

# CITY OF LOS ANGELES

## BIOSOLIDS MANAGEMENT PROGRAM

LA Sanitation and Environment  
Biosolids Management Group  
July 2022



# Main Topics

- Hyperion Water Reclamation Plant – General Description
- Class A Exceptional Quality (EQ) Biosolids Process
- Beneficial Uses of the City's Biosolids

# Hyperion Water Reclamation Plant – General Description

- The largest of four wastewater treatment – operating by LA Sanitation and Environment.
- Treatment Capacity: approximately 450 MGD.
- Two-third of Los Angeles' wastewater is treated at Hyperion

# Class A Biosolids Process

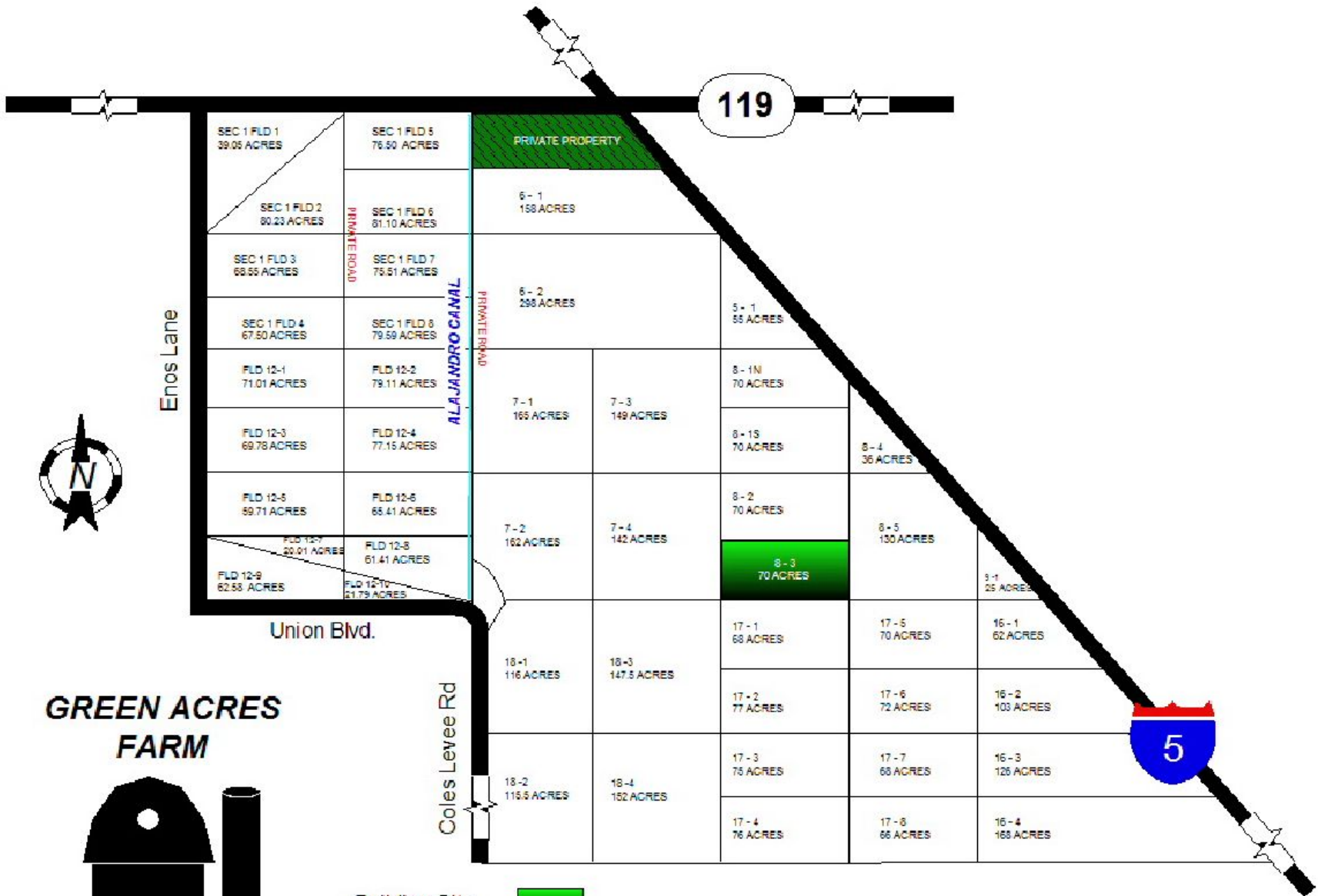
- Thermophilic Anaerobic Digestion
- Class A Exceptional Quality (EQ) Biosolids – Meet/Exceed the Pathogen Requirements in 40 CFR Part 503
- 25% to 27% of solids
- Approximately 700 wet tons per day

# Beneficial Uses of the City's Biosolids

- 71% (500 wet tons/day): Land Application at Green Acres Farm, Kern County and Blythe farms, Riverside County – CA
- 12% (80 wet tons/day) Composting at Griffith Park, South Kern, and Nursery Products Composting facilities
- 17% (120 wet tons/day): Deep Well Injection at Terminal Island Water Reclamation Plant

# LAND APPLICATION





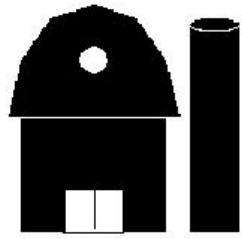
Enos Lane

119



Union Blvd.

**GREEN ACRES FARM**



Coles Levee Rd



- Building Site
- Private Property



# Green Acres Farm

- City owned-farm
- 4,688 acres
- 15 miles SW of Bakersfield
- Long-term site for the City's biosolids – Land Application





**Off-loading biosolids at the farm...**



## Sampling and testing







## Land Application Spreading of Biosolids





Planting...









# HARVESTING







Whea  
t

# Non-human Consumption Crops grown...

Mil



o



Alfalfa



Cor  
n







**Non-human Consumption**  
**Crops sold to local dairies...**







# COMPOSTING



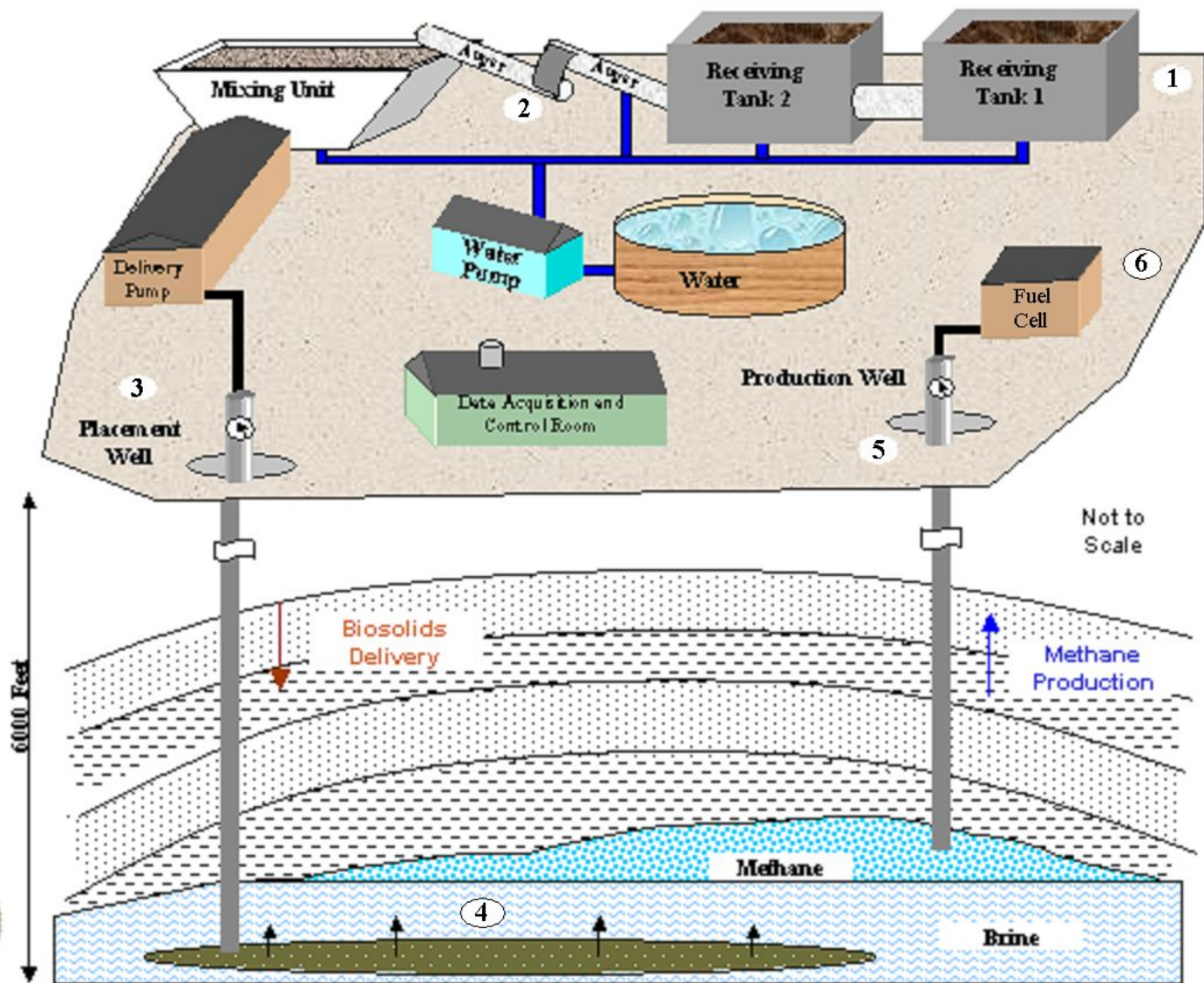
# GRIFFITH PARK COMPOSTING FACILITY



**BIOSOLIDS , GREEN WASTE / WOOD CHIPS , ZOO DOO**

# Deep Well Injection Process

- Biosolids will be placed in sandstone more than 5,000 feet underground
- Utilize the earth's high temperatures and pressures to degrade the organic compounds
- Injection pressure at 3,750 Psi



**In-Situ Biodegradation**



# Environmental Benefits of Biosolids Beneficial Uses

- LA Sanitation and Environment is committed to maintaining 100% beneficial uses of biosolids
- No more ocean disposal of biosolids
- No more landfilling of biosolids
- Revenue generated from crop sales







# Thank you

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