



California Conservation Corps (CCC) and Department of Water Resources (DWR)

Institutional Turf Program Overview and Application Instructions

OVERVIEW

Program Background: CCC and DWR are seeking projects that maximize the conservation of water in the short term and have the potential for cumulative, long-term water savings. DWR has funds to support water efficient landscaping and irrigation projects at local government facilities and non-profit institutions (not state or federal facilities). Projects must be located within the San Joaquin Valley.

- Project in areas designated as disadvantaged communities (DACs) http://www.water.ca.gov/irwm/grants/resources_dac.cfm or Economically Distressed Areas (EDAs) http://www.water.ca.gov/irwm/grants/resources_edc.cfm) may be fully-funded by the program.
- Projects not within a DAC or an EDA require a 50% cost-share for materials and/or direct project-related services (e.g., traffic control, specialized equipment rental, permitting, etc.)

Projects including all of the following components will be given the highest priority: removing turf and other high water use landscapes; installing or modifying irrigation systems with high water efficiency components; planting drought resistant and/or California native plants; and installing other water efficient landscape materials (organic material, rock, decomposed granite, etc.), as needed.

Program Funding: CCC will provide a supervised crew of 10-12 people to work 40 hours a week under the supervision of a CCC civil service supervisor. The crew will perform the labor associated with the turf removal and re-landscaping project. Crews are equipped with personal safety gear, basic hand tools and have access to two sod-cutters. Other specialized tools or necessary equipment must be supplied by the applicant or funds may be requested.

DWR has a limited budget for materials, equipment rental, plants and architectural services. **If requesting any of these funds for the project, a budget for these items must be included in this application.**

All organizations (DACs or non-DACs) must provide an on-site technical advisor to work with the CCC to ensure accurate implementation of the project and/or to help trouble-shoot any issues that arise.

APPLICATION INSTRUCTIONS

- 1. Proposed Project:** A single project is defined as between $\frac{1}{4}$ and $\frac{1}{2}$ an acre, 2-3 weeks of crew time (labor) and \$10,000-\$20,000 of project materials, supplies, and/or direct project-related services.
 - a. Type of Project - Check all that apply.
 - b. DAC or EDA - Check applicable box.
 - c. Scope of Work - Describe the type of work being proposed, what is to be accomplished and the overall timeframe. Specify quantities to be accomplished (e.g., square feet of turf to be removed, number of plants to be planted) as a result of project, techniques to be used, and specific location of work. Separate project deliverables by bullet points. Include the overall objective of the project and describe how the project design conforms to the adopted local landscape ordinance and the Model Water Efficient Landscape Ordinance (MWELo). (See d - ii)
 - d. Permitting and Special Conditions -Through this program, CCC and DWR are supporting turf replacement projects to maximize water conservation and efficiency. However, funded projects will still be considered local projects, in terms of permitting and/or CEQA responsibilities. Applicant must also conform to MWELo <http://www.water.ca.gov/wateruseefficiency/landscapeordinance/>
 - i. Describe all necessary permits and CEQA and the status of each.
 - ii. Describe how the project design conforms to the adopted local landscape ordinance and the MWELo.
 - e. Estimated Water Savings - Indicate the estimated annual savings for water for the proposed project. Describe the methodology used to determine the estimated annual savings for water.
 - f. Public Education - Describe any public education elements to be incorporated into the project to increase the overall impact of the project, (e.g., temporary and/or permanent signage, workshops, local news articles, features, etc.)
 - g. Proximity of Project - This program focuses on projects within a one hour driving distance from the CCC location in Fresno (near the Fresno Airport). If your project is not in close proximity to the Fresno CCC location, describe any short term housing/accommodations that you may be able to provide the CCC crew.
 - o Questions on projects outside of a one hour drive from Fresno - Please call Madeline Journey, CCC, at (916) 341-3232.
- 2. Training, Work Experience and Educational Opportunities Provided to CCC Corpsmembers:** The project must include at least one hour per week of education and training that will advance the knowledge and skills of corpsmembers toward post-CCC employment and/or training opportunities.
- 3. Project Readiness and Duration:** Specify the timeframe in which CCC services will be required (Project must be at least one week in length.) Projects of four weeks or more may need to be subdivided into subprojects to allow CCC to distribute crews across multiple agencies.
 - a. Project start date - When are you proposing to begin the project (indicate requested date)?
 - b. Landscape Architectural Services – There are limited resources for landscape architectural services for consultation and design available to applicants. If you are requesting this service, specifically describe what is needed and why. Indicate the cost in # 4-3 of the Budget table.

4. Budget

Budget Example –

LINE ITEM	Cost of project line item	Your 50% cost for projects outside of DAC/EDA or amount you are contributing	Amount you are requesting for this line item?	Total Cost for Line Item
1. Labor: How many crew weeks (40-work weeks) are estimated to complete the project? (Based on a supervised crew of 10-12 young adults?)	n/a	n/a	n/a	# of Weeks: 3
2. Materials, Supplies, Equipment * <ul style="list-style-type: none"> Indicate the total amount requested for this line item (this amount should match the total costs shown on the Detailed Materials Budget*) Projects should not exceed \$3 per square foot (sq ft) unless a justification is provided. 	Remove 3000 square feet of sod @\$3/sq ft and replace with mulch and deer grass - \$6000.00 + \$10,051	DAC/EDA Please circle Y or N		\$16,051.00
3. Architectural Services: A maximum of \$5K is available for architectural services per project	\$50/hour for 5 hours			250.00
4. Personnel (direct cost only) Technical Advisor	10 hrs/week at \$40/hr 10x40x3=1200		Full amount (\$1200.00)	\$0.00
5. Miscellaneous costs: (i.e., porta-potty, traffic control)				
GRAND TOTAL:				\$16,301.00

*Example of a detailed materials budget (hit the tab key to add more lines if needed):

Item	# of units	Unit cost	Total
Sprinkler heads	20	\$.15 each	\$3.00
deer grass	4 flats	\$12/flat	\$48.00
Mulch	1000 cubic feet	\$100.00/cubic feet	\$10,000.00
TOTAL			\$10,051.00

5. Reporting Requirements

A final report will be required and must include:

- Before and after photographs (to be shot in the same locations)
- Actual # of square feet (or other metric) treated
- Certification of Project Scope Completion (template to be provided)
- Project Accomplishments (including corpsmember training and education)
- Final budget

The final report will be submitted to California Conservation Corps within 90 days of project completion.

6. Certification

Sign and date certification of application.



California Conservation Corps (CCC) and Department of Water Resources (DWR)

Application for Institutional Turf Program

Name of Applicant: CITY OF MERCED	Address: 1776 GROGAN AVENUE, MERCED, CA	Date of Application: 2/16/16
Project Representative: LEAH BROWN	Title: WATER CONSERVATION SPECIALIST	Email: brownl@cityofmerced.org Phone: 209-385-8895
Project Location: Applegate Rose Garden	Address: north west of intersection at M St and W 26 th Street	County: MERCED

1. Proposed Project

- a. What type of work is being requested for the turf removal project? (Check all that apply)
- ☒ Water Efficient Landscaping (turf removal and re-planting with low water use plants)
 - ☒ Water Efficient Irrigation work (retrofitting, replacing, and/or installing water efficient irrigation systems)
 - ☐ Incorporating New Water Management Strategies for water capture and/or innovative water supplies (i.e., gray water, recycled water, HVAC cooling system condensate use, storm water capture, etc.).
 - ☐ Other: _____
- b. Is the proposed project located in area designated as a *DAC* or an *EDA*? ☒ **Yes** ☐ **No**
- c. Scope of Work (please see application instructions) *ATTACHED*
- d. Permits and Special Conditions:
- i. List the required permits and environmental compliance for the project (e.g., building, grading, or CEQA) and the status of each. NONE
 - ii. Describe how the project design conforms to the adopted local landscape ordinance and the MWELO?

The proposed project conforms to the local Merced Municipal Code Ordinance, Chapter 17.60 – Water Efficient Landscaping and Irrigation. The defined intent of landscaping is to:
 - A. Enhance the environmental value and physical appearance of development in the city.
 - B. Improve the environmental performance of development by: reducing heat, glare and noise; promoting the percolation of storm water, aid in improving air quality; and buffering potentially incompatible land uses from one another, and;

- C. Promote the conservation of water and preservation of water quality by requiring drought tolerant plant material in landscaping and the retention of existing natural vegetation, thereby reducing the need for irrigation, pesticides, herbicides, and fertilizers.

The project also complies with the MWELD section 492.6 on Landscape Design Plan and 492.7 on Irrigation Design Plan.

- e. Estimated annual water savings for the proposed project? 323,412 gallons/year. Describe the methodology used to determine the estimated annual savings for water.

I calculated the planned water consumption if we water each of the 700 plants, 2 – 3 hours per week and compared that against the actual water consumption averaged out over the past three years. See attached spreadsheet for details.

- f. Describe any public education elements to be incorporated into the project to increase the overall impact of the project.

This project will be announced by the Water Conservation Specialist via newspaper articles in the Merced County Times, radio, and announced at City Council. We will continue to speak to the public at all outreach events about the residential turf replacement program and the program as it pertains to city areas like the Rose Garden project. We will have yard signs in the project area.

- g. If the project is outside of the one hour drive from Fresno, Please describe any short term housing/accommodations that you may be able to provide the CCC crew. **N/A**

2. Training, Work Experience and Educational Opportunities Provided to CCC Corpsmembers

- a. Describe the type of training you will provide to ensure the proposed project meets your quality standards.

We will have staff on site.

- b. Describe any career related training and/or information you will provide corpsmembers about career and educational pathways into natural resource conservation and related fields.

We will plan a morning tailgate meeting for them explaining career opportunities in the Public Works field led by city staff.

- c. Describe any educational programs you will provide to increase corpsmembers' understanding of the natural environment and need for water conservation.

We will plan an information assembly for them on water conservation in the City led by the Water Conservation Specialist.

3. Project Readiness and Duration

- a. Proposed project start date March 1, 2016.

- b. Is a landscape architect's services needed for the project? ☐ Yes ☒ No Describe what is needed and why.

4. Budget (A limited amount of funds for materials and architectural services are available.)

1. LINE ITEM	Cost of project line item	Your 50% cost for projects outside of DAC/EDA or amount you are contributing	Amount you are requesting for this line item?	Total Cost for Line Item
2. Materials, Supplies, Equipment * <ul style="list-style-type: none"> Indicate the total amount requested for this line item (this amount should match the total costs shown on the Detailed Materials Budget*) Projects should not exceed \$3 per square foot (sq ft) unless a justification is provided. 	\$15,086.81	DAC	\$15,086.81	\$15,086.81
3. Architectural Services: A maximum of \$5K is available for architectural services per project	N/A	N/A		
4. Personnel costs (Direct cost only)			N/A	
5. Miscellaneous costs: (i.e., porta-potty, traffic control) 1 week porta-potty rental & landfill & hauling fees	4,200	N/A		\$4,200
GRAND TOTAL:				\$19,286.81

***Detailed Materials Budget (hit the tab key to add more lines if needed): *SEE ATTACHED QUOTES**

Item	# of units	Unit cost	Total
Rose Bushes	170	\$20	\$3,400
Decomposed Granite, per delivered ton	300	20.64	\$6,192
½" IPS FLEX VINYL .546 x .840 PER RL	19	35.58	676.02
½" SLIP TEE SCH40	700	0.29	203.00
½" TS MAIL ADAPTER SCH40	700	0.21	147.00
BUBBLER 4.0 GPH PC	700	1.60	1120.00
795 1GT GLUE CLEAR MD LVOC	10 cans	15.07	150.70
795 1PT GLUE CLEAR MB LVOC	1 can	11.39	11.39
½" SS NEXTED COUPLIN SCH40	10	0.19	1.90
Estimated tax on quote	1	184.80	184.80
Sentinel Smart Irrigation Controller	1	3000	3,000.00
TOTAL			\$15,086.81

5. Reporting Requirement

Leah Brown, Water Conservation Specialist <hr/> Print Applicant's Name	<u>understands</u> there will be a final report due within 90 days of the project's completion. <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
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6. **Certification:** I certify that the information in this application is accurate.

Signature of Grant Applicant's Authorized Representative and Date

Steve Carrigan, City Manager, City of Merced

Printed Name and Title of Grant Applicant's Authorized Representative

Next Steps:

1. Email your complete application to: drought@ccc.ca.gov
2. If necessary, CCC will contact you to review details, discuss project schedule, etc.
3. DWR and CCC will conduct a review of your application and respond to you within 2 weeks on the status of your application.

For more information see <http://www.water.ca.gov/turf/> and/or

Contact CCC: Madeline Journey at (916) 341-3232 or madeline.journey@ccc.ca.gov