dorado County following completion of construction.

Task E: Environmental Compliance/Mitigation/Enhancement

The tasks associated with Environmental Compliance/Mitigation Enhancement are included in Task C above.

Task F: Construction Administration

Task F includes all work necessary to assure proper construction of the Project in conformance with the plans and specification, permit requirements, and funding requirements. This work includes construction project management by LUKINS staff, and due to limited internal staff resources, construction management and materials testing and inspection by a third party consultant (to be determined). Deliverables for this task include a final electronic copy of construction inspection and materials testing records.

Task G: Other Costs

Task G includes Project permit fees, as follows: a City of South Lake Tahoe Encroachment Permit, and Tahoe Regional Planning Agency (TRPA) Permit.

Task H: Construction/Implementation Contingency

Task H includes an industry-standard 10% contingency on the Project capital cost.