

ATTACHMENT 5. BUDGET

This attachment provides a summary budget table (Table 8 from the PSP) for the East Stanislaus 2014 Drought Grant Application and the eight projects it contains. Also included are more detailed, individual project budgets (Table 7 from the PSP) plus one-page descriptions as to why the project proponents feel these budgets are reasonable based on currently available information.

Of the eight projects contained herein, funding match waivers are being requested for two projects: the **Grayson Water System Efficiency Project** and the **South Modesto Infrastructure Efficiency Project**. These projects will be implemented by the City of Modesto on behalf the communities of Grayson and Bret Harte/South Modesto to help reduce drought-related impacts to DACs and to help these communities prepare in case the current drought continues in 2015.

Table 5-1: Summary Budget Table

Table 8: Summary Budget (from PSP)						
Proposal Title: East Stanislaus 2014 Drought Grant Application						
		(a)	(b)	(c)	(d)	(e)
	Individual Project Title	Requested Grant Amount	Cost Share: Non-State Fund Source	Cost Share: Other State Fund Source	Total Cost	% Funding Match
(a)	New Hickman Community Well	\$2,321,813	\$442,000	\$0	\$2,763,813	16%
(b)	Grayson Water System Efficiency Improvements*	\$1,728,274	\$54,160	\$0	\$1,782,434	3%
(c)	South Modesto Infrastructure Efficiency*	\$2,784,002	\$54,160	\$0	\$2,838,162	2%
(d)	Expanded Non-Potable Water Use Program	\$495,000	\$165,000	\$0	\$660,000	25%
(e)	Landscape Irrigation Efficiency Program	\$139,031	\$46,344	\$0	\$185,375	25%
(f)	Landscape Replacement Program	\$282,018	\$93,031	\$0	\$375,049	25%
(g)	Potable Supply Offset	\$454,000	\$153,775	\$0	\$607,775	25%
(h)	North Valley Regional Recycled Water Program	\$10,000,000	\$86,763,956	\$0	\$96,763,956	90%
(i)	Proposal Total	\$18,204,138	\$87,772,426	\$0	\$105,976,564	83%
(j)	DAC Funding Match Waiver Total**	-	-	-	\$4,512,276	-
(k)	Grand Total (Subtract row (j) from row (i) and recalculate column (e))	-	-	-	\$101,464,288	87%

* These projects are requesting a funding match waiver.
 ** This value reflects the total cost of the projects requesting a funding match waiver less the amount of local matching funds.

New Hickman Community Well Project (Modesto)

The City of Modesto is requesting \$2,321,813 in grant funding in order to implement the **New Hickman Community Well Project**. The total cost of the Project is \$2,763,813, which includes a funding match of \$442,000 (16% funding match). The majority of the work to be implemented as described in the Program Work Summary (Attachment 4) will be completed by contractors. No work is expected for tasks under Category (b), as the City currently owns the project areas. The following section describes the reasonable basis for the costs of the categories of tasks included in Table 5-2 below.

Category (a) Direct Project Administration

Task 1: Administration is assumed to require approximately 175 hours of Senior Civil Engineer time.

Task 2: Labor Compliance Program is complete. The City of Modesto has adopted the Caltrans LCP.

The City of Modesto plans to outsource *Task 3: Reporting* and assumes this task will require approximately 200 hours of time.

Category (b) Land Purchase/Easement

Task 4: Land Acquisition is complete. The City of Modesto acquired the required land in March 2012 for fair market value.

Category (c) Planning/Design/Engineering/Environmental Documentation

Task 5: Assessment and Evaluation and *Task 7: Environmental Documentation* are complete. Costs reflect contracted consultant, drilling, and testing fees and City of Modesto staff time, the equivalent of approximately 1,300 hours of time.

Task 6: Final Design will be completed by a consulting engineer. The City of Modesto has budgeted approximately \$240,000 for completion of the final design and \$11,000 of City staff support for the final design.

Task 8: Permitting will be completed by City of Modesto staff in approximately 72 hours, based on previous experience with similar projects.

Category (d) Construction/Implementation

Task 9: Construction Contracting and *Task 12: Construction Administration* will be completed by City of Modesto staff. Based on City of Modesto experience with past similar projects, *Task 9* is assumed to require approximately 100 hours of Associate Civil Engineer and Administrator time and *Task 12* is assumed to require approximately 2,100 hours of Senior and Associate Civil Engineer, Administrator, and Inspector time.

Task 10: Construction will be completed by a contractor. The cost for this task is based on City of Modesto experience with similar projects and is reflected in the City Capital Improvements Program. This task assumes a 10% contingency based on the City's experience with similar projects at a similar stage of development.

Task 11: Environmental Compliance/Mitigation/Enhancement costs will primarily be borne by the Contractor during construction in *Task 10*. Well flushing discharge and stormwater management compliance work is estimated to be approximately 120 hours of City of Modesto staff time.

Table 5-2: Project Budget for the New Hickman Community Well Project

Table 7: Project Budget (from PSP)					
Proposal Title: East Stanislaus 2014 Drought Grant Application					
Project Title: New Hickman Community Well					
Project serves a need of a DAC? No					
Funding Match Waiver Request? No					
Budget Category		(a)	(b)	(c)	(d)
		Requested Grant Amount	Non-State Fund Source*	Other State Fund Source*	Total Cost
(a)	Direct Project Administration	\$49,625	\$0	\$0	\$49,625
(b)	Land Purchase/Easement	\$0	\$86,750	\$0	\$86,750
(c)	Planning/Design/Engineering/ Environmental Documentation	\$242,880	\$355,250	\$0	\$598,130
(d)	Construction/Implementation	\$2,029,308	\$0	\$0	\$2,029,308
(e)	Grant Total (Sum rows (a) through (d) for each column)	\$2,321,813	\$442,000	\$0	\$2,763,813
*List sources of funding: Funding for the Projects is part of the City of Modesto’s Water Enterprise CIP Fund.					

Grayson Water System Efficiency Improvement Project (Modesto)

The City of Modesto is requesting a total of \$1,728,274 of grant funding to implement its **Grayson Water System Efficiency Improvements Project**. The total project cost is \$1,782,434, which includes a funding match of \$54,160 (3% funding match). This project directly benefits the disadvantaged community of Grayson; therefore, a funding match waiver is requested for this project.

The majority of the work to be implemented as described in the Program Work Summary (Attachment 4) will be completed by contractors (Category (d)). Tasks under Categories (a) and (c) will be completed by the City. No work is expected for tasks under Category (b), as the City currently owns the project areas. The following section describes the basis for the costs of the categories of tasks included in Table 5-3 below.

Category (a) Direct Project Administration

Administrative costs total the number of hours required to assemble and submit invoices for grant reimbursement, and quarterly progress reports to the California Department of Water Resources. The City has adopted the CalTrans Labor Compliance Program. Implementation of the LCP is included in Task 12: Construction Administration.

Category (b) Land Purchase/Easement

All work will be performed on city-owned and/or county-owned property; therefore there will be no land acquisitions or easements acquired and no budget associated with this work item.

Category (c) Planning/Design/Engineering/Environmental Documentation

Initial assessment and design for the **Grayson Water System Efficiency Improvements Project** was completed as part of the *2008 Water System Engineer's Report Evaluation of the Existing and Buildout Water System for the Grayson Outlying Service Area* (WYA, 2010). Final designs and plans will need to be prepared and can be implemented quickly. The City finalized a Program EIR in 2010 for this Project and estimates that it will require approximately 20 hours to complete a Finding of Compliance document. Since the pipelines to be replaced are within County-owned lands, encroachment permits from Stanislaus County will be required.

Category (d) Construction/Implementation

The City will be required to undergo a formal bid process to hire a contractor to conduct the infrastructure replacement project; therefore, City staff time will be required to develop the bid package proposal, advertise the proposal, arrange a pre-bid meeting, evaluate each proposal, and work with the City Council to award a contract to the chosen contractor.

City staff will provide construction management and administrative functions, such as performing construction inspections, overseeing hydraulic testing of the new pipeline, and management functions, including implementation of the Labor Compliance Program. Project construction will be performed by a qualified contractor. Field work will include mobilization and site preparation, replacement of 9,000 linear feet water main, hydraulic performance testing, and demobilization. Mitigation measures will be implemented as identified in the CEQA document by the Contractor and City staff.

An 8% contingency was assumed for this project. The City of Modesto considers this factor reasonable for this type of project at this stage of development.

Table 5-3: Project Budget for the Grayson Water System Efficiency Improvements Project

Table 7: Project Budget (from PSP)					
Proposal Title: East Stanislaus 2014 Drought Grant Application					
Project Title: City of Modesto Grayson Water System Efficiency Improvements Project					
Project serves a need of a DAC? Yes					
Funding Match Waiver Request? Yes					
Budget Category		(a)	(b)	(c)	(d)
		Requested Grant Amount	Non-State Fund Source*	Other State Fund Source*	Total Cost
(a)	Direct Project Administration	\$34,400	\$0	\$0	\$34,400
(b)	Land Purchase/Easement	\$0	\$0	\$0	\$0
(c)	Planning/Design/Engineering/ Environmental Documentation	\$25,760	\$54,160	\$0	\$79,920
(d)	Construction/Implementation	\$1,668,114	\$0	\$0	\$1,668,114
(e)	Grant Total (Sum rows (a) through (d) for each column)	\$1,728,274	\$54,160	\$0	\$1,782,434
*List sources of funding: Funding for the Projects is part of the City of Modesto's Water Enterprise CIP Fund.					

South Modesto Infrastructure Efficiency Project (Modesto)

The City of Modesto is requesting a total of \$2,784,002 of grant funding to implement its **South Modesto Infrastructure Efficiency Project**. The total project cost is \$2,838,162, which includes a funding match of \$54,160 (2% funding match). This project directly benefits the disadvantaged community of Bret Harte in South Modesto; therefore, a funding match waiver is requested for this project.

The majority of the work to be implemented as described in the Program Work Summary (Attachment 4) will be completed by contractors (Category D). Tasks under Categories A and C will be completed by the City. No work is expected for tasks under Category B, as the City currently owns the project areas. The following section describes the basis for the costs of the categories of tasks included in Table 5-4 below.

Category (a) Direct Project Administration

Administrative costs total the number of hours required to assemble and submit invoices for grant reimbursement, and quarterly progress reports to the California Department of Water Resources. The City has adopted the CalTrans Labor Compliance Program. Implementation of the LCP is included in Task 12: Construction Administration.

Category (b) Land Purchase/Easement

All work will be performed on city-owned and/or county-owned property; therefore, there will be no land acquisitions or easements acquired and no budget associated with this work item.

Category (c) Planning/Design/Engineering/Environmental Documentation

Initial assessment and design for the **South Modesto Infrastructure Efficiency Project** was completed as part of the *2010 Water System Engineer's Report Evaluation of the Buildout Water System for the Contiguous Service Area – Option A* (WYA, 2010). Final design is currently underway by City of Modesto staff and is expected to be completed by end of July 2014. The City finalized a Program EIR in 2010 for this Project and estimates that it will require approximately 20 hours to complete a Finding of Compliance document. Since the pipelines to be replaced are within County-owned lands, encroachment permits from Stanislaus County will be required.

Category (d) Construction/Implementation

The City will be required to undergo a formal bid process to hire a contractor to conduct the infrastructure replacement project; therefore, City staff time will be required to develop the bid package proposal, post the proposal, arrange a pre-bid meeting, evaluate each proposal, and work with the City Council to award a contract to the chosen contractor.

City staff will provide construction management and administrative functions, such as performing construction inspections, overseeing hydraulic testing of the new pipeline, and management functions. Construction will be performed by a qualified contractor. Field work will include mobilization and site preparation, replacement of approximately 15,000 linear feet of steel pipe with diameters between 8" and 16", hydraulic performance testing, and demobilization. Mitigation measures will be implemented as identified in the CEQA document by the Contractor and City staff.

An 8% contingency was assumed for this project. The City of Modesto considers this factor reasonable for this type of project at this stage of development.

Table 5-4: Project Budget for the South Modesto Infrastructure Efficiency Project

Table 7: Project Budget (from PSP)					
Proposal Title: East Stanislaus 2014 Drought Grant Application					
Project Title: City of Modesto South Modesto Infrastructure Efficiency Project					
Project serves a need of a DAC? Yes					
Funding Match Waiver Request? Yes					
Budget Category		(a)	(b)	(c)	(d)
		Requested Grant Amount	Non-State Fund Source*	Other State Fund Source*	Total Cost
(a)	Direct Project Administration	\$38,640	\$0	\$0	\$38,640
(b)	Land Purchase/Easement	\$0	\$0	\$0	\$0
(c)	Planning/Design/Engineering/ Environmental Documentation	\$25,760	\$54,160	\$0	\$79,920
(d)	Construction/Implementation	\$2,719,602	\$0	\$0	\$2,719,602
(e)	Grant Total (Sum rows (a) through (d) for each column)	\$2,784,002	\$54,160	\$0	\$2,838,162
*List sources of funding: Funding for the Projects is part of the City of Modesto’s Water Enterprise CIP Fund.					

Expanded Non-Potable Water Use Program (Turlock)

The City of Turlock is requesting a total of \$495,000 of grant funding to implement its **Expanded Non-Potable Water Use Project**. The total project cost is \$660,000, which includes a funding match of \$165,000 (25% funding match). The majority of the work to be implemented as described in the Program Work Summary (Attachment 4) will be completed by contractors (Category D). Tasks under Categories A and C will be completed by the City. No work is expected for tasks under Category B, as the City currently owns the project areas. The following section describes the basis for the costs of the categories of tasks included in Table 5-5 below.

Category (a) Direct Project Administration

Administrative costs total the number of hours required to assemble and submit invoices for grant reimbursement, and quarterly progress reports to the California Department of Water Resources. The City adopted a Labor Compliance Program in 2002 and has administrative procedures in place for enforcement therefore no additional time is required to comply with this requirement, and implementation of the Labor Compliance Program is included in Construction Administration (Task 12).

Category (b) Land Purchase/Easement

All work will be performed on city-owned property; therefore there will be no land acquisitions or easements acquired and no budget associated with this work item.

Category (c) Planning/Design/Engineering/Environmental Documentation

Initial assessment for the well locations has been completed in-house through a working knowledge of the area, and preliminary design is now underway. The City will be required to undergo a formal bid process to hire a contractor to develop the preliminary well installation plan and final design plan and specifications. City staff time will be required to develop the bid package proposal, post the proposal, arrange a pre-bid meeting, evaluate each proposal, and work with their City Council to award a contract to the chosen contractor.

Since the wells will be for non-potable use, permits from the County and California Department of Public Health will not need to be required. The City is the local administrator of well permits in its sphere of influence, reducing the need to interact with another entity. The City will prepare environmental documentation as part of the project in accordance with CEQA; it is anticipated that a negative declaration will apply.

Category (d) Construction/Implementation

City staff will review the plans for conformance with both City and State well standards, as well as perform construction inspections and management functions. Construction will be performed by a qualified contractor, and mitigation measures and monitoring identified in the CEQA document will be implemented. Field work will include mobilization and site preparation, installation of six non-potable shallow wells, installation of non-potable signage in accordance to city standards for a non-potable site, and disconnection of existing irrigation systems from the potable system and reconnection of the new non-potable system. As part of construction management, the Project Performance Monitoring Plan and Labor Compliance Program will be implemented. Additionally, payments will be processed, inspection activities will be performed, and responses will be made to RFIs and Change Order requests. A contingency of 10% was applied based on the City's experience with similar projects at this stage of development.

Table 5-5: Project Budget for the Expanded Non-Potable Water Use Project

Table 7: Project Budget (from PSP)					
Proposal Title: East Stanislaus 2014 Drought Grant Application					
Project Title: Turlock Expanded Non-Potable Water Use Project					
Project serves a need of a DAC? No					
Funding Match Waiver Request? No					
Budget Category		(a)	(b)	(c)	(d)
		Requested Grant Amount	Non-State Fund Source*	Other State Fund Source*	Total Cost
(a)	Direct Project Administration	\$22,500	\$7,500	\$0	\$30,000
(b)	Land Purchase/Easement	\$0	\$0	\$0	\$0
(c)	Planning/Design/Engineering/ Environmental Documentation	\$45,000	\$15,000	\$0	\$60,000
(d)	Construction/Implementation	\$427,500	\$142,500	\$0	\$570,000
(e)	Grant Total (Sum rows (a) through (d) for each column)	\$495,000	\$165,000	\$0	\$660,000
*List sources of funding: City of Turlock Water Enterprise Fund					

Landscape Irrigation Efficiency Program (Turlock)

The City of Turlock is requesting a total of \$139,031 of grant funding to implement its **Landscape Irrigation Efficiency Program**. The total project cost is \$185,375, which includes a funding match of \$46,344 (25% funding match). The majority of the work to be implemented as described in the Program Work Summary (Attachment 4) will be completed by contractors (Category D). Tasks under Categories A and C will be completed by the City. No work is expected for tasks under Category B, as the City currently owns the project areas. The following section describes the basis for the costs of the categories of tasks included in Table 5-6 below.

Category (a) Direct Project Administration

Administration (Task 1) and Reporting (Task 3) will be completed by the City of Turlock. Costs for these tasks were calculated based on the estimated hours required to complete the task by City staff. For the purposes of estimating the cost, it is assumed that a City Manager will complete these tasks. The City and the selected contractor will follow a City-approved Labor Compliance Program, so Task 2 is considered complete for this project, and implementation of the Labor Compliance Program is included in Construction Administration (Task 12).

Category (b) Land Purchase/Easement

Land acquisition and easements will not be required for this program, as the project areas are within City property limits. Therefore, there is no budget associated with this work item.

Category (c) Planning/Design/Engineering/Environmental Documentation

Assessment and Evaluation (Task 5) was completed when the City installed controllers at other locations within the City. Since this program will be modeled after other City irrigation efficiency projects, there are no expenditures associated with Task 5. The cost to complete the Final Design (Task 6) is based on the hourly wage of a City Engineer and the number of hours anticipated to complete the final design. The final design will be developed solely by the City. The City does not expect environmental documentation and/or permitting to be required for this project.

Category (d) Construction/Implementation

A majority of the construction and implementation of the program will be completed by a contractor, including controller installation, testing, and reporting. The City will implement the Construction Contracting (Task 9) and Construction Administration (Task 12), including inspections, RFI/change order documentation and implementation of the Project Performance Monitoring Plan (including completing of associated reports) and Labor Compliance Program.

The cost of construction was estimated based on the number of new automatic rain sensor/irrigated controllers that will be installed. The cost of the installed controllers is based on the raw material cost of the controllers and the estimated time needed per controller for installation and testing. A 10% construction contingency was included to account for unknown and unspecified conditions. As design continues, contingency will be adjusted accordingly.

Table 5-6: Project Budget for the Landscape Irrigation Efficiency Project

Table 7: Project Budget (from PSP)					
Proposal Title: East Stanislaus 2014 Drought Grant Application					
Project Title: Turlock Landscape Irrigation Efficiency					
Project serves a need of a DAC? No					
Funding Match Waiver Request? No					
Budget Category		(a)	(b)	(c)	(d)
		Requested Grant Amount	Non-State Fund Source*	Other State Fund Source*	Total Cost
(a)	Direct Project Administration	\$3,701	\$1,234	\$0	\$4,935
(b)	Land Purchase/Easement	\$0	\$0	\$0	\$0
(c)	Planning/Design/Engineering/ Environmental Documentation	\$5,558	\$1,853	\$0	\$7,410
(d)	Construction/Implementation	\$129,773	\$43,258	\$0	\$173,030
(e)	Grant Total (Sum rows (a) through (d) for each column)	\$139,031	\$46,344	\$0	\$185,375
*List sources of funding: City of Turlock Water Enterprise Fund					

Landscape Replacement Program (Turlock)

The City of Turlock is requesting a total of \$282,018 of grant funding to implement its **Landscape Replacement Program**. The Total project cost is \$375,049, which includes a funding match of \$93,031 (25% funding match). The majority of the work to be implemented as described in the Program Work Summary (Attachment 4) will be completed by contractors (Category D). Tasks under Categories A and C will be completed by the City. No work is expected for tasks under Category B, as the City currently owns the project areas. The following section describes the basis for the costs of the categories of tasks included in Table 5-7 below.

Category (a) Direct Project Administration

Administration (Task 1) and Reporting (Task 3) will be completed by the City of Turlock. Costs for these tasks were calculated based on the estimated hours required to complete the task by City staff. For the purposes of estimating the cost, it is assumed that a City Manager will complete these tasks. The City and the selected contractor will follow a City-approved Labor Compliance Program, so Task 2 is considered complete for this project, and implementation of the Labor Compliance Program is included in Construction Administration (Task 12).

Category (b) Land Purchase/Easement

Land acquisition and easements will not be required for this program, as the project areas are within City property limits. Therefore, there is no budget associated with this work item.

Category (c) Planning/Design/Engineering/Environmental Documentation

Assessment and Evaluation (Task 5) is not required as the City already has a working knowledge of landscaping suitable the City's climate. The cost to complete the Final Design (Task 6) is based on the hourly wage of a City Engineer and the number of hours anticipated to complete the final design. The final design will be developed by the City in conjunction with its contractor. The City does not expect environmental documentation and/or permitting to be required for this project.

Category (d) Construction/Implementation

A majority of the construction and implementation of the program will be completed by a contractor, including turf removal, replanting and reporting. The City will implement the Construction Contracting (Task 9) and Construction Administration (Task 12), including inspections, RFI/change order documentation and implementation of the Project Performance Monitoring Plan (including completing of associated reports). The contractor will be required to comply with the State's Stormwater General Permit for construction.

The cost of construction was estimated based on the square footage of turf to be removed and new landscaping to be installed, assuming a preliminary landscape pallet of drought-resistant plants and mulch. A 10% construction contingency was included to account for unknown and unspecified conditions. As design continues, contingency will be adjusted accordingly.

Table 5-7: Project Budget for the Landscape Replacement Program

Table 7: Project Budget (from PSP)					
Proposal Title: East Stanislaus 2014 Drought Grant Application					
Project Title: Turlock Landscape Replacement Program					
Project serves a need of a DAC? No					
Funding Match Waiver Request? No					
Budget Category		(a)	(b)	(c)	(d)
		Requested Grant Amount	Non-State Fund Source*	Other State Fund Source*	Total Cost
(a)	Direct Project Administration	\$7,515	\$2,505	\$0	\$10,020
(b)	Land Purchase/Easement	\$0	\$0	\$0	\$0
(c)	Planning/Design/Engineering/ Environmental Documentation	\$20,444	\$6,815	\$0	\$27,259
(d)	Construction/Implementation	\$254,059	\$83,711	\$0	\$337,770
(e)	Grant Total (Sum rows (a) through (d) for each column)	\$282,018	\$93,031	\$0	\$375,049
*List sources of funding: City of Turlock General Fund					

Potable Supply Offset Project (Hughson)

The City of Hughson is requesting a total of \$454,000 in grant funding to implement its **Potable Supply Offset Project**. The total project cost is \$607,775, which includes a funding match of \$153,775 (25% funding match). The majority of the work to be implemented as described in the Program Work Summary (Attachment 4) will be completed by contractors (Category (d)). Tasks under Categories (a) and (c) will be completed by the City. No work is expected for tasks under Category B, as the City currently owns the project areas.

The following section describes the basis for the costs of the categories of tasks included in Table 5-8 and Table 5-9 below.

Category (a) Direct Project Administration

Administrative costs (Task 1 and 3) total the number of staff hours required to assemble and submit invoices for grant reimbursement and quarterly progress reports to DWR. The City will retain a consultant to prepare a Labor Compliance Plan. The cost to prepare the LCP is based on a verbal quote from Kurey & Associates. They estimate the preparation and implementation of an LCP to be ~1% of the construction cost. This cost is included under Task 12 (which includes the implementation of the LCP).

Category (b) Land Purchase/Easement

All work will be performed on City-owned land, eliminating the need to acquire easements or purchase new land.

Category (c) Planning/Design/Engineering/Environmental Documentation

Initial assessment for the pipeline alignment has been completed in-house through a working knowledge of the area and City GIS system. The City is currently in the process of performing a non-potable system infrastructure requirements analysis. The City will be required to undergo a formal bid process to hire a contractor to develop the preliminary well installation plan and final design plan and specifications. City staff time will be required to develop the bid package proposal, post the proposal, arrange a pre-bid meeting, evaluate each proposal, and work with the City Council to award a contract to the chosen contractor.

The City will be filing a Class 3 Categorical Exemption under CEQA. No other permits are required to implement the project.

Category (d) Construction/Implementation

City staff will review the plans for standard conformance with both City and State standards, as well as perform construction inspections and management functions. Construction will be performed by a qualified contractor. Work will include mobilization and site preparation, as well as installation of 4,729 LF of non-potable water lines with 87% of pipe sized 10 inches in diameter. Construction activities associated with connecting the non-potable pipelines to the existing wells are anticipated to be minimal, and consist predominantly of plumbing connections. Sites to be retrofitted to non-potable water will be removed from potable water lines and connected to the non-potable infrastructure. Signs and labeling will be posted at each site, as well as other cross-connection control measures performed. Construction administration activities are estimated to be 10% based on City experience with similar projects within the City. Contingency is estimated to be 10% based on City experience with similar project at this stage of development.

Table 5-8: Project Budget for the Potable Supply Offset Project

Table 7: Project Budget (from PSP)					
Proposal Title: East Stanislaus 2014 Drought Grant Application					
Project Title: Hughson Potable Supply Offset Project					
Project serves a need of a DAC? No					
Funding Match Waiver Request? No					
Budget Category		(a)	(b)	(c)	(d)
		Requested Grant Amount	Non-State Fund Source*	Other State Fund Source*	Total Cost
(a)	Direct Project Administration	\$22,500	\$7,500	\$0	\$30,000
(b)	Land Purchase/Easement	\$0	\$0	\$0	\$0
(c)	Planning/Design/Engineering/ Environmental Documentation	\$39,000	\$14,000	\$0	\$53,000
(d)	Construction/Implementation	\$392,000	\$132,275	\$0	\$524,275
(e)	Grant Total (Sum rows (a) through (d) for each column)	\$454,000	\$153,775	\$0	\$607,775
*List sources of funding: City of Hughson Water Enterprise Fund, City Public Facilities Fees					

North Valley Regional Recycled Water Program (Inter-regional)

The City of Modesto, on behalf of the **North Valley Regional Recycled Water Program (NVRWWP)** partners - the City of Turlock and Del Puerto Water District, is requesting a total of \$10 million of grant funding to implement the NVRWWP. The Total Proposal Cost is \$96,763,956, which includes a funding match of \$86,763,956 (90% funding match). The majority of the work to be completed as described in the Program Work Summary (Attachment 4) will be completed by consultants and contractors (Category D). Tasks under Category A (Tasks 1 and 3) and Category D (Task 9) will be completed by the City of Modesto. The following describes the basis for the costs of the categories of tasks included Table 5-9 below.

Category (a) Direct Project Administration

Administration (Task 1) and Reporting (Task 3) will be completed by the City of Modesto. Costs for these tasks were calculated based on estimated hours to complete the task by City staff. For the purposes of estimating the cost, it is assumed an Associate Engineer and Administrative Analyst II will complete these tasks. The City of Modesto will be the construction contracting entity and currently uses an approved LCP, so Task 2 is not applicable. Implementation of the Labor Compliance Program is included in Construction Administration (Task 12).

Category (b) Land Purchase / Easement

Easements will be required for portions of the recycled water pipelines. During completion of the NVRWWP Feasibility Study a construction cost estimate was prepared. This estimate included an estimated cost of \$146,100 for land purchase based on a unit cost per square foot of land and estimated land to be acquired based on the preliminary assessment.

Category (c) Planning/Design/Engineering/Environmental Documentation

Assessment and Evaluation (Task 5) is nearly complete. The NVRWWP Feasibility Study and other supporting studies were completed by consultants; costs in the budget were based on consultant invoices and contracts. The cost to complete the Facilities Plan (in Task 5) and the EIR/EIS (Task 7- Environmental Documentation) are based on a contract and associated fee estimate with a consultant. Costs for Final Design (Task 6), Permitting (Task 8), and Environmental Compliance/Mitigation/Enhancement (Task 11), (under Category (d) Construction/Implementation) are estimated on a fee estimate provided by a consultant.

Category (d) Construction/Implementation

Construction Contracting (Task 9) will be completed by the contracting entity, expected to be the City of Modesto. For the purposes of the budget, it is assumed an Associate Engineer, Senior Civil Engineer, Administrative Analyst II, and Administrative Office Assistant III will complete that task. Hours were estimated based on similar projects. Costs for Construction (Task 10) and Construction Administration (Task 12) were estimated during preparation of the construction cost estimate for the NVRWWP Feasibility Study. It was prepared using construction cost curves based on historic bid results of similar projects within the region. A 30% construction contingency was included to account for unknown and unspecified conditions. As design continues, contingency will be adjusted accordingly.

The following tables summarize the budget for the proposed scope of work outlined in Attachment 4, Work Summary.

Table 5-9: Project Budget for the North Valley Regional Recycled Water Project

Table 7 – Project Budget (from PSP)					
Proposal Title: East Stanislaus 2014 Drought Grant Application					
Project Title: North Valley Regional Recycled Water Program					
Project serves a need of a DAC? Yes					
Funding Match Waiver Request? No					
Budget Category		(a)	(b)	(c)	(d)
		Requested Grant Amount	Non-State Fund Source*	Other State Fund Source*	Total Cost
(a)	Direct Project Administration	\$0	\$18,782	\$0	\$18,782
(b)	Land Purchase/Easement	\$0	\$146,100	\$0	\$146,100
(c)	Planning/Design/Engineering/ Environmental Documentation	\$0	\$10,181,005	\$0	\$10,181,005
(d)	Construction/Implementation	\$10,000,000	\$76,418,068	\$0	\$86,418,068
(e)	Grand Total (Sum rows (a) through (d) for each column)	\$10,000,000	\$86,763,956	\$0	\$96,763,956
*List sources of funding: City of Modesto, Turlock, and DPWD local funds and in-kind services					