

a Message From Wally

DEAR FRIENDS,

I AM SO EXCITED TO WELCOME YOU TO MY WATER CONSERVATION CAMP! ME AND MY FRIENDS AT THE INLAND EMPIRE UTILITIES AGENCY (IEUA). A REGIONAL WASTEWATER TREATMENT AGENCY AND WHOLESALE WATER PROVIDER. HAVE WORKED TOGETHER TO BRING YOU THIS BOOKLET FILLED WITH MY FAVORITE CAMP ACTIVITIES TO HELP YOU BECOME A WATER-WISE. ENVIRONMENTAL STEWARD, JUST LIKE ME! I HOPE THIS CAMP WILL ENCOURAGE YOU TO GET UP. BE ACTIVE AND LEARN SOMETHING NEW. I'D LOVE TO SEE ALL OF YOUR AWESOME CAMPSITES AND ACTIVITY RE-CREATIONS, SO BE SURE TO SHARE YOUR PHOTOS WITH ME ON SOCIAL MEDIA BY SENDING MY FRIENDS @ IEUAWATER A MESSAGE WITH THE #WWCC

TALK TO YOU ALL SOON!



YOUR FRIEND,

WALLY

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	THURS	TREAT THURSDAY	DIY FLOWER BOUQUET	NATURE PRINT BANNER	T-SHIRT THURSDAY
	WED	WATER AUDIT WEDNESDAY	WATER-WISE GARDEN	WETLANDS WEDNESDAY	WATER PROFESSIONAL WEDNESDAY
	TUES	BUILD YOUR OWN BIRD FEEDER	NATURE NIGHT	PLAN A PICNIC DAY	SKETCH DAY
	NOM	CAMP SUNRISE	S'MORE MONDAY	MOVE MONDAY	SNOW CONE SOCIAL
	SUN	WEEK 1 BEGINS	WEEK ≥ BEGINS	WEEK 3 BEGINS	WEEK 4 BEGINS

WEEK 1 | DAY 1

CAMP Sunrise

What better way to kick off camp than by watching the sunrise! Take a trip to the Chino Creek Wetlands and Educational Park or set up in your own yard with friends, family members and pets to take in the beautiful view. You can even prepare some treats the night before to snack on while you watch. Feel free to explore the park after, too!



WALLY'S WATER WISDOM:

The Observation Tower at the Chino Creek Wetlands is my favorite place to watch the sunrise! It gives you the best view of the entire 22-acre park.



WEEK 1 | DAY 2



To build your own bird feeder, you'll need:

- Popsicle sticks
- Glue
- Bird seed (or sunflower seeds)
- String

Glue your popsicle sticks together to construct your bird feeder. Make sure you have a strong base to hold the bird seed! You can use paint, markers or stickers to give your bird feeder a fun design. Use string to hang your bird feeder, or place it on a flat surface. For a quicker alternative, carefully poke 3 holes equally spaced along the edges of a paper bowl, fill with bird seed, and hang with string. Throughout the month, try to identify the birds that come to your feeder!







Oak Titmouse



House Finch



Sparrow

WALLY'S WATER WISDOM: The Chino Creek Wetlands and Educational Park is home to a diverse variety of local and migratory birds. Throughout the park are bird boxes to house sparrows who help control the insect population in the park.

This is a form of biocontrol.







WATER AUDIT WEDNESDAY

How much water do you use in one day? Spend the day tracking your household's water habits and think about the changes you can implement to use water more efficiently!

TASK	TIMES PER DAY	APPROX. NUMBER OF GALLONS USED	DAILY TOTAL		
Shower 5 Minutes Or Fewer		x 10 gallons			
Shower Longer Than 5 Minutes		x 25 gallons			
Brush Teeth (running water off)		x 1 gallon			
Brush Teeth (running water on)		x 5 gallons			
Wash Dishes In The Sink (running water off)		x 5 gallons			
Wash Dishes In The Sink (running water on)		x 27 gallons			
Run Full Load In The Dishwasher		x 5 gallons			
GRAND TOTAL					

WALLY'S WATER WISDOM:

According to US Geological Survey, the average person uses 80-100 gallons of water each day. Even though water comes out of your faucet at home, water is a limited resource so it's important we use it wisely!





Groundwater important to reduce SOIL (FERTILIZER & PESTICIDES) pollution as sand/gravel much as possible. As сгал you add your ingredients to your aquifer, notice ROCK how the water sand/gravel table rises and falls when each new Groundwater item is added and what happens to the water when the well is pumped by sucking on the straw.

soda sprinkles cookie crumbs ice cream gummy bears cookie crumbs

WALLY'S WATER WISDOM:

Swap soda for apple juice, cookie crumbs for graham cracker crumbs, gummy bears for berries, ice cream for yogurt and sprinkles for granola to enjoy a healthier alternative!



Turn your trash into treasure! Head outside or look for items around your house to repurpose and turn into a masterpiece.

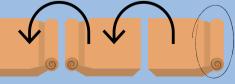
WALLY'S WATER WISDOM: Did you know water can also be repurposed in a process called the recycled water cycle? In fact, IEUA owns and operates four water recycling facilities that clean wastewater for distribution throughout the region.

Follow these directions for a DIY Brown Bag Notebook!



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Stack them flat on top of each other, alternating the direction of the opening.

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Punch 3 evenly spaced holes through the spine of the notebook.

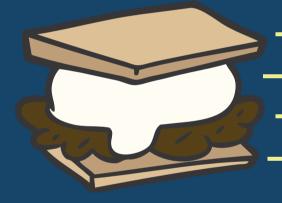


Use string to tie a knot through each hole, securing the book together. Don't forget to decorate it!

Fold all the bags in half.



Have you ever thought about how much water it takes to produce some of your favorite foods and beverages? Let's find out how much water is in one of my favorite snacks... a s'more!



WALLY'S WATER WISDOM: Solar panels create power by using energy from the sun and can be a great tool for saving energy. In fact, IEUA has solar panels installed at many of our facilities! The Chino Creek Wetlands has a great view of the solar panels installed at our Regional Water Recycling Plant No. 5.



Wheat flour is a main ingredient in graham crackers. Water helps wheat grow.

Water is one of the primary ingredients in marshmallows along with sugar and gelatin.

The Cocoa tree, which provides the main ingredient of chocolate, requires water to grow.

Solar S'mores

• Cardboard box • Plastic wrap • Foil • Tape

► 0.2 g

1.2 g

450 gal.

0.2 g

• Marshmallows • Graham crackers • Chocolate

1) Line the inside of a cardboard box with foil. A shoebox works perfectly!

2) Assemble your s'mores and place on top of the foil. Cover the top of the box with plastic wrap and tape it down.

3) Carefully move your box and place in direct sunlight for 1-2 hours or until done. The sunlight will warm the box and cook your s'mores for you!



You can't say you've gone to camp without spending a night outdoors! Set up camp in your backyard and spend the night making s'mores, watching movies and learning about IEUA of course!

Wally's Video Recommendations:

- <u>Inland Empire Regional</u> <u>Composting Facility</u>
- <u>IEUA Regional Water</u>
 <u>Recycling Plant No. 5 Tour</u>
- <u>IEUA Renewable Energy</u> <u>Initiatives</u>



DIY Projector

You'll need: • Cardboard box • Magnifying glass • Scissors • Hot glue • Phone or tablet

1) Pop the lens out of your magnifying glass and trace it on one of the shorter sides of your box. A black or dark box works best!

2) Using your outline as a guide, carefully cut out a hole slightly smaller than the size of your outline.

3) Carefully hot glue your magnifying glass lens on top of the hole you just cut out. You may need to ask your parent or guardian for help!

4) You're done! Make sure to place your phone or tablet in the box with the video playing upside-down for it to project properly onto your wall.



WEEK 2 | DAY 3

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Today let's head outside and plant our very own water-wise garden! Water-wise gardens are perfect for warmer weather since they require little to no water. Plus, they are beautiful additions to any landscape. Grab your gardening tools and get planting!

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WALLY'S WATER WISDOM: Water your garden in the early morning before the sun comes up or at night after the sun goes down to reduce evaporation.



Plantable Seed Tape

1) Measure out 12 in. of toilet paper and cut it in half lengthwise. You can measure out more or less depending on the size of your garden.

2) Read the directions of your seed packet to see how far apart each seed should be planted, then use a marker and ruler to mark each spot on your toilet paper where a seed should go.

3) Start gluing your seeds to the toilet paper to make your seed tape!

4) Once the glue has dried completely, roll your seed tape back onto the toilet paper tube and store in a cool, dry place until ready to plant.

5) To plant, roll out the seed tape onto a soil surface and cover with the recommended amount of soil. Water with a fine nozzle.

What You'll Need:

- Ruler
- Marker
- Toilet paper
- Glue
- Seeds
- Toilet paper tube



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DIY FLOWER BOUQUET

While our water-wise garden grows, let's create a bouquet of our own! Here's what you'll need: • Coffee filters • Washable markers • Clear glass • Water • Green pipe cleaners



Flowering plants produce seeds within a fruit and are the reproductive organs of the plant. To reproduce a plant, insects and birds must pollinate it. However, not all plants have flowers!

The stem supports the plant and delivers food and water.

Leaves provide food and oxygen through a process called photosynthesis.

Roots drink/absorb water from the soil.

I FAVES

STEM

ROOTS

WALLY'S WATER WISDOM: The Chino Creek Wetlands and Educational Park is home to over 22,000 water-wise plant species!

Chromatography Flower Bouquet

1. Flatten out some coffee filters and create a circle or simple line design in the middle using your markers. (Secondary or tertiary colors work best.)

2. Fold your coffee filters and place them in a glass with about one inch of water. Watch as the colors start spreading and separating as the water travels through the filter. What colors came out of the ones you started with?

3. Once the filters are completely dry, bundle them into flower-like shapes and create a twist at the bottom. This will be the attachment point for the stem.

A. Create the stem by attaching a green pipe cleaner to the bottom of the coffee filter by wrapping it around the twist.











SALT DOUGH STARFISH

Did you know all the trash and debris on your street can make its way to the ocean via underground storm drain pipes? This is called pollution. There are two different types of pollutionpoint-source pollution, which comes from a single place, and nonpoint-source pollution which can come from many places. By recycling, picking up after our pets, and using reusable items such as bags and straws, we can contribute to a cleaner, healthier ocean for ourselves and all of our oceanic friends...like the starfish!



Salt Dough Starfish*

- 2 cups flour 1 cup salt 1 cup water
- baking pan
 toothpick
 paint (optional)
- 1. Preheat oven to 250° F. Make sure you ask your parent or guardian for help!
- 2. In a large mixing bowl, combine flour, salt and water. Mix well.
- 3. Roll your dough into a small ball, break it into 5 equal pieces and roll them into log shapes.
- 4. Stick the 5 log shaped pieces together to form your starfish.
- 5. Use a toothpick to make a line on each star arm and poke dots around the lines.
- 6. Bake for 2 hours or let it air-dry.
- 7. Don't forget to paint it! Many starfish are brightly colored. *not edible

WALLY'S WATER WISDOM:

If you see a plastic bag on the street, do you think it's considered pointsource pollution or nonpoint-source pollution?



It's nonpoint-source pollution because we can't identify exactly where or who the bag came from! Today is all about getting active and stepping outside. Grab a friend, a family member or a pet and hop on your bikes or go for a walk. Don't forget to bring water! While you're out, see if you can spot any of the following items:

WEEK 3 | DAY 1

A Purple Pipe. A purple pipe indicates recycled water. This means it is water that has been treated and cleaned through the wastewater treatment process for irrigation at parks, soccer fields and even at our Chino Creek Wetlands!

Anyone Watering Their Lawn. Take note of what time you see people watering their lawns. The best time to water your lawn is in the early morning before the sun comes up or at night after the sun goes down since the heat from the sun won't cause the water to evaporate as quickly.

Trash Or Animal Waste. If you see any trash or animal waste on the sidewalk, pick it up and properly dispose of it in a trash can or recycling bin with a parent or guardian's help. By doing so, you'll be reducing the amount of pollution that ends up in our oceans. The starfish and sea turtles will thank you!

Sewer Openings. Pay attention to how many sewer openings you can spot. All those openings lead directly to our ocean, so it's important to make sure water is the only thing passing through!

Beautiful Lawns. How many nice gardens or lawns do you see? The best way to get a beautiful lawn is by forgoing harsh chemicals such as pesticides and fertilizer since rainfall can spread it through pipes into our oceans. Utilizing natural items such as compost to help your plants grow, or ladybugs to help keep pests away are great alternatives!



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WALLY'S WATER WISDOM:

Just as the sparrows in our wetlands control our insect population, using ladybugs to combat the aphids that eat your plants is another form of bio control.



It's time for a picnic! Set up in your own yard with a blanket and some treats or head over to the Chino Creek Wetlands. Sitting under the shade at the amphitheater is my favorite place to enjoy a picnic!

Picnic Treat Ideas

Fruit Skewers (~127 gal. of water)
1) Gather your favorite fruits. I like to use strawberries, bananas and blueberries.
2) Carefully cut the fruit into bite-sized pieces if they aren't already.
a) Slide them arets a skewer.

3) Slide them onto a skewer.

Apple Sandwiches (~81 gal. of water)
1) Carefully core an apple and cut it horizontally to

make flat, circular slices.
2) Stick two apple slices together with the filling of your choice to create a sandwich. My favorite is

peanut butter!

Mini Sandwich Squares (~140+ gal. of water depending on ingredients)

1) Carefully cut a slice of bread vertically and horizontally through the center to create four equal squares.

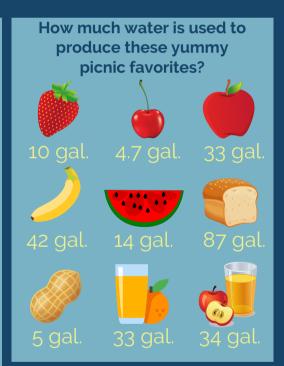
2) Gather the sandwich ingredients of your choice and carefully cut into four equal squares.
3) Assemble your sandwich with your desired

3) Assemble your sandwich with your desired condiments and enjoy!



WALLY'S WATER WISDOM:

Take into consideration the amount of water that goes into your favorite picnic foods and drinks. We have California's water to thank for them!







WETLANDS 🌤 WEDNESDAY

Our beautiful Chino Creek Wetlands has over 22 acres and 1.7 miles of walking trails. Have you explored it yet? If not, today's the day!



WALLY'S WATER WISDOM:

Notice anything green floating on top of the ponds? That is a small aquatic plant called duckweed! Duckweed is really important to our wetlands. Not only does it help purify the water, but it's also a yummy treat for our ducks and birds.





NATURE Print Banner

Trees make beautiful outdoor scenery, but have you ever thought of using the leaves that naturally fall off trees as decoration indoors?

- - Develops male and female flowers
 - Can grow up to 105 ft. tall
 - Hosts several species of butterflies, pigeons, deer, and acorn woodpeckers



- Develops male and female flowers that develop into walnuts
- Can grow up to 150 ft. tall
- Wood was once used for airplane propellors



- Develops large strings of flowers that look like cotton
- Can grow up to 60 ft. tall
- Native bees love to visit this tree for pollen and nectar

- Develops little balls of red flowers
- Can grow up to 105 ft. tall
- Leaves are fuzzy on one side

💛 Nature Print Banner 🌾

- Paper String
 - Tape Scissors
- Crayons without wrappers Leaves that have fallen off trees
- 1) Carefully cut a piece of paper through the center vertically and horizontally to make 4 equal squares.
- 2) Cut the 2 corners off at the bottom of each square.
- 3) Gather a few leaves that have already fallen off of trees outside your house or in your neighborhood. Be sure not to pull them off!
- 4) Place one leaf on a flat surface with one of the pieces of paper on top. Use the side of an unwrapped crayon to gently shade on the paper, revealing the outline of the leaf. Repeat on the other pieces of paper.
- 5) Cut one piece of string to the width of all of your pieces of paper and tape the tops of each paper to the string to form your banner. No[®] you're read to hang it in your desired location!

WALLY'S WATER

WISDOM: All four of these trees are deciduous, meaning that they shed their leaves in the winter. You can find all four species (and more) at our Wetlands!



Only one more week left of camp and you deserve a reward! Flip through the book and pick your favorite activity to do today or fill out this water saving checklist!



WALLY'S WATER WISDOM:

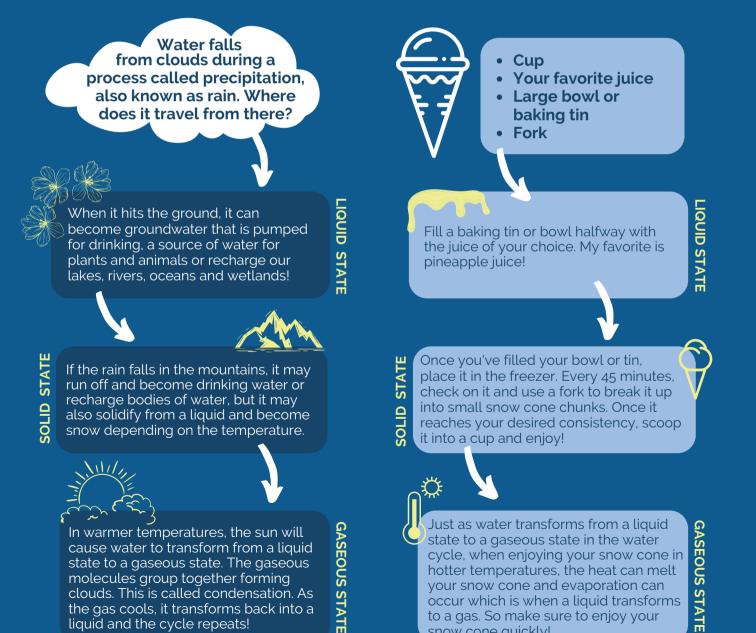
Remember to message your camp photos to @IEUAWater on social media and use the #WWCC! I can't wait to see how much fun you're having and all that you've learned!



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Are you familiar with the water cycle? If not, today's the perfect day to learn and enjoy a sweet treat while you're at it.



snow cone quickly!

liquid and the cycle repeats!



Learn how to draw my good friend and Chino Creek Wetlands' mascot, Owlie the Owl, in just a few simple steps! Grab a pencil and paper and check out IEUA's YouTube channel @IEUAWater for the full video. Don't forget to post your masterpieces for me to see!



WEEK 4 I DAY 3 WATER PROFESSIONAL WEDNESDAY

What does a water professional do? Let's meet two of IEUA's very own water professionals and get a glimpse at a day in their life!



Jesse Pompa, Manager of Grants

I've worked at IEUA for ten years. When I started, I was responsible for the Agency's air quality compliance, then I moved into recycled water and energy planning, followed by engineering and finally I moved into our Grants Department. In order to fund some of our water infrastructure projects, IEUA applies for grants from government agencies. I manage a group of people that make sure we meet the grant requirements and also apply for new grants to get more funding in the future. I never truly appreciated the value of water conservation until I

worked in the water industry. Even though about 70 percent of Earth is made up of water, less than one percent of all the water on Earth can be used for drinking water. Water is and always will be an extremely valuable resource. I love that I can help address water needs in my community and contribute to keeping our community healthy.

I've been working with IEUA for 9 months. I started as an intern and later was given an opportunity to join the Agency full-time. I am mainly responsible for collecting water samples from our various monitoring wells. These monitoring wells help us determine the water quality of the groundwater. Some of the things I test for include pH levels, total dissolved solids (TDS), conductivity and dissolved oxygen. When working in the water industry, you never stop learning. There are so many aspects to the water industry that there is always room for improvement. I love being able to learn something new each day and that I am contributing to providing clean water to the community.

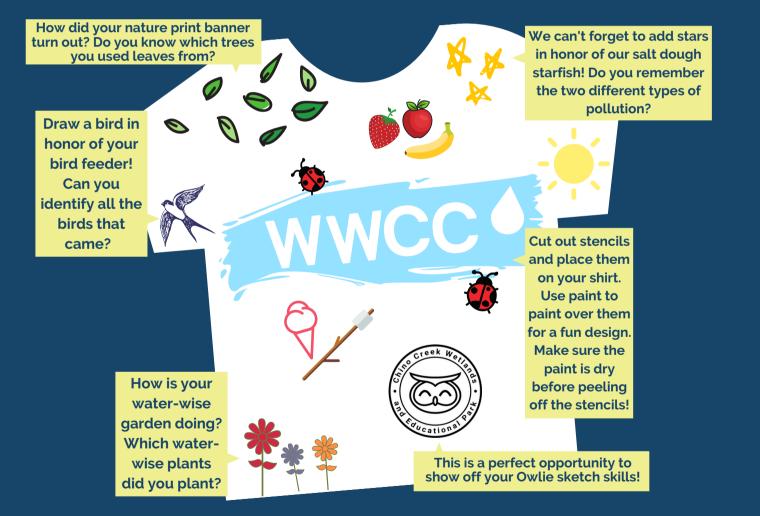


Daisy Puga, RW/Groundwater Recharge Maintenance Technician

T – S H I R I T H U R S D A Y

Only one more day left in our at-home camp and today is going to be a good one! What have you learned during camp this month? Let's get creative and document it on a t-shirt!

WEEK 4 | DAY 4



WALLY'S WATER WISDOM: What were your favorite camp activities? Make sure to add them on your shirt!



WEEK 4 | DAY 5 CAMP SUNSET

Let's end our camp the way we started. Visit the Chino Creek Wetlands or set up in your own yard to watch the sunset tonight. Congratulations on a successful Water Conservation Camp!



WALLY'S WATER WISDOM:



The Chino Creek Wetlands and Educational Park is open daily from sunrise to sunset, so make sure you follow the rules by arriving and leaving on time!



CONNECT WITH US



@IEUAWATER

6075 Kimball Avenue, Chino, CA 91708

www.ieua.org

