



- A series of basins are being treated/monitored.
- This basin not being treated.







- Fluctuations occurring were dependent on BMPs functioning properly in homebuilding area
- Effervescent tablets in pipes entering basins.
 1.5" rain event.







Drainage area constantly disturbed

185 NTU



Code 0 10 m

> Drainage area more stabilized



Flocculant Treatment in Pipes







Homebuilder site





- 1- pre-pam application
- 2- post-pam application, post 0.60" rain event, in basin near skimmer head.
- 3- post-pam application, post 0.60" rain event, in basin at first baffle.



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Clean water in the basin

Drop Inlets

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A good option for granular pam





Effervescent Tablets in Flared End



Before storm, just after installation



After 0.6" rain event. Notice flocculation in pipe





• Plunge pool at out fall of flared end <u>entering</u> basin.

Stone is stained with flocculated soil.

<u>34 NTU</u>

Capture Treated Water and Collect Flocs





Turbidity Discharge from Site



25.3 NTU 8.88 NTU

Water samples taken from:

- 1- the flared end directly discharging the skimmer pipe
- 2- the silt fence outlet beyond the outfall of the skimmer outfall.

Multiple treatment zones





- Wattles
- Rock inlet protection
- Lined ditches
- Slope drain

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Effervescent Tablets

- August 2012- series of tests were performed with Effervescent Tablets and proprietary geotextile dewatering bag
- 3 storm events occurred in a row within a sack without cleaning.
- The silt sack was tested with and without the addition of the polyacrylamide.
- Turbidity and TSS were measured



Sediment laden water running over the Effervescent Tablets





When comparing the 2 treatments (inlet bag performance with and without PAM), turbidity reduction was significant.





13% 29% 33% 49% 38% 53% 49% Series1 Series2

Effervescent Tablet and Geotextile Dewatering Bag Preliminary Test

Series1 Series2



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Product information:

GeoScrub Bubbles (effervescent tablets) GeoScrub Anionic Series (10, 20, 23, 30)

All product information can be found at <u>www.ntuinc.com</u> Melanie McCaleb, CPESC NTU, Inc <u>melanie@ntuinc.com</u> 919-412-7537 www.ntuinc.com

Questions? Feel free to give me a call or shoot me an email.