



# Azland Landfill-Expediting Constructtion and Optimizing Capacity

#### **Presenter:**

Don Hullings, Area Vice President

## **Santorini Landfill**







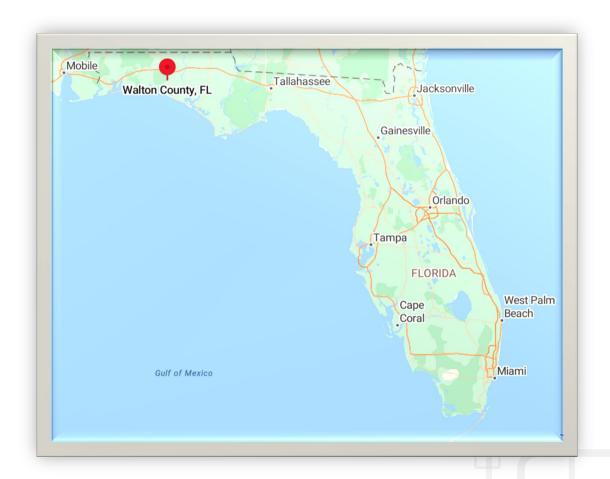
#### **Azland Landfill**



- Only Class III Landfill Walton County
- Nearly 500 tpd steadily increasing
- Cell 2 Construction
- Recent Expansion
- Leachate Reduction R&D

Acknowledgements

- Lee Perry Owner
- Jeff Palutis Custom Environmental Consulting



### **Expedite Construction - Subgrade**

TETRA TECH

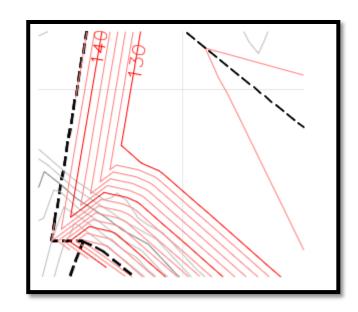
- Unworkable Subgrade
- Cell 2 was designed 20 feet lower than
  Cell 1 this was an overreach
- No time to dewater

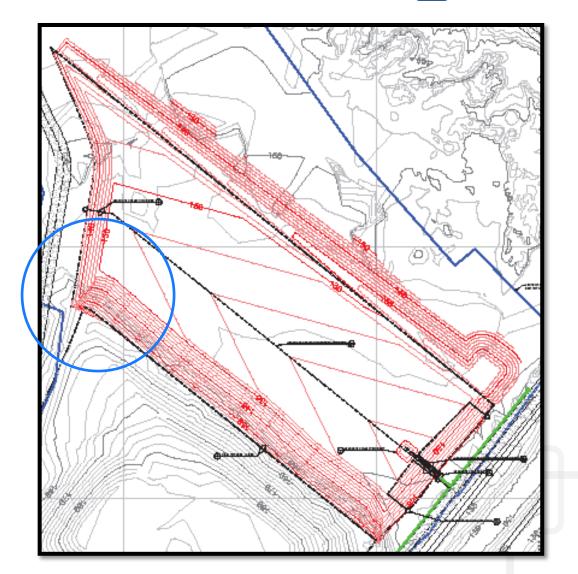


#### **Expedite Construction – Kinky Grading Plan**



- Not kinky in a good way
- Difference between CADD model and actual constructability
- Need to apply some AI .... Or maybe some I

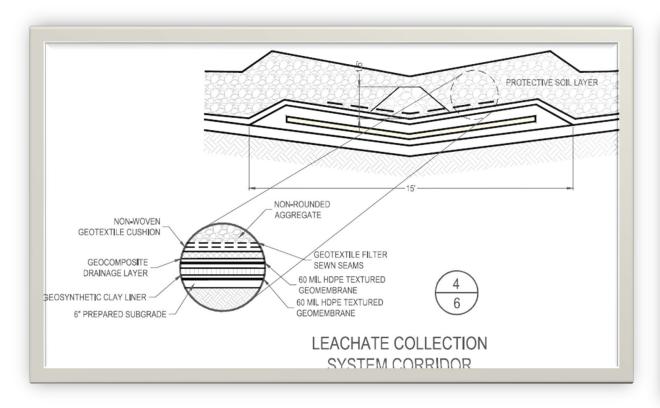


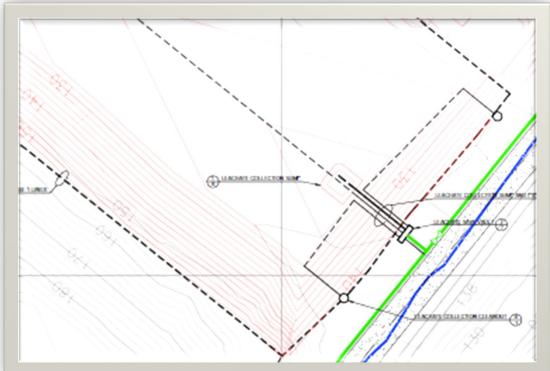


#### **Expedite Construction – Unnecessary Items**



- GCL encapsulation
- Toe drainage





#### **Expediate Construction – Other tweaks**



- Stormwater/leachate containment berm
- Simplify corners that add little capacity



#### **Expedite Construction – Involve Others**



 Got Contractor (Comanco) on board even as design was evolving



- Included FDEP in "field adjustments"
  - (raising base grade easier than lowering; permit versus draft construction plans)



### **Expedite Construction - Timeframe**



Revising plans

• May 2022



End of September



October





#### **Closure/Post-closure Maintenance Costs**



Bonding is a cost –only bond on constructed airspace.







October 20, 2022

• Took the opportunity to go for a horizontal and vertical expansion permit application license in **9 weeks**.



December 27,2022

New application submitted



February 2023

5-year permit would have expired



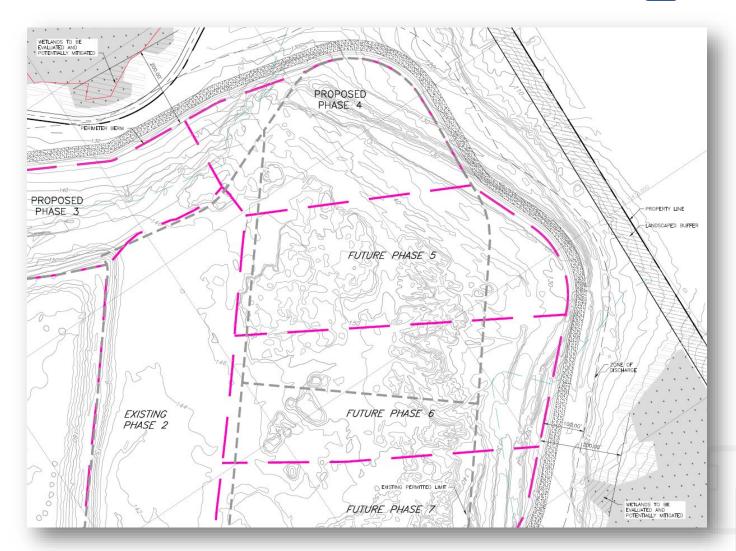


#### Capture improvements made in Cell 2

- GCL with no encapsulation
- No toe drain
- Decrease geocomposite transmissivity requirement
- Stay above groundwater



 Reassess wetland setback and stormwater improvements



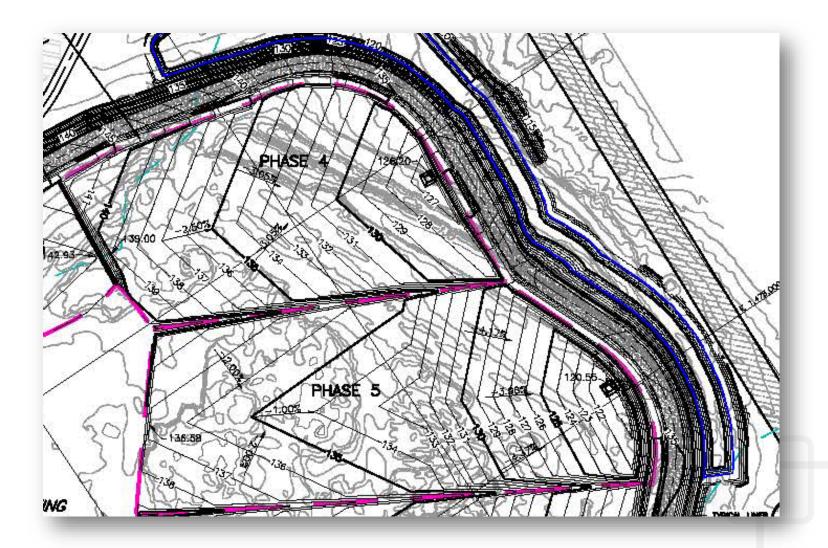


- Going Higher
- Did not understand this constraint
- No benching highest geometry allows
- Establish an "umbrella"





- Creative Grading
- Avoid the issues with Cell 2
- Variable slopes





#### Timeline



Worked with information we had



Get agreement on conceptual plan



Set up all calculations before design is done



Had just finished specifications and cost estimates



- Application submitted December 26 (a day early)
- Permit obtained May (after one RAI and review period)
- Footprint expanded by 8 acres and permitted capacity increased from
   2.45 M CY to 4.5 M CY.



May 4, 2023

#### FLORIDA DEPARTMENT OF Environmental Protection

Northwest District 160 W. Government Street, Suite 308 Pensacola. FL 32502 Ron DeSantis Governor

Jeanette Nuñez Lt. Governor

Shawn Hamilto Secreta

NOTICE OF PERMIT

Sent via email: lee@azlandcorp.com

In the Matter of an Application for Permit by: Azland I, LLC Post Office Box 550 Freeport, Florida 32439

Walton County WACS # 95354 Azland Class III Landfill

DEP File Nos: 0314473-013-SC

0314473-014-SO

Enclosed is Permit Number 0314473-013-SC and 0314473-014-SO to construct and operate a Class III Landfill, issued pursuant to Section 403.061(14) and 403.707, Florida Statutes.

NOTICE OF RIGHTS

Attention: Lee Perry, Authorized Agent

Judicial Review

Upon issuance of this final permit, any party to this order has the right to seek judicial review of it under Section 120.68, F.S. by the filing of a notice of appeal under Florida Rules of Appellate Procedure 9.110 and 9.190 with the Clerk of the Department of Environmental Protection in the Office of General Counsel (Mail Station #35, 3900 Commonwealth Boulevard, Tallahassee, Florida 32399-3000) and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate district court of appeal. The notice must be filed within 30 days after this order is filed with the Clerk of the Department.

Executed in Pensacola, Florida.

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

Elizabeth Millim OM

Elizabeth Mullins Orr District Director

Enclosure: Permit Nos. 0314473-013-SC; 0314473-014-SO

#### **Summary**



- Expedite Construction
  - Optimize capacity
  - Entertain new ideas



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