



Thank you for joining us.

The meeting will start in a few moments.

Reminders

- This meeting is being recorded.
- There will be question-and-answer sessions, during which, we encourage you to unmute yourselves to speak.
- Click “Raise Hand”  if you’d like to speak during the question-and-answer sessions; we will call your name and then you will be able to unmute yourself.
- Use the “Q/A” feature to type questions.
- If you are joining us by phone only, using your phone's dial pad, dial *6 to mute/unmute or *9 to raise your hand during the question-and-answer sessions.
- You can also email your questions to OrganicsPlanning@pw.lacounty.gov
- Links to presentation materials will be sent to you via e-mail.



**Los Angeles County
SB 1383 Final Quarterly Meeting
Organics Capacity Planning Meeting**

**August 23, 2022
1:30PM – 3:00PM**

Meeting Overview

- I. Presentation of Organic Waste Capacity Survey Findings
 - a) Question-and-Answer Session

- II. Edible Food Recovery Capacity Analysis Update
 - a) Question-and-Answer Session

- III. Closing Remarks



Los Angeles County Regional Organic Waste Recycling Capacity Survey Findings

SB 1383 Organic Waste Recycling and Edible Food Recovery
Capacity Planning Quarterly Meeting, August 23, 2022





Tetra Tech Team

- Tetra Tech, SWW
- Integrated Waste Management Consulting
- JRMA Architects and Engineers





Agenda

- Introduction/Purpose
- Organic Waste Recycling Facility List Identification
- Survey Questions Development
- Data Collection Methodology
 - Sample Survey – Organics Facilities
 - Smart Form
- Survey Results
 - Available Organic Waste Recycling Capacity
 - Participation
- Regional Organic Waste Recycling Capacity Web Map App





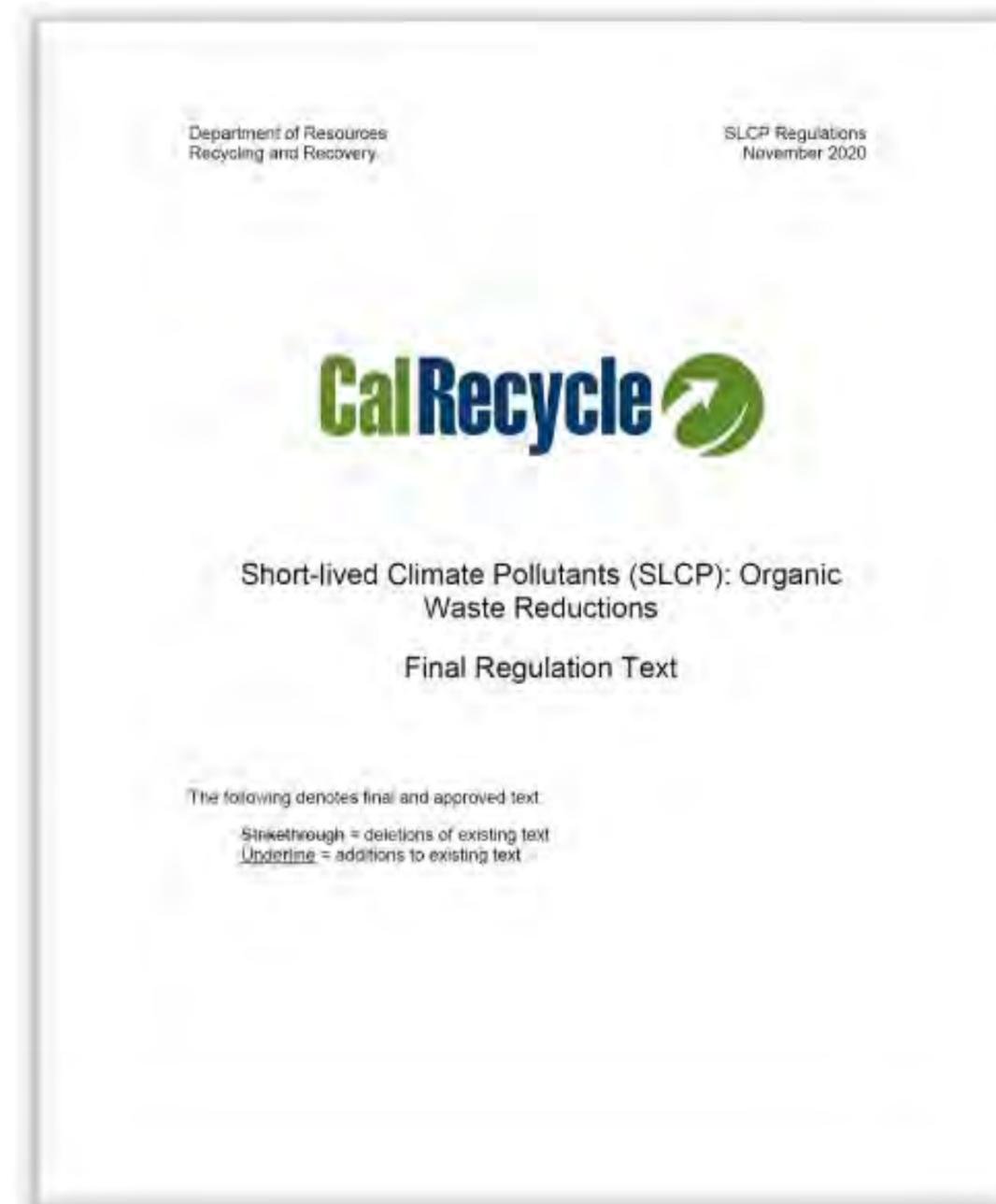
Introduction/Purpose: Regional Organic Waste Recycling Capacity Survey



Introduction – Regional Organic Waste Recycling Capacity Survey

• Senate Bill 1383 Regulations

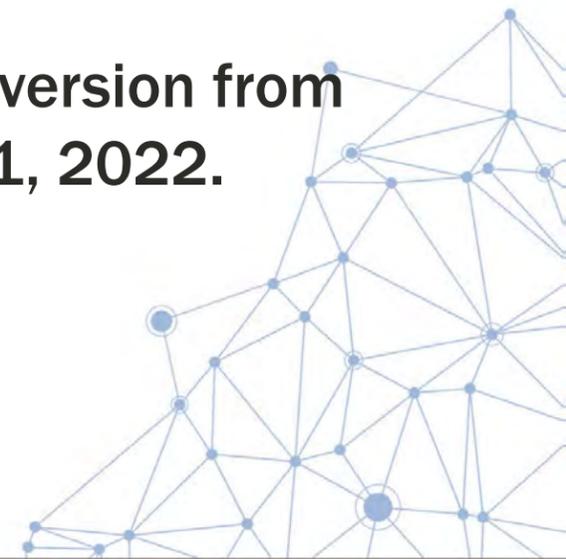
- California Code of Regulations, Title 14 (14CCR); Section 18992.1. Organic Waste Recycling Capacity Planning
- 14CCR, Section 18992.1.(a)(3) and 18992.1.(a)(4) – Organic Waste Recycling Infrastructure
 - Existing Organic Waste Recycling Capacity
 - New or Expanded Organic Waste Recycling Capacity
- 14CCR, Section 18992.1.(d)(2) – If County Determines that Organic Waste Recycling Capacity is Needed Within the County, County Will Notify Jurisdiction(s) that Lacks Sufficient Capacity



Introduction – Regional Organic Waste Recycling Capacity Survey



- **SB 1383 Methane Emission Reduction Target**
 - Reduce the level of GHG emissions to 40% below the levels in 1990.
 - Reduce organic waste disposal by 75% from the 2014 baseline by 2025.
- **Compliance**
 - Implement organic waste diversion from landfill disposal by January 1, 2022.



Purpose – Collaboration with Local Jurisdictions

Los Angeles County
**Countywide
Organic Waste
Management Plan
2020 Annual Report**



August 2021

Purpose – Collaboration with Local Jurisdictions

- Public Works is assisting jurisdictions in addressing their unmet capacity for organic waste infrastructure required by Senate Bill 1383 and any future organic waste diversion requirements.
- Types of Organic Waste
 - Food
 - Green Waste
 - Landscape and Pruning Waste
 - Wood
 - Paper Products
 - Printing and Writing Paper
 - Digestate
 - Biosolids



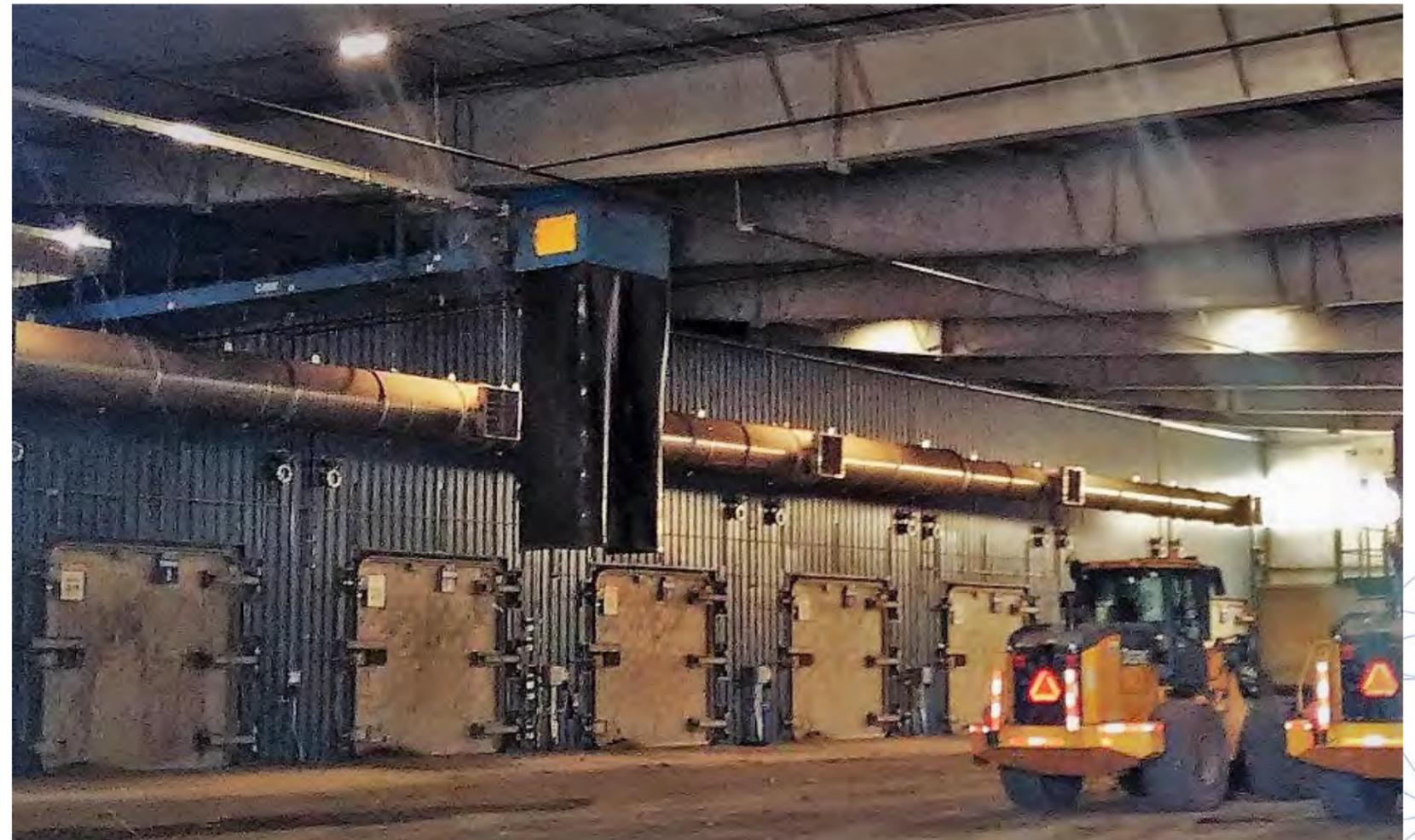


Organic Waste Recycling Facility List Identification



Organic Waste Recycling Facility – List Development

- Collaborative Effort between LA County Public Works and the Tetra Tech Team
- Countywide Organic Waste Management Plan – 2020 Annual Report
- CalRecycle’s - Solid Waste Information System (SWIS) Database
- Tetra Tech Team’s Knowledge of Potential Facilities



Organic Waste Recycling Facility Types

- **Materials Recovery / Transfer Facility**
- **Chipping and Grinding Facility**
- **Composting Facility**
- **SSO Pre-Processing Facility**
- **MSW Organics Extraction/Pre-Processing Facility**
- **Co-Digestion at a WWTP**
- **Anaerobic Digestion**



Materials Recovery / Transfer Facility



Chipping and Grinding Operation



Composting - Open Windrow



Composting – Covered Aerated Static Pile (CASP)



Source Separated Organics (SSO) Pre-Processing



Mixed Waste Organic Extraction – Pre-Processing



Co-Digestion at a Wastewater Treatment Plant



Anaerobic Digestion (AD)



Organic Waste Recycling Facilities Identified



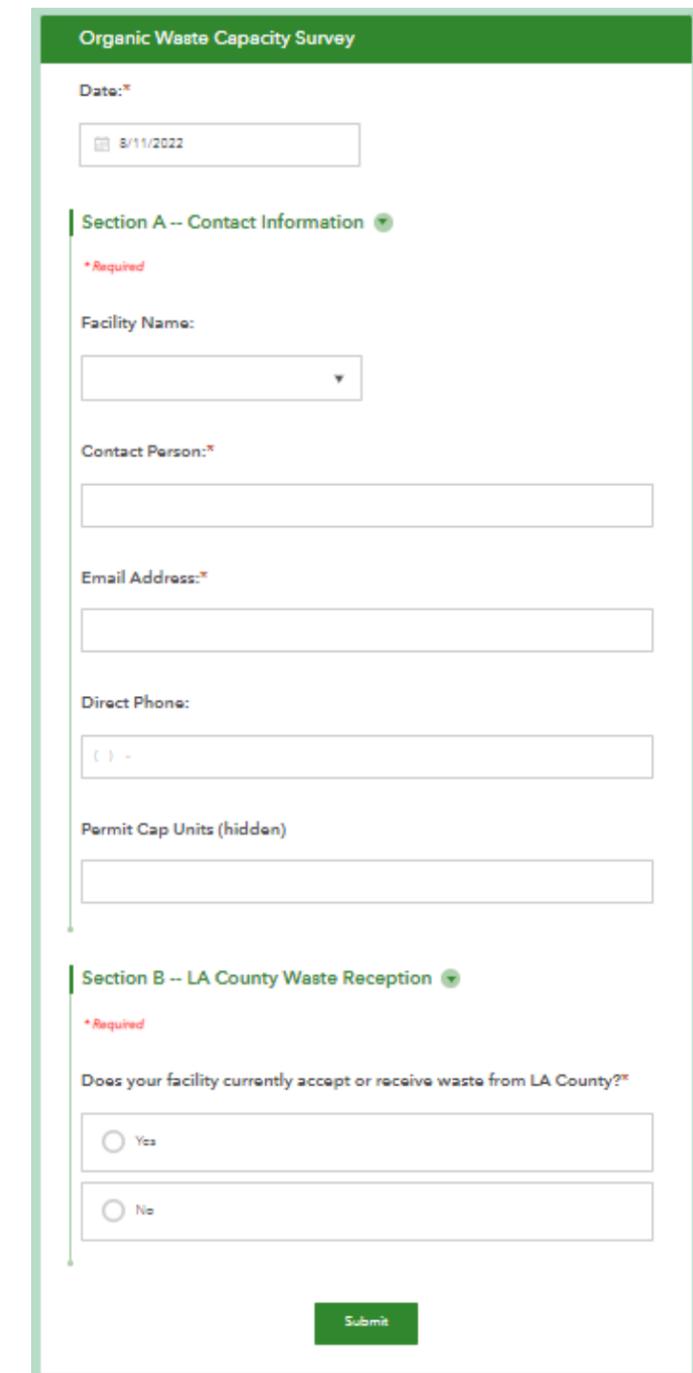
- 2022 Annual Update Organic Waste Recycling Facilities
- 189 Facilities Identified
 - Los Angeles County
 - 41 Material Recovery/Transfer Facilities
 - 11 Composting Facilities
 - 17 Chipping and Grinding Facilities
 - 3 Anaerobic/Co-Digestion Facilities
 - Out-Of-County
 - 78 Composting Facilities
 - 21 Chipping and Grinding Facilities
 - 18 Anaerobic Digestion/Co-Digestion Facilities

Data Collection Methodology (Verifiably Available)



Data Collection Methodology – Survey Tools

- **Facilities were contacted via phone, email, and/or in person.**
 - First contact attempt was always a phone call (i.e., phone number from SWIS database, personal contact, etc.)
- **ArcGIS Survey123 (Data Collection App)**
 - **Survey Status Tracking**
 - First Contact Made
 - Two Contacts Made
 - Three Contacts Made
 - Follow Up
 - Refused – Not Participating
 - Ineligible to be surveyed (i.e., duplicate record [one facility with two different SWIS numbers], not currently operating, etc.)
 - Survey Completed
 - **Organic Waste Capacity Survey**
 - PDF version was also provided to facilities



Organic Waste Capacity Survey

Date:*

8/11/2022

Section A -- Contact Information

* Required

Facility Name:

Contact Person:*

Email Address:*

Direct Phone:

Permit Cap Units (hidden)

Section B -- LA County Waste Reception

* Required

Does your facility currently accept or receive waste from LA County?*

Yes

No

Submit

Data Collection Methodology – Survey Questions

- **Organic Waste Processing Facility Survey**

- Facility Contact Information
- Acceptance from LA County
- Self-Haul
- Operation Type
- Food Soiled Paper
- Compostable Packaging
- Compostable Bags

ORGANIC WASTE CAPACITY SURVEY

Date: _____

Contact Person: _____

Direct Phone: _____

Email Address: _____

1. Does your facility currently accept or receive waste from LA County? Yes No
If "Yes", skip Question 2 and begin survey. If "No" answer Question 2.

2. If no, does your facility *plan* to accept or receive waste from LA County? Yes No
If "No", do not continue survey. If "Yes", begin survey.

FACILITY INFORMATION

Facility Name: _____ No. of Operating Days/Week: _____ Does your facility currently accept waste from self-haulers (commercial/non-commercial)? Yes No

Phone: _____ Permitted Capacity: _____ If no to previous question, does your facility plan to accept waste from self-haulers? Yes No

Address: _____ Plans for Expansion? Yes No

City: _____

County: _____ If yes to previous question, when would the services begin for self-haulers?: _____

FACILITY OPERATION TYPE

Process:

<input type="checkbox"/> Transfer Only (no recycling)	<input type="checkbox"/> Chipping and Grinding
<input type="checkbox"/> Composting (Check type, below):	<input type="checkbox"/> Anaerobic Digestion
<input type="checkbox"/> Open Windrow	<input type="checkbox"/> Co-Digestion
<input type="checkbox"/> Aerated Static	<input type="checkbox"/> Other (Please explain, below):
<input type="checkbox"/> Pile In-Vessel	_____
<input type="checkbox"/> Other (Explain):	_____
_____	_____

If composting or anaerobic digestion was selected, complete the next three questions. All other facility operation types skip to the "Facility Capacity" section.

Do you accept food waste that is mixed in with food soiled paper? Yes No

Do you accept compostable packaging (other than food-soiled paper)? Yes No

Do you accept compostable plastics or organic waste placed in plastic bags? Yes No

Data Collection Methodology – Survey Questions

- Existing and Planned Net Organic Waste Recycling Capacity Questions

FACILITY CAPACITY

Please fill in the blank in tons¹:

May provide value in cubic yards, if conversion factor is provided.

	EXISTING AVAILABLE				PLANNED/PROPOSED			
	Maximum Operating Capacity/Capability <small>(This should represent your "operational" and not "permitted")</small>	Average Operating Throughput	Residual Sent to Landfill <small>(if applicable)</small>	Are there any restrictions on recycling these types of wastes? If yes, explain.	Maximum Operating Capacity/Capability <small>(This should represent your "operational" and not "permitted")</small>	Average Operating Throughput	Residual Sent to Landfill <small>(if applicable)</small>	Are there any restrictions on recycling these types of wastes? If yes, explain.
	<i>(tons/day)</i>	<i>(tons/day)</i>	<i>(tons/day)</i>		<i>(tons/day)</i>	<i>(tons/day)</i>	<i>(tons/day)</i>	
Food Waste								
Green Waste								
Landscape and Pruning Waste								
Wood Waste								
Paper Products								
Printing and Writing Paper								
Digestate								
Biosolids								



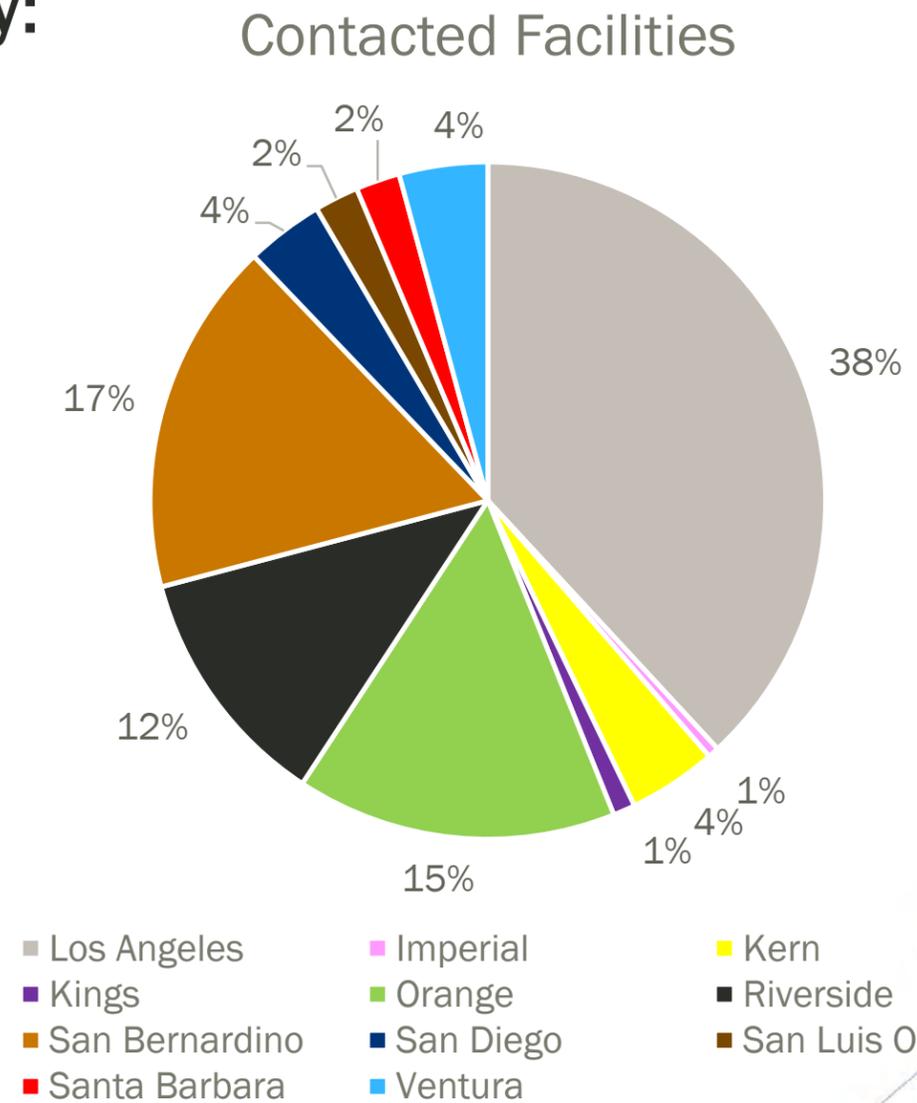
Survey Results



Survey Results – Participation

- **Total Number of Contacted Facilities By County:**

- Los Angeles: 72
- Imperial: 1
- Kern: 8
- Kings: 2
- Orange: 29
- Riverside: 22
- San Bernardino: 32
- San Diego: 7
- San Luis Obispo: 4
- Santa Barbara: 4
- Ventura: 8



Survey Results – Participation

- 189 Facilities Contacted (up to three contact attempts per site)
- Total Number of Contacted Facilities By Status:
 - Complete: 81
 - Ineligible: 34
 - Refused: 3



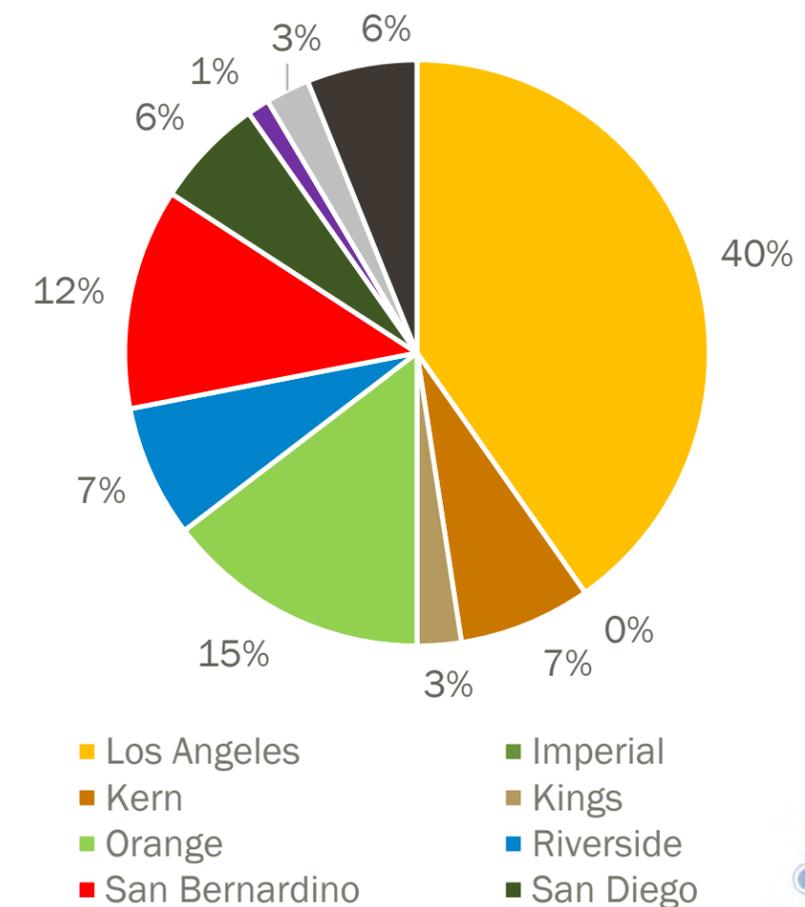
Note: The number of completed survey refers to the number of facilities that provided a survey response. This would include facilities that stated that they currently do not have available organics capacity as well as facilities that stated that they are not currently accepting/have plans to accept material from LA County. Facilities marked as “ineligible” would include facilities that are not currently operating, or a facility that has two different SWIS numbers (one facility was marked as ineligible to avoid duplicate records).

Survey Results – Participation

- **Total Number of Completed Surveys (by County):**

- Los Angeles: 33
- Imperial: 0
- Kern: 6
- Kings: 2
- Orange: 12
- Riverside: 6
- San Bernardino: 10
- San Diego: 5
- San Luis Obispo: 1
- Santa Barbara: 2
- Ventura: 4

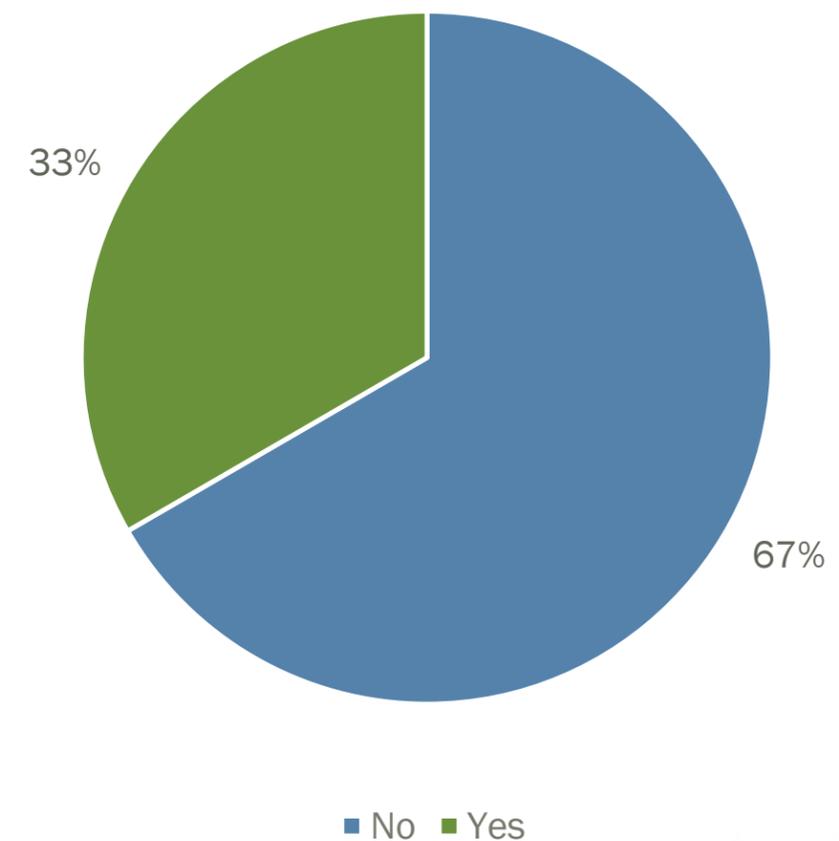
Completed Surveys (by County)



Survey Results – Plans for Expansion

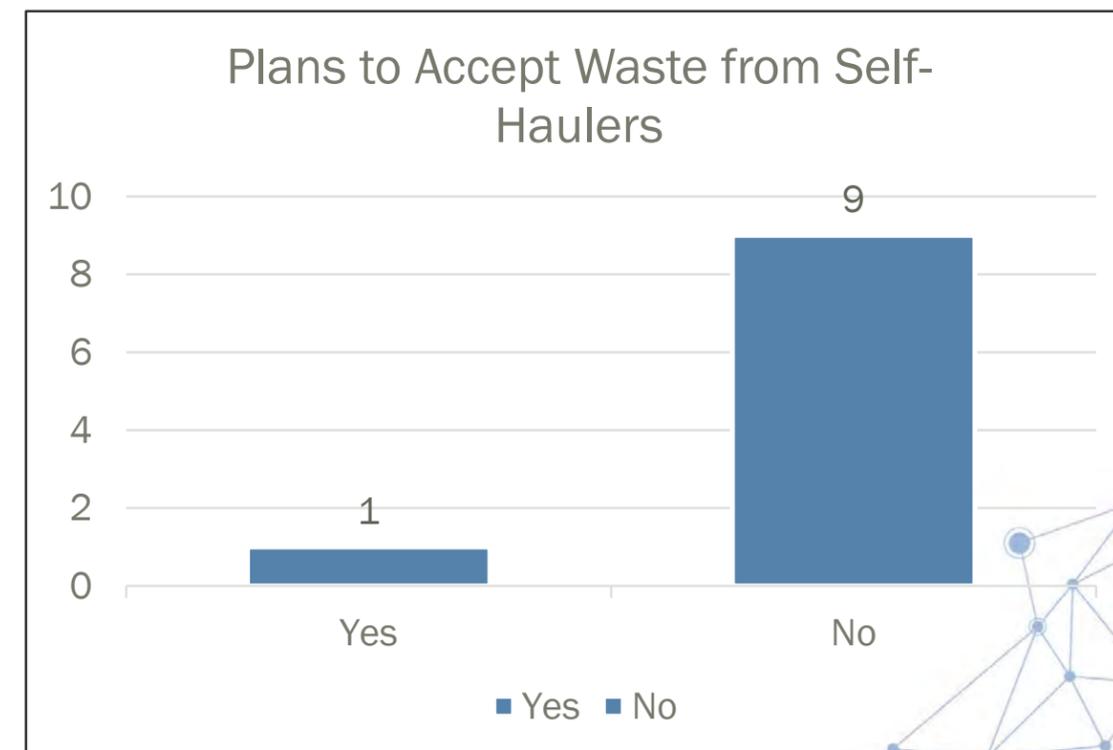
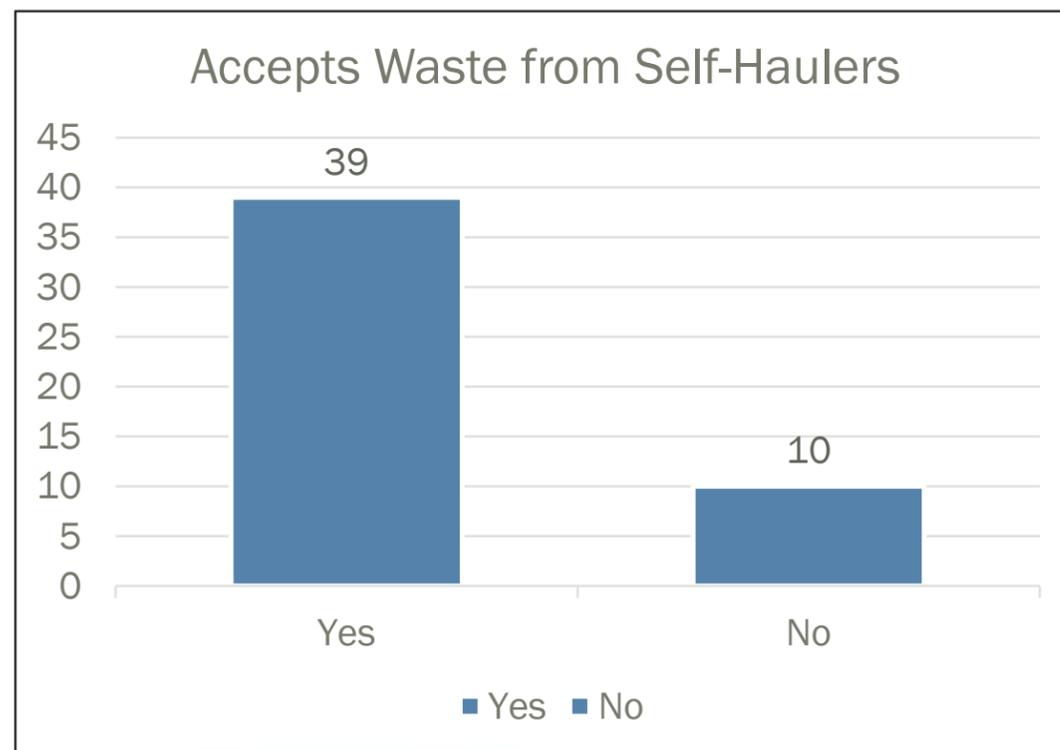
- **Yes: 16**
 - 33% of facilities that responded to the survey question stated that they have plans for expansion.
- **No: 32**
 - 67% of facilities that responded to the survey question stated that they do not have plans for expansion.

Plans for Expansion



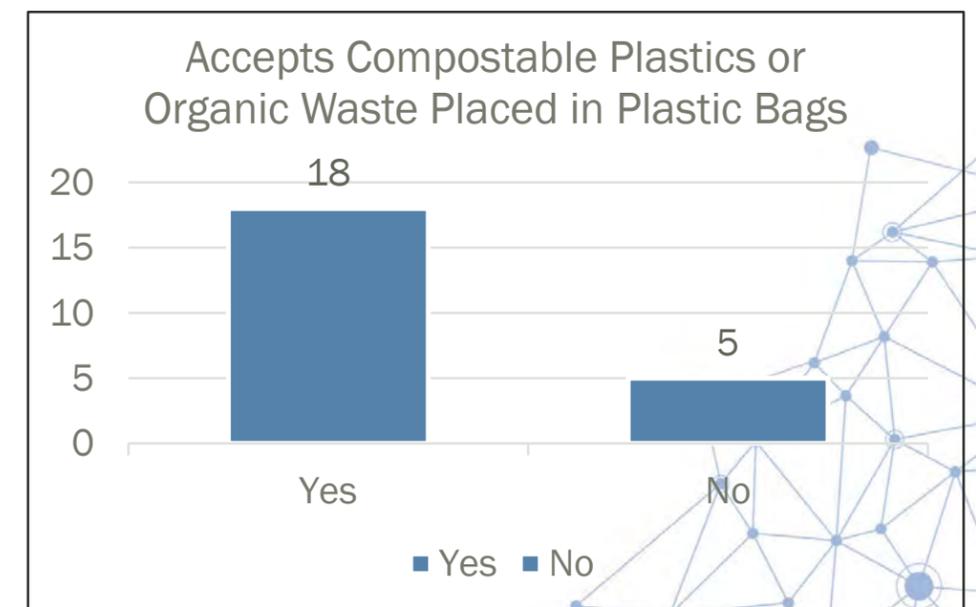
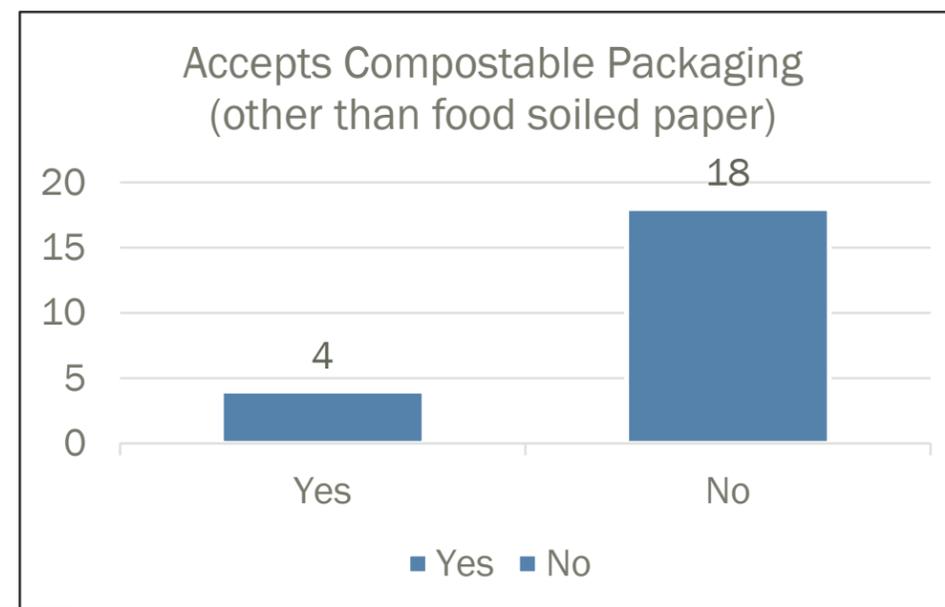
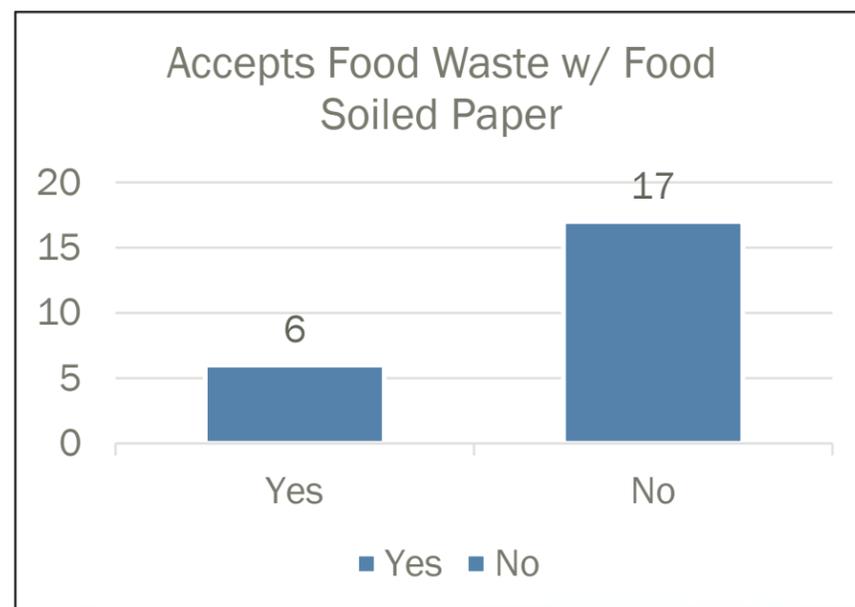
Survey Results – Self Haul

- **Currently accepts waste from self-haulers: 39**
 - 80% of facilities that responded to the survey question stated that they currently accept waste from self-haulers
- **Has plans to accept waste from self-haulers: 1**
 - 10% of facilities that responded to the survey question stated that they have plans to accept waste from self-haulers in the future



Survey Results – Food Soiled Paper and Compostable Plastics/Packaging Acceptance

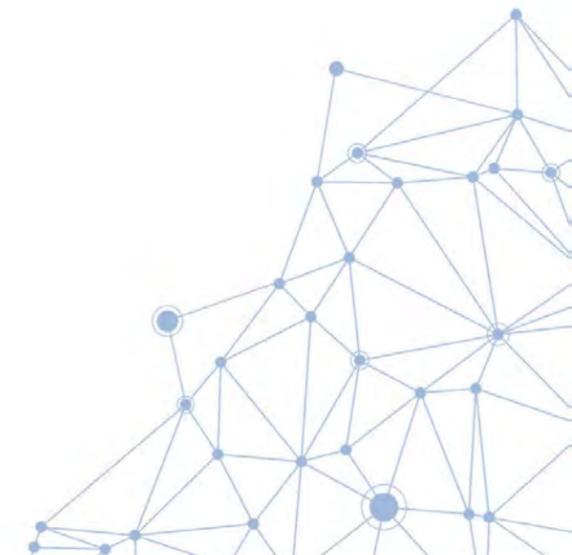
- **Accepts Food Waste with Food Soiled Paper: 6**
 - 26% of composting/anaerobic digestion facilities that responded to the survey question stated that they accept food waste that is mixed with food soiled paper
- **Accepts Compostable Packaging (other than food soiled paper): 4**
 - 18% of composting/anaerobic digestion facilities that responded to the survey question stated that they accept compostable packaging other than food-soiled paper.
- **Accepts Compostable Plastics or Organic Waste Placed in Plastic Bags: 5**
 - 22% of composting/anaerobic digestion facilities that responded to the survey question stated that they accept compostable plastics or organic waste placed in plastic bags



Survey Results – Available Capacity



- Total Number of Surveys Completed: 81
- Total Number of Facilities with Available Capacity: 34



Survey Results – Regional Available Capacity

**Total Available
Capacity (Tons):**

10,179 tons/day

Note: Data provided in cubic yards is converted to tons using an estimated conversion rate of 240 pounds per cubic yard.



Survey Results – Available Capacity by County

- **Total Available Capacity (TPD by County):**

- Los Angeles: 4,344 TPD
- Imperial: 0 TPD
- Kern: 4,532 TPD
- Kings: 0 TPD
- Orange: 550 TPD
- Riverside: 315 TPD
- San Bernardino: 426 TPD
- San Diego: 0 TPD
- San Luis Obispo: 0 TPD
- Santa Barbara: 0 TPD
- Ventura: 12 TPD

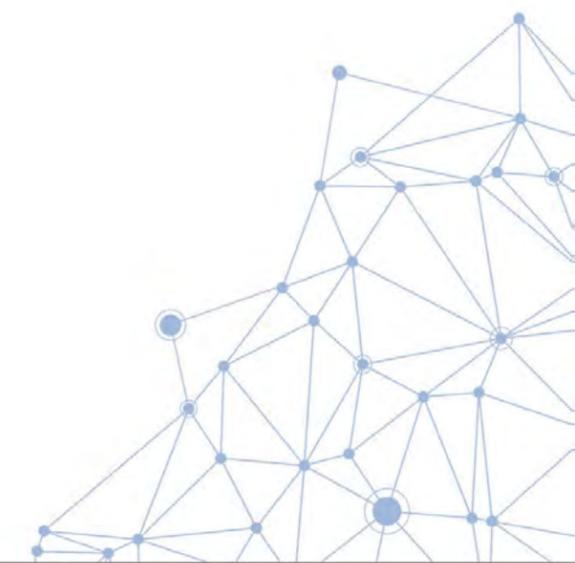


Note: Data provided in cubic yards is converted to tons using an estimated conversion rate of 240 pounds per cubic yard.

Survey Results – Available Capacity by Process Type

- Total Available Capacity (by Process Type)
 - Los Angeles County
 - Transfer/Processing Facilities: 2,922 TPD
 - Composting: 230 TPD
 - Chipping and Grinding: 842 TPD
 - Anaerobic Digestion/Co-Digestion: 350 TPD
- Total Available Capacity (by Process Type):
 - Out of County
 - Composting: 4,660 TPD
 - Chipping and Grinding: 550 TPD
 - Anaerobic Digestion/Co-Digestion: 625 TPD

Note: Data provided in cubic yards is converted to tons using an estimated conversion rate of 240 pounds per cubic yard.



Survey Results – Available Capacity (by Waste Type)

- **Total Available Capacity (TPD)**
 - Food Waste: 3,036
 - Green Waste: 5,416
 - Landscape and Pruning Waste: 618
 - Wood Waste: 253
 - Paper Products: 110
 - Printing and Writing Paper: 0
 - Digestate: 0
 - Biosolids: 747



Note: Data provided in cubic yards is converted to tons using an estimated conversion rate of 240 pounds per cubic yard.

Survey Results – Future Planned Capacity

**Total Future Planned
Capacity (LA County):**

5,840 TPD

**Total Future Planned
Capacity (Out of County):**

5,350 TPD

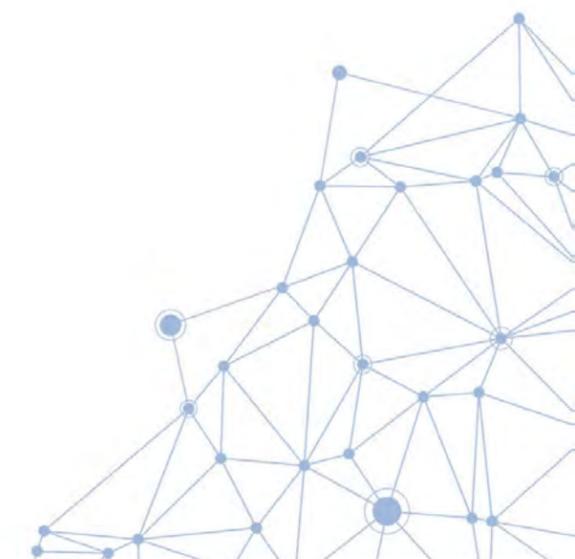


Note: Future available capacity includes planned/proposed facilities as well as future expansions.

Survey Results – Future Available Capacity

- **Total Available Capacity (by Process Type)**
 - **Los Angeles County**
 - Transfer/Processing Facilities: 4,100 TPD
 - Composting: 0 TPD
 - Chipping and Grinding: 0 TPD
 - Anaerobic Digestion/Co-Digestion: 1,740 TPD
- **Total Available Capacity (by Process Type):**
 - **Out of County**
 - Transfer/Processing Facilities: 0 TPD
 - Composting: 4,800 TPD
 - Chipping and Grinding: 0 TPD
 - Anaerobic Digestion/Co-Digestion: 550 TPD

Note: Future available capacity includes planned/proposed facilities as well as future expansions.



Survey Results – Regional Available Capacity

Total Currently Available Capacity (Tons):

10,179 tons/day

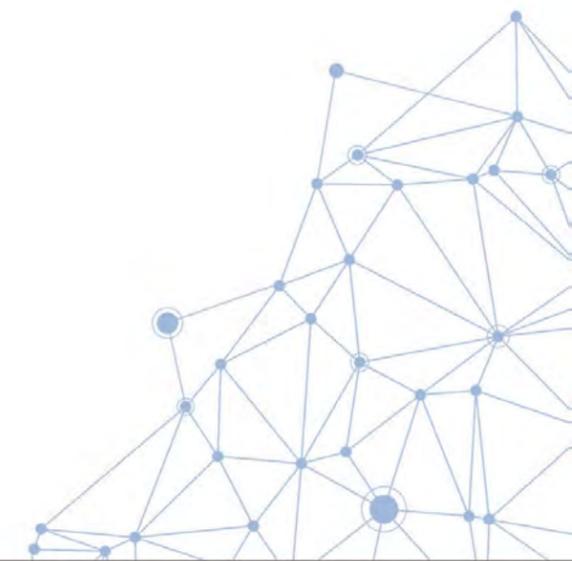


Future Planned Capacity (Tons):

11,190 tons/day

21,369 tons/day

Note: Data provided in cubic yards is converted to tons using an estimated conversion rate of 240 pounds per cubic yard.



Survey Results – Limitations

- Lack of Response from Facilities (i.e., no response, incomplete survey responses)
- Some Capacity Planning is Unknown/Private

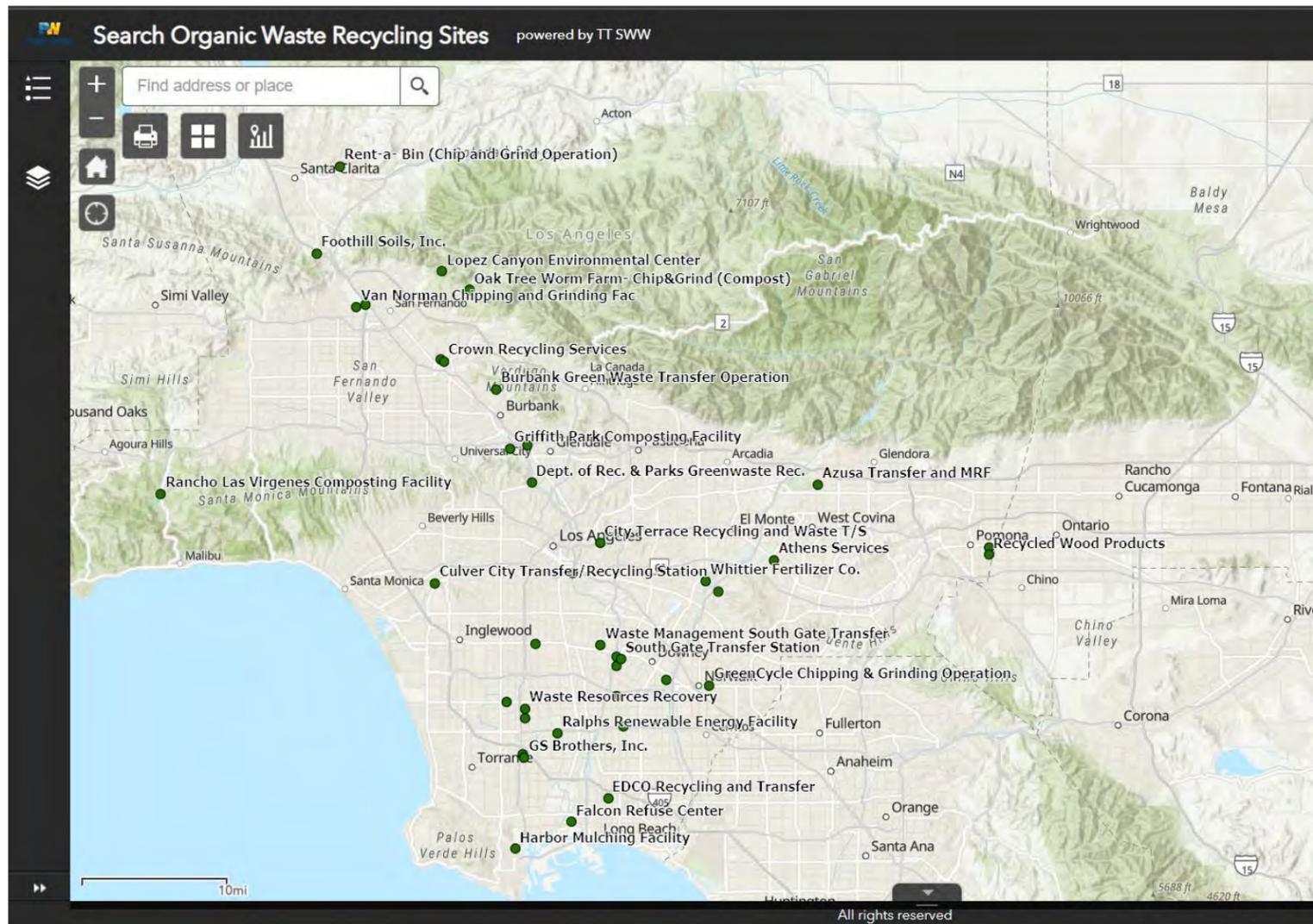




Regional Organic Waste Recycling Capacity Web Map App



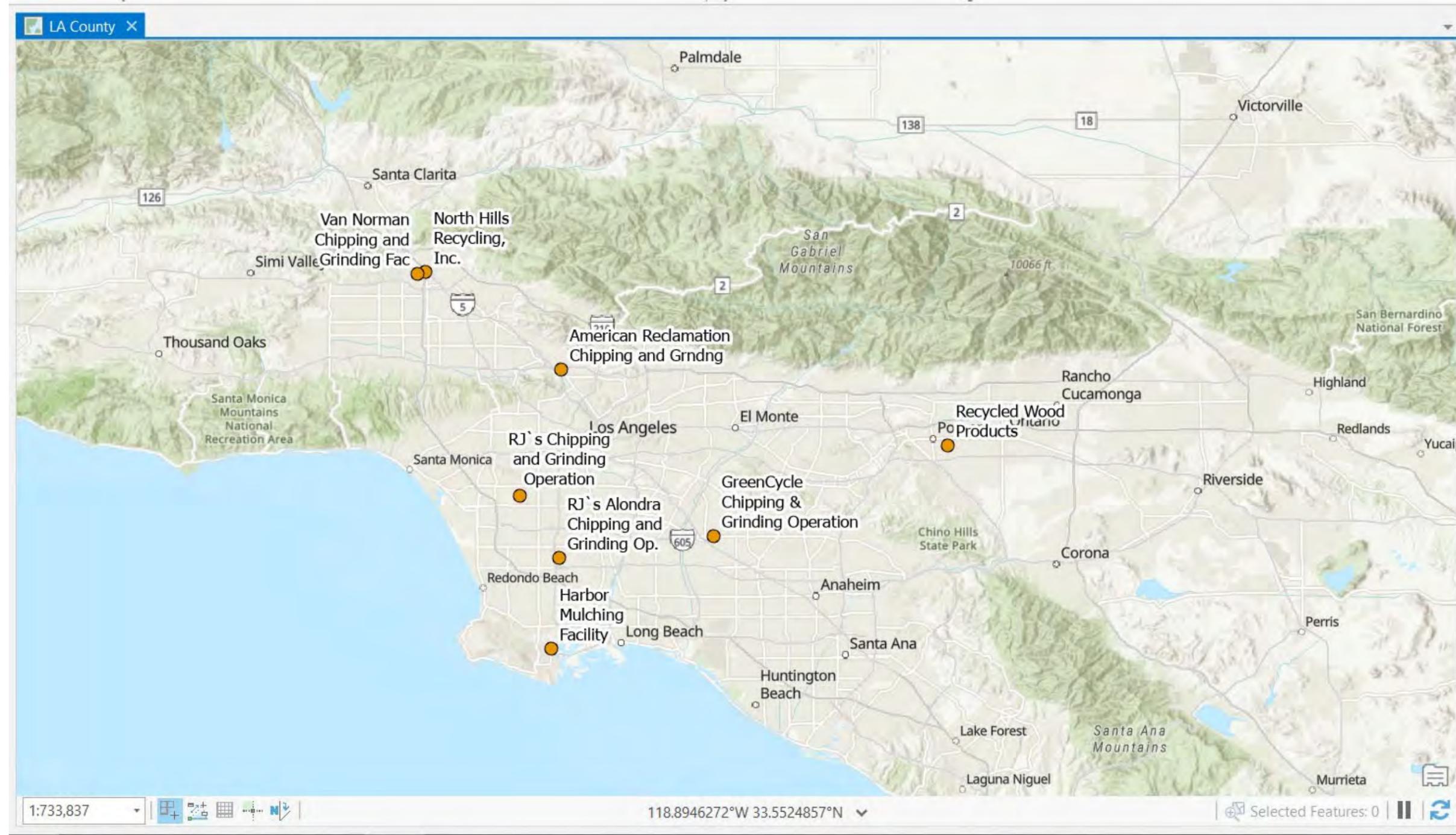
Organic Waste Recycling Facility - Web Map App



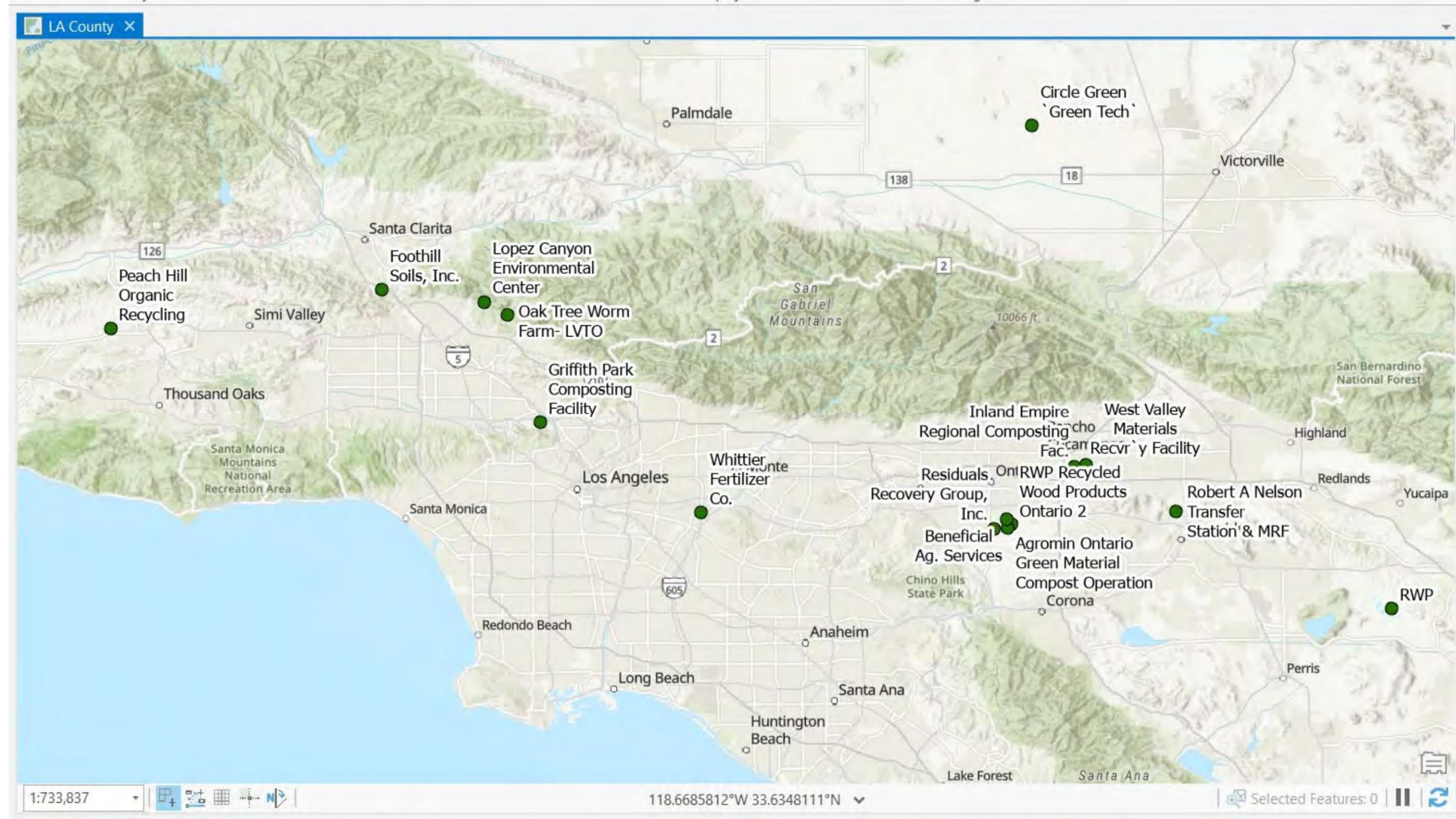
- 189 Facilities Identified Will be Mapped
- Available Organic Waste Recycling Capacity as Applicable
- Filter by:
 - County
 - Facility Operation Type
 - Material Acceptance
 - Self-Haul Acceptance
 - Food Soiled Paper Acceptance
 - Compostable Packaging Acceptance
 - Compostable Bags Acceptance
- Pop Up and Fact Sheet



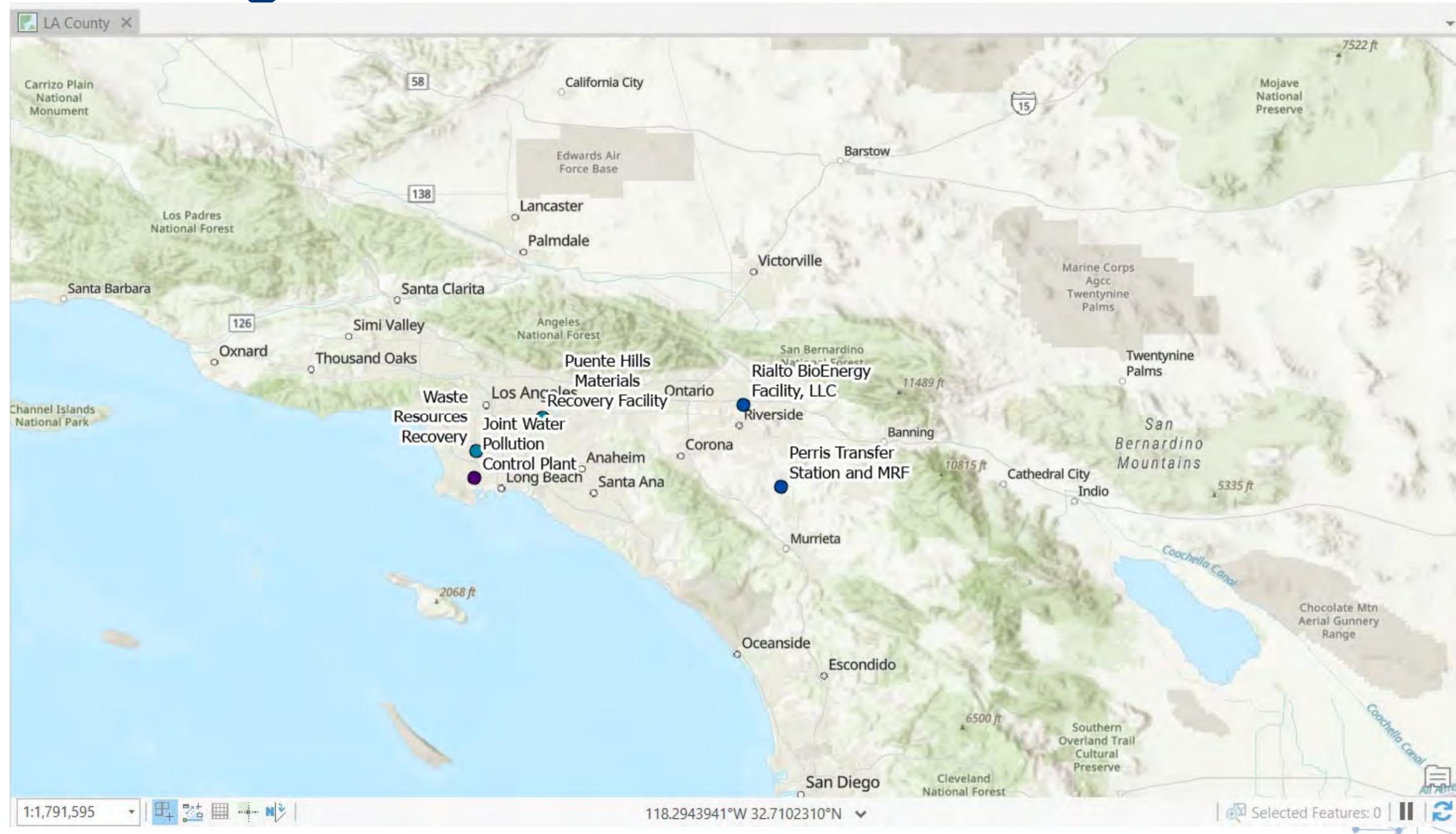
Chipping and Grinding Facilities



Composting Facilities



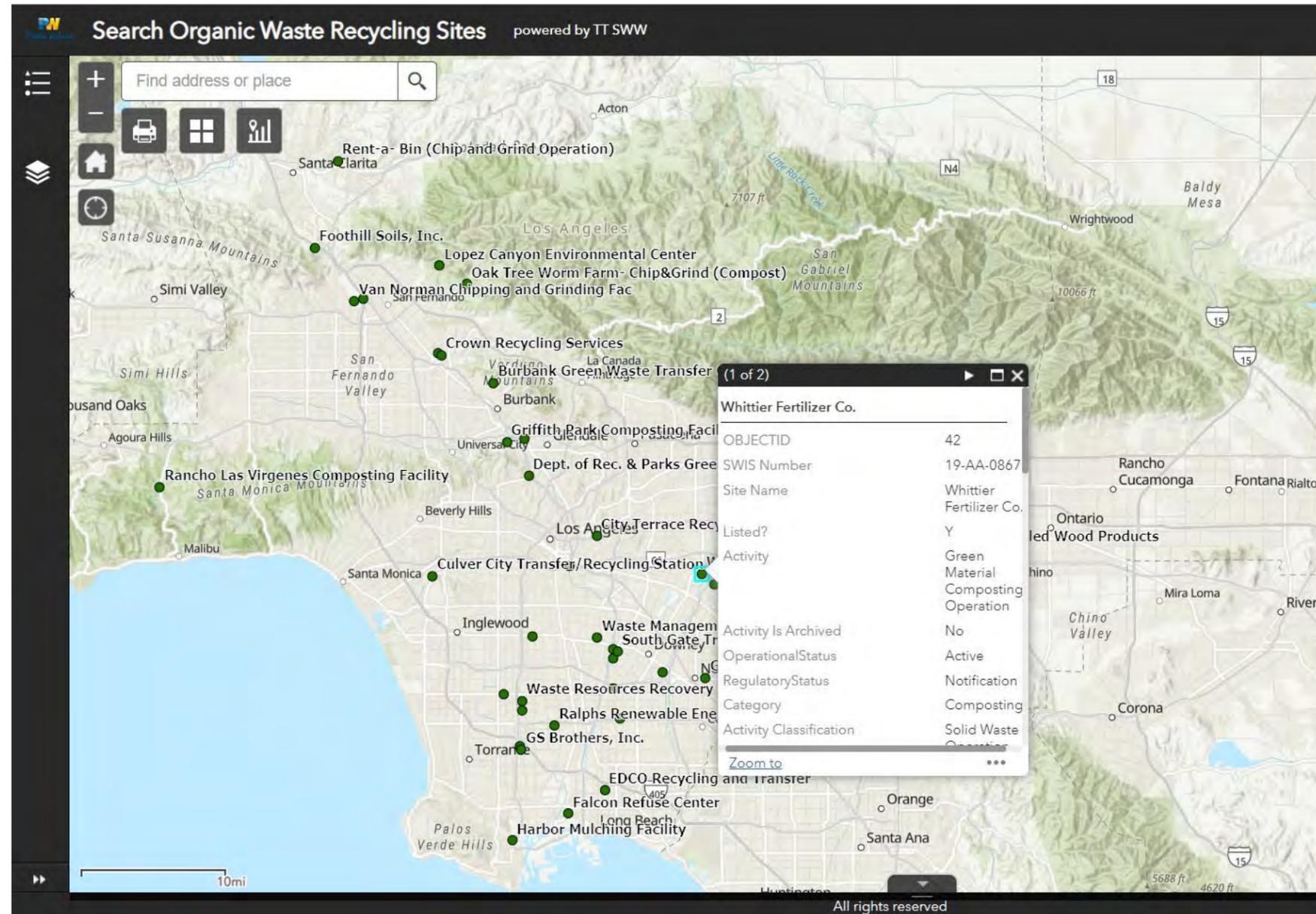
SSO Pre-Processing / Co-Digestion at WWTP / Anaerobic Digestion



Facility Data – Sample Pop-up

Search Organic Waste Recycling Sites powered by TT SWW

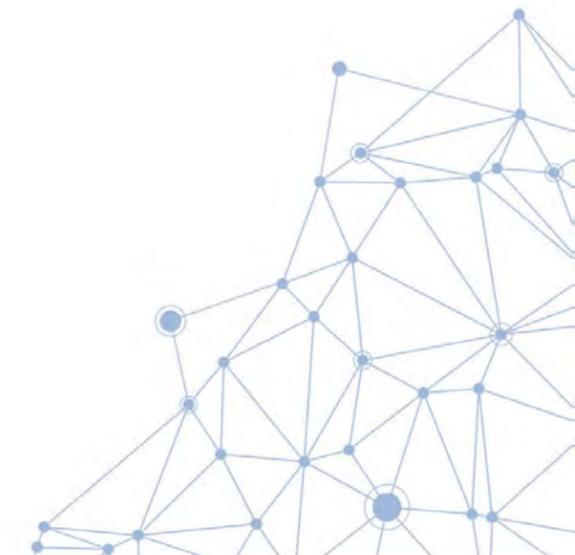
Find address or place



(1 of 2)

Whittier Fertilizer Co.	
OBJECTID	42
SWIS Number	19-AA-0867
Site Name	Whittier Fertilizer Co.
Listed?	Y
Activity	Green Material Composting Operation
Activity Is Archived	No
OperationalStatus	Active
RegulatoryStatus	Notification
Category	Composting
Activity Classification	Solid Waste
Zoom to	
...	

All rights reserved



Facility Data – Sample Fact Sheet

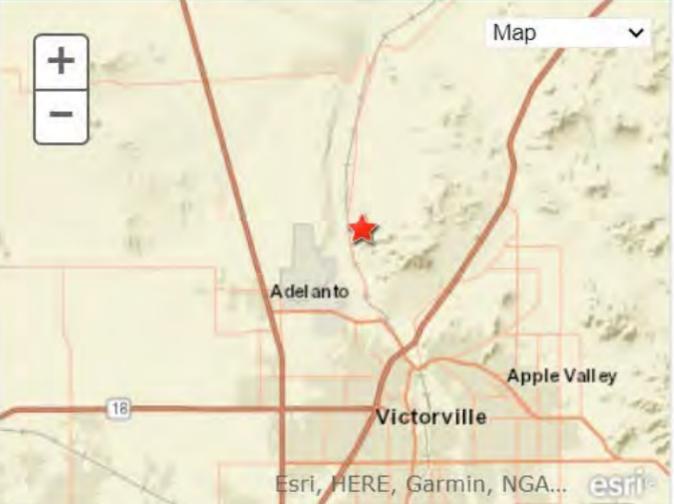
https://dpw.lacounty.gov/epd/swims/site/factsheet-esri.aspx?id=2324&action=2

Public Works
LOS ANGELES COUNTY

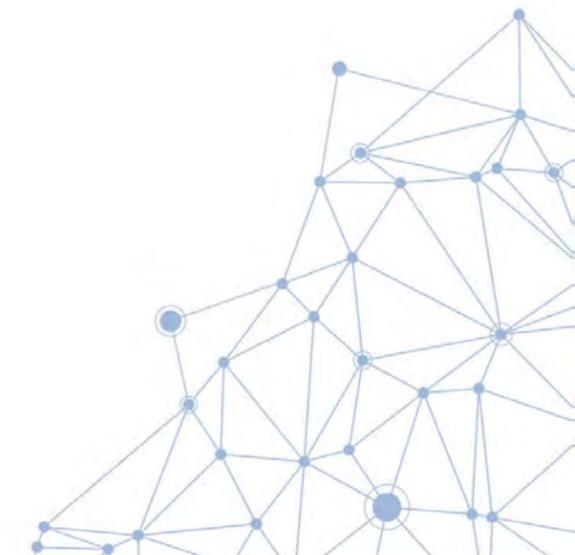
Solid Waste Information Management System

Home Residents Businesses Jurisdictions Online Services News & Resources Help Log In

Fact Sheet: VICTOR VALLEY REGIONAL COMPOSTING FACILITY

Site	Address
<p>Site ID: 2324</p> <p>Site Name: VICTOR VALLEY REGIONAL COMPOSTING FACILITY</p> <p>Alt. Site Name: AMERICAN ORGANICS</p> <p>Site Type: OUT-OF-COUNTY FACILITY</p> <p>Status: ACTIVE</p> <p>Visiting Restriction: OPEN TO PUBLIC</p> <p>Site Website: N/A</p> <p>Site Address: 20055 SHAY ROAD, VICTORVILLE, CA 92394</p> <p>Alt. Site Address: N/A</p> <p>Site Mailing Address: N/A</p> <p>Site Contact Phone: (760) 246-7946 Ext: N/A</p> <p>Hour of Operation: MONDAY - SUNDAY 5 AM - 6 PM</p> <p>Site Email: N/A</p> <p>Waste Accepted: CONSTRUCTION & DEMOLITION GREEN MATERIALS HOUSEHOLD TRASH INDUSTRIAL NON-HAZARDOUS METALS</p> <p>Solid Waste Facility Permit: 36-AA-0403</p>	 <p>Map</p> <p>Esri, HERE, Garmin, NGA...</p>
	<h4>Origins of Waste</h4> <p>NO DATA AVAILABLE</p>

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TETRA TECH

Developed by

Tetra Tech, Solid Waste West



Public Works
LOS ANGELES COUNTY

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Jisela Herrera

Tetra Tech SWW

jisela.herrera@tetratech.com

Matt Cotton

Integrated Waste Management Consulting

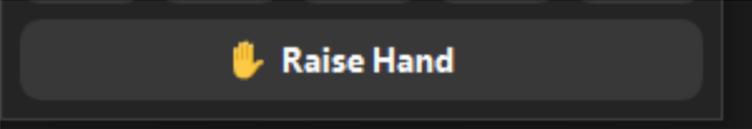
matt@mattcotton.com

Findings for Implementation Schedules

- Information will be located on the County's SB 1383 Capacity Planning website:
 - <https://dpw.lacounty.gov/epd/swims/OrganicCapacityPlanning/>
 - Tentatively available September 2022
- Information can be utilized as a starting point for implementation schedules



Question-and-Answer Session

- Click “Raise Hand”  if you’d like to speak during the Open Discussion; we will call your name and then you can unmute yourself.
- Use the “Q/A” feature to type questions.
- If you are joining us by phone only, using your phone's dial pad, dial *6 to toggle mute/unmute or *9 to raise your hand during the Open Discussion.
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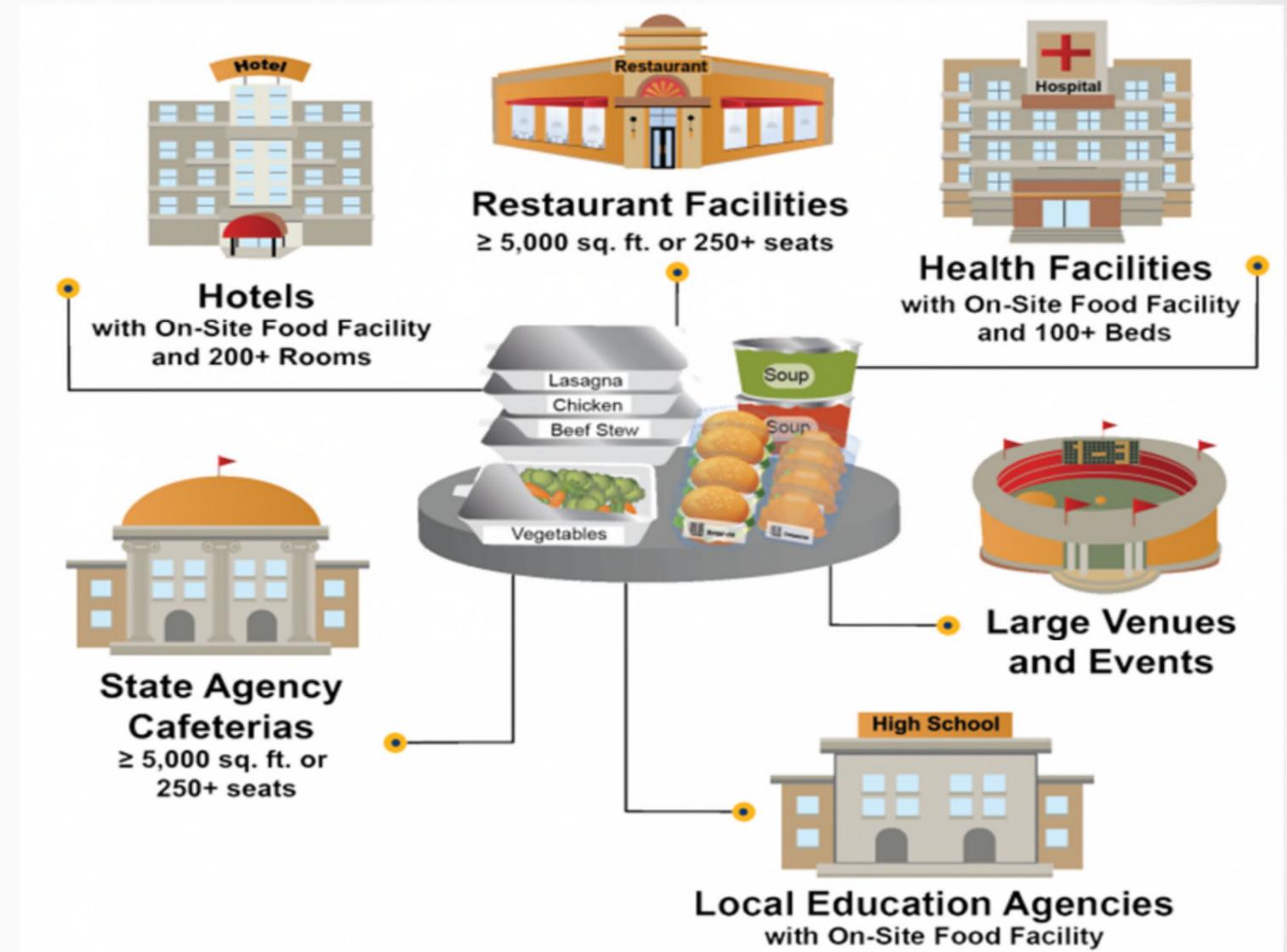
Los Angeles County
Edible Food Recovery Capacity Analysis Update

August 23, 2022

Overview

1. Identifying Tier 1/Tier 2 Commercial Edible Food Generators (EFGs)
2. Edible Food Recovery Capacity Assessment Questionnaires
3. Edible Food Disposal by Tier 1 and Tier 2 EFGs in Los Angeles County
4. Edible Food Recovery Capacity Assessment in Los Angeles County
5. Los Angeles County Edible Food Recovery Capacity Calculation Result

Identifying Tier 1 and Tier 2 EFGs



Edible Food Recovery Capacity Assessment Questionnaires



SB 1383 Food Recovery Organizations and Services Survey

Food Recovery Organizations and Services Survey

This survey has been designed to assess current levels of edible food recovery and challenges to reaching maximized edible food recovery. With this information, we'll be able to identify and provide resources that are most beneficial to the sustainability and future growth of food recovery entities.



SB 1383 COMMERCIAL EDIBLE FOOD GENERATOR SURVEY

Commercial Edible Food Generator Survey

Your business will soon be impacted by Senate Bill 1383, a state law dedicated to reducing short-lived climate pollutants such as methane through food waste reduction and edible food recovery in California. To learn more about SB1383 and how it will impact your business, use the following link:

<https://www.calrecycle.ca.gov/organics/slcp/foodrecovery/donors>

Edible Food Disposal by EFGs

EFG by Type	Total Number	Average lbs./year of Edible Food Disposed
Tier 1: Supermarkets & Grocery Stores (10K+ sq.ft.)	742	6,900,600
Tier 1: Food Service Providers	39	3,991,104
Tier 1: Food Distributors	24	3,072,000
Tier 1: Wholesale Food Vendors	999	127,872,000
Tier 2: Restaurants (250+ seats or 5K+ sq.ft.)	1,489	2,829,100
Tier 2: Hotels (200+ rooms)	125	706,800
Tier 2: Health Facilities (100+ beds)	198	5,154,480
Tier 2: Large Event & Venues	22	7,891,290
Tier 2: Local Education Agencies	1,955	5,348,880

Total Recoverable Edible Food: 163,766,254 lbs./year or **81,883 tons/year**

Edible Food Recovery Capacity with FROs & FRSs

FRO Type	Total Number	Total Edible Food Capacity Accepted (lbs./month)
Existing FROs w/ Verifiable Capacity	375	23,466,964
Existing and New FROs w/ Anticipated Expanded Capacity	446	467,048

Total Existing Verifiable Capacity: 281,603,570 lbs./year or **140,802 tons/year**

Edible Food Recovery Capacity in LA County

- ▶ **Total Existing Verifiable Capacity Per Year:**
 - 281,603,570 lbs./year = 140,802 tons/year
- ▶ **Total Recoverable Edible Food Per Year:**
 - 163,766,254 lbs./year = 81,883 tons/year
- ▶ **Excess(+) Capacity Per Year:**
 - 141,802 tons/year – 81,883 tons/year = **59,919 tons/year**

Questions?

- **Food DROP: www.FoodDROPLA.com**
- **Organic Waste Management: www.FightFoodWasteLA.com**



Contact:

FoodDROPLA@pw.lacounty.gov

Jennifer King (626) 458-3554

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Question-and-Answer Session

- Click “Raise Hand”  if you’d like to speak during the Open Discussion; we will call your name and then you can unmute yourself.
- Use the “Q/A” feature to type questions.
- If you are joining us by phone only, using your phone's dial pad, dial *6 to toggle mute/unmute or *9 to raise your hand during the Open Discussion.
- You can also email your questions to OrganicsPlanning@pw.lacounty.gov

Closing Remarks

Additional Questions:
OrganicsPlanning@pw.lacounty.gov