

EXHIBIT 3-A



**Monterey Peninsula Water Management District
GRANT PROPOSAL
For
Monterey Peninsula Unified School District**

MLK Sports Complex

Name of Applicant: Monterey Peninsula Unified School District

Invoicing & Contract Name & Contact Information: Brett McFadden, Associate Superintendent of Business Services
(831) 645-1269 bmcfadden@mpusd.k12.ca.us
700 Pacific St, Monterey, CA 93940 or
PO BOX 1031 Monterey CA 93942

Project Manager Name & Contact Information: David Chandler, Coordinator of Renewable Energy and Conservation
(831) 901-7376 dchandler@mpusd.k12.ca.us

Project Site Addresses: 1. Martin Luther King School
1713 Broadway Ave, Seaside, CA 93955

Account: City of Seaside Water: 04-7590-00

Proposed turf removal: **Turf removal 88,750 square feet**
Turf removal funds 22.5 cents per square foot: \$19,969

Proposed Projects: Proposal will partially fund the turf removal and field Retrofit at Martin Luther King Jr. School. The proposal will also set a standard and model for the larger District Wide Master Water Conservation plan. This new field design will reduce turf area of the field by 39%, improve field quality and reduce water use by 79%. The new field design will include a backflow, master valve and flow sensor as well as focused efficient irrigation. This new equipment will allow the Smart controller to manage water budgets as well as detect irrigation issues on the Districts largest field.

The field projects are almost complete. The Turf removal funds will be used to plant native trees and shrubs to create a native habitat and park setting around the new fields.

Preliminary to proposed project

In Spring 2014 MPUSD received a grant from MPWMD to install Hydro-point weather trak ET Pro controllers at the Cal Am serviced sites. The grant proposal was met and exceeded by installing all the controllers, as well as eliminating manual and battery operated zones.

In 2014 MPWMD funded a field retrofit and master water conservation Plan for Ord Terrace Elementary. This project has inspired MPUSD to commit to water conservation landscapes. Ord terrace eliminated 100% of the ornamental turf and replaced it with drought tolerant landscape. Water use has been reduced at Ord Terrace by 63%.

In summer of 2015 MPUSD funded and installed 27 Hydro-point weather trak ET controllers at the City of Seaside and Marina Coast water serviced sites. Making the districts irrigation fully controlled by Smart weather based irrigation controllers

In summer of 2015 MPUSD administration and board approved the use of water utility savings to be used to retrofit our fields irrigation, implement a turf removal plan and set up a turf maintenance program. The MPUSD Energy Program in collaboration with the facilities department has created a six year field retrofit plan and a six year Ornamental Turf removal plan.

In the 2015-16 school year MPUSD is implementing a 5th grade Eco- Ambassador program. Throughout the school year all 5th grade students will take classes from Return of the Native, Pacific Grove Museum and Monterey Art Council. Part of the goal of this program is to educate the students about water conservation and to create a Native garden with passive and active storm water catchment. The designs for these gardens are inspired by the professional designs funded by the Ord Terrace grant.

As the Coordinator of Renewable Energy and Conservation. I am working diligently to conserve water across the whole school district. The momentum of the MPUSD water conservation plan is growing. MPUSD is committed to reduce the need for water across the district. By 2021 we have the goal of reducing ornamental turf by 65% and to retrofit every field with efficient irrigation systems including flow sensors and master valves. MPUSD has been asked to speak at a state level as a leader in school districts water conservation. MPUSD has reduced its water use by 58% compared to the base year of 2013.

In 2016 MPUSD was awarded a Drought Response Outreach Program for Schools Grant to implement Storm water LID projects and education at 4 Seaside Schools.

I look forward to working with MPWMD for many years.

Thank you

David Chandler

Coordinator of Renewable Energy and Conservation

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ATTACHMENT 1

SITE Photo



Monterey Peninsula Unified School District
Monterey Peninsula Water Management District
Water Conservation Grant Proposal



3.78 acres 164,656 square feet

Estimated cost of water annually* \$54,469

Extreme risk of leaks – **Flow sensors and Master valve installed 6/16**

No Back Flow- **Backflow Installed 6/16**

Black pipe- obsolete sizing – **New efficient irrigation installed 6/16**

New Field size installed 240ft x 360ft = 86,400 sqft

New Estimated cost of water annually \$18,101

67% cost avoidance

Monterey Peninsula Unified School District
Monterey Peninsula Water Management District
Water Conservation Grant Proposal



1.84 acres / 80150 sqft

Estimated cost of water annually* \$26,514

Extreme risk of leaks- **Flow sensor and Master valve installed 6/17**

No Backflow- **Backflow Installed 6/16**

Black pipe- obsolete sizing – **Efficient irrigation installed 10/16**

New Field size installed 360ft x180ft = 64,800 sqft

New Estimated water cost annually \$13,576

49% cost avoidance

ATTACHMENT 2
PROPOSED PLAN (Phase 1)

<u>Site</u>	<u>Project</u>	
1. Martin Luther King Jr. School	Sports Complex	<p>Turf removal, field retrofits and water conservation landscape. Calculations show a 79% reduction in water use.</p> <ul style="list-style-type: none">• MPWMD turf removal grant funds will be used to restore native habitat and create park like setting in removed turf areas around field• Soccer field retrofit with efficient irrigation• Track field retrofit with efficient irrigation• Track Graded and rolled

ATTACHMENT 3

BUDGET

**Monterey Peninsula Water Management District
LANDSCAPE GRANT PROPOSAL
MONTEREY PENINSULA UNIFIED SCHOOL DISTRICT**

BUDGET

Turf removal 88,750 square feet

Turf removal funds \$21.5 per square foot: \$19,969 (Plants, benches, landscape material)

MPUSD Budget for Field Retrofit/ Sports Complex \$164,233

MPUSD budget for Native Plants \$2500

ATTACHMENT 4

PROJECT TIMELINE

Upon MPWMD award of proposal it is estimated the native habitat and park setting project Would be complete by April 2017 The Field retrofits are complete. The Track grading is complete. The Track field is growing. The Soccer field is being used by the Elementary school. The intent of MPUSD is to complete Open the fields to the Public on Spring 2017, with a Field opening celebration and community Habitat planting.

ATTACHMENT 5

MAINTENANCE PLAN

The MPUSD maintenance department will maintain the Sports complex as there scheduled maintenance. Aeration, fertilization and seeding standard has been set for all new field retrofits. This maintenance will be scheduled annually. As to date the fields have been aerated and seeded twice.

David Chandler, the MPUSD Coordinator of Renewable Energy and Conservation, will oversee implementation of proposed irrigation projects.

ATTACHMENT 6
WATER SAVINGS

Currently Martin Luther King Jr. School has 239,950 feet of irrigated field. With the current size and irrigation efficiency it used 7,516,749 gallons of water annually. The new proposal will have an irrigated field area of 151,200 square feet, a 37% reduction in size. The proposal will also increase the irrigation efficiency. This proposal will reduce water use 4,516,941, a 60% reduction in water use.

In addition the flow sensor and master valve will eliminate excessive leaks that this site. In 2013 a leak at this site cost the school district \$45,000 in water cost.

ATTACHMENT 7
CURRENT LANDSCAPING INFORMATION

	<u>H2O Requirement</u>	<u>Current Irrigation</u>
Field	Turf (High) 239,950 sq. ft.	Gear Rotors Smart ET controller