INTRODUCTION – DESIGN BUILD TEAM

• 4CG CONSTRUCTION, INC
  • www.4cgconstruction.com/
  • General Construction Contractor

• 4CREEKS, INC.
  • www.4-creeks.com/
  • Licensed Civil Engineers, Land Surveyors, Planners
Comprehensive Permitting Process

PLANNING PERMITS (ENVIRONMENTAL REVIEW)
• Lead Agency County Planning / Zoning Permits / CEQA analysis

SUPPLEMENTAL PERMITS (AFTER PLANNING PERMITS)
• County Building Permits
• San Joaquin Valley Air Pollution Control District (SJVAPCD) Authority to Construct
• Regional Water Quality Control Board – Tier 1 Pond Design Permits / Waste Management Plan Updates

ENCROACHMENT PERMITS (Gathering Line, Upgrader)
• County Right of Way Encroachment Permits
• Department of Fish and Wildlife (DFW) 1602 Lake and Streambed Alteration Permits
• Army Corp of Engineers 404 Permits
• Caltrans Highway Encroachment Permits
• Railroad Crossing Permits
DIGESTER DESIGN:

1. Understand Baseline Operations
   • Varies on Type of Dairy
   • Typical Wastewater Operations

2. Improvements to Wastewater Management
   • Sand Lane, Trash Separation
   • Separation of Fibers from waste stream
Anaerobic Digester Design
Anaerobic Digester Construction

- Typ. Sump Construction
- HDPE Liner
- Anchor Trench
- Sludge Pipe
- Cover Installation
- Mixer Access Port
- Baffle Wall
- Perforated Pipe for Biogas Collection
Anaerobic Digester Construction
Anaerobic Digester Construction