Composting Facilities

Current Water Management Practices
TCCBI

- Tulare County Compost and Biomass Inc
- 35 Acre Greenwaste Composting
- Permitted in 1993
- Manager since 1996
Water Quality Impact Mitigation

- Drainage
- Grading
- Compaction
- Runoff Management
- Facility Maintenance
- Rainfall
TCCBI Facility
Proper Drainage – Grade Map
Proper Grading

![Proper Grading Image](image)
Paddle-Wheel Earth Mover
Laser Leveler
Proper Compaction
Runoff Management
Facility Maintenance

- Frequency
- Consistency
- Quality
- Money well spent!!
Rainfall

- Limited Rainfall in Central California – in general
  - Be prepared for flood years
    - 25 Yr Ponding Basin Capacity
    - Drainage Control
## Tulare County Rainfall

### Annual Accumulated Rainfall

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<th>1999</th>
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<th>2002</th>
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Drainage Basin Calculations

DRAINAGE BASIN CALCULATIONS

Maximum Water Level

170'

14'

150'

CROSS SECTION OF DRAINAGE BASIN - LENGTH

150 + 170 = 320 / 2 = 160 linear feet wide
150 + 170 = 320 / 2 = 160 linear feet long
14 feet of overall depth to high water line
160 x 160 x 14 x 1728 = 619,315,200 cubic inches
619,315,200 cu. in. / 231 cu. in. / gallon = 2,681,018.18 gallons of water capacity

Maximum Water Level

170'

14'

150'

CROSS SECTION DRAINAGE BASIN - WIDTH
Real Issues, Real Challenges

- Knowledge
- Preparation
- Execution
Questions – Comments