

Introduction

The following sections include detailed project specific information about the three projects within this Proposal.

Proposal Work Summaries
1. Mojave Region Commercial, Industrial and Institutional (CII) Turf Removal Program
2. Hi-Desert Capital Water Main Replacement Program
3. Hesperia Reclaimed Water Distribution System Project

Mojave Region Commercial, Industrial and Institutional (CII) Turf Removal Program

Below is a summary of the tasks necessary to complete the Mojave Region CII Turf Removal Program.

TABLE 4-1: WORK SUMMARY FOR MOJAVE REGION CII TURF REMOVAL PROGRAM

Task 1: Administration: Specific tasks related to Direct Project Administration will include budget, schedule, communication, and grant administration (preparation of invoice and maintenance of financial records and reporting). This project will be coordinated by a project manager employed by MWA. The project manager will be the point of contact for the project's duration and be responsible for the day-to-day activities of the project and all reporting, and will coordinate with the Alliance for Water Awareness and Conservation (AWAC) and retail water providers regarding operational and implementation issues.

Deliverables: Reporting and Invoices as required.

Completion Status: 0% complete

Task 2: Labor Compliance Program: The proposed project involves planning and administration work and does not include work or trades subject to labor compliance, nor will contractors be hired as part of this effort. Therefore, this task is not applicable.

Task 3: Reporting: MWA will prepare quarterly progress reports and prepare a final project report describing the project and its outcomes. The progress reports will describe activities undertaken and accomplishments of each task during the milestones achieved, and any problems encountered in the performance of the work under this contract. A final summary report will be prepared and submitted once the project is completed. A Project Monitoring Plan (PMP) will be prepared and submitted to DWR prior to disbursement of grant funds for implementation for this Project.

Deliverables: Quarterly and final reports as specified in the Grant Agreement; Certificate of Project Completion; PMP.

Completion Status: The Reporting task is approximately 5% complete.

Category (b): Land Purchase/Easement

Not Applicable. No land purchases or right-of-way easements are required.

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

Task 5: Assessment and Evaluation: MWA has been successfully implementing a Cash for Grass residential turf replacement program since 2008, providing rebates for removing over six million square feet of turf and yielding over 1,000 AFY in water savings to date. Water savings estimates for the proposed program are based on projections and savings experienced in similar programs throughout the West and from experience with the existing MWA program. The technical feasibility of turf replacement programs have long been documented and are a key element to the "New Normal in California landscapes" which promotes an integrated approach to landscaping, defined and promoted by DWR and the CUWCC. No additional design reports or investigations are needed.

The 2005 Southern Nevada Water Authority's (SNWA) Xeriscape Conversion Study shows an average water savings of 55.8 gal/ft² by converting grass to a water smart landscape (http://www.snwa.com/html/cons_wsl_xeriscape.html). Audited water bills of previous MWA program participants show similar results. The average evapotranspiration (ET) and rainfall in the Mojave IRWM Region is 70 and 3-5 inches per year, respectively, which is similar to the conditions in the SNWA service area at the time of the 2005 Study. The Project water savings is therefore calculated with a standard coefficient of 55 gal/ft² of turf replaced.

Deliverables: 2014 Mojave IRWM Plan.

Completion Status: 100%

Task 6: Design/Engineering: The Mojave Region CII Turf Removal Program will replace one million square feet of turf with low-water-using landscaping, providing rebates of \$1/ft² of turf replaced. The program is designed for consistency with the "New Normal". Design requirements include: 1) the converted landscape must replace at least 25 percent of the area of turf removed with desert adaptive and/or drought tolerant plants; 2) landscapes must be configured to minimize stormwater runoff and maximize percolation to groundwater; 3) project size must range between 20,000 and 500,000 ft²; 4) project is applicable to the entire Mojave IRWM Plan Region; 5) project is geared toward commercial, industrial and institutional uses but large residential uses may also be included.

Any construction and on-site work is the responsibility of the rebate applicant; no engineering or design work is required on

the part of MWA for implementation of the rebate program. Pre-inspection services and customer support will be provided by the local retail agencies under the oversight of the MWA Project Manager.

Advertising, Public Outreach: MWA will advertise the Turf Removal Program and perform public outreach, focusing on large landscape customers.

Deliverables: Program Description. Outreach materials.

Completion Status: 80%

Task 7: Environmental Documentation: The Project incentivizes landscape conversions from high water using turf with desert and drought adaptive plants. The project falls under CEQA Categorical Exemption Class 4(b) - (section 15304(b)). A Notice of Exemption was filed for this program with the San Bernardino County Clerk in 2011.

Deliverables: Notice of Exemption

Completion Status: 100%

Task 8: Permitting: Based on MWA's experience with similar projects, permits are not required.

Deliverables: N/A

Completion Status: N/A

Category (d): Construction/Implementation

Task 9: Construction Contracting: Construction Contracting does not apply to this project.

Deliverables: N/A

Completion Status: N/A

Task 10: Construction/Implementation: Work with commercial, industrial and large residential customers to write contracts for reimbursing \$1 per square foot of turf removal

Site designs and plans must be pre-approved before work commences, and Applicants must agree to a post-conversion inspection to ensure project compliance. Participants contact their local water providers to request an application. Pre-inspections and approval of existing landscapes will be conducted by participating local water districts. Photos of the existing lawn will be taken during the landscape pre-inspection. The application must be pre-approved before removing any lawn and beginning a conversion.

Once the landscape conversion project is finished, the landowner is responsible for notifying the local water district of completion. The post-conversion inspection includes taking photos of the converted landscape, obtaining converted landscape area measurements, irrigation system inspection, plant eligibility review for program compliance and rebate eligibility verification. If the converted landscape or irrigation system fails inspection, the landowner is allowed 60 days (or the remainder of the six-month period, whichever is greater) to fully comply with the program conditions.

Rebates of \$1/ft² will be offered to customers, focusing on large landscape uses. Customer support will be provided by local retail agencies under the oversight of MWA. Post-inspection services will be conducted by MWA. MWA will perform all rebate processing, with information provided by its local retailers.

Deliverables: Contracts for up to 1,100,000 square feet of permanent turf removal over two years; documentation and processing of applications.

Completion Status: 0%.

Category (e): Environmental Compliance/Mitigation/Enhancement

Task 11: Environmental Compliance/Mitigation/Enhancement: Task is not required.

Deliverables: N/A

Completion Status: N/A

Category (f): Construction Administration

Task 12: Construction Administration: MWA will administer the Turf Removal Program. Activities include track costs, maintain financial records and make all rebate payments to program participants. Also, staff will assist with implementation, work with the participants, and provide Program auditing support.

Deliverables: Pre and post inspection reports, summary of rebates to participants.

Completion Status: 0% complete.

Hi-Desert Capital Water Main Replacement Program

The Hi-Desert Capital Water Main Replacement Program is currently 30% complete with the design phase, with completion expected by March 1, 2015. Based on experience from similar projects, it is anticipated that this project will fall under CEQA categorical exemption. Construction will begin upon the completion of the design in March 2015.

Tasks necessary to complete the Project, with current status of completion, are discussed below in Table 4-2.

TABLE 4-2: WORK SUMMARY FOR
HI-DESERT CAPITAL WATER MAIN REPLACEMENT PROGRAM

Category (a): Direct Project Administration Costs

Task 1: Administration: HDWD will prepare and submit required documentation to MWA for grant management activities, as required by DWR. HDWD staff will retain the primary responsibility for overseeing general project administration, invoicing, and reporting for the Hi-Desert Capital Water Main Replacement Program.

Deliverables: Invoices and other deliverables as specified in the Grant Agreement.

Completion Status: 0% complete

Task 2: Labor Compliance Program: Labor compliance will be performed in accordance with the requirements of California Labor Code §1771.5(b). The water main replacement will be completed by construction contractors who are bonded and comply with labor code requirements

Deliverables: Documentation of labor compliance furnished to DWR only if requested.

Completion Status: 0%

Task 3: Reporting: HDWD staff will provide project and work progress descriptions as required to prepare and submit quarterly and final reports as specified in the Grant Agreement. A Project Monitoring Plan (PMP) will be prepared and submitted to DWR prior to disbursement of grant funds for construction or monitoring activities for this Project.

Deliverables: Quarterly and final reports as specified in the Grant Agreement; PMP.

Completion Status: 0%

Category (b): Land Purchase/Easement

Task 4: Land Acquisition: No land purchase is required as the pipeline replacement project is occurring in existing streets that are public right-of-way.

Deliverables: n/a.

Completion Status: 95%

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

Task 5: Assessment and Evaluation: The District has an annual O&M replacement program as detailed initially in their 2007 Water System Master Plan and most currently in their 2010 Urban Water Management Plan (UWMP). The main pipelines to be replaced are currently visibly failing. This project will be implemented based on common and widely accepted practices related to replacing steel mains with polyvinyl chloride (PVC) and will accelerate HDWD's current replacement program in order to more quickly address system leaks.

Deliverables: HDWD's 2010 UWMP

Completion Status: 100%

Task 6: Design/Engineering: Design of the water pipelines is at 30% complete. Design of all phases will be completed by March 2015.

Deliverables: Final Plans and Specifications

Completion Status: 30%

Task 7: Environmental Documentation: It is anticipated that a categorical exemption (CE) will apply to this project, based on the District's experience from completion of several similar projects over the past fifteen years.

Deliverables: Notice of Exemption

Completion Status: 30%

Task 8: Permitting: The following permits will be obtained prior to start of construction:

- Encroachment permit from the Town of Yucca Valley

Deliverables: Copies of permit finishes after final design

Completion Status: 20%

Category (d): Construction/Implementation

Task 9: Construction Contracting: HDWD will manage the construction contract including inspection and acceptance of all contract work. Once design is completed, right-of-way is acquired and all necessary permits procured, HDWD staff will conduct construction contracting, consisting of contractor bidding and selection (as necessary).

Deliverables: Notice of Award.

Completion Status: 0%

Task 10: Construction/Implementation: The selected contractor will construct the project in accordance with the final plans and specifications. Construction will begin upon the completion of the design.

C-900 PVC pipe will replace

- 111,550 linear feet (LF) of eight-inch (8") water main,
- 3,270 LF of ten-inch (10") water main and
- 9,695 LF of twelve-inch (12") water main.

Project implementation will also include replacement of 208 fire hydrants and 498 gate valves, consisting of 446 eight-inch (8"), 13 ten-inch (10"), and 39 twelve-inch (12") valves.

Deliverables: Project Completion Certificate.

Completion Status: 0%

Category (e): Environmental Compliance/Mitigation/Enhancement

Task 11: Environmental Compliance/Mitigation/Enhancement: The project is determined to be categorically exempt from CEQA and no mitigation and/or enhancement is required.

Deliverables: None

Completion Status: N/A

Category (f): Construction Administration

Task 12: Construction Administration - During construction, HDWD staff and/or qualified engineering consultants will provide construction management and administration, including daily on-site observation; inspection of pipe material and fabrication processes at the factory; testing of materials used for construction, including soils and concrete; and documentation of these activities.

Deliverables: Copy of as-built plans.

Completion Status: 0%

Hesperia Reclaimed Water Distribution System

The Hesperia Reclaimed Water Distribution System is currently in the design phase. A notice of CEQA Categorical Exemption will be filed in July 2014 by the environmental consultant under contract. Tasks necessary to complete the Project, with current status of completion, are discussed below in Table 4-3.

TABLE 4-3: WORK SUMMARY FOR
HESPERIA RECLAIMED WATER DISTRIBUTION SYSTEM PROJECT

Category (a): Direct Project Administration Costs

Task 1: Administration: The Hesperia Water District (Hesperia) will be the lead administrative agency, responsible for preparing and submitting invoices to DWR, and overall project management. Regular monthly meetings will be held to review progress, issues and establish action items for the next month.

Deliverables: Invoices and other deliverables as specified in the Grant Agreement.

Completion Status: 0%

Task 2: Labor Compliance Program: Labor compliance will be performed in accordance with the requirements of California Labor Code §1771.5(b).

Deliverables: Documentation of labor compliance furnished to DWR only if requested.

Completion Status: 0%

Task 3: Reporting: Hesperia will compile quarterly progress and final reports for submittal to DWR as required in the grant agreement. A Project Monitoring Plan (PMP) will be prepared and submitted to DWR prior to disbursement of grant funds for construction or monitoring activities for this Project.

Deliverables: Quarterly and final reports as specified in the Grant Agreement; PMP.

Completion Status: 0%

Category (b): Land Purchase/Easement

Task 4: Land Acquisition: All construction activity on the pipeline will be contained within the street rights-of-way (r/w), including pipe storage, excavation, spoils, and compaction activities. Construction of the reclaimed water storage reservoir and booster pump station will be together on the same site and will be located on a corner of a 10-acre parcel owned by the City of Hesperia. No land purchase is required.

Deliverables: Proof of Title on the reservoir/booster station site and right-of-way documentation in the form of Assessors Maps.

Completion Status: 90%

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

Task 5: Assessment and Evaluation: This Project is planned and evaluated in Hesperia's 2008 Recycled Water Master Plan. The City has prepared large scale plan and profile sheets for the entire alignment of the pipeline project along with a conceptual site plan for the storage reservoir site. City staff have discussed operation of the new water reclamation plant with VVWRA representatives and identified optimal connection points for the reclaimed water distribution system.

Deliverables: Hesperia 2008 Recycled Water Master Plan

Completion Status: 100%

Task 6: Design/Engineering

Subtask 6.1 – Design Survey and Utility Coordination

The City has hired a consultant to survey the 8-mile pipeline alignment and reservoir/booster station site. As part of the survey contract, the consultant will coordinate with all local utility companies to identify any potential conflicts.

Subtask 6.2 – Design

City staff will prepare plans and specifications at the 50%, 90%, and 100% design completion levels. The final design package will be generated upon final review of 90% submittal by all City Departments and potential users.

Deliverables: Final Plans, Specifications and Engineer's Estimate (PS&E) documents

Completion Status: 60%

Task 7: Environmental Documentation: Hesperia has hired a consultant to prepare CEQA compliance documentation. The consultant has completed the site investigation of the entire alignment and is in the process of preparing a CEQA Categorical Exemption.

Deliverables: Approved and adopted CEQA Notice of Exemption.

Completion Status: 90%

Task 8: Permitting: The Project will require a use agreement between Victor Valley Wastewater Reclamation Authority (VWVRA) and Hesperia to connect to and receive reclaimed water generated from the Water Reclamation Plant (WRP), as well as an Encroachment Permit from the City of Hesperia for construction in public right-of-way.

Deliverables: Copies of: 1) Use agreement with VWVRA; 2) City of Hesperia Encroachment Permit

Completion Status: 0%

Category (d): Construction/Implementation

Task 9: Construction Contracting: The City will manage the construction contract including inspection and acceptance of all contract work. The City will solicit bids from qualified contractors according to the California Public Contract Code and City Purchasing Ordinance. A recommendation of the lowest responsible and responsive bidder (Notice of Intent to Award) will be prepared for approval by City Council.

Deliverables: Notice of Award issued to contractor.

Completion Status: 0%

Task 10: Construction/Implementation

The selected contractor will construct the project in accordance with final plans and specifications. Major tasks include:

- Installation of approximately 8 miles of reclaimed water pipeline ranging from 8-12 inches in diameter.
- Installation of one booster pump station
- Construction/installation of 2.5 MG steel reclaimed water storage tank

Deliverables: Notice to Proceed; Site photos; Project Notice of Completion.

Completion Status: 0%

Category (e): Environmental Compliance/Mitigation/Enhancement

Task 11: Environmental Compliance/Mitigation/Enhancement: The project is determined to be categorically exempt from CEQA and no mitigation and/or enhancement is required.

Deliverables: None

Completion Status: N/A

Category (f): Construction Administration

Task 12: Construction Administration - During construction, Hesperia staff and/or qualified engineering consultants will provide construction management and administration, including daily on-site observation; inspection of pipe material and fabrication processes at the factory; testing of materials used for construction, including soils and concrete; and documentation of these activities.

Deliverables: Copy of as-built plans.

Completion Status: 0%
