



Welcome to the Public Informational Meeting for Bee Canyon Greenery Permit Revision

Hosted by: Orange County Environmental Health Division
Solid Waste Program - Local Enforcement Agency (LEA)

Date: September 28, 2023

6:00 p.m.



OC Solid Waste – Local Enforcement Agency (LEA)
September 28, 2023

ORGANIC WASTE COMPOSTING OPERATION

Public Informational Meeting

Bee Canyon Greenery

Location: Frank R. Bowerman (FRB) Land fill
11002 Bee Canyon Access Road
Irvine, CA 92602



Reminders

Please keep note of the following reminders for the duration of the presentation. Thank you.

Note: This is an informational presentation only.



Recording

This meeting is being recorded.



Attendees

Attendees' microphones are muted to avoid interruptions.



Questions

Hold all questions/comments until the end at the question and answer (Q&A) session.



How to Ask Questions



Two ways to “Raise Hand” to ask questions or provide comment

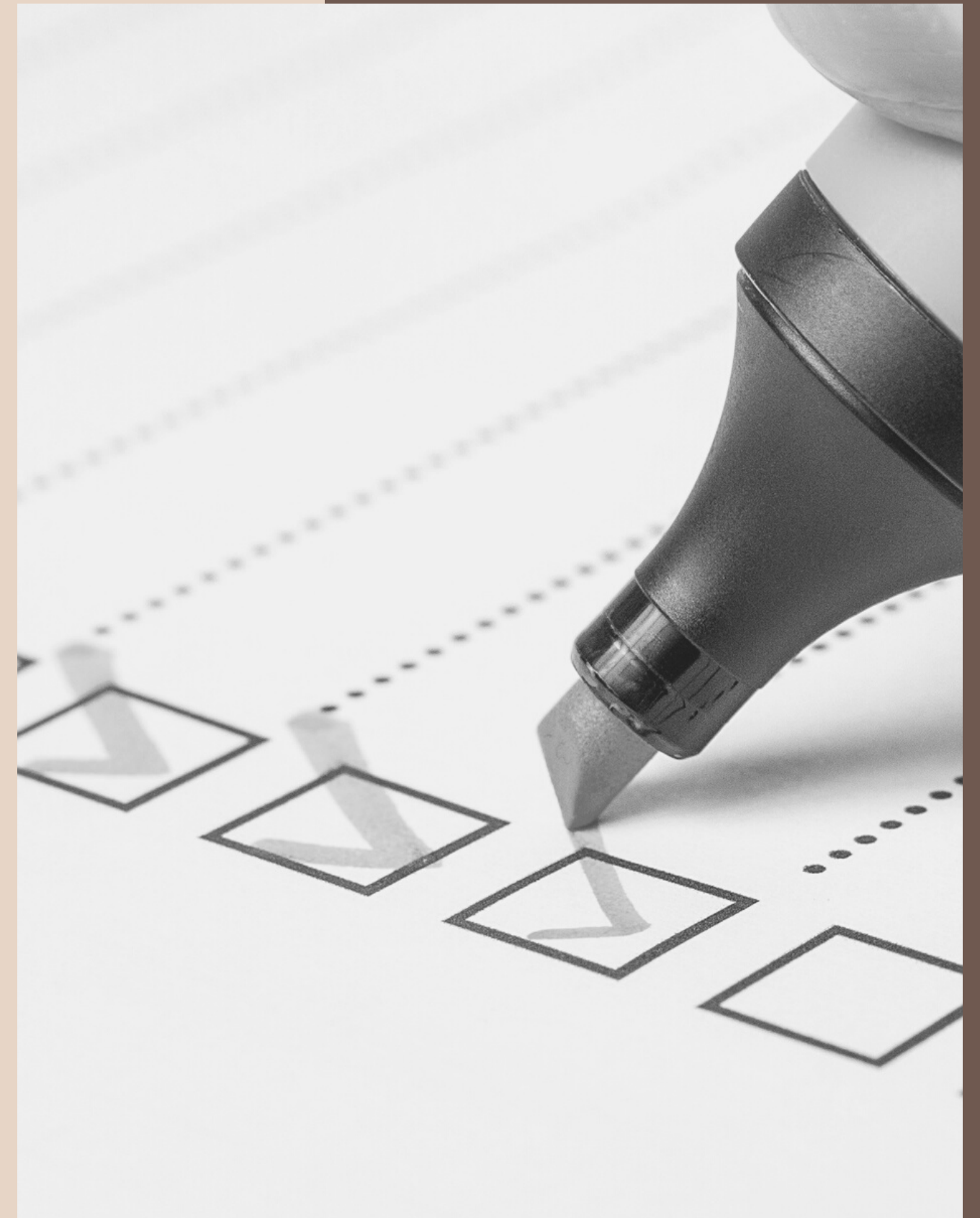
During the Q&A session, presenters will call on and unmute attendees who “raise hand”

A copy of FAQs and this presentation on the permit revision will be made available on OC Environmental Health Division website at <http://ochealthinfo.com/eh>



Meeting Agenda

- 1 Introductions & Instructions on Participation
- 2 Explanation of Local Enforcement Agency's (LEA) Role and Responsibilities
- 3 Purpose of an Informational Meeting
- 4 Overview of the Facility Operations
- 5 Question and Answer Session





Introductions



Orange County Local
Enforcement Agency

- **Lauren Robinson,**
Program Manager
- **Shyamala Rajagopal,**
Program Supervisor
- **Jennifer Nguyen,**
Haz. Materials Specialist



Department of Resources
Recycling and Recovery
(CalRecycle)

- **Megan Emslander,**
*Environmental Scientist
Permitting & Assistance
Branch – South Unit*

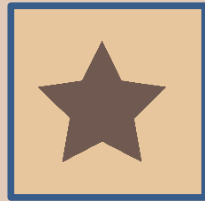


OC Waste & Recycling
(OCWR)

- **David Tieu,** *Deputy Director*
- **Jeff Arbour,** *Section Manager,
Environmental Services*
- **Francine Bangert,** *Public
Communications Manager*



Environmental Health



Designated by Orange County Board of Supervisors in 1992



Orange County Solid Waste Local Enforcement Agency (LEA)
Regulates solid waste facilities/operations in both incorporated and unincorporated areas of Orange County



Certified by the California Department of Resources Recycling and Recovery (CalRecycle)

- Conducts audits on the LEA at least every 3 years to ensure the LEA is maintaining state requirements for certification
- Conducts joint inspections with LEA at permitted facilities



Local Enforcement Agency (LEA) Responsibilities

- Enforces State solid waste regulations to protect public health, safety, and the environment
- Conducts random, unannounced inspections of solid waste facilities/operations to ensure compliance with State minimum Standards
- Coordinates efforts with CalRecycle and other regulatory agencies such as Air Quality Management District (SCAQMD), Regional Water Quality Control Board (RWQCB), and Cities
- Issues Solid Waste Facility Permits (SWFPs) with limits, conditions and prohibitions
- Investigates complaints



What the LEA Regulates

Active Landfills

Closed Landfills

Transfer Stations

Compost Facilities

Chip & Grind Operations



REQUIREMENTS FOR THIS Informational Meeting

Public Informational Meeting is part of the process to issue a new or revised SWFP.

Required by California Code of Regulations, Title 27, Division 2, Chapter 4, Article 3, Section 21660.2.

Must be held within 60 days of receipt of permit application package.

Shall be held at a suitable location within one mile from facility if possible.



Purpose of the Informational Meeting

1

Provide the public with information pertaining to the impending permit action(s) by the LEA for new or revised permits

2

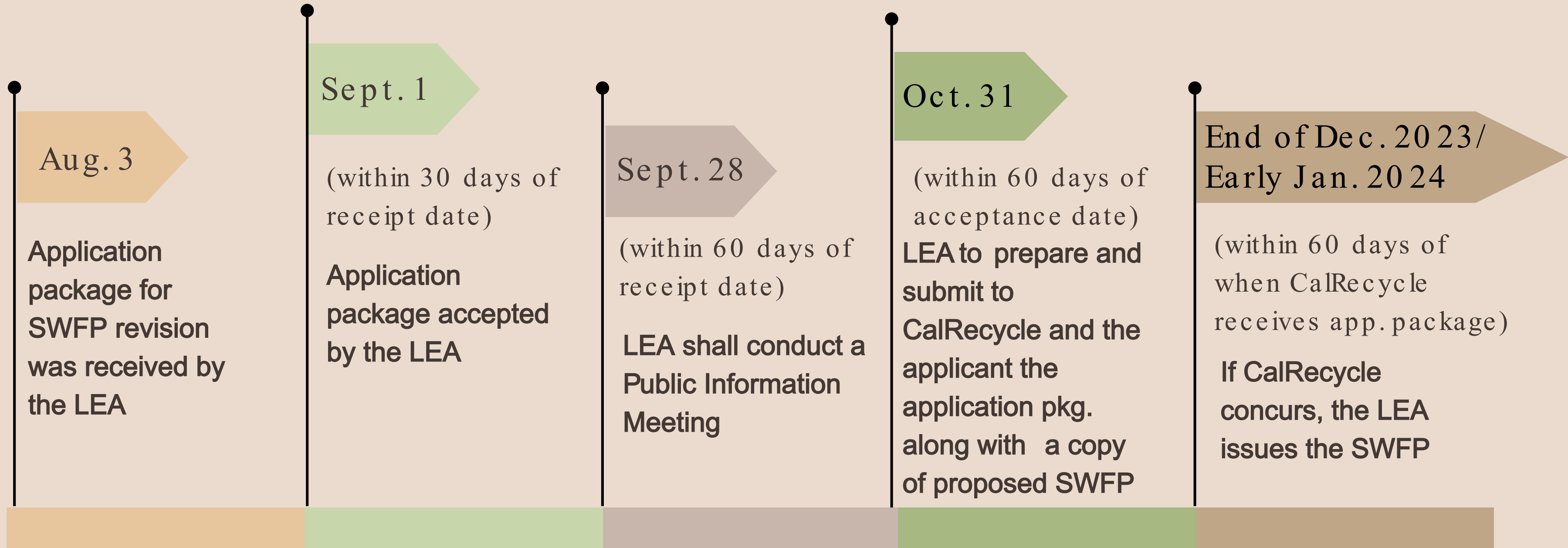
Provide information on the proposed project and incorporate comments, if appropriate into the impending permit action(s)

3

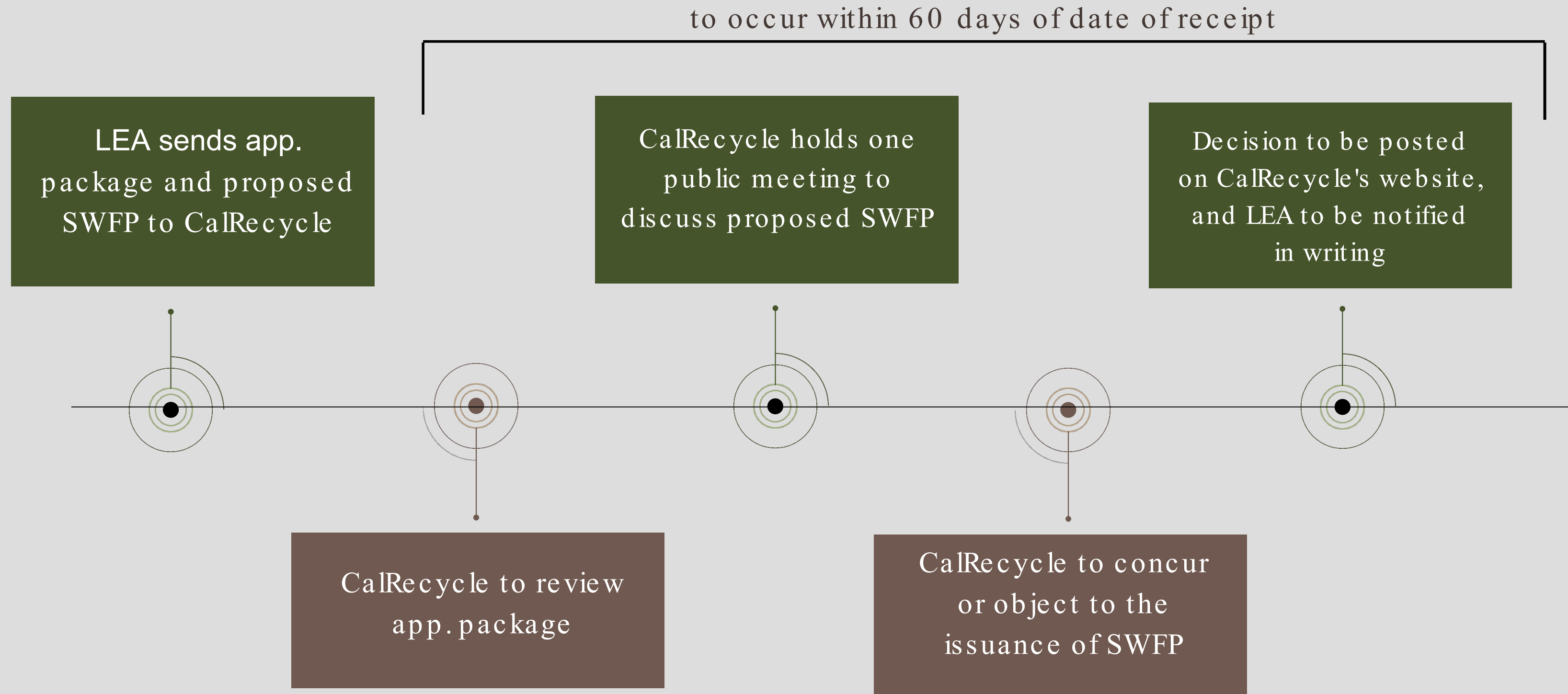
Allow the public to provide feedback and/or comments before/during/after this meeting



SWFP Permitting Process – LEA



SWFP Process – CalRecycle



CEQA Process for the Revised SWFP

- CEQA, or California Environmental Quality Act, is a process that identifies the environmental impacts of a proposed project and implements mitigation measures, if necessary.
- A CEQA analysis must be completed before a SWFP application can be accepted.
- When OCWR applied for a new SWFP in 2020, an Initial Study and Mitigated Negative Declaration (MND) was prepared and filed on March 24, 2020. Subsequently, an addendum to the MND was prepared for the proposed permit revision (for operational changes only).
- Conclusion of Addendum – No new significant environmental impacts and no additional mitigation measures were required.
- OCWR held a virtual public information meeting on November 3, 2022 for the residents of the nearby communities to discuss the proposed operational changes at the composting facility.
- A Notice of Determination for the addendum to the MND was filed with the OC Clerk - Recorder's office on December 14, 2022.



CEQA (Addendum) for ODOR

- SCS Engineers were contracted by SWT Engineering, Inc. to prepare a quantitative odor analysis for OCWR.
- Eight scenarios (modeling runs) were evaluated using the American Meteorological Society/Environmental Protection Agency Regulatory Model (AERMOD) options.
 - ***Runs # 1 through 4*** : Evaluated for open windrow composting method in both flat and elevated terrains.
 - ***Runs # 5 through 8*** : Evaluated for CASP composting method in both flat and elevated terrains.
- Based on the dispersion modeling analysis of the representative odors, it was concluded that addition of Phase 1C composting operations will not cause a significant off-site odor nuisance.



CEQA for TRAFFIC

- LSA (consultants) prepared a limited scope traffic study for OCWR to determine the short-term traffic effects of the proposed Bee Canyon Greenery composting operation.
 - Focused on peak morning and evening traffic at seven intersections (City of Irvine - Traffic Study Guidelines [June 2022])
- Prior to January 2020, FRB landfill received approximately 850 tons/day of processed green materials (PGM).
 - At maximum capacity, the proposed project would accept 876 tons/day (26 additional tons/day) of feedstock and will generate a slight increase in traffic (approx. 2 new two-way truck trips)
- Both the original MND and Addendum to the MND concludes less than significant impacts to transportation and traffic.



Bee Canyon Greenery – Facility Information

Location	Frank R. Bowerman (FRB) Landfill 11002 Bee Canyon Access Rd Irvine, CA 92602
Hours of Operation	Monday through Saturday 7:00 AM – 5:00 PM
Ancillary Operation Hours	24 hours/7 days



Revised SWFP – Bee Canyon Greenery

Information of Existing Facility

Max. Permitted Tonnage: 437 tons per day

Acreage: 30 acres (Phase 1A + Phase 1B) total

Accepted Materials: Green Materials, Wood Waste, and Chip & Grind

Method of Composting: Open Windrow

Proposed Operational Changes to Facility

Max. Permitted Tonnage: 876 tons per day

Acreage: 37.3 acres (+ Phase 1C) total

Accepted Materials: Green Materials, Wood Waste, Chip & Grind, Manure, and Food Waste

Method of Composting: Covered Aerated Static Piles (CASP) and Open Windrow

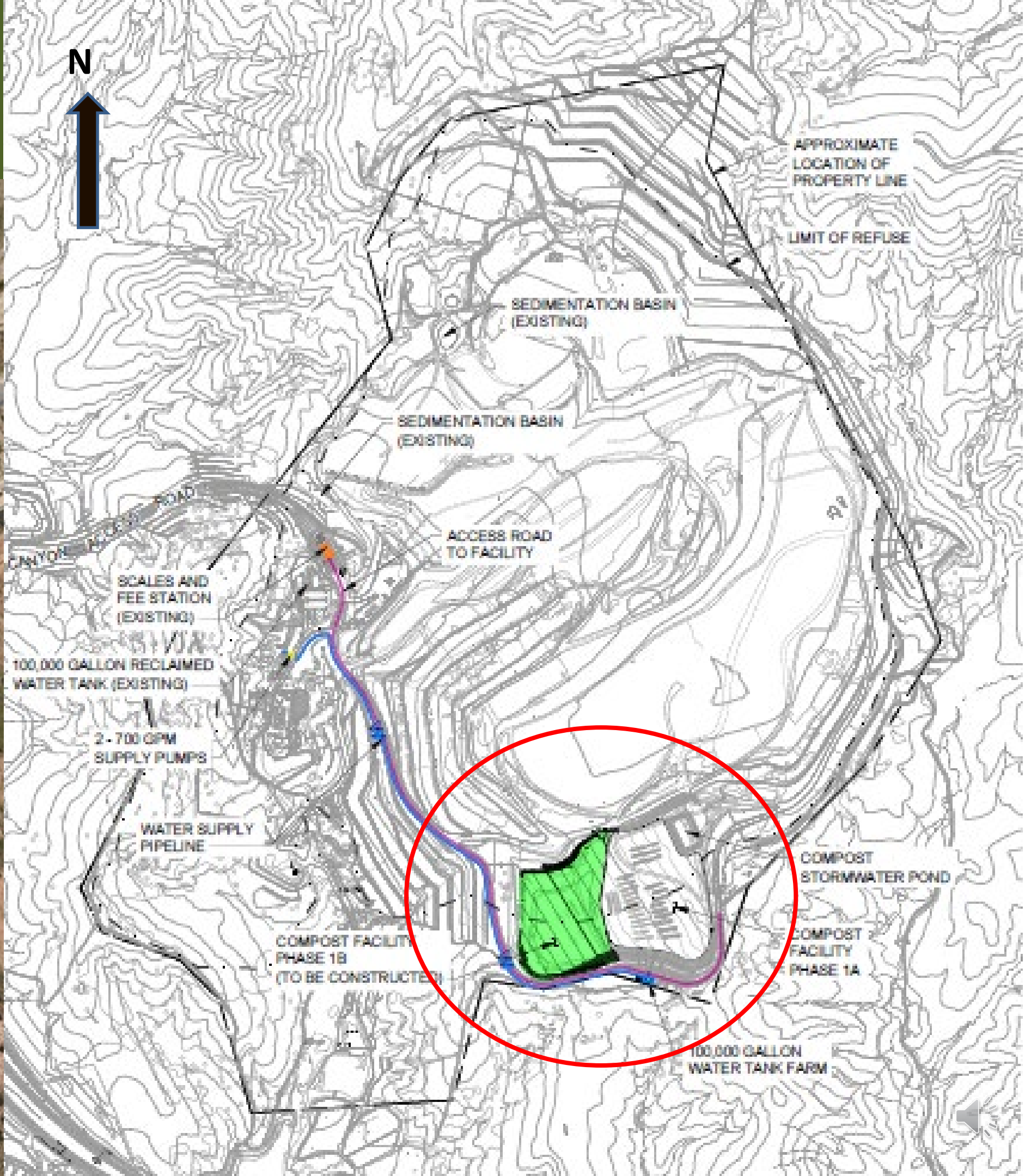


Facility Description & Details

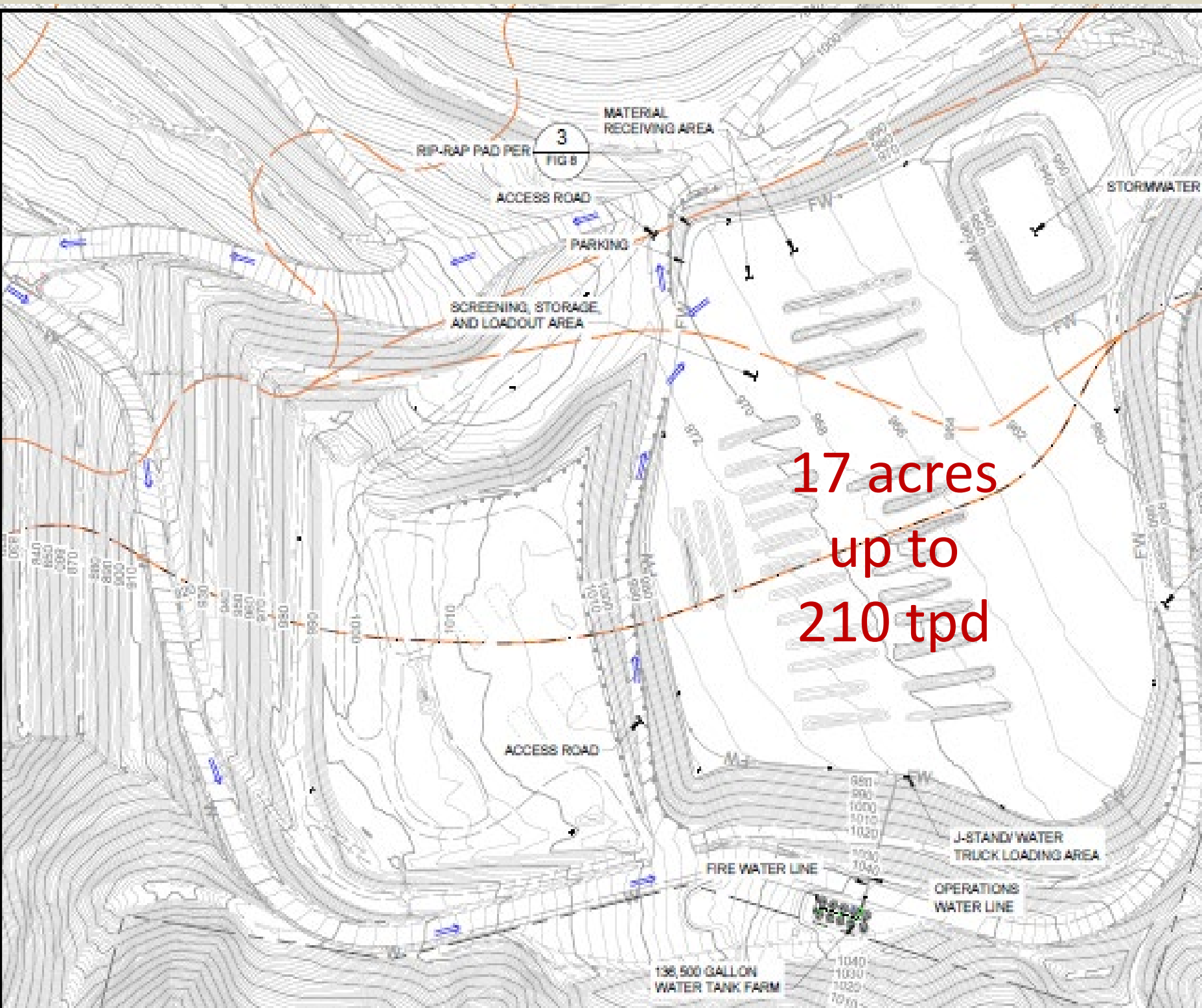
- Frank R. Bowerman (FRB) landfill previously utilized PGM as alternative daily cover (ADC) to cover the refuse daily; however, this practice ceased in January 2020 due to legislation.
- Bee Canyon Greenery (BCG) operated under an EA Notification (EAN) as a pilot project in 2018 with a maximum volume of 92 cubic yards.
- In September 2020, the facility revised the EAN to be able to increase volume of materials handled to 12,500 cubic yards.
- When the full SWFP for BCG was approved by the LEA in December 2020, FRB began to divert the incoming green waste that was once used as ADC to BCG for composting.
- The existing BCG facility currently operates in two phases – Phase 1A and Phase 1B (maximum of 437 tons/day combined) using only the open windrow composting method.
- The revised permit for BCG is proposing the addition of Phase 1C, facility acreage adjustment, and utilizing the covered aerated static piles (CASP) composting method for future operations with the acceptance of additional feedstock materials (maximum tonnage of 876 tons/day).



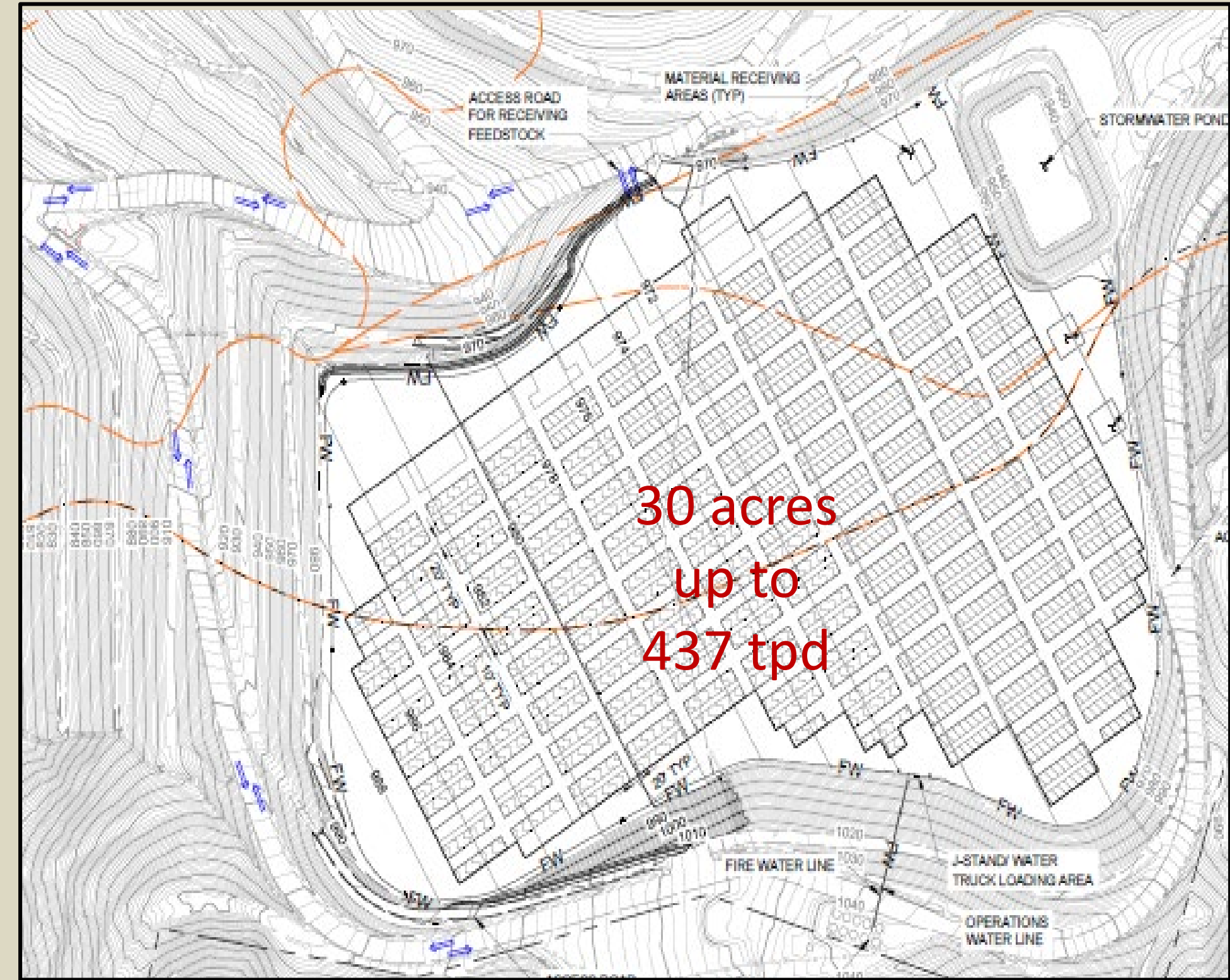
Existing Bee Canyon Greenery Facility



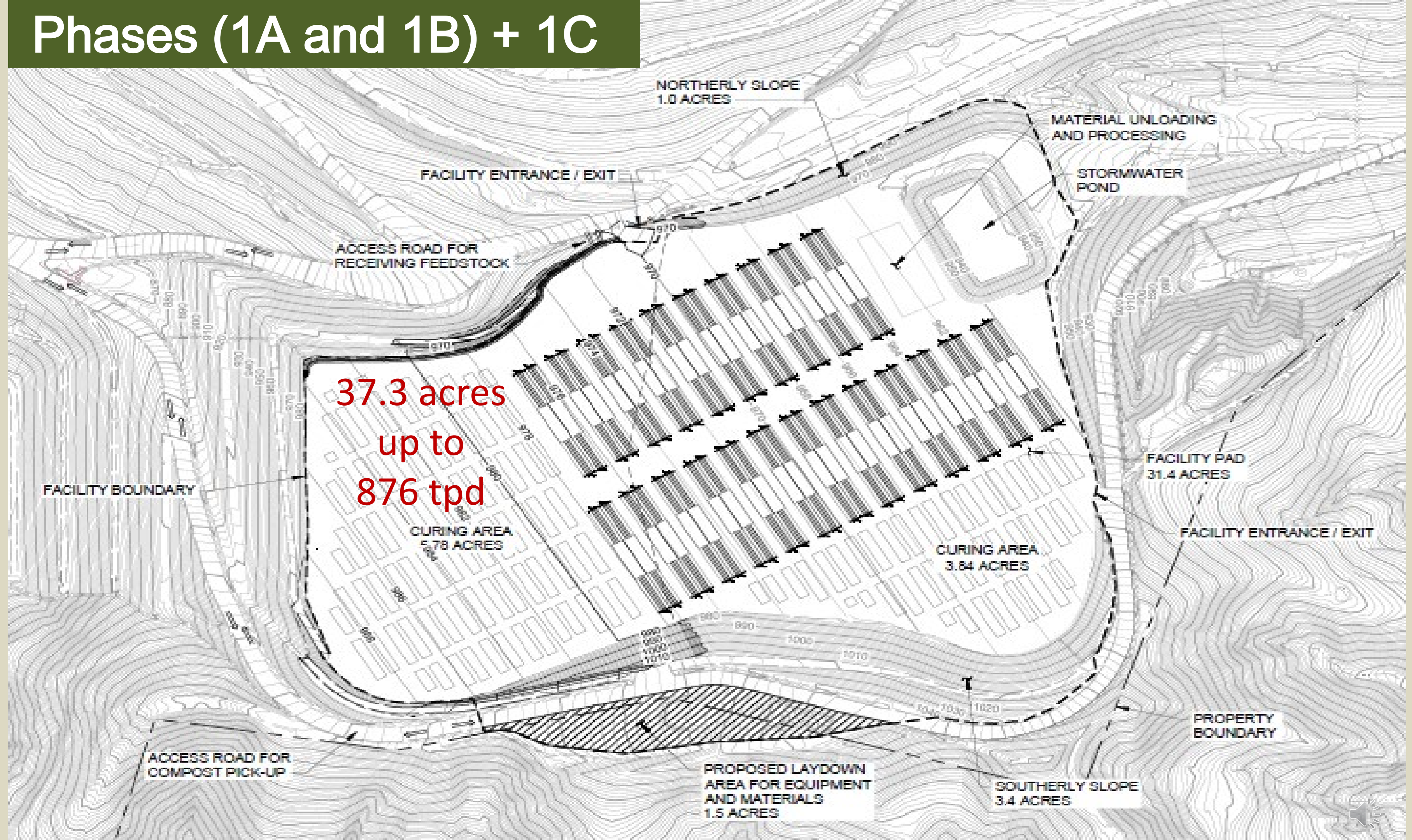
Phase 1A



Phase 1A + Phase 1B



Phases (1A and 1B) + 1C



Open Windrow Composting

- “Windrow Composting Process” means the process in which compostable material is placed in elongated piles. The piles or “windrows” are aerated and/or mechanically turned on a periodic basis.
- Open windrows are not covered.
- Most commonly aerated by natural air movement (turning the piles and spraying water as needed).
- Process to Further Reduce Pathogen (PFRP): Maintained at 131 degrees Fahrenheit or higher for 15 days or longer with a minimum of five turnings (Title 14 CCR §17868.3 (b)(3)).
- Adequate moisture must be maintained.



Covered Aerated Static Pile (CASP)



- “Aerated Static Pile” means a composting process that uses an air distribution system to either blow or draw air through the pile.
- Little or no pile agitation or turning is performed.
- CASP technology utilizes a tarp system equipped with a blower to induce forced aeration for the PFRP while also serving as an emission control technology under South Coast Air Quality Management District Rules (BCG RCSI June 2023).
- PFRP. All active compost shall be covered with 6 to 12 inches of insulating material, and the active compost shall be maintained at a temperature of 131 degrees Fahrenheit or higher for minimum pathogen reduction period of three days (Title 14 CCR §17868.3 (b)(4)).



Involvement Agencies & Responsibilities

City of Irvine	Traffic, truck routes and city code enforcement regarding hauling companies
South Coast AQMD	Dust, air pollution, and landfill odors
Santa Ana Regional Water Quality Control Board (SARWQCB)	Waste discharge requirements (WDR) permit and reporting
Orange County LEA	Permit regarding operation and design, enforcing operating standards, monthly site inspections, verify compost sampling records, and responding to compost odor complaints
Orange County Fire Authority - OCFA	Permit and fire-related issues



Odors at Landfills and Composting Facilities

■ Odors may occur at landfills and compost facilities

■ Both types of operations have specific protocols to follow to minimize odors

■ Both LEA and SCAQMD can respond to odor complaints

- SCAQMD --- > Landfill
- LEA - -- > Compost



Odor Impact Minimization Plan (OIMP) for Bee Canyon Greenery

On-site staff shall assess and evaluate the perimeter of the facility and landfill boundary for objectionable odors each operating day.

Best Management Practices (BMPs) for Odors

- Maintaining adequate heat in piles
- Limiting turning frequency and/or pile dimensions
- Providing adequate moisture throughout the active composting process
- Frequent monitoring of temperature and moisture content
- Prevent ponding of water
- Deploying feedstock into windrows in a timely manner
- Practice good housekeeping

Complaint Response Protocols by OCWR

- All odor complaints are recorded
- Designated personnel by the operator shall contact the complainant and notify the LEA
- Providing adequate moisture throughout the active composting process
- Additional measures will be implemented to minimize odors
- Designated personnel shall follow-up with the complainant and submit an odor survey report to the LEA
- Maintain and document all complaints and reports



Reporting Odor Issues When They Arise

Operator: Orange County Waste & Recycling (OCWR)

- Online complaints: <https://ocwrnsp.ocgov.com/concern>

Orange County LEA Hotline - (714) 433-6404 (business hours)

- Online complaints: <https://www.ocalthinfo.com/eh/home/complaints>

CalRecycle Online Complaint System

- <https://calrecyclecomplaints.secure.force.com/complaints/>

SCAQMD - call (800) CUT-SMOG or (800) 288-7664 (24 hours)

- Online complaints:
- <http://www3.aqmd.gov/webappl/complaintsystemonline/NewComplaint.aspx>



Question & Answer

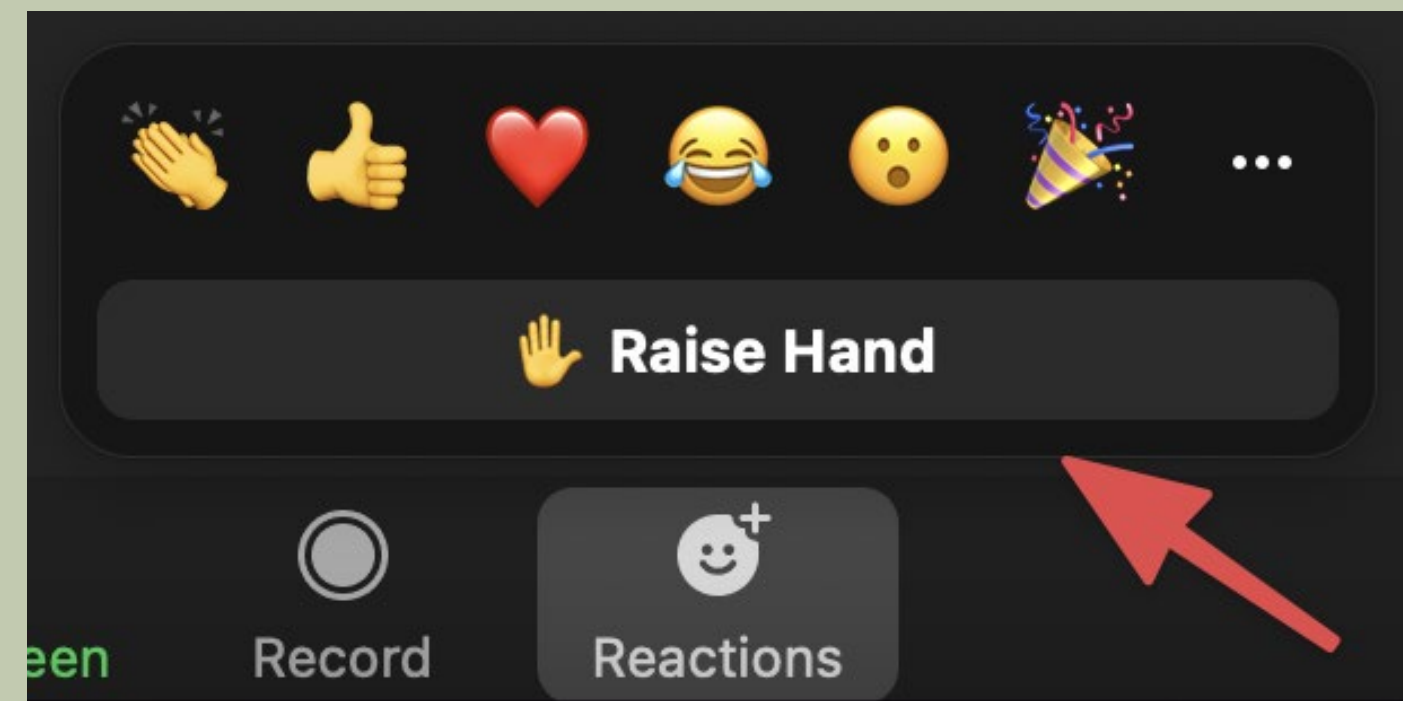
If you are dialing in:

- Dial *9 (Star 9) to “Raise Hand”



If you are viewing the presentation :

- Click on “Reactions” on the option bar at the bottom and click “Raise Hand”
- You can also use ALT+Y (Windows) or Option+Y (Mac)





THANK YOU

We appreciate your time.

CONTACT US



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Questions & Answers

This presentation and permit application information are available for review at:
<https://www.ochhealthinfo.com/eh/more/sm/sw>

How to provide written comments:

Mail to:

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1241 East Dyer Road, Suite 120
Santa Ana, CA 92705

Email to:

Jennifer Nguyen, LEA at
jnguyen2@ochca.com
Phone: (714) 433-6274

*Public comment period ends 5:00pm on
October 13, 2023.*

