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Dragados FLOC Demo 12.5 Pond November 20, 2015

Correct dosage of FLOC was done by calculating pond volume by $62L \times 31W \times 3D \times 7.3$ for each tier basin (x2) to get total gallons which was 84,184. FLOC dosage was then calculated at 1 lb. per 1,000 gallons (this is a typical dosage amount for sediment basins), which was 84 lbs., 1-50 lb. bags were dosed into the basin totally 100 lbs. (a little overdosed, due to no measuring device in the field).

A 2" hose was connected to a trash pump and the dirty basin water was used to apply the FLOC into the basin using a 2" spray nozzle to provide for a forceful, lofty spray pattern. The FLOC was applied directly into the recirculation water. Application time was 10:45 a.m.



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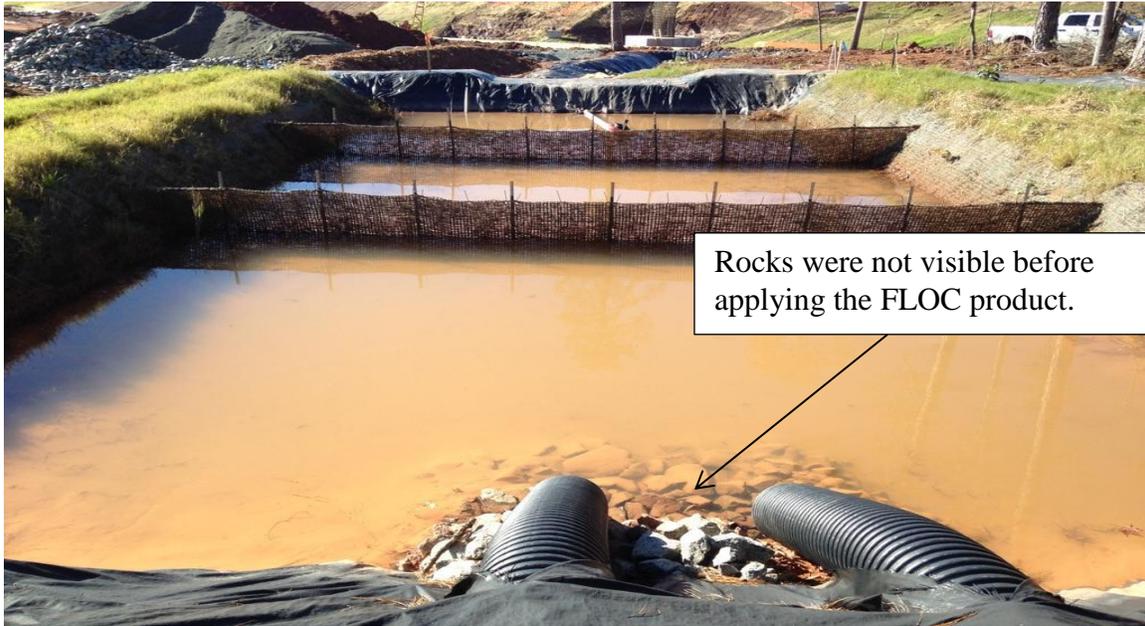


12.5 pond at 10:47 a.m.



12.5 pond at 11:00 a.m.

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12.5 basin at 10:13 a.m. the next day 11/21/15
Pond was completely clear to the bottom.



Sample taken from top at 12:13 p.m. 11/20/15 (day of FLOC application)

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12.5 top tier basin before treatment

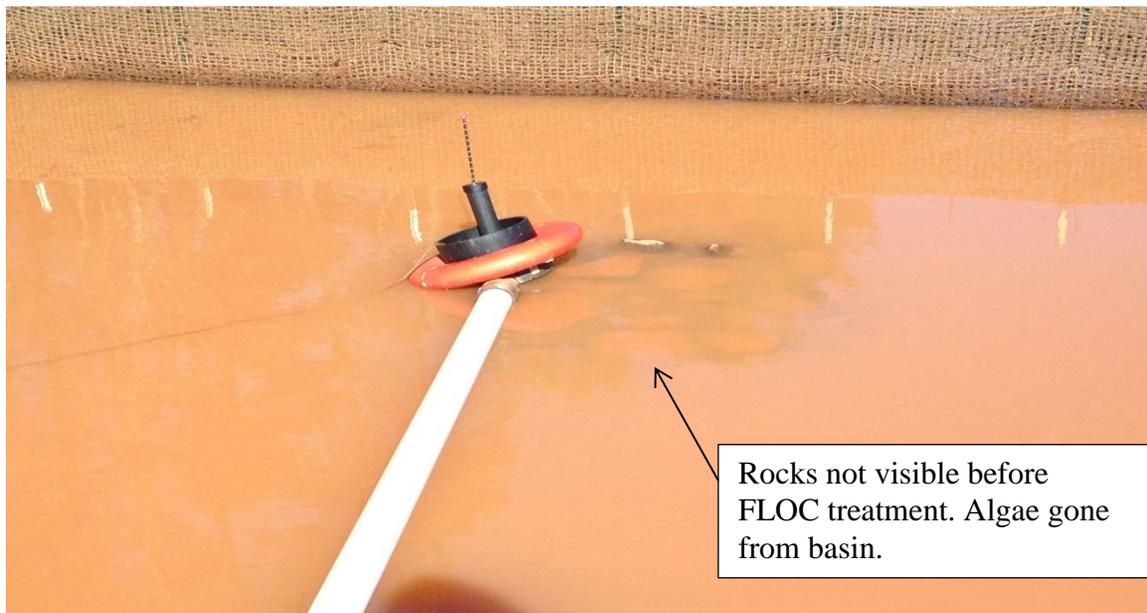


12.5 top tier basin after treatment 11/21/15 at 10:13 a.m.
Clear to the bottom

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12.5 bottom skimmer basin before FLOC treatment 10:30 a.m. 11/20/15



12.5 bottom skimmer basin after FLOC treatment 12:29 p.m.
1.75 hours after treatment

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Conclusion

A simple application of a “ pump and treat” approach was very successful, inexpensive and non-time consuming and produced drastic results resulting in true, quick flocculation.

Flocculation of the top tier basin was produced in 13 minutes creating clear water in the top of the basin water.

Deeper flocculation was produced in 1.75 hours after treatment and full flocculation in less than 24 hours (not exact timing of full flocculation in the basin as it was not checked until the following morning, full flocculation may have been produced sooner than 24 hours).

Agitation and correct dosing of the FLOC material proved to be very successful and timely to dewater basins as needed.

FLOC should be applied in any inlet, outlet and any ditch lines coming into the basin to keep the basins clean with any incoming stormwater/groundwater. This can be achieved by using granular FLOC on wattles and matting or by attaching FLOC Socs to the wattles and FLOC Bags in any inlet/outlet pipe.

