Water Quality Project Framework for Wednesday October 7, 2015 Trip

Area 1: Broad Run Confluence

General Observations/Land-Use/Application

Site A: Upstream Broad Run

Description and Specific Observations

 Physical Data

 Biological Data

 Chemical Data

Site B: Downstream Broad Run Confluence

Description and Specific Observations

 Physical Data

 Biological Data

 Chemical Data

Site C: Upstream Broad Run (around bend)

Description and Specific Observations

 Physical Data

 Biological Data

 Chemical Data

Area 1: Broad Run Confluence Analysis

Water Quality Assessment

 Discuss patterns; Rationalize (Cite Specific References)

 Adjacent land-use/application impacts

Area 2: 842 Bridge “Drop/Riffle”

General Observations/Map Analysis

Site A: Upstream Drop/Riffle

Description and Specific Observations

 Physical Data

 Biological Data

 Chemical Data

Site B: Downstream Drop/Riffle

Description and Specific Observations

Physical Data

 Biological Data

 Chemical Data

Site C: Farther Downstream Drop/Riffle (“The Flats”)

Description and Specific Observations

 Physical Data

 Biological Data

 Chemical Data

Area 2: 842 Bridge Analysis

Water Quality Assessment

 Discuss patterns; Rationalize (Cite Specific References)

 Adjacent land-use/application impacts

Area 3: East-West Branch Brandywine Confluence (Shaw’s Bridge Park; Rte. 164)

General Observations/Map Analysis

Site A: Upstream along West branch above the Confluence (No biological data for this area)

Description and Specific Observations

 Physical Data

 Chemical Data

Site B: Downstream along the West Branch below the Confluence (No biological data for this area)

Description and Specific Observations

 Physical Data

 Chemical Data

Site C: Upstream along the East Branch (All 3 groups of biology tested at this site)

Description and Specific Observations

 Physical Data

 Biological Data

Chemical Data

Area 3: East-West Branch Brandywine Confluence Analysis

Water Quality Assessment

 Discuss patterns; Rationalize (Cite Specific References)

 Adjacent land-use/application impacts

Cumulative Analysis

 Summarize data from Areas 1 + 2+ 3

Water Quality Assessment

 Discuss patterns; Rationalize (Cite Specific References)

 Adjacent land-use/application impacts