

Webinar
2/11/2021
11am



GET READY TO RECYCLE & COMPOST AT SCHOOL



co-sponsored by:



CRRA
Ending waste.



Housekeeping

We are recording - please turn off your video if you do not want to be recorded

Please mute your audio and put questions for speakers in the chat

The video recording, presentation slides and additional resources will be available at <https://ncrarecycles.org/zero-waste-schools/>

Agenda

Presentations:

- Rae Carranza, Environmental Scientist, Department of Resources Recycling Recovery (CalRecycle)
- Ahmad Sheikholeslami, Assistant Superintendent, Business Services, Pleasanton Unified School District
- Devin Jackson, Foothill Middle School, Mt. Diablo Unified School District

Prepared questions from NCRA schools committee

Follow up questions from attendees

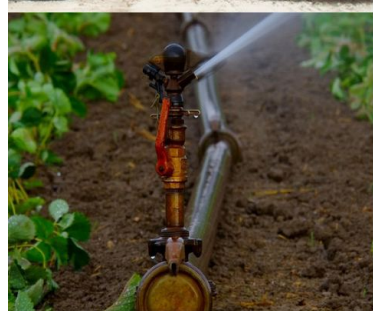
CalRecycle Overview of Laws Impacting Schools and School Districts

Rae Carranza
Environmental Scientist
Department of Resources Recycling
Recovery (CalRecycle)



Relevant Laws

- **AB 32 California Global Warming Solutions Act (2006):** The first comprehensive program of regulatory and market mechanisms to achieve real, quantifiable, cost-effective reductions of greenhouse gases (GHG).
- **AB 32 Scoping Plan:** contains the main strategies for reducing GHG emissions. Includes landfill methane control, increasing efficiency of landfill methane capture mechanisms, high recycling/zero waste procedures, future research



Other Relevant Laws

- **AB 341 Mandatory Commercial Recycling (2012):** Requires public entities (e.g. businesses and schools) that generate four cubic yards of solid waste per week to reuse, recycle, compost, or otherwise divert solid waste from disposal.
- **AB 1826 Mandatory Commercial Organics Recycling (2016):** requires public entities (e.g. businesses and schools) that generate two cubic yards of solid waste (total of trash, recycling, and organics) per week to implement an organic waste recycling program to divert food waste, green waste, landscape and pruning waste, nonhazardous wood waste, and food-soiled paper waste that is mixed in with food waste.
- **AB 827 (2020):** Builds off AB 341 and AB 1826. Public entities (e.g. businesses and schools) must make recycling and organic recycling containers available to students. Wherever recycling or organic waste is generated a school must provide an appropriate container adjacent to the solid waste (trash) container to collect and divert recycling and organic waste. These containers must be placed adjacent to trash containers and be **visible, easily accessible, and clearly marked**. Note internal containers must either conform to the color requirements or have labels that meet the requirements.



Local Education Agencies and SB 1383

- **SB 1383 Short-Lived Climate Pollutants: Organic Waste Methane Emissions Reduction (2022):** Schools and local education agencies will be required to prevent, reduce the generation of, and recycle organic waste. Additionally, in 2024, schools and local education agencies with an on-site food facility will be required to recover edible food.
- “Local education agency” means a school district, charter school, or county office of education that is not subject to the control of city or county regulations related to solid waste.



In addition to collection and diversion requirements:

- [Tier 2 \(2024\) Edible Food Recovery- Food donors](#) must arrange to recover the maximum amount of their edible food that would otherwise go to landfills
- CalRecycle developed a [Model Edible Food Recovery Agreement](#)

In the Classroom

- If schools have “snack time” that occurs in the classroom, would the classroom need an organics bin?

It depends on the type of collection service that the school has. For example, if organics is present in the classroom and the school has a three-container collection service, then an organics container would be required to be placed alongside the trash and recycling containers in the classroom.

Resources

- [MORe FAQ](https://www.calrecycle.ca.gov/Recycle/Commercial/Organics/FAQ/)
<https://www.calrecycle.ca.gov/Recycle/Commercial/Organics/FAQ/>
- [SB 1383 FAQ](https://www.calrecycle.ca.gov/organics/slcp/faq) <https://www.calrecycle.ca.gov/organics/slcp/faq>
- [PR Toolkit](https://www.calrecycle.ca.gov/recycle/commercial/organics/prtoolkit)
<https://www.calrecycle.ca.gov/recycle/commercial/organics/prtoolkit>
- LAMD Schools Team Inbox schools@calrecycle.ca.gov
- [Schools Listserv](https://www2.calrecycle.ca.gov/listservs/) <https://www2.calrecycle.ca.gov/listservs/>

K-12 School Recycling & Composting

The School Business Officer
Perspective



Ahmad Sheikholeslami

Assistant Superintendent, Business Services

Pleasanton Unified School District



Operations Personnel Must Be Involved

- Infrastructure, Procedures, and Training need to be in place to avoid confusion
 - Coordinate with garbage hauler
 - Bins and signage
 - Custodial equipment (carts, bags, etc)
- Too often, operational personnel are not included in decisions about recycling & composting - they need to be elevated to district level, someone has to champion their input
- School Districts have legal obligations
 - Responsibility of operation
 - Cost component
 - Labor considerations/Human Resources

Pleasanton Unified School District



Advice for Other School Districts

- Grasp how current systems work – hauler, sites; “as is” status
 - Visit your schools and talk to your staff
- Think through the infrastructure
- Training for Staff
 - Management
 - Site Administrators
 - Custodial (day, night, and substitutes)
- Pilot so you can learn and scale up – Elementary, Middle, and High School
- Commitment from the District
 - Board Policy and Goals
 - Accountability and reporting

Pleasanton USD Resources

Status Report to the Board of Trustees - Jan. 14, 2021

- [Slides](#)
- [Report](#)

Pleasanton Unified School District



Social Instructure

Devin Jackson

Foothill Middle School
6th Grade Science,
STEM, STEAM, Robotics &
Environmental Sustainability Coordinator

Green Team &
Green Ribbon School Award Winner
Staff, Teachers & Students
Schools, Districts & County Office of Ed.



E.C.K. Club - Mission Statement



**We strive by the end of
the 2030 school year to be
a zero waste school.**



Enter to Learn, Leave to Serve!

- The E.C.K. Club guides, educates & supports students & staff with the essential knowledge & skills to lead an environmentally aware & sustainable life on campus.
- Founded 22 years ago.
- May 2018 - Awarded Bronze Level Green Ribbon School Award (GRSA), CA Dept. of Education & Waste Busters award for 75% waste diversion.
- G.R.S.A - First school & district in Contra Costa County, CA
- 2019 - 2020 = NOAA Ocean Guardian program certification for 6Rs & waste diversion.
- 2020 - 2021 = NOAA Ocean Guardian at Home Composting project.

Think Globally, Act Locally!





Save the Animals & It's Not Just One



1. Animals in the ocean are hurt by single use plastics from our lands & waterways, near our schools, districts & homes.
2. You may just litter one piece of plastic on the ground, but if everyone litters one piece of plastic on the ground, that is a lot of plastic pollution
3. It's never too late and it's never just one!
4. I dare you to throw just ONE piece of plastic away



Refusing single
use plastics can
Save the World!



CA Green Ribbon Schools



Pillar I: Reduced Environmental Impact & Costs

- Element IA – Energy (10 questions)
- Element IB – Water and Grounds (6 questions)
- Element IC – Waste (5 questions)
- Element ID – Alternative Transportation (5 questions)

Today Bronze,
Tomorrow
Gold!



Pillar II: Improve the Health & Wellness of Students & Staff

- Element IIA: Environmental Health (14 questions)
- Element IIB: Nutrition and Fitness (11 questions)

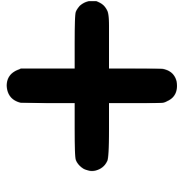
Pillar III: Effective Environmental & Sustainability Education

- Element IIIA: Interdisciplinary Learning (3 questions)
- Element IIIB: STEM Content, Knowledge, and Skills (2 questions)
- Element IIIC: Civic Knowledge and Skills (6 questions)

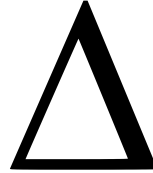


Foothill's Green Ribbon Journey - <https://tinyurl.com/FMSGRS2018>

I. Reduced Environmental Impact and Costs:



- Solar Project
- Trash Reduction
- Energy Savings/Lighting
- Landscape/Lawn Replacement



- District EPA Energy Star Portfolio Manager
- Reduction of Non-transportation Energy Use
- Energy Master Plan
- Records to compare current and past usage of electricity and water

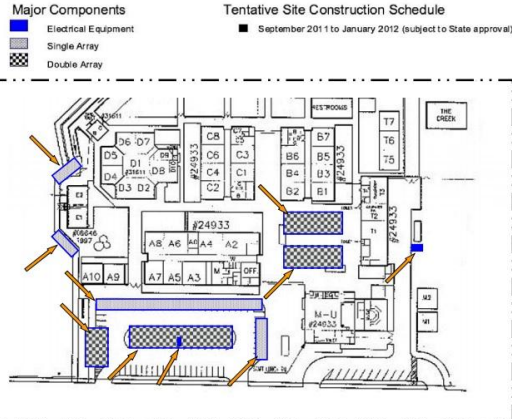


Mount Diablo
Unified School
District

Foothill Middle
School

2010 Measure C

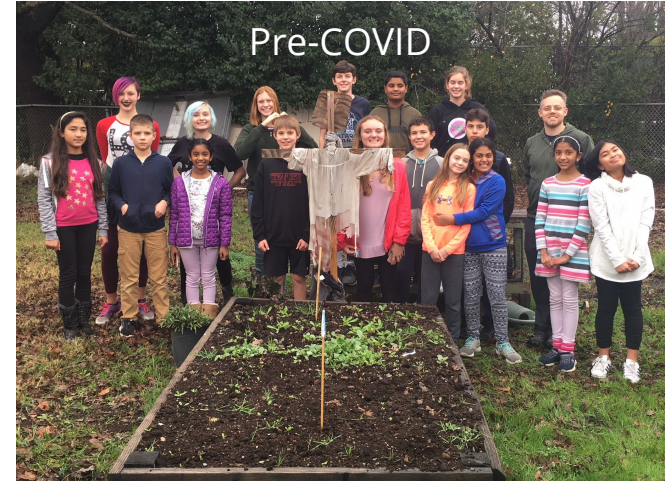
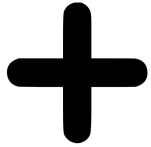
Solar Project Overview



Percentage of solid waste diverted landfill	Results 2017 - 2018
Is service stopped or reduced during non-service times?	No
A = Monthly garbage service in cubic yards:	6 cubic yards/ once per week
B = Monthly recycling volume in cubic yards:	6 cubic yards/ twice per week
C = Monthly compostable materials volume(s) in cubic yards:	2 cubics yards/twice per week
Recycling rate: $((B+C)/(A+B+C)) \times 100$	80%
Monthly waste generated per person:	0.07

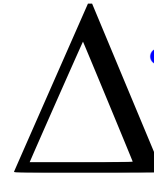
II. Improve the Health and Wellness of Students and Staff:

- Healthy Schools Act
- Pesticide & Hazardous Contaminants Use Procedures
- Healthy Food and Nutrition Policies
- School Garden

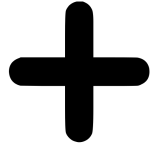


Alternative Transportation - Students	Procedures	Total Percentages
Walk (Designated Safe Routes School)	D.S.R.S	20%
Roll (i.e., bicycle, scooter, or skateboard)	D.S.R.S	7%
Carpool with 2+ students in the car	No Idling Signs	15%
School bus (Loading/Unloading)	25 ft. from bldg.	3%
Other public transportation		1%
Describe how these percentages were collected and calculated.	Secure Bike Storage	Street Smart & City Transportation Audits

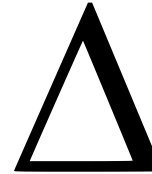
- Indoor Environmental Standards
- Quality Control Records
- Coordinated School Wellness Programs for Students and Staff



III. Effective Environmental and Sustainability Education:



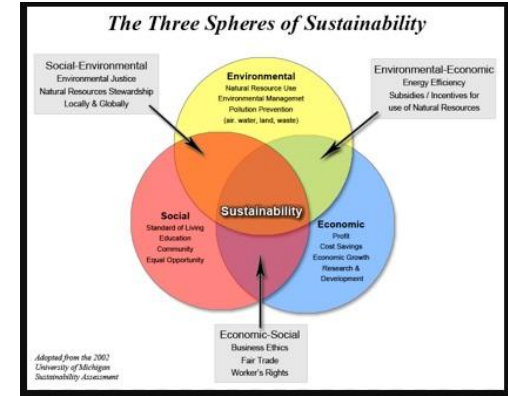
- Environmental Sustainability (Eco-literacy) Education
- Academic Programs
- Career Pathways
- Outdoor Education/6th Grade
- STEM & STEAM



Campus Waste Audit by ECK Students, 2018 - 2020

Bins	Each Classroom	Cafeteria/Quad	Waste Audits	02/06/18	10/22/19	02/06/20
Recycling	(1) 32 gal; (1) 9 gal	(2) 32 gal.	Recycle	9 lbs	2.5 lbs	9 lbs
Compost	(1) 9 gal.; (1) 4 gal	(2) 32 gal.	Compost	17 lbs	10 lbs	25 lbs
Landfill	(1) 2 gal. Caddy	(2) 32 gal.	Landfill/Trash	25 lbs	8.2 lbs	17 lbs

Interdisciplinary Learning



- Partnerships
- Co-Curricular Programs
- Living Schoolyard/ Edible Schoolyard
- Outdoor Education/All Grades
- 5 Environmental Principles & Concepts (EP&Cs)
- Place-Based Education

Going for the Gold, Next Steps:

- Site and District Energy Master Plan
- Increase Staff and Student Education
- School Wellness Program
- Edible Schoolyard Program
- District Level Point Person help coordinate data
- Outdoor Education (Cross Curricular/On-site)
- Increase Partnerships
- Continue to reduce trash/energy use
 - SAVE MONEY!!!



Contact Information

Mr. Devin Jackson {Science Rocks & So Do You!}

6th Grade Earth, Life, & Physical Science/Engineering Teacher

Foothill Middle School & Mt. Diablo Unified School District (MDUSD)

Walnut Creek, CA

djgj913@gmail.com

jacksondj@mdusd.org

outsidethebox925@gmail.com

“When we try to pick out everything by itself,

we find it hitched to everything else in the Universe”. Earth, Planet, Universe - John Muir



Resources

Link to the presentation and recording will be emailed to all attendees and added to the Zero Waste Schools webpage at:

<https://ncrarecycles.org/zero-waste-schools/>

Additional resources on the Zero Waste Schools webpage:

- CalRecycle School Mandates
- NCRA Waste Reduction & Sorting Guide for Schools

Foothill Middle School Bronze Level Green Ribbon School Award Journey -

<https://tinyurl.com/FMSGRS2018>

Survey for Future Webinars

Help us to make future webinars relevant for you!

Please complete the survey included in the chat:

<https://forms.gle/KGDLXsi6eYjyhoF88>

We will also email the link after the webinar

Thanks for attending!