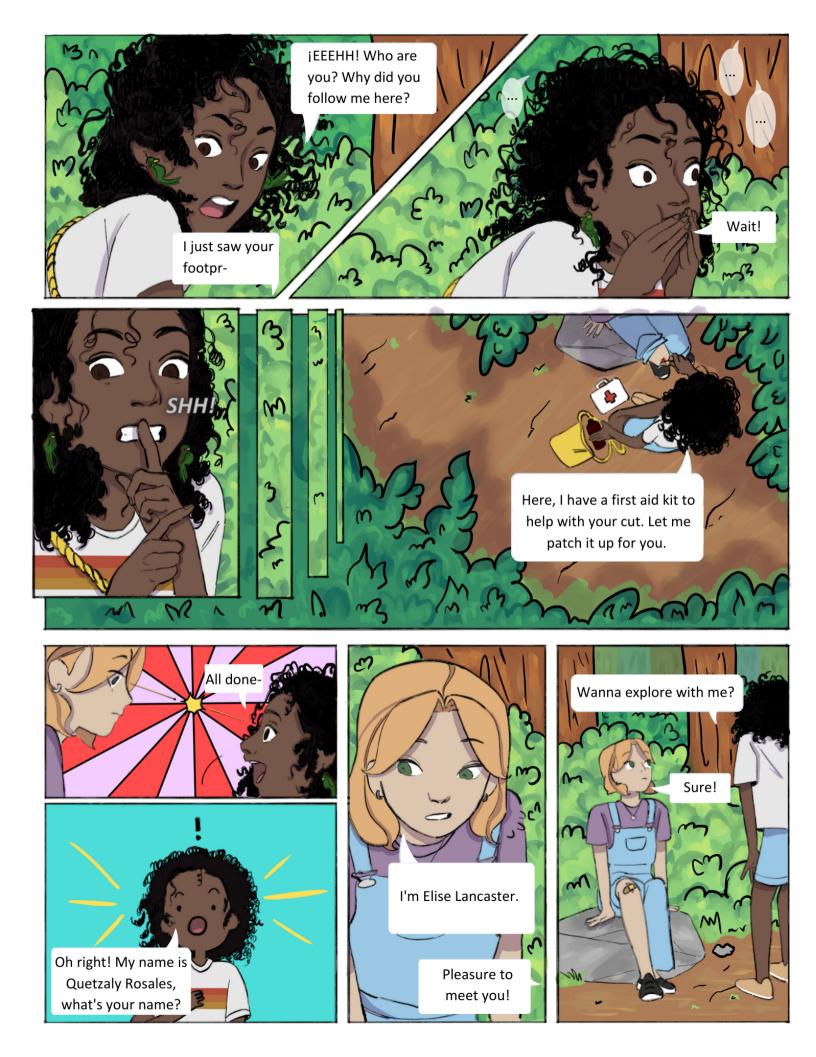
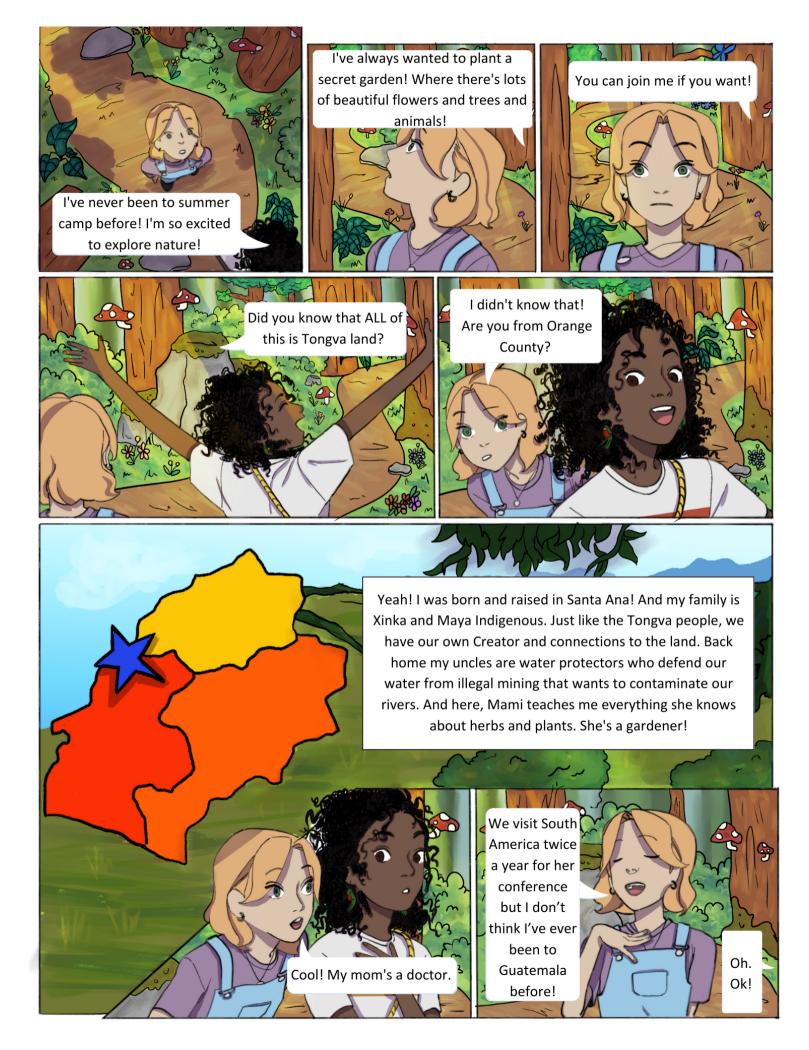


When two middle schoolers go to summer camp and plant a secret garden, they unearth an environmental justice issue impacting their hometown.













Yeah! When I was younger, my parents and I would always play in the soil and come home all dirty.

Oh, my parents don't have time for all that. They just hire a landscaper for our garden. My dad is busy running our family business. It's been around since the 1930s.



Oh, that's nice. My dad works several jobs. He did landscaping once.



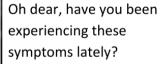












- · ANEMIA
- · JOINT AND MUSCLE PAINS
- HIGH BLOOD PRESSURE
- ASTHMA
- ABDOMINAL PAIN •
- DIZZINESS
- HEADACHES
- RASHES
- MEMORY LOSS 4 •
- . LEARNING DISABILITIES
- . BEHAVIORAL ISSUES
- HEARING PROBLEMS
- SPEECH PROBLEMS
- . SEIZURES



THE FEDERAL THRESHOLD FOR

THE AMOUNT OF LEAD THAT IS UNSAFE FOR CHILDREN IS 400

PPM (PARTS PER MILLION)

80 PPM LEAD HAS NO

BODY AND THERE IS

city have been

testing positive for

lead in their blood.

ESSENTIAL BIOLOGICAL

FUNCTIONS IN THE HUMAN

NO SAFE LEVEL OF LEAD

AND THE STATE THRESHOLD IS

EFFECTS OF LEAD

CHR

Well, I feel dizzy and have a lot of rashes. It's similar to stuff Papi had in the past.



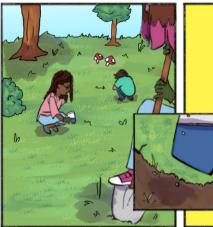


I suggest we take you and your dad to a clinic to have your blood tested for lead.









Guys! I found something! I can't believe this!







That explains it, Juan! My parents also tested for high lead levels which must mean this isn't the only area with contaminated soil. We've got to do something!

P 92



What can we do? We're just kids, do you think the adults will believe us? We have the data and the samples! If we can make a small change, let's do it!

> The people united will never be defeated!

El pueblo unido jamas sera vencido!





We found that Santa Ana residents are exposed to high levels of lead. This is important to our community.

My family and I got sick from lead in soil. Kids are the most vulnerable to lead effects, so if we don't take action, more children will get sick!

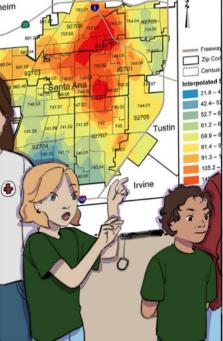


EADIS

OUR SOIL

Using native plants like California Buckwheat, California Telegraph weed, and mycorrhizal fungi, we can absorb and remove the lead from our soil. This is called bioremediation and is fairly affordable!





We can continue to educate the public and provide medical assistance to communities affected by lead.

The community must be involved in decision making when crafting future solutions and mitigation strategies because this is their home and have faced these health issues directly!



I'd like to end by saying the Xinka people, my people, my family and friends have been fighting for a better life—we've always been warriors. The Xinka and other Indigenous groups in OC like the Acjachemen and Tongva people, in line with our ancestral ways of organizing, have worked as a community! Soll LEAD CONTANJOUER Soll LEAD ANA CONJOUER IN SANTA ANA conjection in story of change The story of change IR FILLIANE CUR Hello campers! Welcome to Mariposa Summer Camp, we're super excited to have you here! We've got something special planned for you today.

That's right. This summer, we plan to focus on raising awareness on soil lead contamination and taking action!

FREE



Yes! With the community and experts, we restored this place!

10



2

This garden is a symbol of hope and resilience. That even us kids can make a difference.



END.

We hope to see you join us in the fight against soil lead in Santa Ana!

Soil Lead in Santa Ana

Lead can acutely and chronically affect one's health, causing symptoms like asthma, seizures, behavioral health issues, and more. After local Santa Ana reporter (now national reporter) Yvette Cabrera began her own research on lead in the soil with community members, the city refuted and claimed the evidence wasn't strong enough to move forward. Because of this, OCEJ, UCI, and a youth-based organization called Jovenes Cultivando Cambios (AKA Youth Cultivating Change) worked together to collect more soil samples. The samples were then used to produce various maps and scientific research that relays how much of the city is affected by soil lead.

In 2022, OCEJ and other community organizations worked to fight for environmental justice policies in Santa Ana's General Plan Update, including lead policies like removing lead from the soil (prioritizing a method called bioremediation) and more access to blood lead testing. The traditional method of remediation is called "dig and dump," where the soil is removed and taken elsewhere, however, this method is expensive, labor intensive, and can put the safety of laborers at risk if proper safety precautions aren't taken. Bioremediation uses native plants and fungi to absorb the lead out of the soil, actually solves the problem instead of moving it somewhere, and is cheaper than traditional methods.

OCEJ is now in the phases of working with the city, OC Healthcare agency, and other community organizations like GREEN Madison Park Neighborhood Association to implement the lead policies and raise awareness throughout the Santa Ana community. Some of these methods of raising awareness include this comic book, tabling at various events, community presentations, focus groups, and the development of an Environmental Health Equity Action Plan (EHEAP) based on the findings of the focus groups.

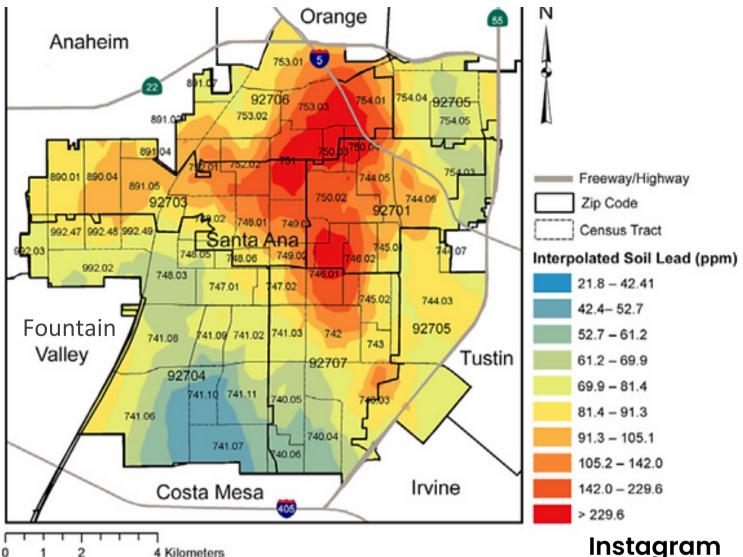
English Version of the EHEAP

Additionally, If you are interested in getting involved with our soil lead work, scan the following QR code or email maya@ocej.org.



Spanish Version of the EHEAP





Those Most Affected

- People of color
- Lower income
- Less college educated residents
- More renters
- More residents without health insurance
- Residents with immigrant status background
- Limited English proficiency
- Latinx residents

The with the areas soil highest amount of lead are downtown and central Santa Ana, where the area with the as lowest amount is South Coast Plaza, towards Costa Mesa. It is also significant to note that the dark yellow color from 81.4-91.3 ppm is already surpassing the California state threshold for lead of 80 ppm.

Instagram





Website

Meet the Writers & Illustrators



Helen Yajaira Estrada is a Xinka & Maya indigenous student, poet, and historian born and raised in Santa Ana. Having taken AP Environmental Science during high school, Estrada was recognized with a Science Excellence award for her love and dedication for the field. Estrada hopes to continue to embrace their love for science, art, and history in her community and beyond!



Victoria Gomez is a high school graduate and earned her AA degree at Santa Ana College. She is going to California State University Long Beach to major in animation. Victoria eventually wants to purse a career within this industry. In her free time, she likes to pick up new hobbies such as rollerskating and crocheting.



Angelu Lesaca is an undergraduate student and researcher at the University of California, Irvine. Her field of study is Environmental Science and Policy, with a minor in Earth and Atmospheric Science. When she's not immersed in her studies, you can find her exploring the trails of Southern California and identifying local plant life.



Pearl Yoon is a rising freshman at UC Santa Barbara, majoring in biology. Her fascination with ecology and living systems naturally drew her to become invested in environmentalism. Outside of academics, she loves dedicating her time to visual storytelling, whether it be by reading webtoons and manga or storyboarding and animating.

