

VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY

3019 Peters Creek Rd.

SUBJECT: Jackson River TMDL Study

TO: Stakeholders

FROM: Jason Hill

DATE: June 8, 2007

**This is not your permit limit.**

**Best/Worse Case Scenario Assumptions**

- October the flow (7Q10) can go to 100 cfs
  - Need to maintain 38 ppb ortho-P
  - Lower Jackson STP design 2.6 MGD
  - Low Moor STP design 0.5 MGD
  - Covington STP design 2.0 MGD
  - MeadWestVaco design 33 MGD
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- At 300 ppb TP the Lower Jackson STP load of TP is ortho-P) or 3.6 ppb of the load
  - At 300 ppb TP the Low Moor STP load of TP is ortho-P) or .7 ppb of the load
  - At 300 ppb TP the Covington STP load of TP is ortho-P) or 2.8 ppb of the load
  - At 100 ppb MeadWestVaco wastewater load of TP is ortho-P) or 3.3 ppb of the load

Gives WLA – 32.7 ppb of the ortho-P load

Give all other WLA (general/stormwater) as 100 ppb

Gives LA – 1.4 ppb of the ortho-P load

MOS – 3.8 ppb of the ortho-P load (10.0 ppb)

Conversions:

1 MGD = 1.547 cfs