SHARMAN'S BRANCH

REACH # 3

(POOL CROSS-SECTION)

4/24/2012

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STATION (ft+)

30 40 50 60

49

99

98

97

96

95

94

93

92

ELEVATION (ft)

2.4

BF-WS = 2.4

WSE

BANKFULL

d = 3.02'

A = 99 ft²

WID = 11.3
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<th>B</th>
<th>S</th>
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<td>11月7日 100.8</td>
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</table>

**Survey Data**

- **Surveyor:** Shumann's Branch
- **Date:** 11/20/12
- **Site:** Cross-Section

*Note: The table and diagram are part of the Survey Data section, documenting measurements and observations related to the survey.*
Sherman's Branch - Reach 3
Step Cross-Section
Station 69

4/24/12

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Width @ Bank = 33 ft
Dike @ Bank = 1.27 ft
A @ Bank = 41.85 ft$^2$
W/D = 20.02

W/D = 20.02

Horizontal Distance (ft)
Bank Full = 1.9 ft

Wide at left = 33 ft
Dike at left was not measured based on revised bank fill.
### Site: Sharmann's Branch

### Location: Reach 3 (Pebble Ch.) HUC:

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<th>Millimeters</th>
<th>RIFFLE:</th>
<th>POOL:</th>
<th>COMP:</th>
<th>Date:</th>
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<th>ITEM %</th>
<th>% CUM</th>
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**Bedrock**

**TOTAL**: 100

### Stream Type:

### Valley Type:
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Stream Type:  | Valley Type:  | TOTAL: 60 | 40 | 100 |

Site: Sharman's Branch  | Date: 4-24-2012  | RIFFLE (1) | Pool (2) | Composite (3) |
Party: Team 3  |  | Date: 4/24/12 | Date: 4/24/12 | Date: 4/24/12 |

DOT Count for

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LOCATION: Sharmon's Branch
PEBBLE COUNT DATA
REACH: Reach 3 (Pit'nunim Method) PARTY: Team 3
Stream Type: Valley Type: HUC:

% CUMULATIVE (Finer Than)

PARTICLE SIZE - Millimeters

Copyright © 2012 Midland Hydrology
<table>
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**Stream Type:**

**Valley Type:**

**TOTAL** = 100
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<tr>
<td>3. Other Methods (Key: Density, Wave Height, Curve C)</td>
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<td>4. Continuity Equation (b) \text{ Regional Curves} \quad n = \frac{Q}{A} \quad V = \frac{Q}{A} \quad R = \frac{Q}{A} \quad H = \frac{Q}{A} \quad W = \frac{Q}{A} \quad P = \frac{Q}{A} \quad A = \frac{Q}{A} \quad W = \frac{Q}{A} \quad A = \frac{Q}{A}</td>
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<td>5. Roughness Coefficient: (K = \text{Constant} )</td>
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<td>6. Manning's n (Stream Type: Fr. D-30)</td>
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<td>7. Roughness Coefficient: (K = \text{Constant} )</td>
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<td>8. Roughness Coefficient: (K = \text{Constant} )</td>
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<td>9. Froude Number</td>
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<td>10. Receiver</td>
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<td>11. Receiver</td>
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<td>12. Receiver</td>
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<td>13. Receiver</td>
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<td>14. Receiver</td>
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</tbody>
</table>

**Worksheet B-2: Computations of Velocity and Discharge using Various Methods**

First Field Day Instructions & Forms

River Morphology & Applications
### Figure B.2

**See Classification Key**

**Type Stream**

- Channel Sinuosity (h)
- Water Surface Slope (s)
- Channel Materials (Particle Size Index) (D₅₀)
- Entrenchment Ratio (b)
- Width of Flood-Plain Area (Wₚ)
- Water Depth at Mean Depth (Dₚ)
- Bankfull Width divided by Bankfull Mean Depth in Right section (Wₛ/Dₚ)
- Bankfull X-Section Area (Aₛ)
- Bankfull Depth (Dₛ)
- Width of the Stream Channel at Bankfull Stage Elevation in Right section (Wₛ)
- Drainage Area: 3.6 mi²
- Location: Rea Creek
- Basin: Powhatan
- Stream: 2643, 2644, 2645

#### Worksheet B.1: Field Form for Level II Stream Classification (First Field Day)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
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<tbody>
<tr>
<td>Valley Type:</td>
<td>Jurassic</td>
</tr>
<tr>
<td>Date:</td>
<td>7/14/19</td>
</tr>
<tr>
<td>Cross-Section Number (La/Long):</td>
<td>1</td>
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<tr>
<td>Temporary Guard:</td>
<td>Virginia Co. 60</td>
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<tr>
<td>Location:</td>
<td>Rea Creek</td>
</tr>
<tr>
<td>Drainage Area:</td>
<td>3.6 mi²</td>
</tr>
<tr>
<td>Stream:</td>
<td>2643, 2644, 2645</td>
</tr>
</tbody>
</table>

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*Copyrigh © 2012 Wildland Hydrology*
## Glide Dimensions

<table>
<thead>
<tr>
<th>Step</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Check motor area to glide area (ft²)</td>
</tr>
<tr>
<td>2</td>
<td>Check motor area to glide depth (ft)</td>
</tr>
<tr>
<td>3</td>
<td>Check motor area to glide width (W ft)</td>
</tr>
<tr>
<td>4</td>
<td>Check motor area to glide width (W² ft²)</td>
</tr>
<tr>
<td>5</td>
<td>Check motor area to glide width (W³ ft³)</td>
</tr>
</tbody>
</table>

## Run Dimensions

<table>
<thead>
<tr>
<th>Step</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Check motor area to run area (ft²)</td>
</tr>
<tr>
<td>2</td>
<td>Check motor area to run depth (ft)</td>
</tr>
<tr>
<td>3</td>
<td>Check motor area to run width (W ft)</td>
</tr>
<tr>
<td>4</td>
<td>Check motor area to run width (W² ft²)</td>
</tr>
<tr>
<td>5</td>
<td>Check motor area to run width (W³ ft³)</td>
</tr>
</tbody>
</table>

## Pool Dimensions

<table>
<thead>
<tr>
<th>Step</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Check motor area to pool area (ft²)</td>
</tr>
<tr>
<td>2</td>
<td>Check motor area to pool depth (ft)</td>
</tr>
<tr>
<td>3</td>
<td>Check motor area to pool width (W ft)</td>
</tr>
<tr>
<td>4</td>
<td>Check motor area to pool width (W² ft²)</td>
</tr>
<tr>
<td>5</td>
<td>Check motor area to pool width (W³ ft³)</td>
</tr>
</tbody>
</table>

## River Reach Dimensions Summary Data

<table>
<thead>
<tr>
<th>Observation Team</th>
<th>Elevation of Floodplain Area (ft)</th>
<th>Elevation of Floodplain Area (ft)</th>
<th>Elevation of Floodplain Area (ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Team 1</td>
<td>42′</td>
<td>42′</td>
<td>42′</td>
</tr>
<tr>
<td>Team 2</td>
<td>41′</td>
<td>41′</td>
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<tr>
<td>Team 3</td>
<td>40′</td>
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</table>

**Worksheet B-32, Morphological Relations, including dimensions ratios (first field day)**