



Let's Recycle Better, Together.

MAKING THE GRADE

WITH K-12 RECYCLING
& WASTE REDUCTION

THURSDAY AUGUST 26
1:00 - 2:30 P.M. EST.



Today's Panelists



Alec Cooley
Senior Advisor
Busch Systems
Charleston, SC



Jessica Kukac CSR-P
*Environment &
Sustainability Coordinator*
Simcoe County
District Schools
Severn, ON



John Meyer
Recycling Manager
Montgomery County
Public Schools
Rockville, MD



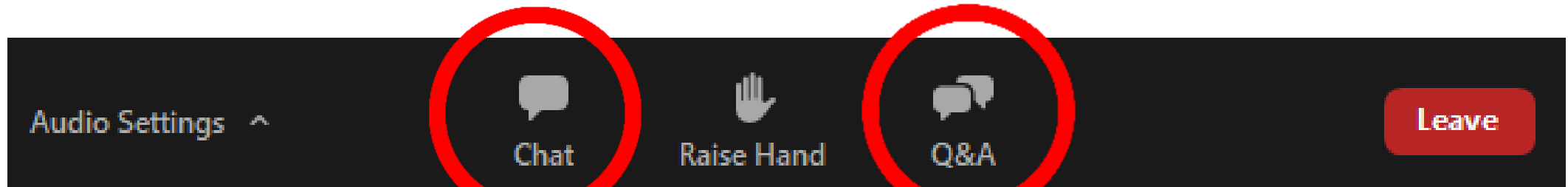
Janna Faulk
Recycling Coordinator
Salinas Valley Recycles
Marin, CA



Tami Stolzenhaller
*Environment Education
Coordinator*
City of Watsonville
Watsonville, CA

Join the Discussion!

From your toolbar:



Share your experience
& opinions

Look for links
to resources

Type direct questions
for panelists



Waste Management at SCDSB

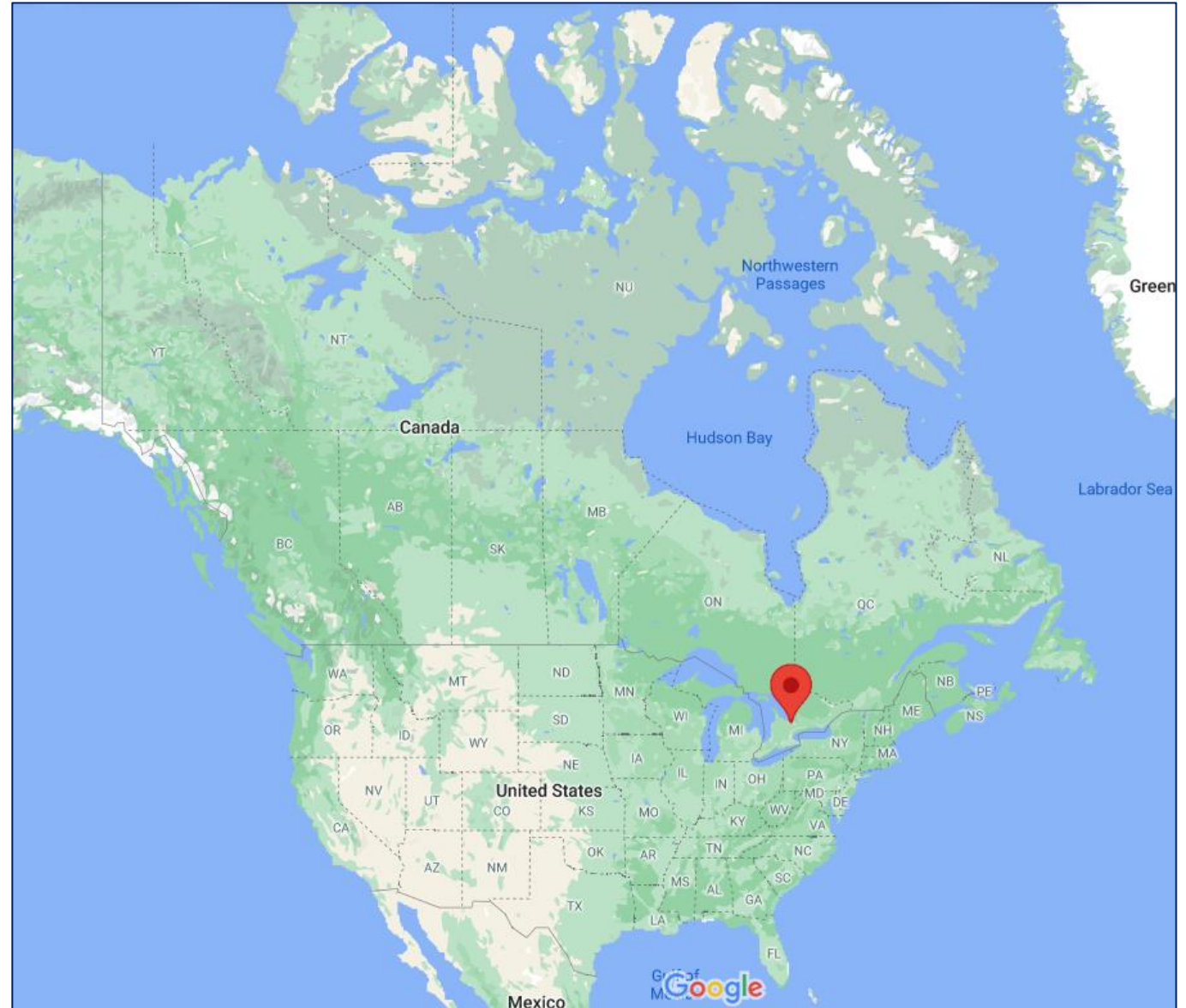
A brief overview

Jessica Kukac – CSR-P
Environment & Sustainability Coordinator
Simcoe County District School Board



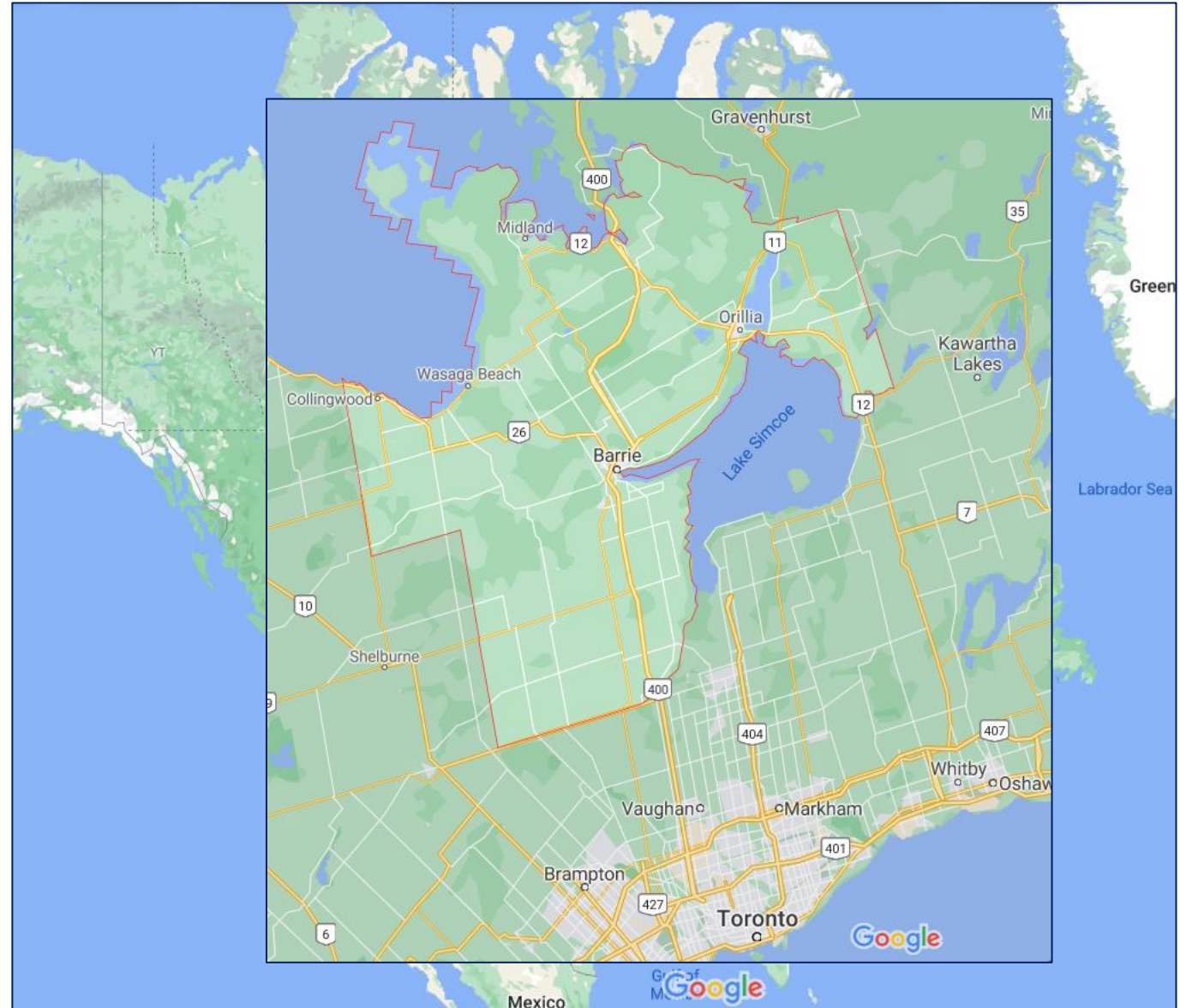
About Us

- **87** elementary schools (K-8)
- **15** secondary schools
- **7** learning centres
- Over **6,000** employees
- Approximately **50,000** students



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Waste Legislation & Policy

- Primarily regulated at the provincial level
- O.Reg 102/94 – Waste Audits and Waste Reduction Work Plans
- O. Reg 103/94 – IC&I Source Separation Programs
 - Schools are required to have recycling diversion
- Ontario Food and Organic Waste Framework
- Acting Today, Shaping Tomorrow
 - policy for environmental literacy and environmentally responsible management practices
- SCDSB Sustainability Policy 2325
 - All SCDSB schools must participate in all waste diversion programs available

SCDSB Diversion Programs

Stream	County (single)	Orillia (double)	Barrie (double)
Garbage	Waste Connections	Waste Connections	Waste Connections
Recycling	County of Simcoe	Waste Connections	Waste Connections
Organics	County of Simcoe	City of Orillia	Third Party (sub)*

Diversion Program Supplies

Bags

Bins

Dumpsters

Depots

Posters



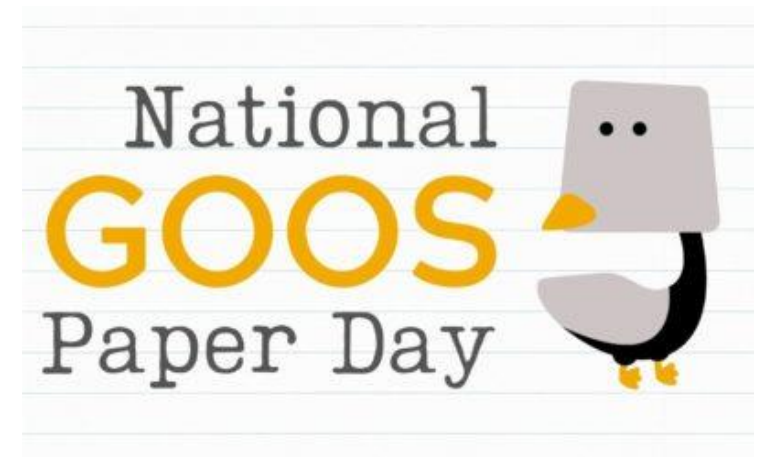
Collection Protocol

- Waste = Garbage
 - Recycling and organics ≠ waste
- Union contracts
- Classroom to Depot
- Depot to Dumpster
- Student contribution
- Promotion and education



EcoSchools Canada

- Yearly certification for environmental excellence
- Actions, campaigns, projects to reduce footprint
- Target waste reduction, diversion, curriculum
- Support from board
- Integrated into board strategic priorities



SCDSB Diversion Stats

25kg/person at school

Average diversion rate of 40%

Over 70% of schools participate
in organics diversion

Organics = less recycling
contamination

Contact Information:

Jessica Kukac

**Environment and Sustainability Coordinator
Simcoe County District School Board**

Jkukac@scdsb.on.ca



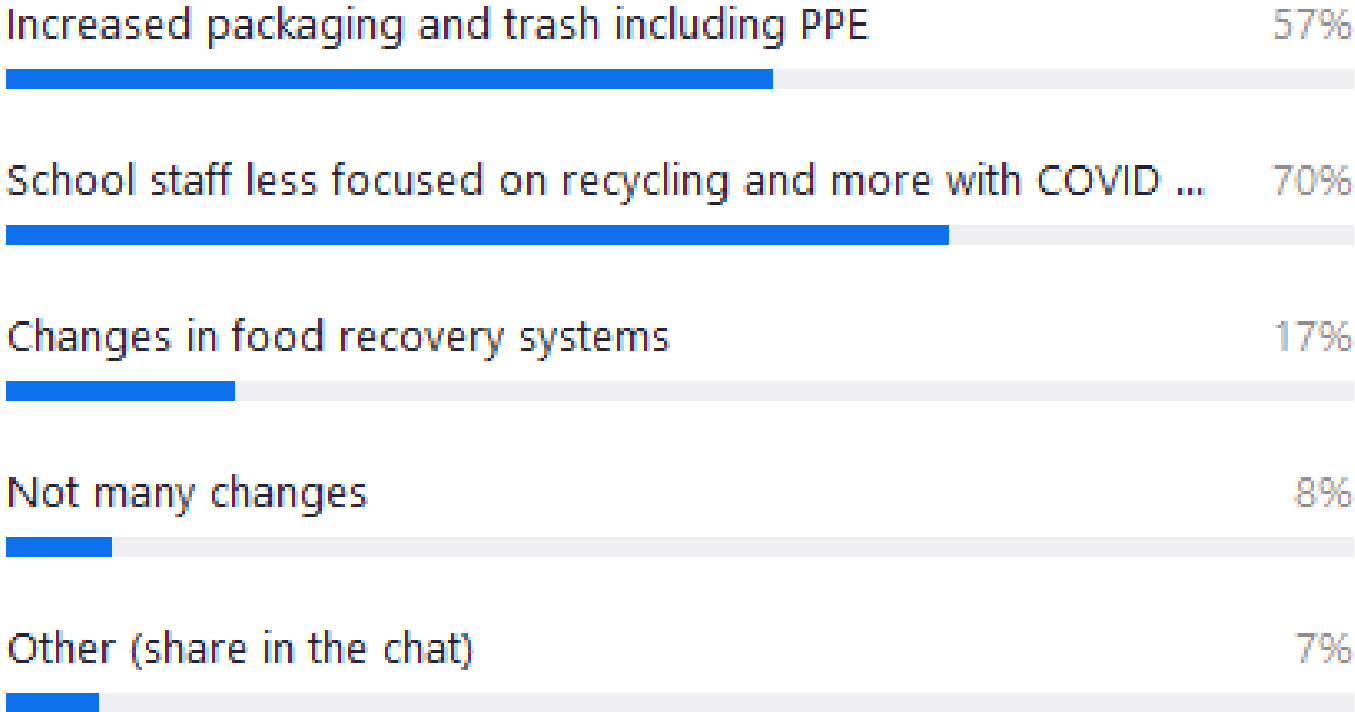
Live Poll #1

How has the pandemic modified your school waste reduction programs this fall? *(check all that apply)*

- Increased packaging and trash including PPE
- School staff less focused on recycling and more with Covid precautions
- Changes in food recovery systems
- Not many changes
- Other *(share in the Chat)*

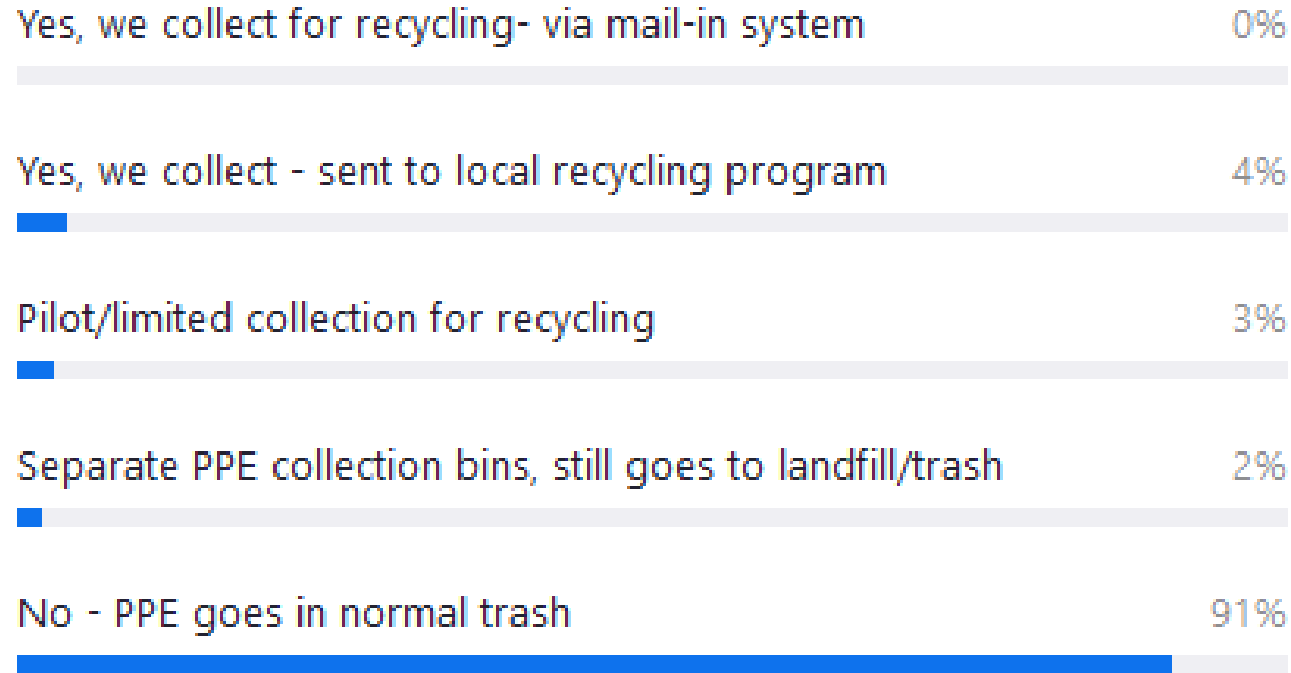
Live Poll #1

1. How has the pandemic modified your school waste reduction programs this fall? (Multiple Choice) *




Live Poll #2

1. Does your school(s) collect PPE? (Single Choice) *



You did not answer this question



Montgomery County
Public Schools
Rockville, MD



DSC

Division of
Sustainability
and **Compliance**

John Meyer

Recycling Manager

School Energy & Recycling Team (SERT)

Division of Sustainability & Compliance



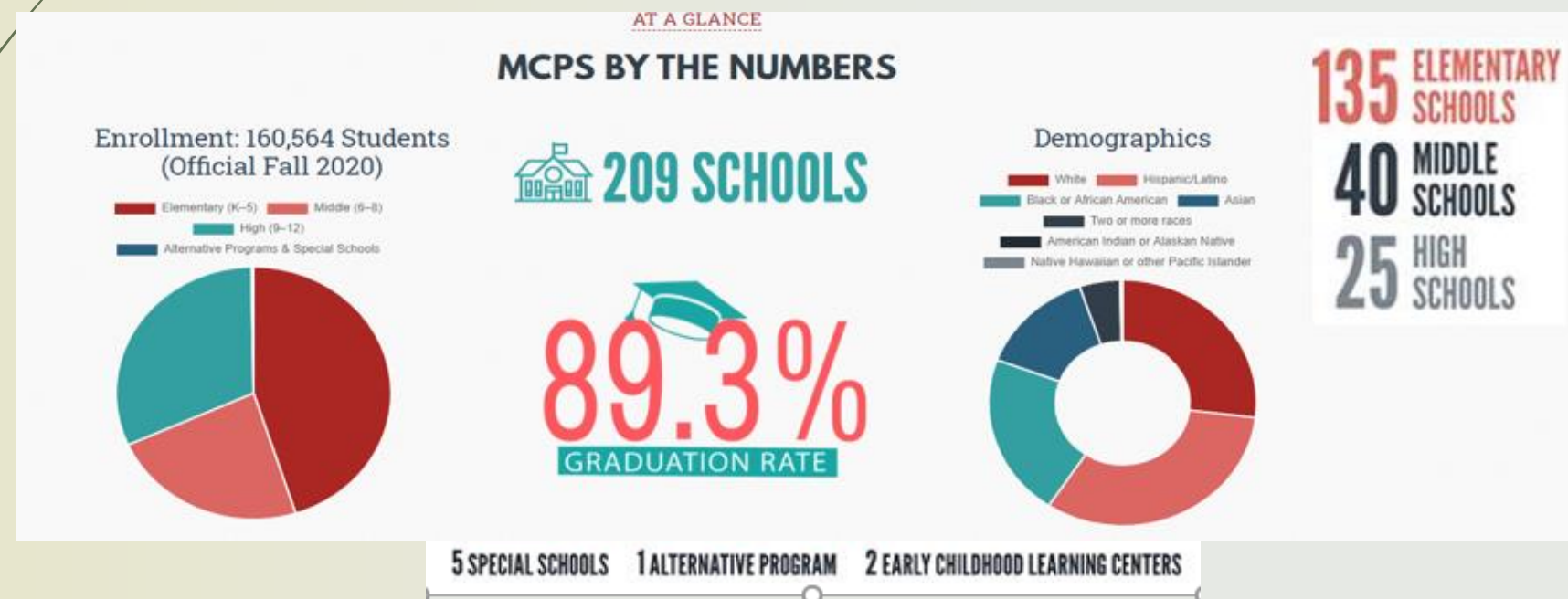


DSC

Division of
Sustainability
and **Compliance**

At A Glance:

- ▶ Largest school district in Maryland.
- ▶ Recipient of the Malcolm Baldrige National Quality Award
- ▶ Awarded U.S. Department of Education District Sustainability
- ▶ 11 MCPS schools awarded U.S. Department of Education Green Ribbon Award
- ▶ 89 MCPS schools are Maryland Green School certified..
- ▶ 37 LEED certified schools



A complete approach

Behavioral

- ▶ Engage students—clubs, contests, meetings, community work
- ▶ Engage MCPS leaders to support sustainability through-out school system
- ▶ Promoting connections between human behavior and environmental impact which reinforces our culture of conservation



Operational

- ▶ Provide recycling infrastructure
- ▶ Procurement Source reduction
- ▶ Partner in the development of new legislation
- ▶ Periodic review of types of waste being generated systemwide & source new markets





Support & Regulations:

The purpose of the Action plan is to identify the school-based sustainability leader(s) as designated by the principal, and the school's team members

SERT USE ONLY Date Received _____ Method E-mail Pony Fax Hand-delivered

SERT Action Plan MCPS Form 201-10
July 2019
Page 1 of 2

Department of Facilities Management
School Energy and Recycling Team (SERT)
MONTGOMERY COUNTY PUBLIC SCHOOLS (MCPS)
45 W. Gude Drive, Suite 4000, Rockville, Maryland 20850

INSTRUCTIONS
This form is to be completed and submitted by each school on or before September 30 of each year. Fully completed forms may be returned to SERT via e-mail, PONY, fax or hand delivery. Please complete online or print clearly.

SCHOOL INFORMATION

School: Facility #
Principal: # of Portable Classrooms:
Administrative Secretary: No. of Students:
Building Services Manager: No. of Staff:

SERT IN YOUR SCHOOL
It is expected that all schools have active SERT energy conservation and recycling teams in place. Team leaders should be adult leaders (teachers, staff or administrators). Team members should include students, staff and parent/guardian volunteers. All team members will receive information from SERT via e-mail.

SCHOOL SERT TEAM
If applicable, what is the unique name of your SERT Team?

Member Name	E-mail
<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>

SERT AWARDS
Schools are eligible to receive the following SERT Awards (subject to budget availability):

AWARD	ELIGIBILITY	AMOUNT
Quarterly Energy Award (Q1-Q3)	High	Up to \$2,000 per quarter
Energy and PUM Award (Q4 only)	High	Up to \$3,000 (Q4 only)
Quarterly Recycling Award (Q1-Q3)	Middle	Up to \$1,000 per quarter
Various contests and events	Elementary	Up to \$1,750 (Q4 only)

FORM SUBMISSION

Name of person completing this form:
Principal/Assistant Principal approving this form: Date:
I understand that my electronic submission of this form and my electronic signature are intended to be, constitute, and are equivalent to my personal signature.
Signature:

Please complete Page 2 of this form.

REGULATION MONTGOMERY COUNTY PUBLIC SCHOOLS

Related Entries:
Responsible Office: Chief Operating Officer
Facilities Management

Recycling

I. PURPOSE
To set forth the process and guidelines for Montgomery County Public Schools (MCPS) staff, students, and other users of school facilities for recycling in accordance with Montgomery County Government regulation.

II. DEFINITION

A. *Recycling* is any process by which materials are diverted from a disposal facility and are collected, separated, processed, and returned to the economic mainstream in the form of raw materials or product for reuse.

B. A *recycling plan* is a plan describing a program for solid waste reduction and recycling.

C. An *MCPS Site* is defined as any school or facility, including grounds owned or occupied by MCPS.

D. The *facility administrator* is the principal of a school or the administrator responsible for facilities other than schools.

E. The *building recycling coordinator* is the individual designated by the facility administrator to coordinate the facility recycling program.

F. The *recycling material specialist* is the individual assigned to the Division of Maintenance to coordinate material pick up and assist facilities with recycling plan implementation.

III. PROCEDURES
All public facilities are required by the Montgomery County Government to recycle 50 percent of all solid waste material generated.

1 of 3

RFP Language

- Set the expectation...
- Include requirements to recycle and report in all service contracts.
- Waste diversion reporting is not limited to LEED projects only

II. CONTRACT ADMINISTRATION

21

8. Work area must be left clean and ready for use after the installation. The contractor must remove all debris generated by the work from the premises daily, adhering to **Montgomery County Solid Waste and Recycling Regulation No. 15-04 AM, COMCOR 48.00.03**. The contractor shall track all recyclable materials such as metal, concrete, asphalt, cardboard, etc. and provide to MCPS recyclable amounts by weight as requested.

MCPS - Recycling and Salvage Tracking Form

Instructions: Form is to be filled out by recycling facility, or salvage/demolition contractor. Each load must have its own form. Return completed forms to the party compiling the project's documentation package.

Date/Time: _____ Name: _____

Project Name: _____ Invoice/Job Number: _____

Project Address: _____

Hauler Name: _____ Truck Number: _____

Vehicle Type (check one): Drop Box Flat Bed Truck/Trailer Other _____

Type of Facility: Choose one and fill out that section.

SALVAGE/REUSE

Facility Name: _____ Address: _____

Description of Load: _____

Weight: _____

SOURCE-SEPARATED RECYCLING (INDIVIDUAL MARKETS)

Facility Name: _____ Address: _____

Description of Load: _____

Weight: _____

End Use (check one): Recycled into fuel product (fuel) Processed/Recycled into new product

MATERIAL RECYCLING FACILITY

Facility Name: _____ Address: _____

Description of Load: _____

Other: _____ Weight: _____

The facility operator must provide (1) actual weights for each load, (2) recyclable materials weight by category, (3) total disposal weight and (4) the resulting recycling percent for each load. Visual estimation is not allowed. Please provide copy of supporting documentation.

Facility Name: _____

Recyclable materials by type, weight and end use (e.g.)

Material (1): _____ Weight: _____ End use: _____

Material (2): _____ Weight: _____ End use: _____

Material (3): _____ Weight: _____ End use: _____

Material (4): _____ Weight: _____ End use: _____

Total disposal weight/recycling percent: _____

Reduce, Reuse...

➤ Source reduction, where possible:

- request product packing material to be sustainable
- request integration contractors to repackage item-Chromebooks
- request vendors to take back delivery pallets, totes, containers, etc.
- strategic positioning of trays, utensils, etc

➤ Reused, items before demolition

- Furniture
- Electronics/Computers
- Locks, exit hardware
- Water heaters, plumbing fixtures
- HVAC equipment
- Electrical devices
- Recycling & Waste bins
- And many more...



MCPS Recycles...

- ▶ Paper/cardboard
- ▶ Commingle material
- ▶ Yard Waste
- ▶ Scrap Metal
- ▶ Lamps
- ▶ Printer & Toner cartridges
- ▶ Motor oil
- ▶ Used automotive parts & tires
- ▶ Anti-freeze
- ▶ Rechargeable batteries
- ▶ Electronics
- ▶ Pallets
- ▶ Construction Material
- ▶ Plastic Films
- ▶ Terracycle
- ▶ Vegetable oil
- ▶ Automotive Glass
- ▶ Automotive batteries



Outreach & Support to Schools:

- ▶ Lunch and Learn
- ▶ Recycling 101
- ▶ Energy and Recycling assembly
- ▶ Green school meetings
- ▶ Various staff trainings
- ▶ School audits
- ▶ Recycling infrastructure distribution & setup



Contests and Campaign:

- ▶ **Annual Watts Up ? Poster Contest:** MCPS conducts an annual poster contest to promote sustainability. Winning posters are reproduced and distributed to be used in MCPS schools.
- ▶ **Got Paper Contest :** The Got Paper? The contest is held in June and to capture recyclables as students and staffs clean out their lockers, desks, and classrooms at the end of the year.
- ▶ **Drive for Supplies Campaign :** Students clean out their lockers, and donate their usable school supplies to families in need.
- ▶ **Video Contest:** Students were challenged to create interesting videos that promote Sustainability.



Food Waste Composting

- ▶ **Pre-consumer composting:**
 - ▶ Central service offices cafeteria
 - ▶ Food preparation warehouse
- ▶ **Individual schools composting:**
 - ▶ 6 school participated
 - ▶ Challenges:
 - ▶ Contamination concerns with lower grade students
 - ▶ Budget concerns for infrastructure & collection
 - ▶ Lack of space in facilities for additional exterior collection bins
 - ▶ Availability and stability of composting accepting facilities



Scaling and Reporting :

- ▶ All trucks must be scaled according to the RFP
- ▶ Scales required to be calibrated twice a year
- ▶ Weights from individual location reported monthly
- ▶ School report cards available monthly



Bannockburn Elementary School

POUNDS PER PERSON (PPP)

MONTH	2014-2015	2015-2016	2016-2017	2017-2018	2018-2019
September	3.42	5.48	4.36	5.98	7.34
October	3.65	4.13	5.78	6.26	7.98
November	2.84	4.35	2.83	5.91	6.61
December	4.21	3.65	1.46	6.08	5.58
January	3.18	2.61	3.73	7.74	8.14
February	3.20	6.26	3.37	6.89	6.09
March	2.48	3.57	3.61	8.43	6.54
April	2.24	4.65	3.41	10.67	8.79
May	6.20	6.74	6.23	12.09	10.41
June	13.89	10.09	8.52	14.43	10.43
July	0.65	0.70	0.71	1.87	8.43
August	2.26	5.72	2.01	3.78	2.81*
Your Average Annual PPP	4.02	4.83	3.83	7.51	7.43
Average ES Annual PPP	2.57	4.48	4.92	6.25	5.64

* Due to the transition to a new recycling services hauler, the August 2018-2019 recycling data is an estimate based on the prior three years of the same period.

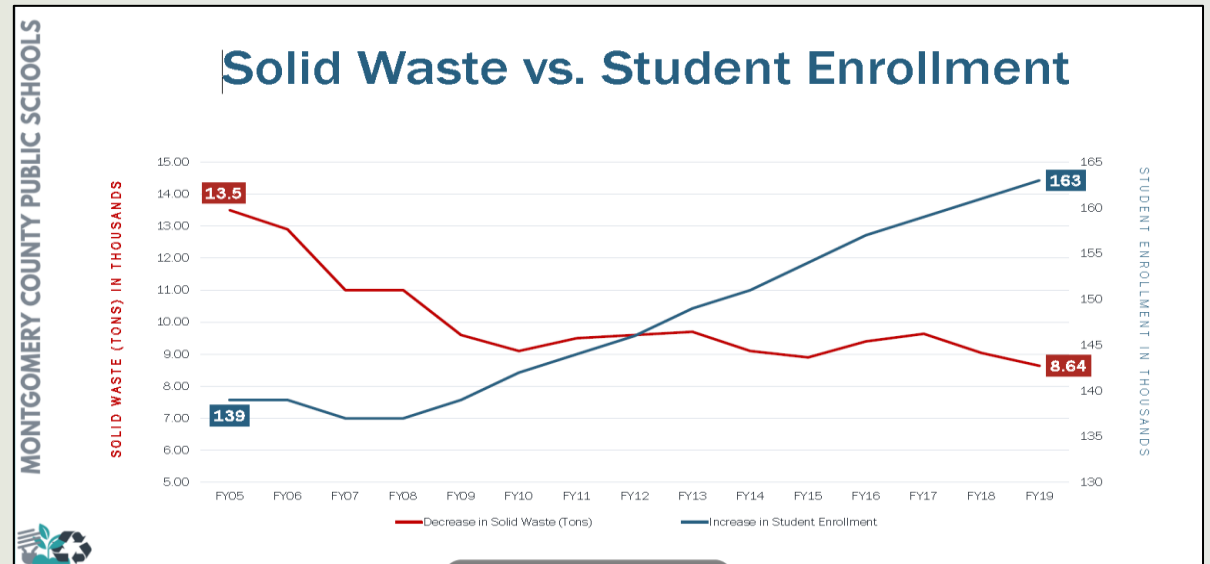
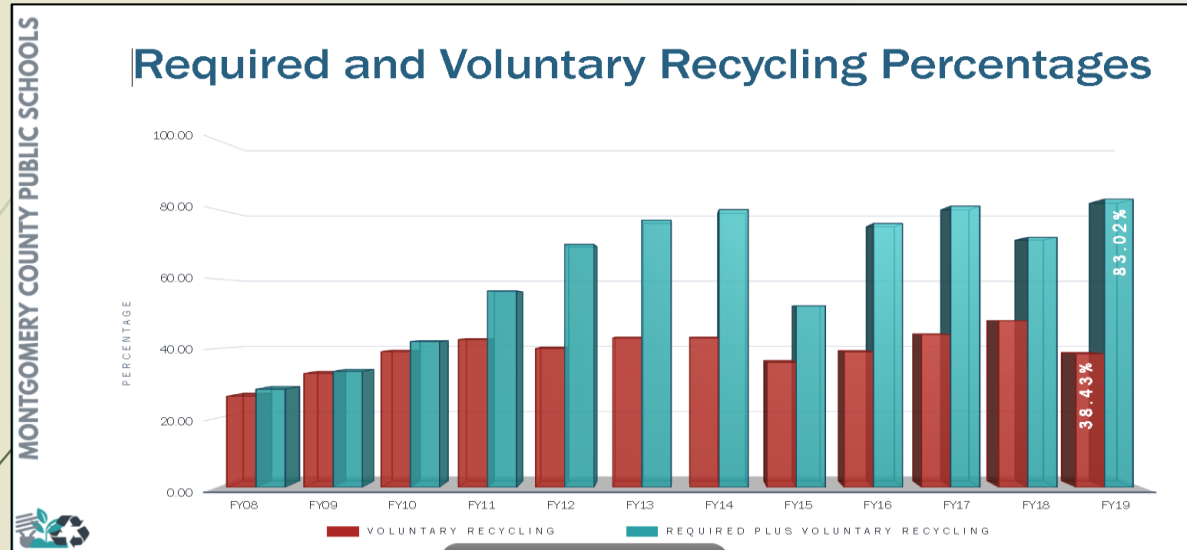
monthly weight of paper + weight of commingled ÷ (total students + staff) = PPP

Current Year PPP Comparison

Your school's PPP compared to all MCPS elementary schools

1 200

Our Performance



Looking forward...

- ▶ For more information, please visit our website:
<https://www.montgomeryschoolsmd.org/departments/facilities/greenschoolsfocus/index.aspx>
- ▶ <https://www.montgomeryschoolsmd.org/departments/facilities/greenschoolsfocus/>
- ▶ [https://www.montgomeryschoolsmd.org/uploadedFiles/departments/facilities/greenschoolsfocus/SERT_BMP\(1\).pdf](https://www.montgomeryschoolsmd.org/uploadedFiles/departments/facilities/greenschoolsfocus/SERT_BMP(1).pdf)

John Meyer

Recycling Manager

Montgomery County Public Schools

john_meyeriii@mcpsmd.org

Live Poll #3

1. Outside of COVID, what efforts are made with food waste? (check all that apply) (Multiple Choice) *





August
2021



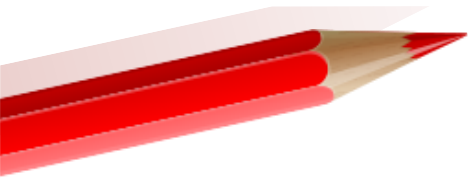
SCRAP - Monterey Bay Area
Schools **C**ompost and **R**ecycling
Advocates **P**rogram



Tami Stolzenthaler – City of Watsonville
Janna Faulk – Salinas Valley Recycles



Monterey Bay Area



SCRAP - MBA School Compost & Recycling Advocates Program



Pre-covid photos

Short-Lived Climate Pollutants

- Businesses must arrange for organics recycling service
- Provide interior collection containers.
- Local government must monitor containers to minimize contamination
- Enforcement actions may result for noncompliant entities

AB 1826

Mandatory Organics

- Businesses that generate 2 cubic yards or more of commercial solid waste per week **must implement an organic recycling service**

What does 2CY/week look like?



AB 341 and 827

- Businesses must arrange for recycling services
- Businesses must provide customers with recycling and/or organics recycling collection containers

Sample Indoor Organics and Recycling Collection:



Yard Waste



Organics



Trash



Recycling



Sample of Outdoor Organics and Recycling Collection:

SVSWA Service Area

Facility Location

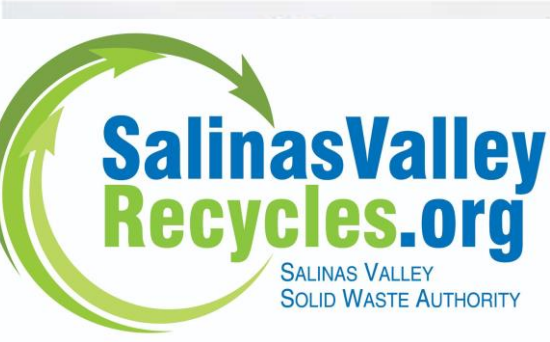


Household Hazardous Waste (HHW) Collection Facility

ABOP

Drop-Off Station for Antifreeze, Car Batteries,
Used Motor Oil and Latex Paint





This is "Away".



In 2019, 226,386 tons or **452 Million lbs.** of garbage were buried at our Johnson Canyon Landfill

That's about 5 pounds of garbage per person per day!





At completion, this
Landfill Cell will have
200 FEET of Garbage;
the height of roughly
20 school busses

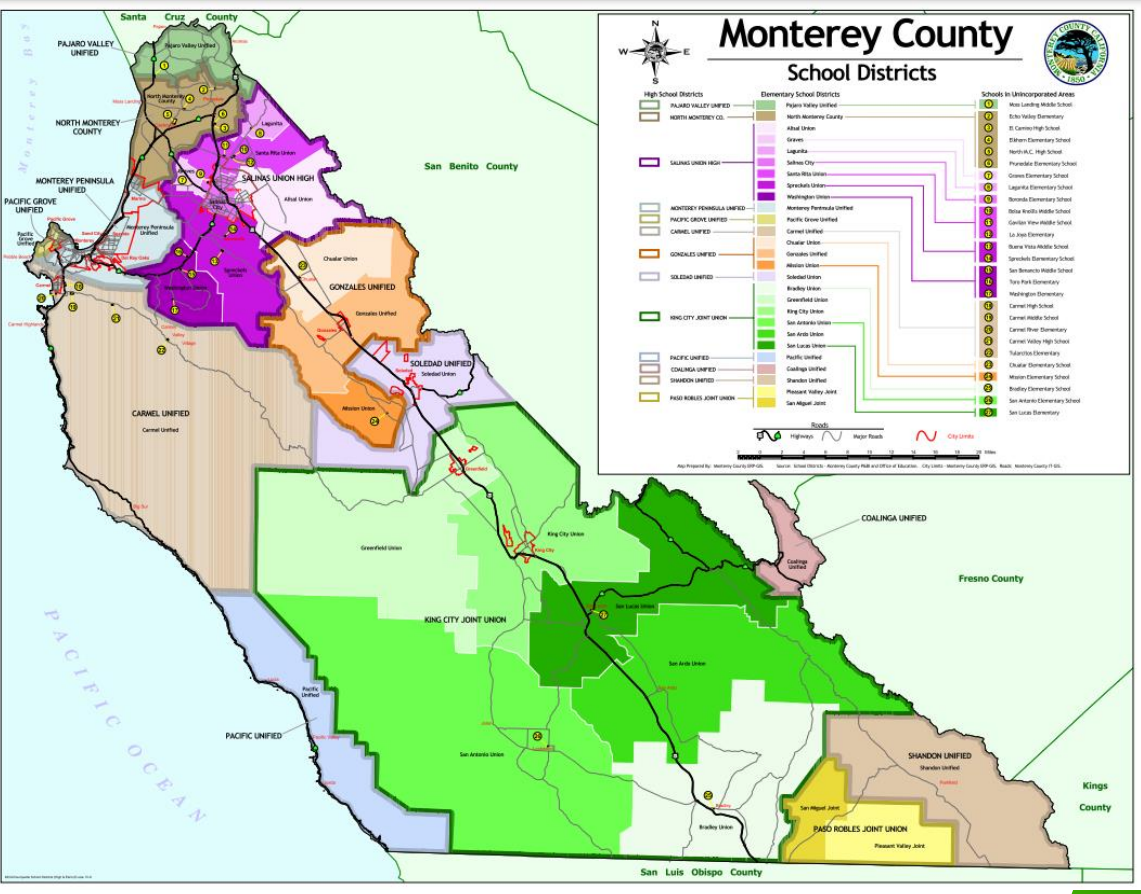


Almost Completed Landfill Cell



New Landfill Cell October 2019
at Johnson Canyon in Gonzales

Salinas Valley Recycles ~ Working toward a future without Landfills!





The Road to Zero Waste:
Jesse Sanchez Elementary, Salinas CA, Leading the Way

Green Schools Waste Reduction Program



Pre-covid photos

City of Watsonville Department of Public Works & Utilities



Watsonville Green Schools



- Partner with PVUSD Superintendent, Food Services, Custodial Management, School staff and classrooms.



Pre-covid photos





Pre-covid photos



Thank you!
SCRAP - MBA



**Tami Stolzenhaller –
City of Watsonville**

**Janna Faulk –
Salinas Valley Recycles**



Live Poll #4

1. What policies or mandates govern recycling/waste practices? (check all that apply) (Multiple Choice) *



Online Resources

Visit: buschsystems.com/blog

Program Resources

- Download presentation slides
- Recording
- Links to speaker resources
- Responses to Q&A

Blog Series

ADVANCING RECYCLING | BLOGS

RECYCLING & WASTE REDUCTION EDUCATION IDEAS TO
INSPIRE K-12 SCHOOL STUDENTS



AUGUST 24, 2021 | BY ALEC COOLEY

Here's a fun fact: the quick, easy way to distinguish jaguars from leopards is to look at the ring-shaped markings or "rosettes" each has on their coat. As I learned while writing a 3rd grade report, jaguars typically have a dot inside of the ring while leopards do not. I remember sharing this with friends and family members with a sense of authority. In a 3rd grade-sort of way, I felt a special connection that's lasted into adulthood. I have an equally vivid memory of...

CONTINUE READING

READING TIME: 12 MIN

SHARE: [f](#) [t](#) [p](#) [in](#)

Thank You to Our Panelists!



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Stay Tuned for Product Demonstration