



VSD

VALLEY SANITARY DISTRICT

BIOSOLIDS CONVERSION PROJECT

Valley Sanitary District (VSD) is planning for a Biosolids Conversion Project. This project transforms sewage sludge into a beneficial resource alternative to agriculture fertilizer. Biosolids are a byproduct of domestic wastewater treatment. When wastewater is treated, it undergoes a separation process, separating the liquids from the solids. These solids are then subjected to physical and chemical treatment, resulting in a semisolid, nutrient-rich substance known as biosolids. The biosolids can then be used as eco-friendly fertilizers and soil amendments, reducing the need for chemical fertilizers and minimizing groundwater pollution risks.

By harnessing the benefits of biosolids, the project not only contributes to reducing greenhouse gas emissions but also ensures predictable long-term wastewater treatment costs. It is strategically aligned with future upgrades to accommodate changes in plant flows which enhances operational flexibility. Additionally, it offers regional expansion opportunities for processing and reusing biosolids from neighboring wastewater treatment plants.

The Biosolids Conversion Project is estimated to cost \$1.5 million for planning and design with construction costs estimated at \$10 million. Contracts are expected to be executed in the first quarter of 2024.

COMMUNITY BENEFITS:

- 1 Environmental Health:** The project significantly reduces greenhouse gas emissions, contributing to a healthier environment for our community.
- 2 Economic Sustainability:** Offers long-term, predictable waste management costs, benefiting local rate payers.
- 3 Regional Collaboration:** Potential for processing biosolids from neighboring areas and reusing them locally, enhancing regional sustainability efforts.
- 4 Resource Efficiency:** Converts waste into beneficial materials, promoting sustainable soil health and reducing landfill usage.

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