

AGENDA

**COMMUNITY AFFAIRS COMMITTEE MEETING
LEUCADIA WASTEWATER DISTRICT**

Wednesday, December 2, 2020 – 3:00 p.m.
Via Teleconference

Pursuant to the State of California Executive Order N-29-20, and in the interest of public health, the District is temporarily taking actions to mitigate the COVID-19 pandemic by holding meetings by teleconference. The general public may not attend this meeting at the District's office due to social distancing requirements.

Members of the public attending via teleconference will be provided with an opportunity to comment on each agenda item prior to Committee discussion.

To join this meeting via Teleconference please dial: (669) 900-6833
Meeting ID: 891 4116 6561 Password: 965362

1. **Call to Order**
2. **Roll Call**
3. **Public Comment**
4. **New Business**
 - A. Review of the Teacher Grant Applications. (Pages 2-10)
5. **Information Items**

None.
6. **Directors' Comments**
7. **General Manager's Comments**
8. **Adjournment**

MEMORANDUM

DATE: November 25, 2020
TO: Community Affairs Committee (CAC)
FROM: Paul J. Bushee, General Manager
SUBJECT: Review of Teacher Grant Applications

Paul J. Bushee

RECOMMENDATION:

Staff requests that the CAC recommend that the Board of Directors:

1. Award Three Teacher Grants totaling \$5,336; or
2. Discuss and provide direction, as appropriate.

BACKGROUND:**Tactical Goal: Services/ Teacher Grant Program Awards**

LWD's Teacher Grant Program was established during 2008. Over the years minor adjustments have been made to the program such as, updating the timeline of the program and increasing the dollar amount of the grant that teachers are eligible to receive. During 2018, the Teacher Grant amount was increased to maximum amount of \$2,000 per grant and the budget was increased to \$6,000. In addition, staff increased its outreach efforts to encourage teachers to apply for the grant.

DISCUSSION:

During September 2020, staff provided the teacher grant information to nine elementary schools, one middle school, and one high school indicating that the submission deadline was November 20, 2020. Staff and RTP contacted all schools and teachers via email to inform and send reminders about the deadline. Staff also updated the LWD website that included a Teacher Grant Program page with a quick link to its home page. RTP posted several Facebook posts about the program.

As a result of these efforts, the District received the following three applications by the deadline:

Received Teacher Grant Applications:

Applicants	School	Amount Requested:	Project
June Honsberger	La Costa Canyon High School	\$2,000	Native Tree Garden / Outdoor Classroom
Nancy Jois	Capri Elementary	\$2,000	The Water Cycle & Erosion
Jennifer Smith	El Camino Creek Elementary	\$1,336	Water Conservation Strategy
TOTAL:		\$5,336	

Staff has reviewed all applications and each qualifies for a grant based on the program's criteria. Also, the total costs for all four grant requests is under the FY 21 budget of \$6,000. Staff is recommending that the grants be awarded to all three applicants. The applications are attached for your review.

Staff recommends that the CAC review the teacher grant applications and forward applications to the Board of Director's at the December 9, 2020 Board meeting for their approval.

th:PJB

Attachments



**LEUCADIA
WASTEWATER
DISTRICT**

LEADERS IN
ENVIRONMENTAL
PROTECTION

Grant Application Form

During the 2020-2021 school year Leucadia Wastewater District will award grants to teachers in local elementary, middle, and/or high schools in LWD's service area. The District anticipates awarding up to three grants up to \$2,000 each.

Use this cover sheet as page one of your application. Identifying information is to be included on the cover sheet only. IN YOUR PROJECT NARRATIVE DO NOT INCLUDE YOUR NAME, THE NAME OF YOUR SCHOOL, OR THE NAME OF YOUR DISTRICT. Completed applications MUST BE emailed to mbrechbiel@lwwd.org or received by Friday, November 20, 2020.

IDENTIFYING INFORMATION

June Honsberger

Teacher's name

9-12th

Grade

Earth Science/Chemistry

Subject

La Costa Canyon High School

School name

San Diego Unified High School District

District

1 Maverick Way, Carlsbad, CA 92009

School address, including zip code, city and zip

Reno Medina

Principal's name

760-436-6136

School phone number

LCC Foundation

Name of parent organization (i.e. PTA or school foundation)

Native Tree Garden and Outdoor Classroom

Project title

\$2000

Grant amount requested

June Honsberger

Teacher's signature

Please tell us how you heard about this program gmail

Poster/flyer Web site Another educator Newsletter Other

Click here: [Email to LWD](#)



VIA EMAIL

MB

Native Tree Garden and Outdoor Classroom

A. Description of Project:

This water use project will have students design and plant trees in an unused space to create an outdoor classroom. When students return to campus in January, we will need our outdoor spaces to also become classrooms. The unused space surrounds the science build and it will be transformed into a safe outdoor workspace.

The science students will research native trees to discover which varieties will grow in our climate and provide shade for the area. The science students will work remotely in groups to design and choose plants for the different areas. They will also choose tables and benches in order to create an outdoor classroom area. The student groups will then present their designs to the class and they will select the plan to be implemented. Once we return to campus students will work safely (masks, their own shovels and tools) to plant the trees and assemble the work tables/benches.

After the trees are planted the students will be responsible for maintaining them for the duration of the school year. Additionally, science students will investigate the benefits of providing a habitat for native wildlife through a variety of garden activities and experiments. They will keep detailed records of tree growth and use the data to make the connections between local climate, native plants, and the water cycle.

This project will involve 120 high school science students grades 9-12. The project design will begin in January and continue on throughout the school year. This proposal requires garden tools, soil, compost, trees, benches and tables. Funds are needed to make this project a success. The grant would be used to purchase necessary supplies. Our foundation will provide umbrellas for the tables.

B. Learning Objectives

Students will understand the water cycle and the symbiotic relationship between local climate, trees and wildlife. Students will study the Southern California climate and relate it to the tree choices they make for the garden. Students will record and graph growth patterns to determine the characteristics of successful gardening.

C. Budget

Item	Quantity/vendor	Amount	Non-Consumables
Outdoor tables	4 @ 200.00- Home Depot	\$800	x
Shovels	20 @ 10.00- Home Depot	\$200	x
Garden Soil & Mulch	60 bags @ 5.00 – Home Depot	\$300	
Trees	Sunshine Gardens/Andersons	\$700	x
	Total	\$2000	



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IDENTIFYING INFORMATION

Nancy Jois
Teacher's name

Kindergarten
Grade Subject

Capri Elementary Encinitas USD
School name District

941 Capri Road Leucadia CA 92024
School address, including street, city and zip

Carrie Lancon (760) 944-4360
Principal's name School phone number

Name of parent organization (i.e. PTA or school foundation)

The Water Cycle + Erosion
Project title Grant amount requested

Nancy P. Jois
Teacher's signature

Please tell us how you heard about this program

Poster/Flyer Web site Other Educator Newsletter Other



To Whom It May Concern:

I am applying for a grant in the amount of \$2,000.00 to teach 4 kindergarten classes about the water cycle, erosion and landscaping in our dry Southern California climate to meet the Next Generation Science Standards for kindergarten. With these funds, these 4 classes would participate in a project learning about the water cycle, erosion and xeriscaping. Specifically, students will create models of individual water cycles, use their models to demonstrate the concept of erosion, and add plants to our school campus rain garden to help prevent erosion / water runoff into a storm drain.

- Students will investigate the steps of the water cycle. They will describe each step of the water cycle and the state of matter that the water is in during each step. Students will demonstrate their understanding of the water cycle by designing and building their own water cycle model. They will take these models home to explain the water cycle to their families.
- By creating these models, students will also be able to demonstrate how water carries soil and debris to the ocean and how erosion occurs.
- After creating these models, students will go out with district landscaping personnel and explore our school rain garden and plant drought tolerant plants to help mitigate erosion near a storm drain.

This project consists of 85 students and 4 teachers. We would use \$510 of the funds to make individual water cycle models (materials per mode \$6.00 x 85= \$510.) We would use \$1,000 to buy plants for students and district personnel to plant in our school raingarden Our project would begin in January 2021 and filming would conclude by the end of February 2021. We would use \$500 for video production to edit and assemble the project summary that will be presented to educate the community.

As a result of this project students will be able to:

1. Create and explain a water cycle model;
2. Define erosion and explain one way they can help stop erosion;
3. Understand that the water they divert to the rain garden will not go down the storm drain;
4. Distinguish which succulents / native plants are the best choice for a rain garden because they are drought resistant and become aware of the vegetation at their school; and
5. Use their knowledge to teach others.

Budget: \$2,010

\$510 for Supplies for 85 water cycle models

\$1,000 for purchasing succulents / native plants for the rain garden

\$490 for video production (project summary)

Thank you for your time and consideration.



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IDENTIFYING INFORMATION

Jennifer Smith

Teacher's name

4

Multiple Subjects

Grade

Subject

El Camino Creek

Encinitas

School name

District

7885 Paseo Aliso. Carlsbad, CA 92009

School address, including street, city and zip

Jodi Greenberger

760-943-2051

Principal's name

School phone number

PTA

Name of parent organization (i.e. PTA or school foundation)

Water Conservation Strategies

1,336.00

Project title

Grant amount requested

Jennifer Smith

Teacher's signature

Please tell us how you heard about this program

Poster/Flyer Web site Another Educator Newsletter Other



VIA EMAIL

Click here: [Email to LWD](#)

I am pursuing a grant to fund a “Water Conservation Strategy” project for my 4th grade class. Students will learn about the environmental effects of importing water, find their “water footprint” and employ conservation strategies to reduce their impact. Strategies will include water conservation behavioral changes, re-using water while growing hydroponic crops and harvesting rainwater. Students will also explore the benefits of rainwater harvesting, calculate our school’s rain harvest potential and explore and engineer an intended use for our school’s 2, 205 gallon Bushman water cisterns.

My class has 25 students who are in class 2 days a week and do asynchronous learning 3 days a week. Our hydroponic crops will be shared with the St. Andrews food pantry and the rain cisterns will continue to serve a purpose for years to come.

The Water Conservation Strategies project will begin with a discussion of the environmental impacts of importing water from the Bay Delta and Colorado Rivers and the water energy nexus. The students will do an exercise to discover their “water footprint” and think of strategies they can use to conserve water. We will explore the benefits of hydroponic farming and compare water usage of a crop grown in my hydroponic system to a crop grown in soil. Students will learn about the benefits of rainwater harvesting and will explore ways to use the school’s rain cisterns. They will find their school’s rain water harvest potential by calculating the area of different buildings on campus and plugging the data into a rain harvest equation: $\text{Roof Area (ft}^2\text{)} \times \text{Precipitation Amount (in)} \times 0.623 = \text{Amount Collected (gallons)}$. They will then explore ways to use the water and engineer the solution. There are several possible uses- one being to water the compost, one to water trees, and one to water an ornamental planter. All will entail re-installing the cisterns slightly elevated on level cinder blocks and gravel, a pump, first flush diverter and leaf catcher. In kind resources include the hydroponic system, Bushman cisterns and any additional help needed by EUSD Facilities. I will be consulting with the Rain Harvest Certified Environmental Educator and hydroponic farmer.

This program will reside at our school, specifically, the hydroponics will grow in a quad area and the rain cistern will be re-installed in the garden.

My goal for this project is to give my students an authentic learning experience through growing hydroponically and rainwater harvesting. I want my students to have an understanding of water as a precious resource, the environmental effects their behaviors have on ecosystems, and give them exposure to alternative water conservation strategies.

Budget:

Water Conservation Strategies Budget	
Item	Cost
Nutrients	100
Hydroton	40

Root Riot	25
pots	45
pH up	12
pH down	32
H2O2	32
Ph and conductivity calibration	50
Soil	30
pelleted seed and seedlings	40
measuring cup	2.5
Simple Green	12.5
pump	200
first flush diverter	30
hose and pipe and fittings	30
cinder blocks	80
gravel	60
leaf eater	50
Consulting 23 hours @25/hour	575
Total	1336