

Bay Area Biosolids Coalition: Efforts to Respond to Regulatory Developments Impacting Biosolids Management

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Bay Area Biosolids Coalition Today

- **Mission** (What are we doing?): Work collaboratively with Bay Area utilities to enhance environmental quality and support development of cost-effective and socially conscious solutions for biosolids management.
- **Vision** (Why are we doing it?): Create a Bay Area region where all biosolids are beneficially used and recognized as an environmental asset.



The Coalition's approach supports developing a diverse set of local, sustainable solutions!

- **Goal 1:** Communicate the value of biosolids for purposes of increasing understanding, support, and market demand
- **Goal 2:** Advance independent scientific research on safety and efficacy of biosolids to inform science-based regulations, guidelines, and best management practices
- **Goal 3:** Support and expand biosolids land application in the Bay Area
- **Goal 4:** Support development of diverse and cost-effective biosolids projects for San Francisco Bay Area



Goal 1: Communicating the Value of Biosolids

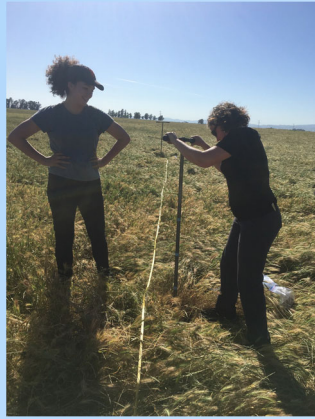
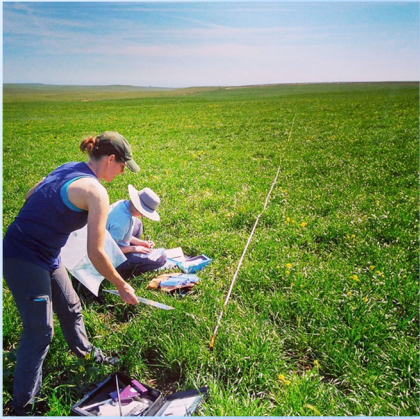
- Coalition identity research complete
Change Makers – Critical Thinkers – Trusted Professionals – Connectors
- Coalition brand development underway
 - Brand platform
 - Logo
 - Messaging
 - Website design / brochures / fact sheet development
- Engaging broader stakeholder groups (non-profit environmental groups, agricultural industry, academia, regulators, consultants, law firms, etc.)



WE ARE HERE!

Goal 2: Advancing Scientific Research

Field Soil Sampling (2018)



- 100 m transect
- 10 replicates/to 1 m depth
- 900 total soil samples
- Plus...water retention cores

Preliminary Results

The potential for biosolids to increase soil carbon is different across sites, and is likely a function of application rate, soil type, and irrigation practices.

Final Results shared at the September CASA/CWEA Biosolids and Renewable Energy Innovation Seminars to be published end of 2019/early 2020

California-based research is critical to state regulators!

Goal 2: Next Steps in Advancing Scientific Research






- Establishing a Scientific Advisory Panel
- Developing a 3-year research plan
- Maintaining and expanding relationships/partnership with scientific community



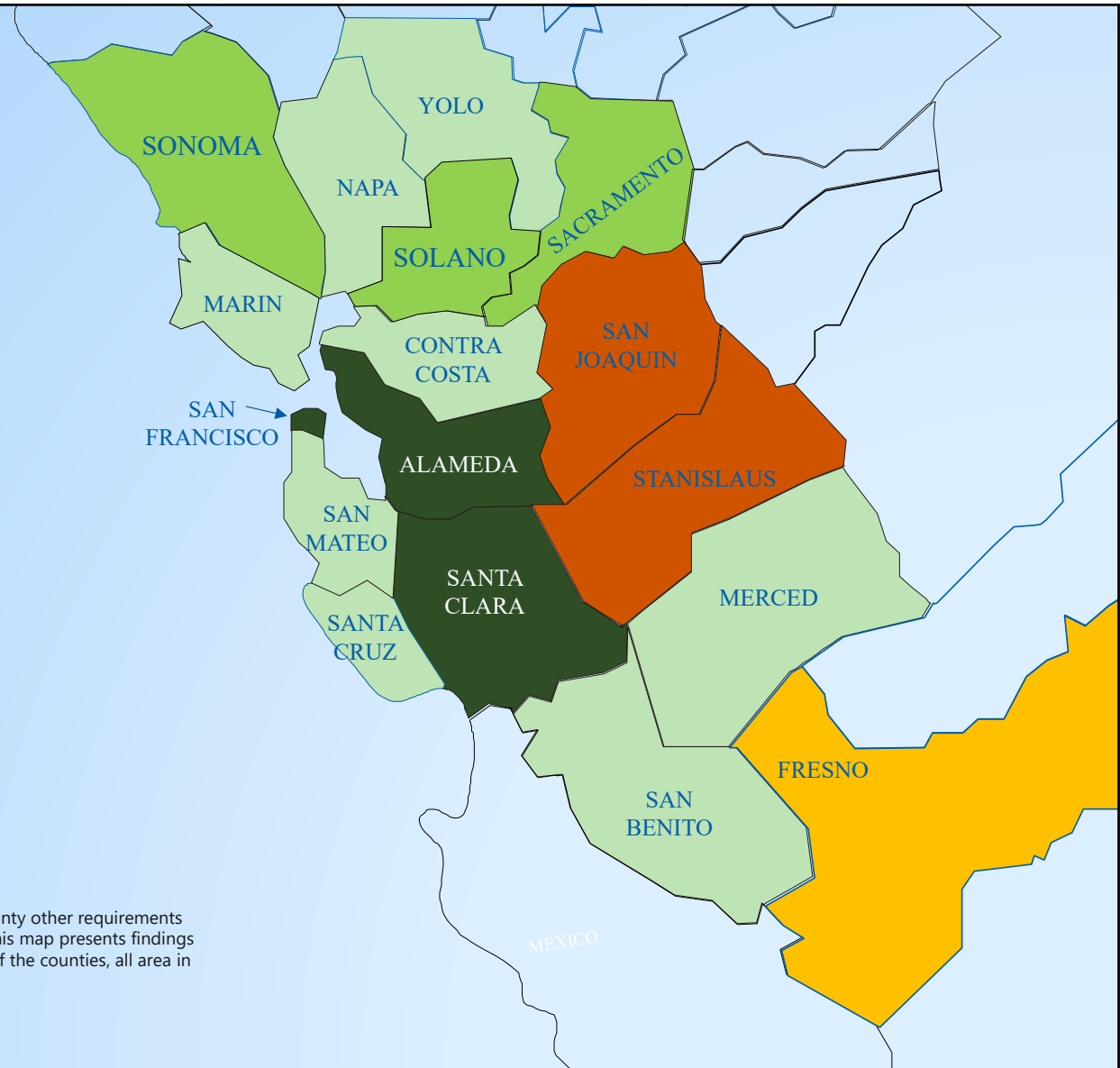
Goal 3: Support expansion of biosolids land application

- CASA collaboration
- Initiate a land application pilot within two years

County Ordinance Requirements & Biosolids Bans

	Conditional Use Permit Required
	Class B Land Application Allowed
	No Regulations/Ordinances Enacted
	Ban on Class B Land Application
	Ban on All Land Application

This map is based on a search of online available Codes and may have missed County other requirements such as non-codified requirements or requirements of city or regional agencies. This map presents findings for individual county requirements and deals only with the unincorporated areas of the counties, all area in California are subject to California and Federal biosolids regulations.



Goal 4: Support development of biosolids management options in/for SF Bay Area



Coalition membership is now open for broader participation and representation!

- Build collaborative relationships and partnerships with:
 - Solution providers
 - Academia
 - Regulators
 - Consultants
 - Non-profit environmental groups
 - Agricultural industry
 - Law firms...
- Tiered dues structure based on organization size
- Email notification and details to be distributed January 2020!





THANK YOU!

Questions?

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Bay Area Biosolids Coalition Meeting

January 13th , 10 am – 1 pm

Expanding Coalition Membership: Associate Membership Dues

	No. of Employees	Annual Dues	Description
Bay Area Biosolids Coalition	-	\$0	<ul style="list-style-type: none"> Academics and regulators – no dues. For others, dues vary based on number of employees: Consultants, lawyers, manufacturers, suppliers, non-profit organizations (outside those listed in the first bullet), haulers, others involved in treatment or beneficial use of solids/biosolids. All rights of membership, with the exception of closed session meetings and voting.
	1-5	\$200	
	6-15	\$400	
	16-29	\$600	
	30-74	\$800	
	75-120	\$1,000	
	over 120	\$1,200	

We take into account developing federal, state, local regulations that may impact beneficial uses

- EPA/SWRCB
 - Notification, Monitoring, and Future Reductions of PFAS (Per- and polyfluoroalkyl substances)
- CalRecycle/SWRCB
 - Statewide Methane Reductions from Diversion of Organic Waste (SB 1383)
- ARB
 - Criteria and Toxic Air Contaminants from Existing Sources (AB 617)
- BAAQMD
 - Existing Sources of Toxic Air Contaminants (Rule 11-18)
 - Climate Pollutants (Regulation 13 development underway)
 - Clean Air Plan is looking to adopt a Biogas Flare rule in 2020-2021 to further limit NO_x

Coalition banded to address threats to land application and state actions on climate change

2004 Bay Area Agencies form Coalition to discuss feasibility of a Regional Facility

2008 Coalition brands itself as Bay Area Biosolids to Energy Coalition

2016 Rebranded as **Bay Area Biosolids Coalition**

2025 75% Organics Diversion from Landfills

2030 Statewide GHG Emissions 40% below 1990 levels

2004

2008

2012

2016

2020

2024

2028

2032

2016 SB 32 signed mandating statewide GHG levels reduce 40% below 1990 levels by 2030

2016 SB 1383 signed mandating methane reduction and organics diversion by 2025, defining ADC as disposal

2014 AB 1594 signed to remove credit from the use of green waste in ADC

2006 AB 32 Global Warming Solutions Act is signed mandating 1990 GHG levels by 2020 statewide and targeting 80% below 1990 GHG levels by 2050