



Orlunda Downs Water  
Catchment 2016





# Site Planning





The First Dig









Rock !













**What you can find in a hole**





**Bonus Road Rubble**



















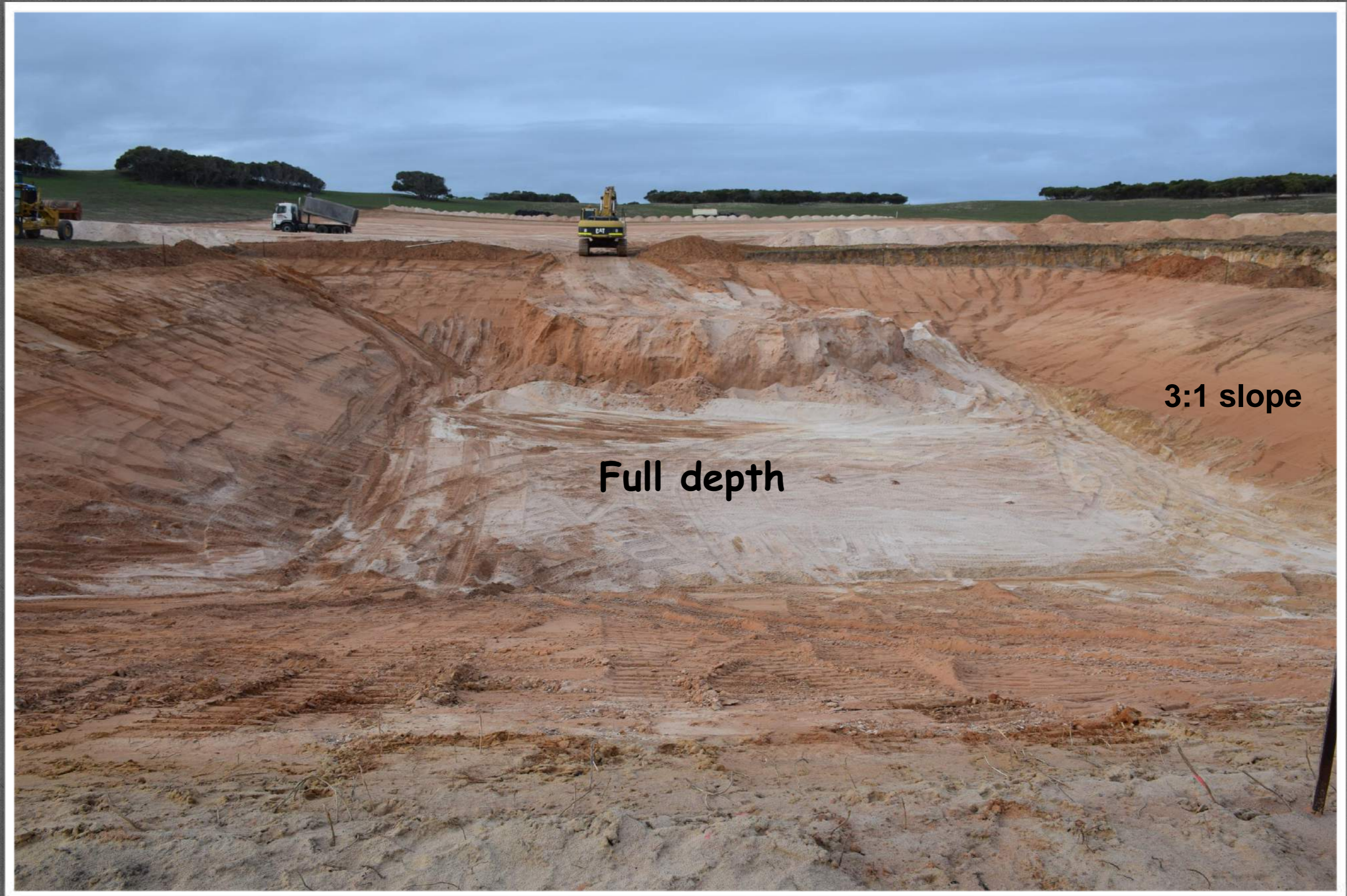


Owner input









**3:1 slope**

**Full depth**



**Batter levelling**









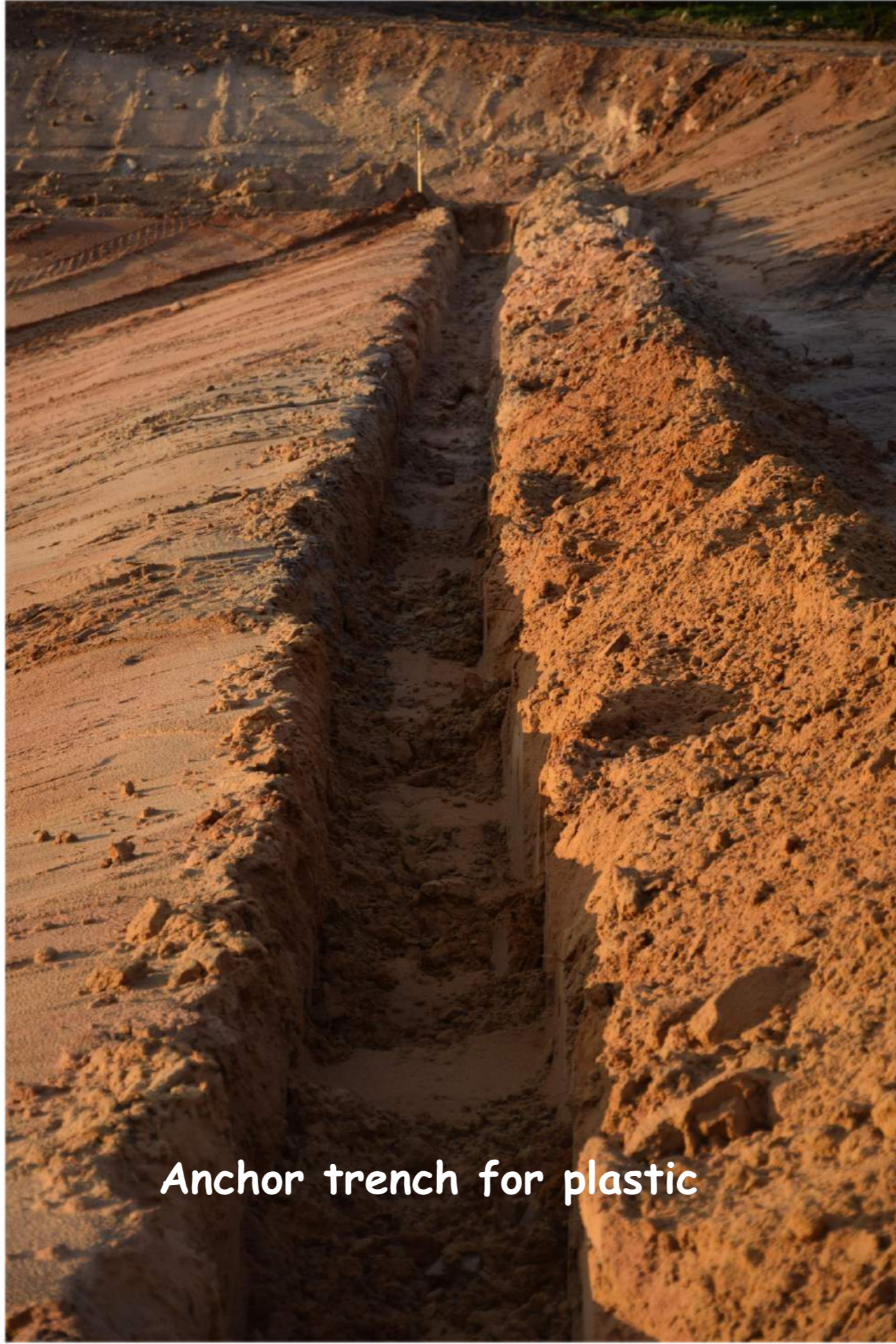






**Ready for Plastic**





Anchor trench for plastic





































Site Manager















First catchment sheet



















Inlet sock















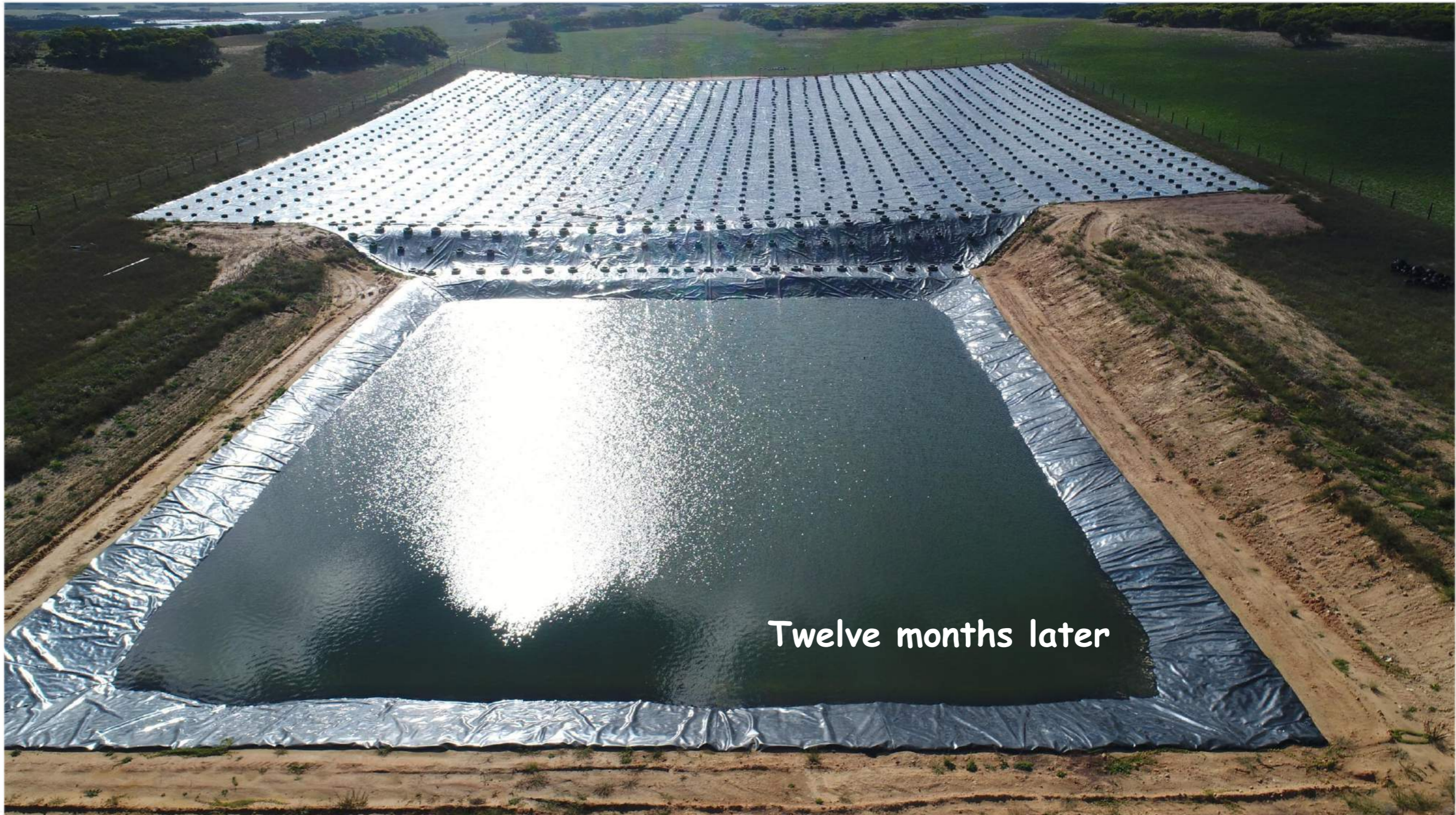


**It works !!**









Twelve months later

















**Twass a great day !!**



# Lessons Learned

- Maximum slope of catchment- 6% (600mm per 10m)
- Minimum slope of catchment- 0.05% (50mm per 10m)
- No rocks underneath plastic
- I recommend using 1.5mm plastic for longevity and to reduce the risk of wind damage
- Timing of plastic laying is very important, have them ready to immediately follow earthworks
- Add depth markers to inside of dam wall before it fills- its very cold to swim in once it fills



# More Lessons Learned

- Floor of dam needs to be well above existing water table
- Don't overfill anchor trenches
- Stabilise surrounding area when complete to avoid contamination of dam water
- Monitor algae
- 1mm of rain on 1sqm of plastic = 1L of water