

Environmental Compliance on VDOT Projects



A. Morton Thomas and Associates, Inc.

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So Larry, who are you?

- Experience in surveying, materials testing, inspection and roadway design
- Environmental Compliance since 1997
- CCM
- CPESC and CPSWQ
- VDOT ESCCC Instructor for 13 years
- Master Gardener and Nutrient Management Planner
- NG



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Environmental Compliance

- What is environmental Compliance?
- 60% in 1998
- Training and certification in 1999
- Over 90% in 2000
- ESCCC in 2003 – Over 98%
- WHY?



Projects

- VDOT inspections
- DEQ inspections
- New VPDES permit requirements
- More BMP's, Covered Receptacles



Road and Bridge Specification

303.03(b) Key Points:

- 7 days
- 14 days
- 100 feet
- Initiation



Why is soil stabilization so critical?

Water Quality:

- Reservoirs
- Recreation
- Irrigation
- Aquatic life



Water Quality Survey Results

No fish were
harmed but
additional
surveying was
required!

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Additional Water Quality Surveying

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Recommendations

- Increase seed quantities
- Add erosion controls to reduce sediment
- Add sediment controls but **ALWAYS** meet plan minimum.
- Never enough for the first time, but always for the second time



**We are
filtering,
dude!**

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**Now I have
seen
everything!!!**



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Steps To Environmental Compliance

1. If you don't have erosion, you don't have sediment.
2. Make water go where you want it to go.
3. Protect yourself. Read the permits, follow the permits and the approved plans
4. Good Housekeeping.
5. If it's not documented, it didn't happen.



Super-Secret Ways To Stay In Compliance

1. Photo of each area prior to any land disturbance
2. In-person review of WQ sites BEFORE LDA's
3. Be thorough in inspections; Item 26
4. Keep stabilization materials on hand
5. Be innovative, try non-standard items



Bonus Super-Secret Ways To Stay In Compliance

1. Redundancy can be a good thing!
2. Do not corner something you know is meaner than you!!!



Compressed Straw

- Equal to 2.5 – 3 bales
- Covered in plastic
- Costs less than 3 bales

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Non-STD
MS-6

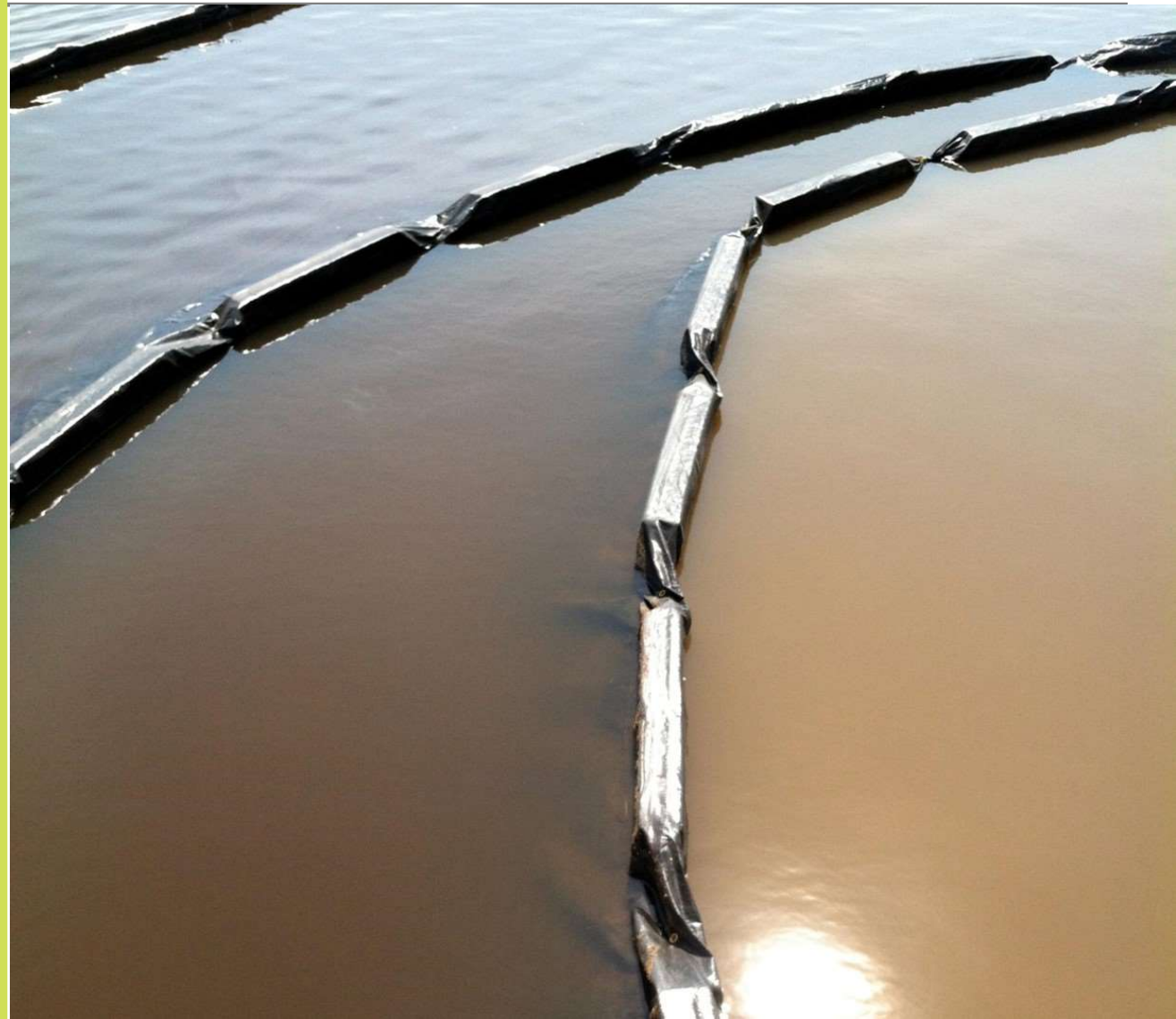




Control plus one plus one

MS-12

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Non-Standard, but it works.

Recycling can be cool!

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After two rounds of seeding per plan

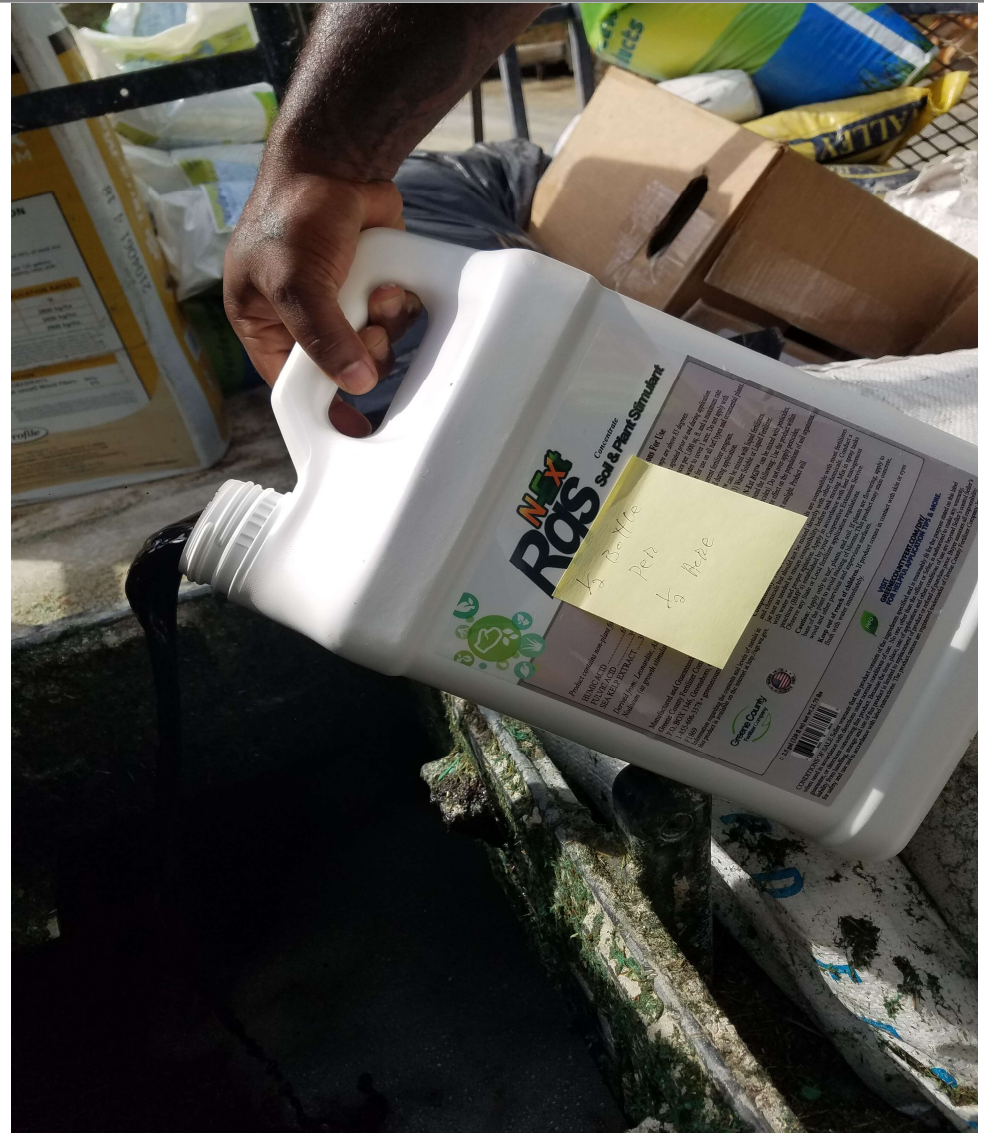




Soil test and new seed mix

Biostimulants

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After 6 months

- Terminated VPDES permit
- Under \$200 additional per acre





Additional Water Quality Surveying

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I'm the ugly guy on the right with the prettiest fish!

- It's all in the hat, fellas

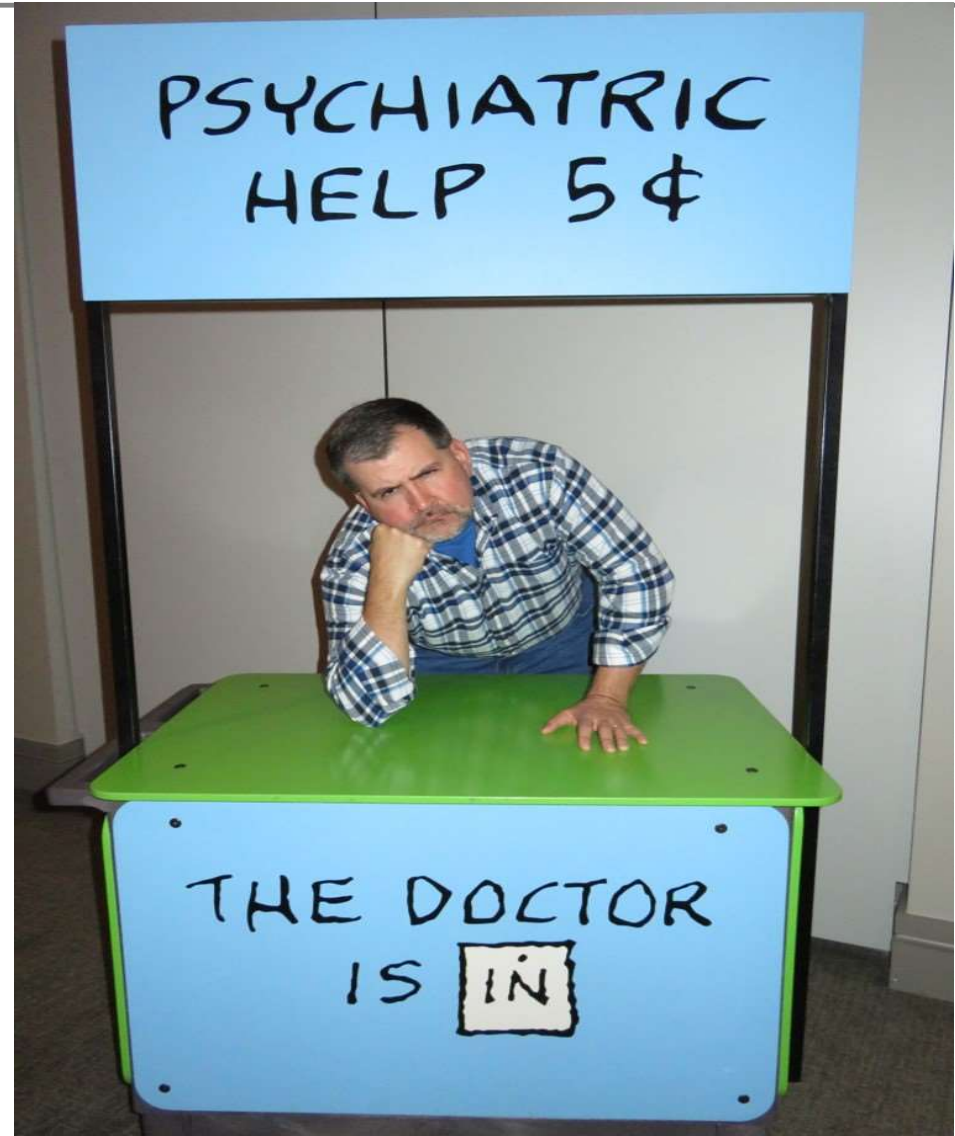
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Questions

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Think about this

- Name the five wealthiest people in the world.
- Name the last five Heisman trophy winners.
- Name the last five World Series winners.



Now, think about this

- Name five friends who have helped you through a difficult time.
- Name five people who have taught you something worthwhile.
- Name five people you enjoy spending time with.