

SA Stream A803

NC DWQ Stream Identification Form Version 4.11

|                                                                                                       |                                                                              |                          |
|-------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|--------------------------|
| Date: 4/11/12                                                                                         | Project/Site: BR 670060                                                      | Latitude: 36.108787      |
| Evaluator: A. E. Ford / K. Hunt                                                                       | County: Orange Co.                                                           | Longitude: -79.022080    |
| Total Points:<br>Stream is at least intermittent if $\geq 19$ or perennial if $\geq 30^*$ <b>31.5</b> | Stream Determination (circle one)<br>Ephemeral Intermittent <u>Perennial</u> | Other<br>e.g. Quad Name: |

A. Geomorphology (Subtotal = 14)

|                                                                           | Absent   | Weak     | Moderate       | Strong   |
|---------------------------------------------------------------------------|----------|----------|----------------|----------|
| 1 <sup>a</sup> . Continuity of channel bed and bank                       | 0        | 1        | 2              | <u>3</u> |
| 2. Sinuosity of channel along thalweg                                     | 0        | <u>1</u> | 2              | 3        |
| 3. In-channel structure: ex. riffle-pool, step-pool, ripple-pool sequence | 0        | <u>1</u> | 2              | 3        |
| 4. Particle size of stream substrate                                      | 0        | <u>1</u> | 2              | 3        |
| 5. Active/relict floodplain                                               | 0        | 1        | <u>2</u>       | 3        |
| 6. Depositional bars or benches                                           | 0        | <u>1</u> | 2              | 3        |
| 7. Recent alluvial deposits                                               | 0        | <u>1</u> | 2              | 3        |
| 8. Headcuts                                                               | <u>0</u> | 1        | 2              | 3        |
| 9. Grade control                                                          | <u>0</u> | 0.5      | <u>1</u>       | 1.5      |
| 10. Natural valley                                                        | 0        | 0.5      | <u>1</u>       | 1.5      |
| 11. Second or greater order channel                                       | No = 0   |          | Yes = <u>3</u> |          |

<sup>a</sup> artificial ditches are not rated; see discussions in manual

B. Hydrology (Subtotal = 10)

|                                              |        |          |                |          |
|----------------------------------------------|--------|----------|----------------|----------|
| 12. Presence of Baseflow                     | 0      | 1        | 2              | <u>3</u> |
| 13. Iron oxidizing bacteria                  | 0      | <u>1</u> | 2              | 3        |
| 14. Leaf litter                              | 1.5    | <u>1</u> | 0.5            | 0        |
| 15. Sediment on plants or debris             | 0      | 0.5      | <u>1</u>       | 1.5      |
| 16. Organic debris lines or piles            | 0      | 0.5      | <u>1</u>       | 1.5      |
| 17. Soil-based evidence of high water table? | No = 0 |          | Yes = <u>3</u> |          |

C. Biology (Subtotal = 7.5)

|                                                       |                                  |            |          |     |
|-------------------------------------------------------|----------------------------------|------------|----------|-----|
| 18. Fibrous roots in streambed                        | 3                                | <u>2</u>   | 1        | 0   |
| 19. Rooted upland plants in streambed                 | 3                                | <u>2</u>   | 1        | 0   |
| 20. Macroinvertebrates (note diversity and abundance) | 0                                | <u>1</u>   | 2        | 3   |
| 21. Aquatic Mollusks                                  | 0                                | <u>1</u>   | 2        | 3   |
| 22. Fish                                              | 0                                | 0.5        | <u>1</u> | 1.5 |
| 23. Crayfish                                          | <u>0</u>                         | <u>0.5</u> | 1        | 1.5 |
| 24. Amphibians                                        | 0                                | <u>0.5</u> | 1        | 1.5 |
| 25. Algae                                             | 0                                | 0.5        | 1        | 1.5 |
| 26. Wetland plants in streambed                       | FACW = 0.75; OBL = 1.5 Other = 0 |            |          |     |

\*perennial streams may also be identified using other methods. See p. 35 of manual.

Notes:

Sketch: