

Natular XRG Formulation Field Trial on a Former Dredge Spoil Site in Portsmouth, VA - George Wojcik

- a) Site description
 - i) Phragmites site
 - ii) Old dredge spoil site - last pumped in the early 70s
 - iii) Mosquito species depend on rainfall and vegetation density
 - iv) Ditches all clogged
- b) Ground spot application
 - i) Mow paths to allow access
 - ii) Ability to control depends on water level
- c) Natular trials
 - i) Sampling protocol
 - (1) Simple transects
 - (2) Stop at 10 sites - GPS sites
 - (3) Dip 5 times for larvae
 - (a) Find larvae in any of the 5 dips - positives
 - (b) No larvae in any of the 5 dips - negative
 - (4) Sampled 2 times after treatment
 - (5) Ended up making 3 transects since the phrag grows so rapidly
 - ii) Treatment protocol - aerial application of Natular XR
 - iii) Post-treatment
 - (1) 24 hour
 - (a) Dead larvae found
 - (b) Non-targets present
 - (c) Untreated control (UTC) was all positive
 - (2) 3 days
 - (a) No larvae in treated site
 - (b) UTC sites all positive
 - (c) Non-targets present
 - (3) 10 days - sites dry
 - (4) Rainstorm
 - (5) 17 days - same results as day 3 post-treatment
 - (6) 20 days - same results as day 3 post-treatment
 - (7) 24 days - sites dry
- d) Conclusions
 - i) Effective for multiple species
 - ii) Some residual out to 20 days even after a dry-down
 - iii) Did not see a non-target affect
 - iv) Some minor formulation issues - resolved by Clarke