Appendix D
Engineered Pond Calculation Form

Owner's Representative (Engineer):

Name:_____

Mailing Address: _____

Street Address: _____

City/State:_____Zip:_____Phone/Fax: _____

Georgia Registration Number (PE):   _____

Total Site Characteristics (Attach site plan):

Total Site Area:_____acres

Total Site Impervious Area:_____acres (sum of the three below)

    Paved Area:_____acres   Roof Area:_____acres

    Other Impervious Area: _____acres

    Explain: _____

Stormwater Pond Information (attach a separate sheet for each pond):

Facility Parcel ID: _____

Description of Pond: _____

_____

_____

HYDROLOGIC CHARACTERISTICS (Attach drainage area map):

All values below shall pertain to the drainage area for the pond being analyzed only, not the whole site.

Method used (check one):   □ Rational Method   □ SCS Curve Number method

Pre-development:

Drainage Area to Pond:_____acres

Runoff Coefficient:_____(C Factor or SCS Curve Number)

Time of Concentration:_____min (5 minutes minimum)

Rainfall Intensity (Rational Method only):_____in/hr

Storm Duration (SCS method only):_____hours

    (use same duration for routing calculations shown below)

Q$_{PRE}$:_____cfs

Post-development:

Drainage Area Impervious Acreage:_____acres (sum of the three below)

    Paved Area:_____acres   Roof Area:_____acres

    Other Impervious Area: _____acres

    Explain: _____

Runoff Coefficient: _____(C Factor or SCS Curve Number)

Time of Concentration:_____min (5 minutes minimum)
Rainfall Intensity (Rational Method only):_____in/hr
Storm Length (Rational Method only):_____minutes

DETENTION/RETENTION FACILITY DATA (attach all calculations):
Facility Storage Volume at Overflow: _____ft^3
Inflow Hydrograph Peak Flow: _____cfs

Q_{POST}:
Routed Hydrograph Peak Flow:_____cfs
Flow through outlet:_____cfs
Flow over emergency spillway:_____cfs

Attach stage-discharge-storage information in tabular form, storage volume calculations, outlet description, overflow description, runoff calculations, and all other pertinent information necessary to perform a detailed review.

ENGINEER'S CERTIFICATION:

I hereby certify that the detention/retention pond(s) has (have) been constructed in substantial conformance with pertinent design requirements and that the detention/retention pond(s) is(are) in an acceptable state of maintenance and repair. I further certify that these calculations, technical details and information provided reflect accurately the condition of the detention/retention facility at the time of my inspection.

_____   _____
Signature and Seal of PE   Date