



Dewatered Biosolids Management Strategy

City Council Item 6.1

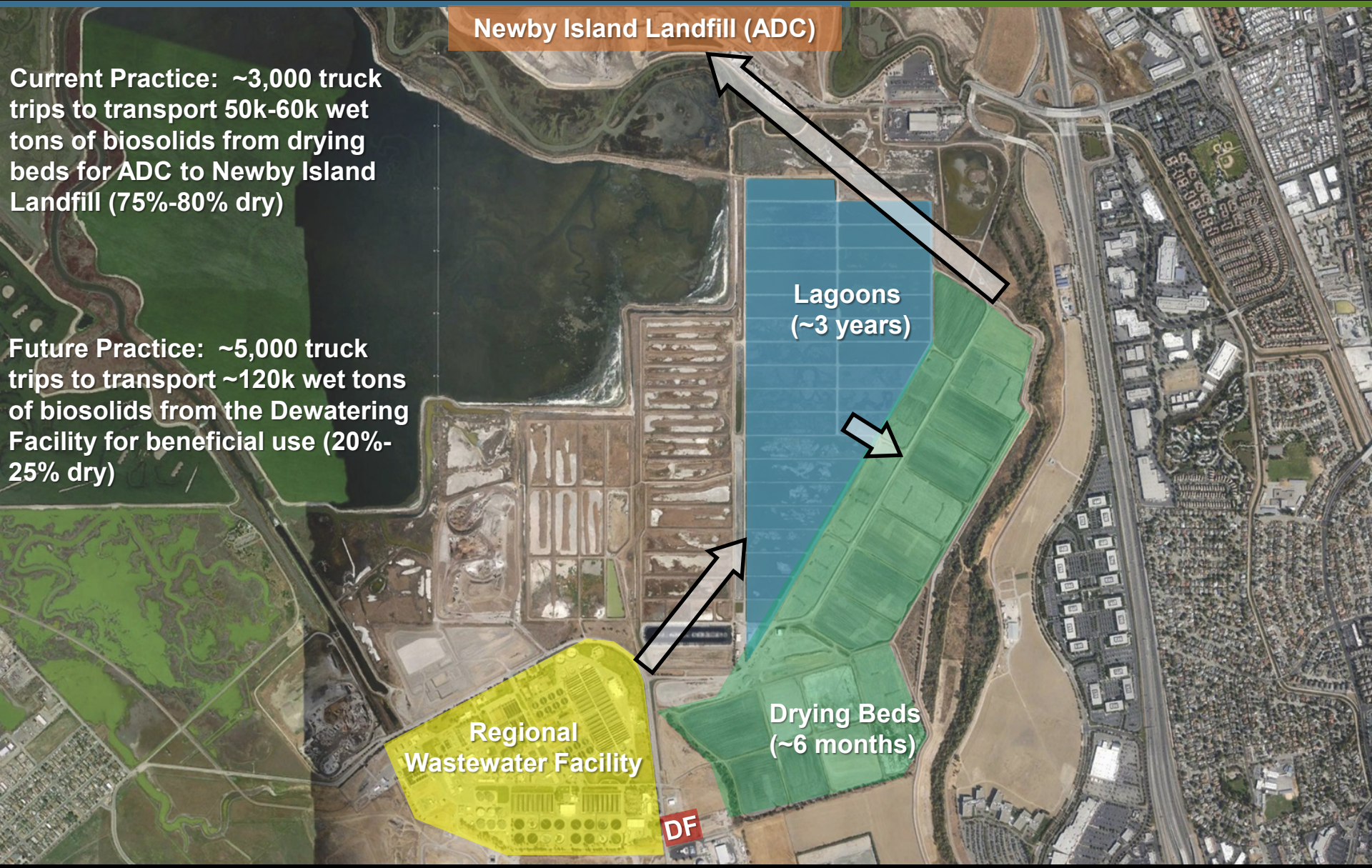
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June 8, 2021



**San José-
Santa Clara
Regional
Wastewater
Facility**

Current and Future Biosolids Management



Plant Master Plan (PMP) Guiding Principles



THE PLANT MASTER PLAN
NOVEMBER 2013

- *Operational:* Result in a reliable, flexible plant that can respond to changing conditions
- *Economical:* Maximize economic benefits for customers through cost-effective options
- *Environmental:* Improve habitat and minimize impacts to the local and global environment
- *Social:* Maximize community benefits through improved aesthetics and recreational uses

What has occurred since the PMP?

2015

Approval of Biosolids Transition Strategy

- Proceed with temperature-phased anaerobic digestion (TPAD) process; mechanical dewatering facility; retirement of lagoons and drying beds; postponement of on-site thermal and greenhouse drying facilities; and procurement of various off-site disposition service contracts

Approval of Odor Control Implementation Plan

- Completion of Phase 1 and decommissioning of lagoons and drying beds needed to achieve RWF's odor goal and fence line
- Phase 1 includes: Digester and Thickener Facilities Upgrade, New Headworks, Digested Sludge Dewatering Facility, and East Primary Clarifiers Rehabilitation

2019

Completion of Biosolids Disposition Market Assessment

- Limited capacity around San Francisco Bay Area
- No single service provider has sufficient capacity to manage all the RWF's dewatered biosolids
- Increasing prices to beneficially use biosolids

2020

Finalization of SB 1383 Regulations

- Goal: Reduce short-lived climate pollutants, like methane, from landfilling of organic waste
- Organic waste definition includes biosolids
- Effective on January 1, 2022

Biosolids Transition Drivers

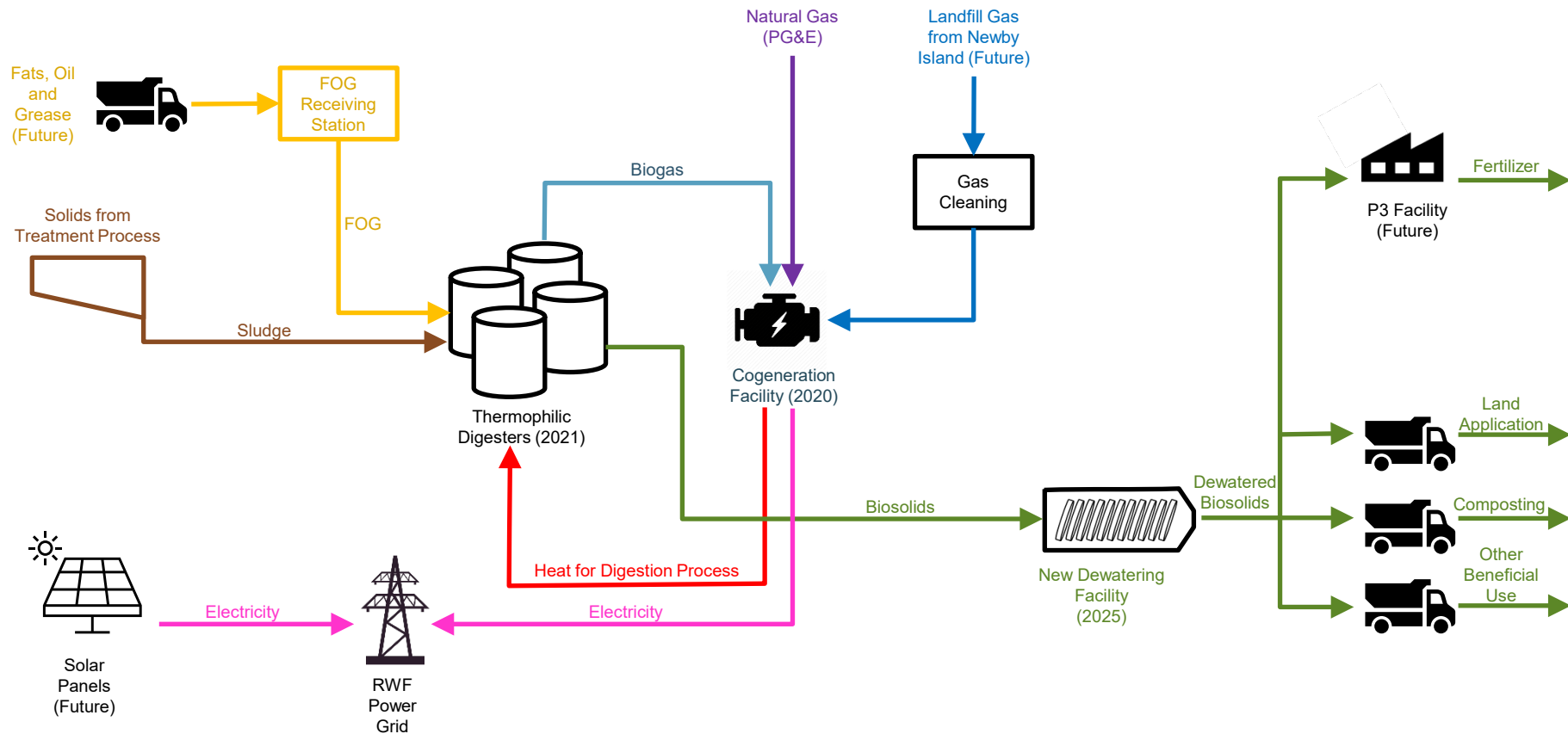
- Sustainability—Resource Recovery and Emissions
- Reduce Odors in the Community
- Provide Flexibility and Manage Risk
 - Multiple Options
 - Ability to respond to regulatory changes and market preferences
- Land Use

Proposed Strategy



NOTE: All dates and percentages are estimates and are subject to change.

Creating Resources from Wastewater



Recommendation

Approve the dewatered biosolids management strategy to be implemented in stages in the next five to ten years, which includes off-site disposition service contracts, an on-site fertilizer partnership facility, and land application on local natural and working lands.