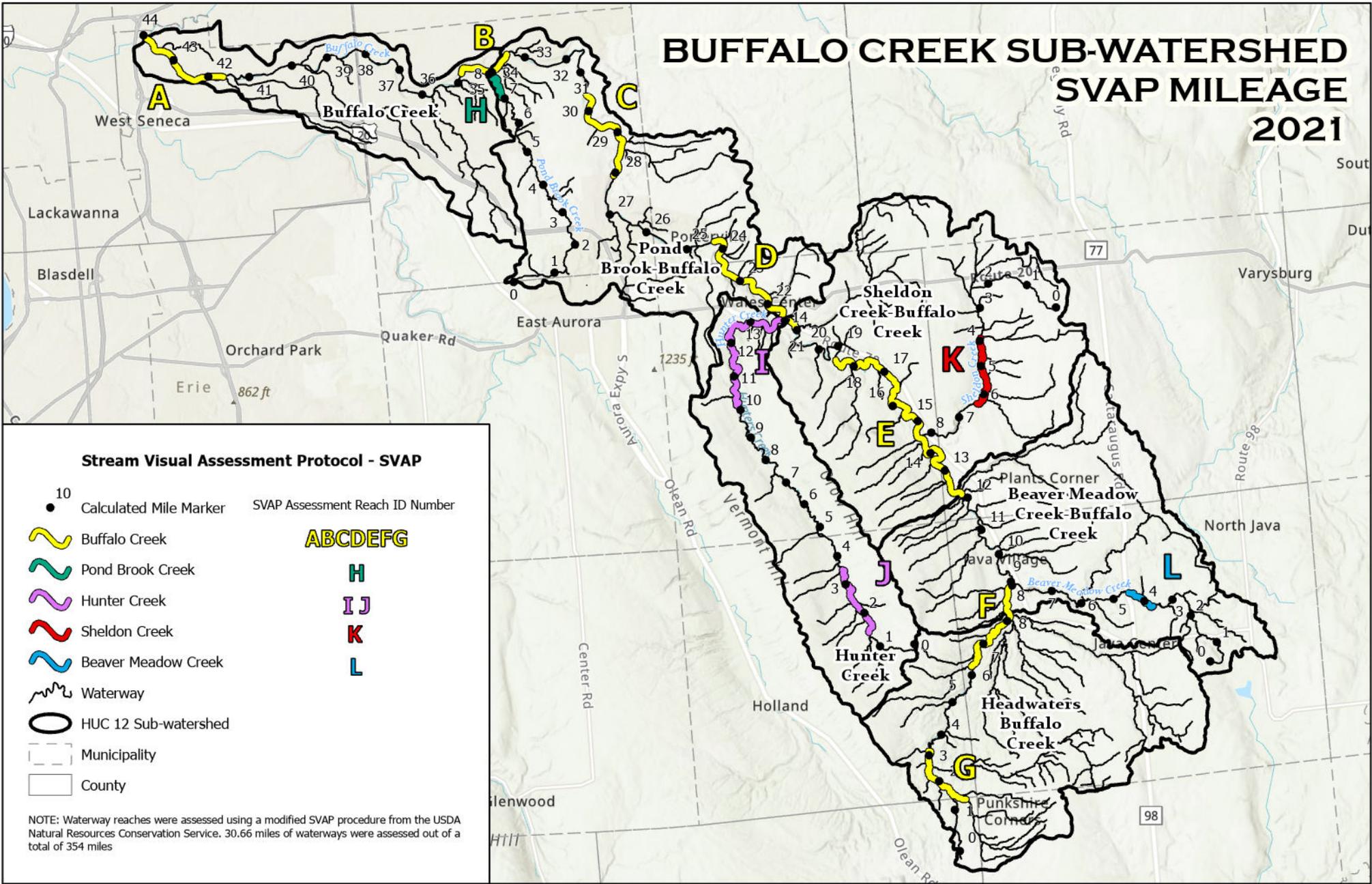


BUFFALO CREEK SUB-WATERSHED SVAP MILEAGE 2021



Department of State

This map was prepared with funding provided by the New York State Department of State under Title 11 of the Environmental Protection Fund.

Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community. Sources: Esri, USGS, NGA, NASA, CGIAR, N Robinson, NCEAS, NLS, OS, NMA, Geodatastyrelsen, Rijkswaterstaat, GSA, Geoland, FEMA, Intermap and the GIS user community. Esri, Airbus DS, N Robinson, NCEAS, NLS, OS, NMA, Geodata styrelsen, Rijkswaterstaat, GSA, Geoland, FEMA, Intermap and the GIS user community



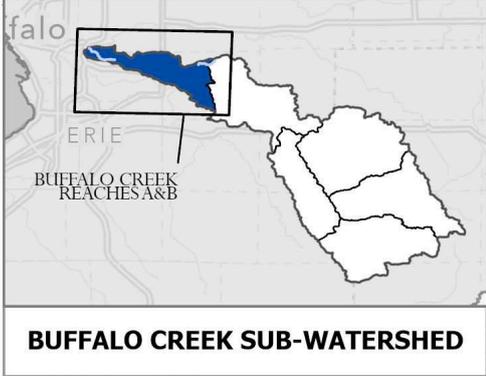
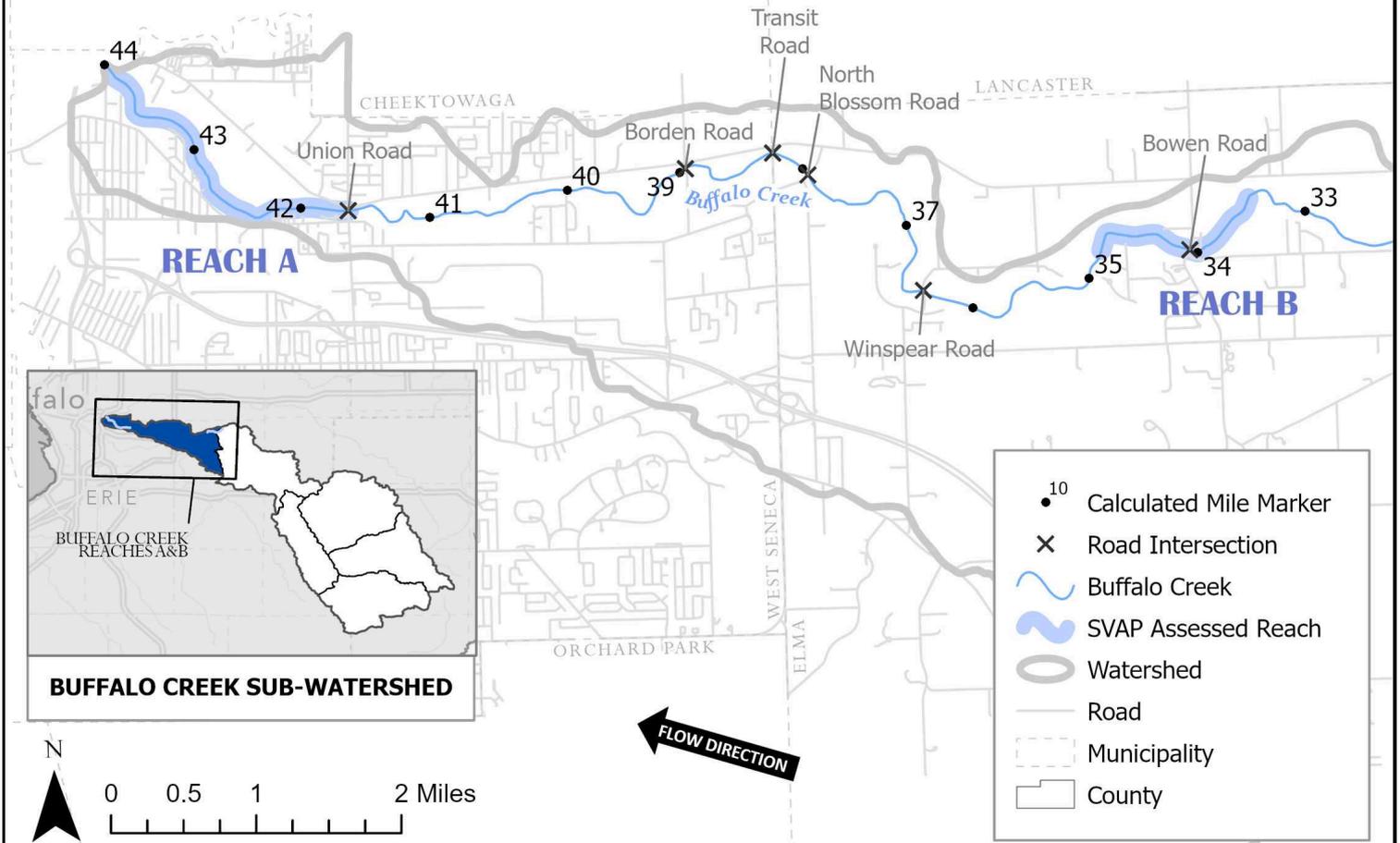
0 1.25 2.5 5 Miles



BUFFALO CREEK

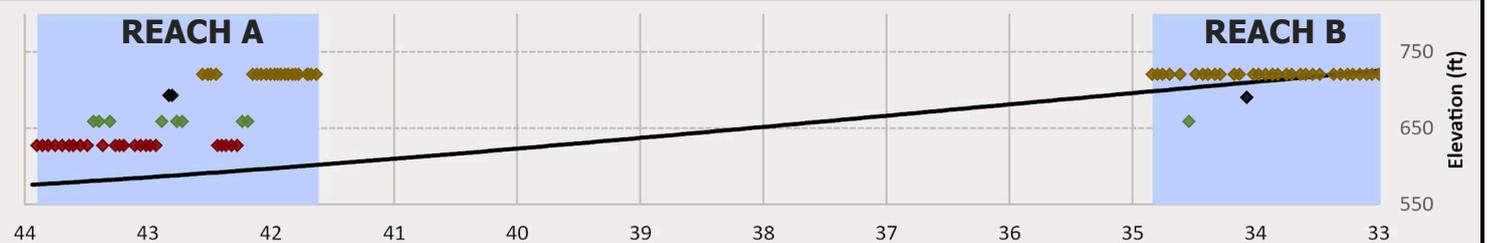
STREAM VISUAL ASSESSMENT PROTOCOL (SVAP) FOR REACH A & B

AVERAGE OVERALL SVAP RATING: **6.7**

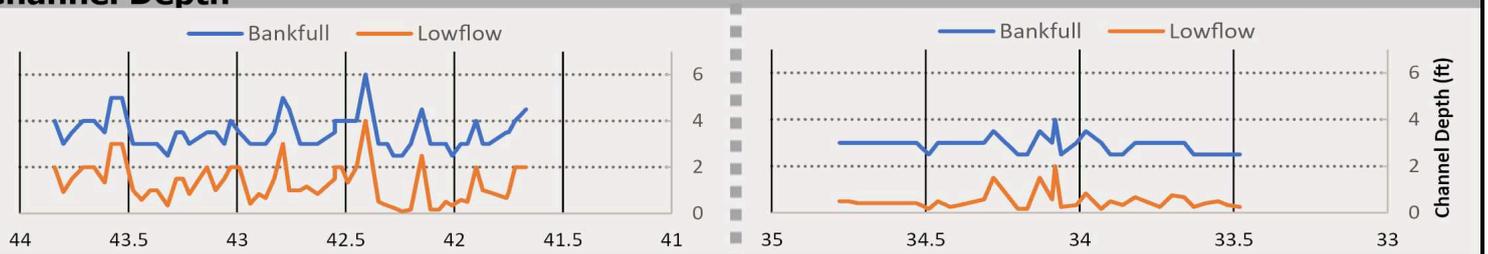


Elevation Profile

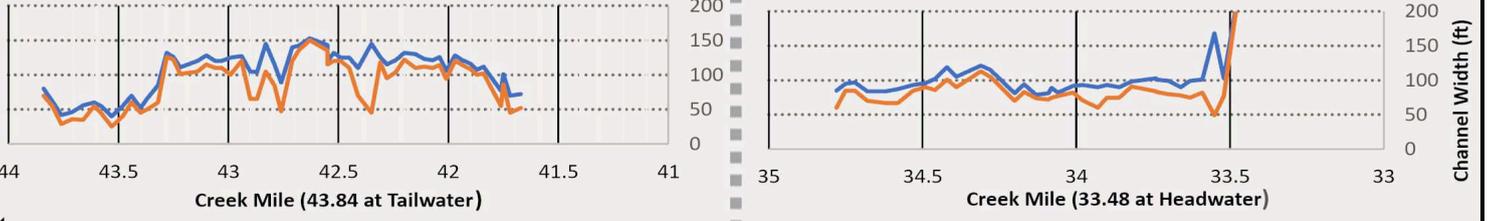
Substrate ◆ Bedrock/Concrete ◆ Boulder ◆ Cobble ◆ Gravel



Channel Depth



Channel Width



← FLOW DIRECTION Creek Mile: Reach A (43.89 at Tailwater, 41.67 at Headwater); Reach B (34.78 at Tailwater, 33.48 at Headwater) FLOW DIRECTION →

Classification Scheme for SVAP Parameters

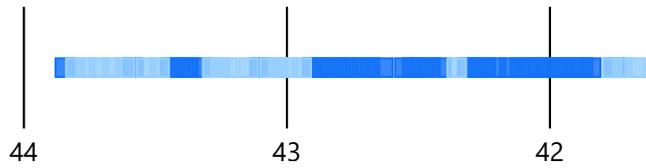
Color Classification				
SVAP Score (0 – 10)	0 – 2.5	2.6 – 5	5.1 – 7.5	7.6 – 10

REACH A

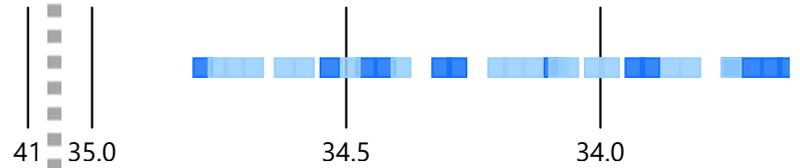
REACH B

Channel Conditions

Score ■ Excellent ■ Good

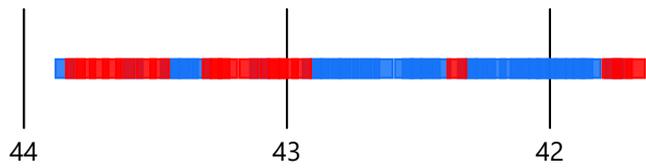


Score ■ Excellent ■ Good

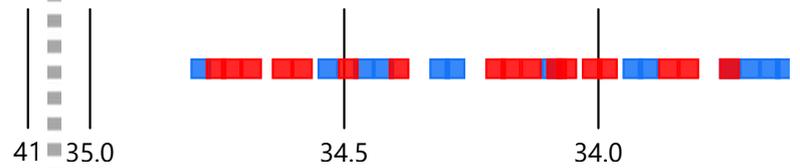


Stream Bank Hardening

■ NO ■ YES



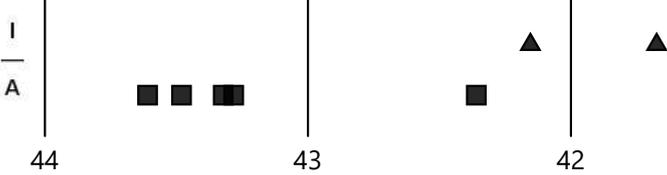
■ NO ■ YES



Aggradation/Incision

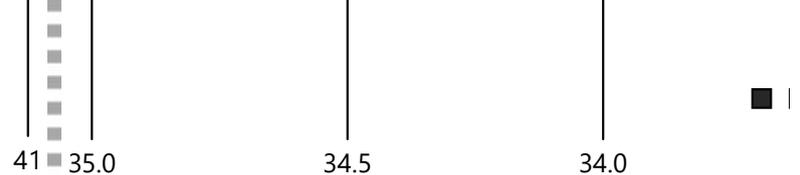
■ Aggradation

▲ Incision



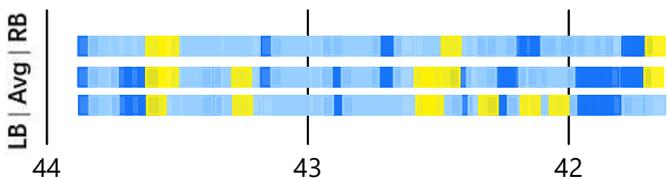
■ Aggradation

▲ Incision

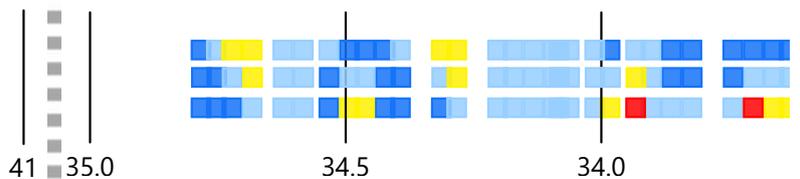


Bank Stability

Score ■ Excellent ■ Good ■ Mediocre

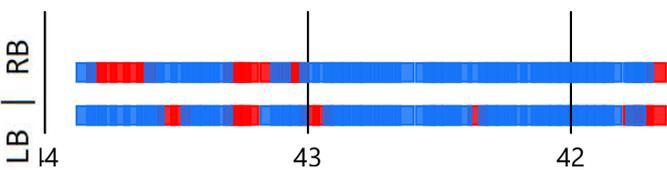


Score ■ Excellent ■ Good ■ Mediocre

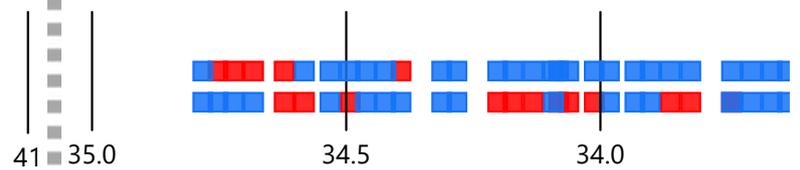


Bank Condition

■ Hardened Structure ■ Natural

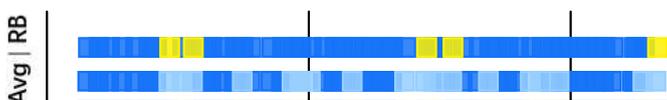


■ Hardened Structure ■ Natural



Riparian Zone

Score ■ Excellent ■ Good ■ Mediocre



Score ■ Excellent ■ Good ■ Mediocre

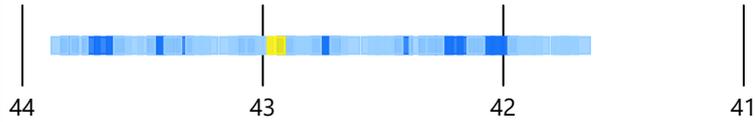


REACH A

REACH B

Water Appearance

Score Excellent Good Mediocre

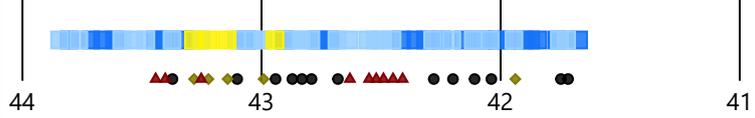


Score Excellent Good



Nutrient Enrichment

Amount Low Mild Moderate NE Notes Algal Growth Both Dense Aquatic Plant Beds



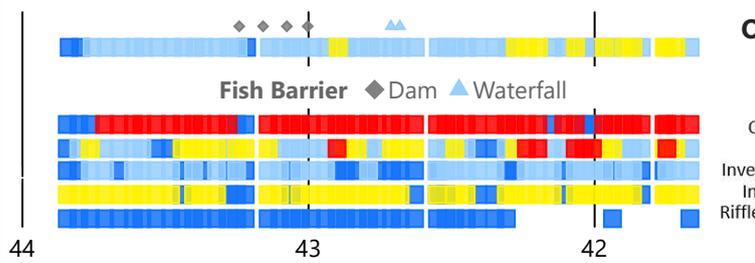
Amount Low Mild Moderate NE Notes Algal Growth Both Dense Aquatic Plant Beds



Fish Habitat

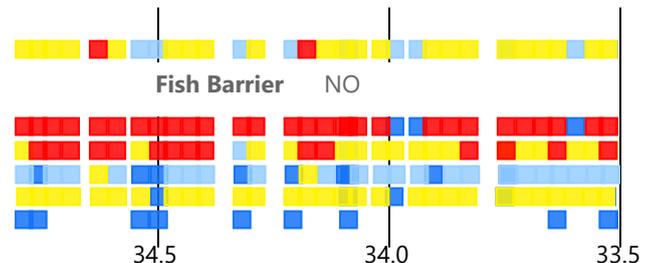
Score Excellent Good Mediocre Poor

Note: Overall Score of Fish Habitat was calculated by averaging scores for the five variables shown below.



OVERALL SCORE

Canopy Cover Pools Invertebrate Habitat Instream Cover Riffle Embeddedness



Manure Presence

Evidence of Animals zone None

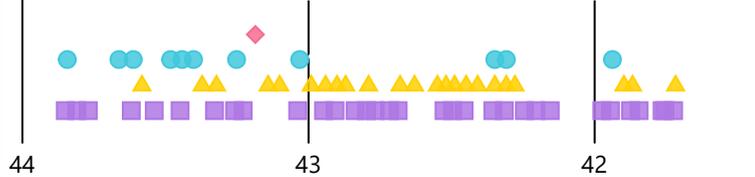


Evidence of Animals zone None

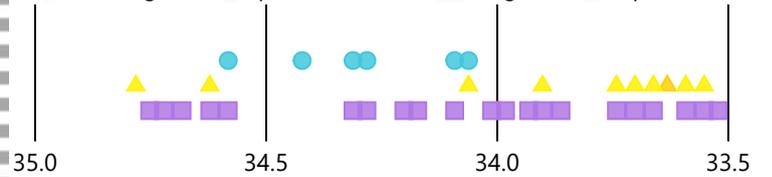


Invasive Species

Giant Hogweed Japanese Knotweed Phragmites Purple Loosestrife

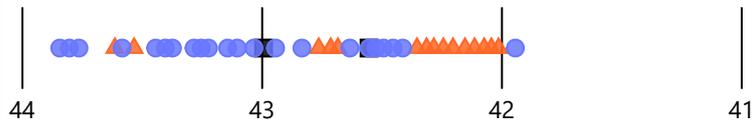


Giant Hogweed Japanese Knotweed Phragmites Purple Loosestrife



Aquatic Vegetation

Both Emergent Submerged



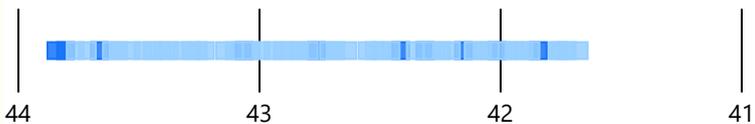
Emergent Submerged



OVERALL SVAP RATING

BUFFALO CREEK

Score Excellent Good



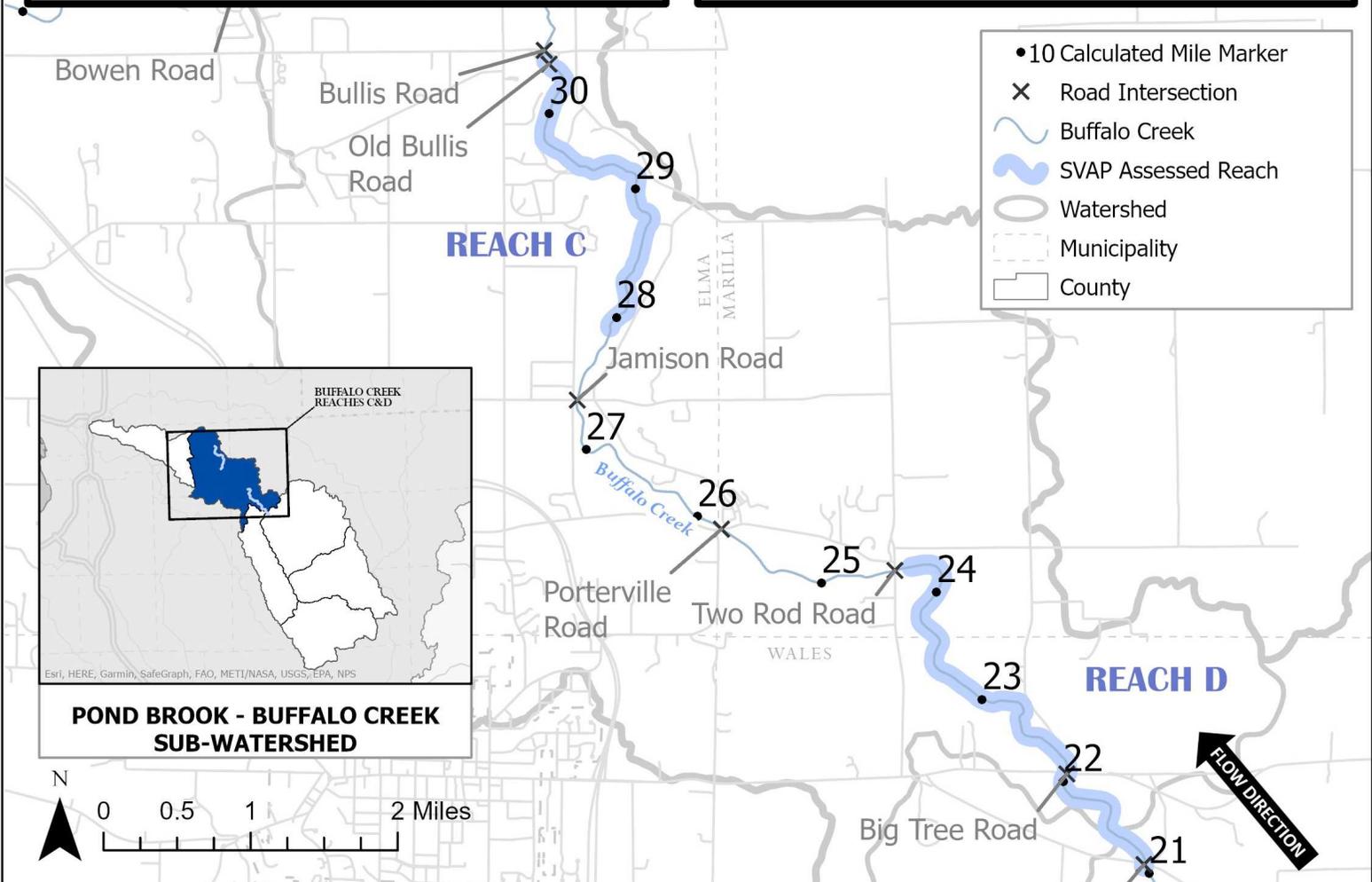
Score Excellent Good Mediocre



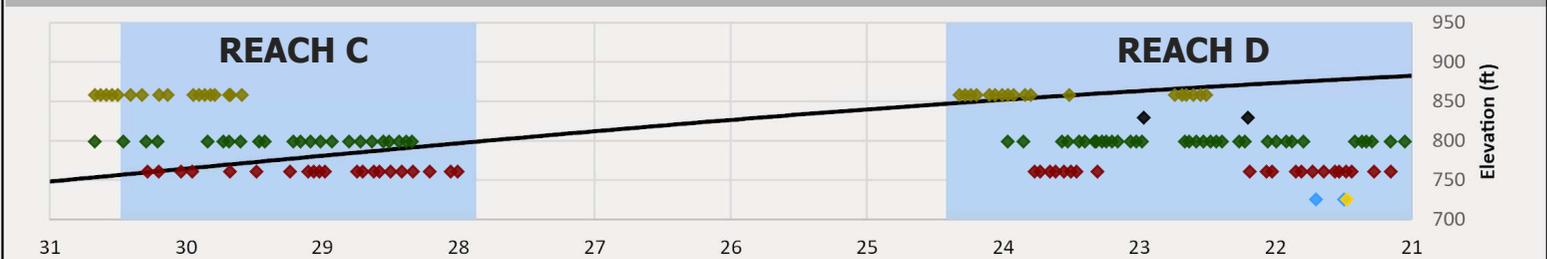
BUFFALO CREEK

STREAM VISUAL ASSESSMENT PROTOCOL (SVAP) FOR REACH C AND D

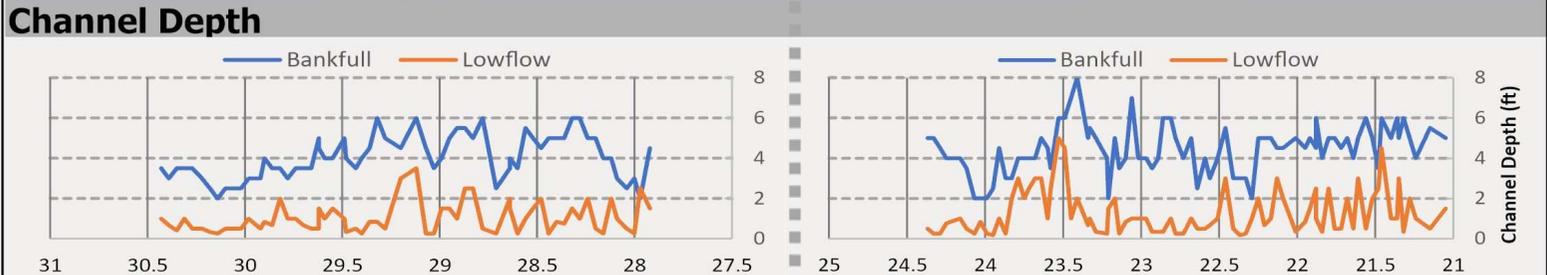
AVERAGE OVERALL SVAP RATING: **6.9**



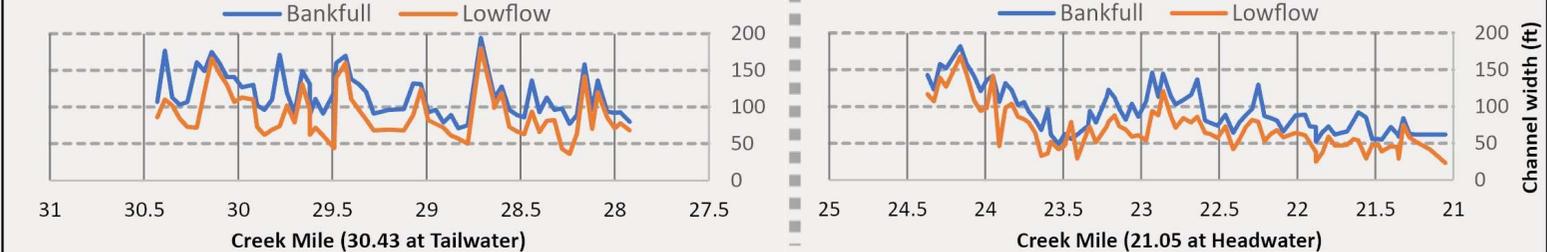
Elevation Profile



Channel Depth

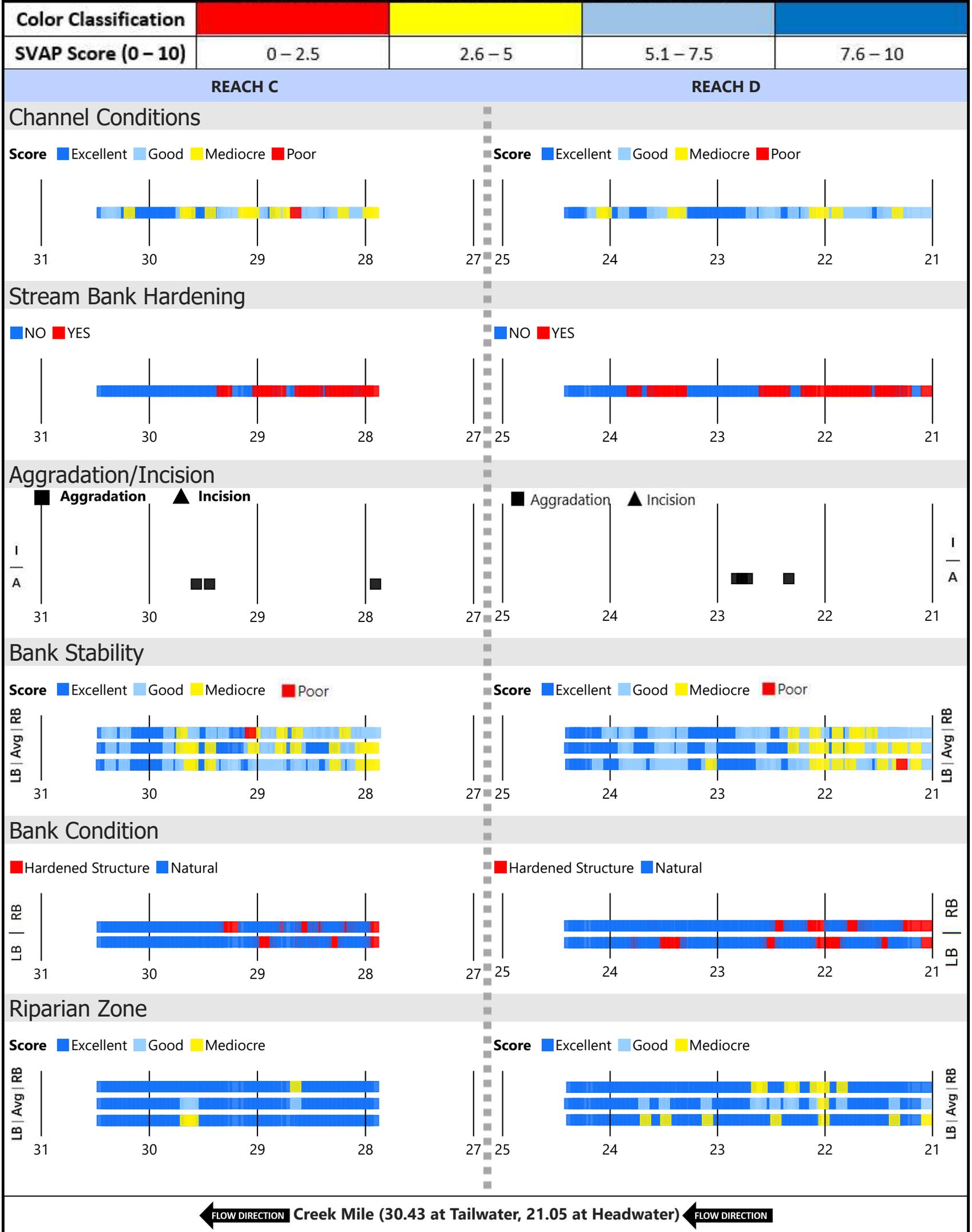


Channel Width



← FLOW DIRECTION Creek Mile (30.43 at Tailwater, 21.05 at Headwater) → FLOW DIRECTION

Classification Scheme for SVAP Parameters

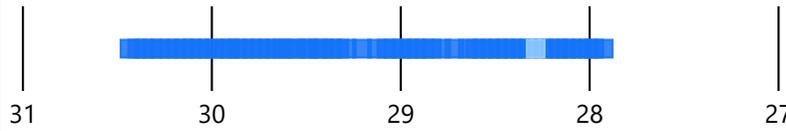


REACH C

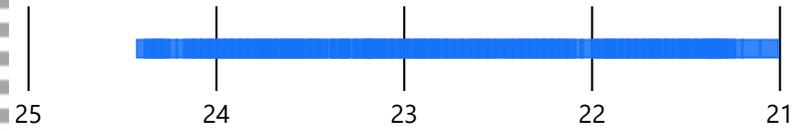
REACH D

Water Appearance

Score Excellent Good

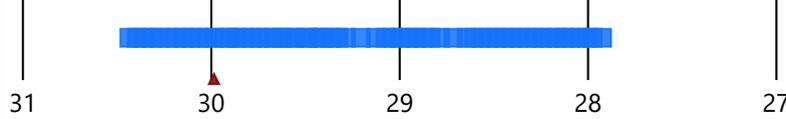


Score Excellent Good

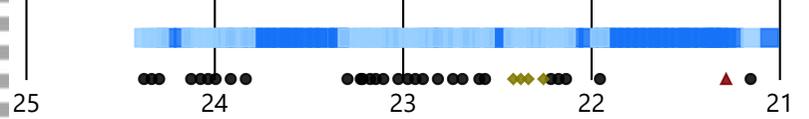


Nutrient Enrichment

Amount Low Mild NE Notes Algal Growth Both Dense Aquatic Plant Beds



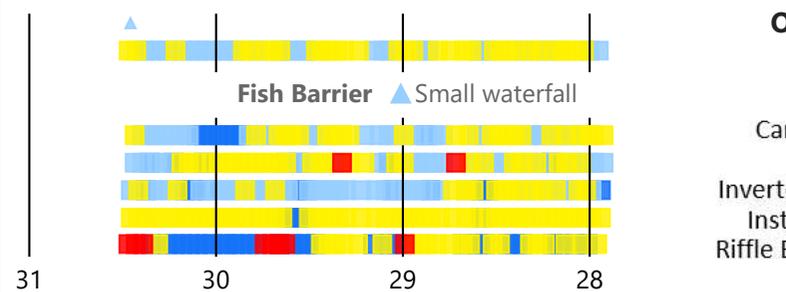
Amount Low Mild NE Notes Algal Growth Both Dense Aquatic Plant Beds



Fish Habitat

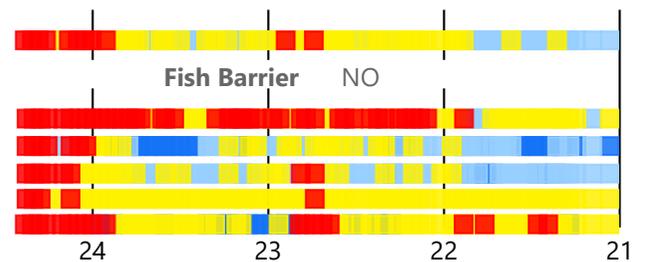
Score Excellent Good Mediocre Poor

Note: Overall Score of Fish Habitat was calculated by averaging scores for the five variables shown below.



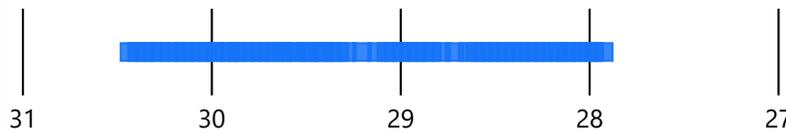
OVERALL SCORE

Canopy Cover Pools Invertebrate Habitat Instream Cover Riffle Embeddedness

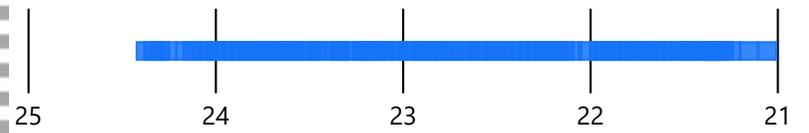


Manure Presence

None

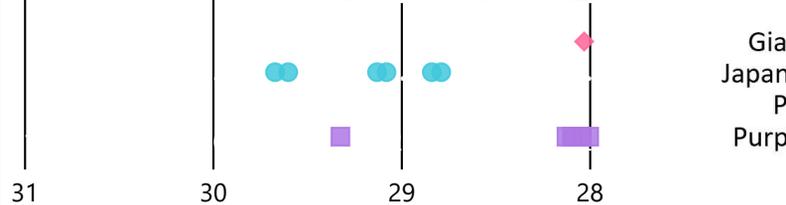


None

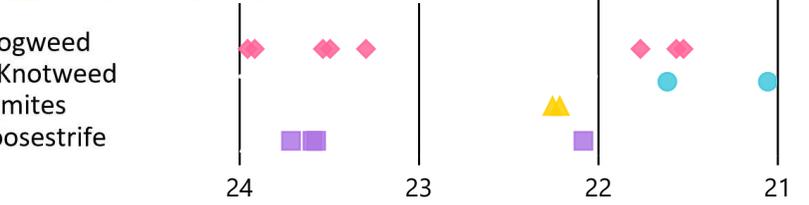


Invasive Species

Giant Hogweed Japanese Knotweed Phragmites Purple Loosestrife

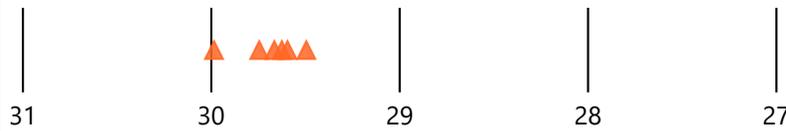


Giant Hogweed Japanese Knotweed Phragmites Purple Loosestrife

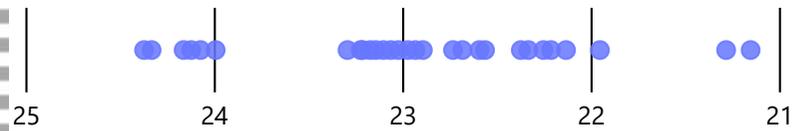


Aquatic Vegetation

Emergent Submerged



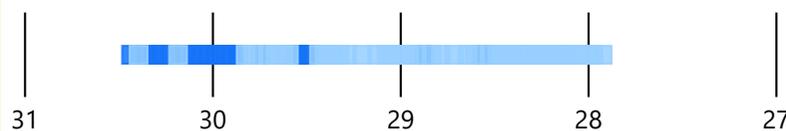
Emergent Submerged



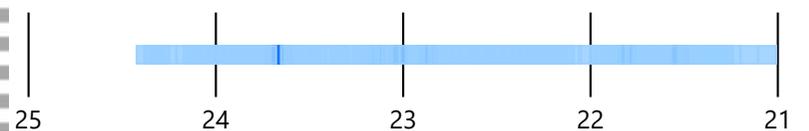
OVERALL SVAP RATING

BUFFALO CREEK

Score Excellent Good



Score Excellent Good

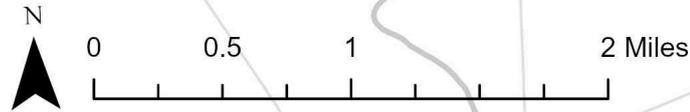
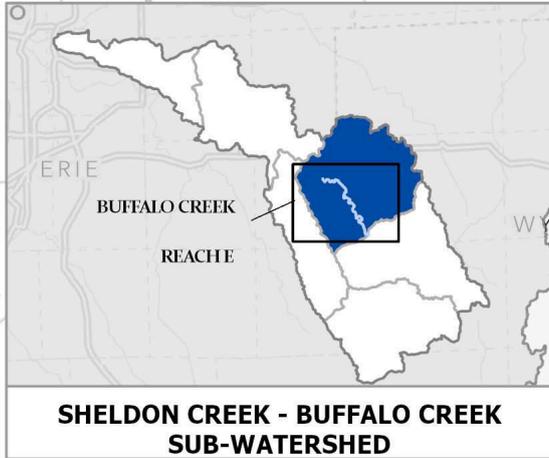


BUFFALO CREEK

STREAM VISUAL ASSESSMENT PROTOCOL (SVAP) FOR REACH E

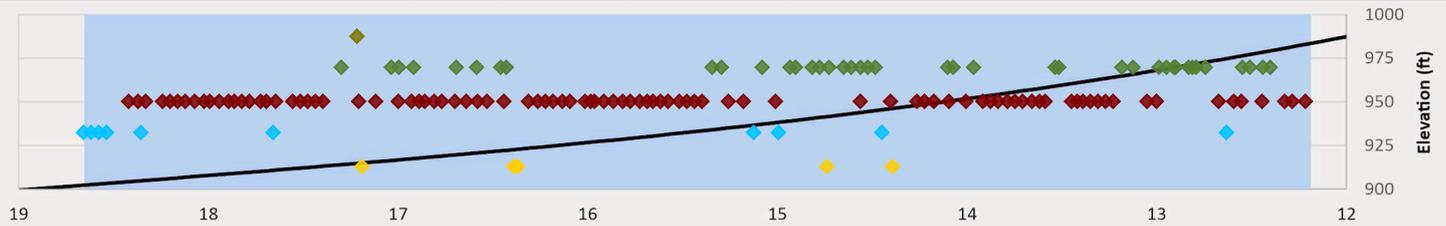
AVERAGE OVERALL SVAP RATING: **7.5**

- 10 Calculated Mile Marker
- ✕ Road Intersection
- ~ Buffalo Creek
- ~ SVAP Assessed Reach
- Watershed
- Road
- - Municipality
- County



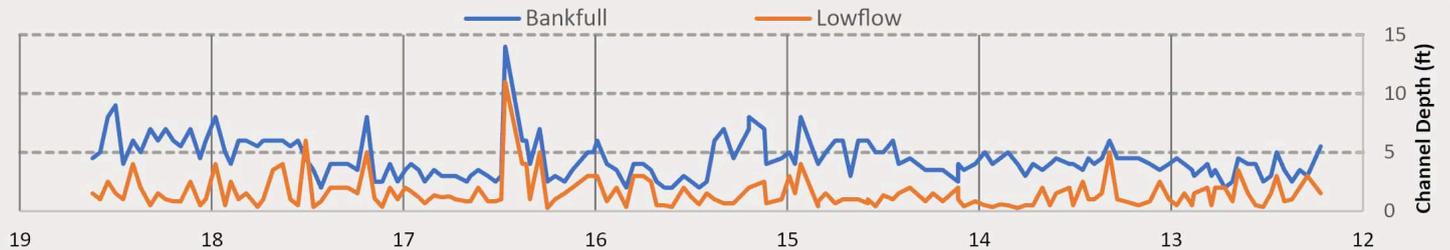
Elevation Profile

Substrate ◆ Bedrock/Concrete ◆ Cobble ◆ Gravel ◆ Sand ◆ Silt/Clay



REACH E

Channel Depth



Channel Width



← FLOW DIRECTION Creek Mile (18.62 at Tailwater, 12.22 at Headwater) FLOW DIRECTION →

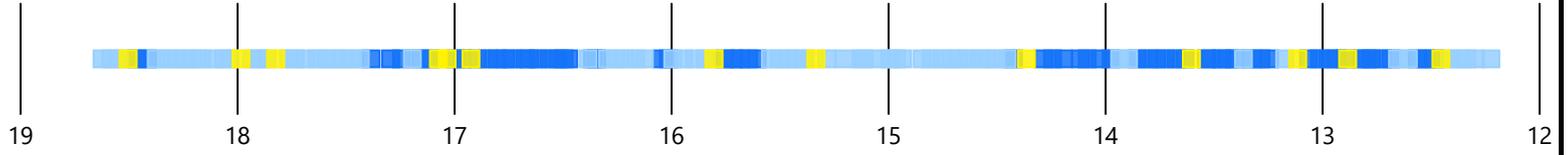
Classification Scheme for SVAP Parameters

Color Classification				
SVAP Score (0 – 10)	0 – 2.5	2.6 – 5	5.1 – 7.5	7.6 – 10

REACH E

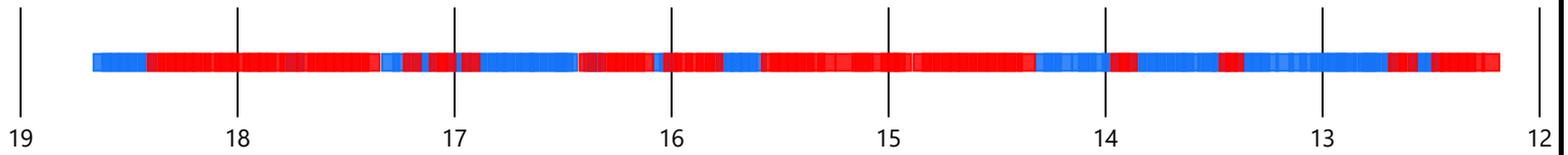
Channel Conditions

Score ■ Excellent ■ Good ■ Mediocre



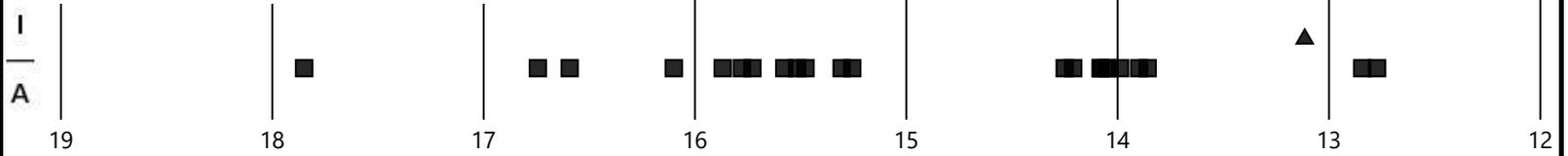
Stream Bank Hardening

■ NO ■ YES



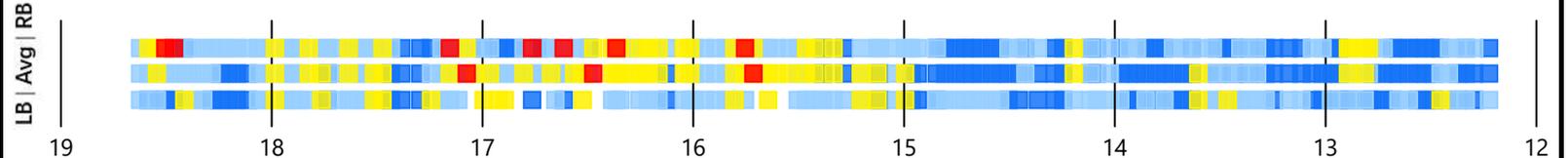
Aggradation/Incision

■ Aggradation ▲ Incision



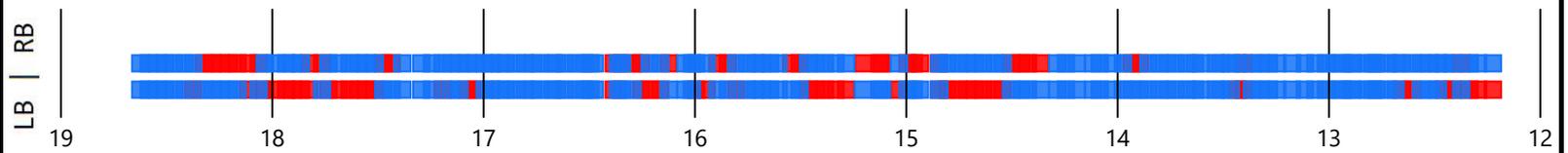
Bank Stability

Average LB/RB ■ Excellent ■ Good ■ Mediocre ■ Poor



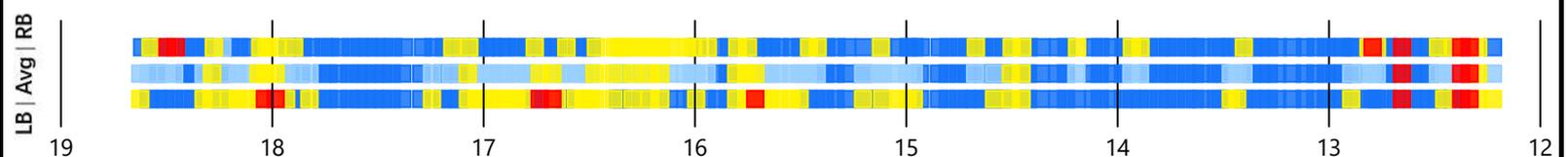
Bank Condition

■ Hardened Structure ■ Natural



Riparian Zone

Average LB/RB ■ Excellent ■ Good ■ Mediocre ■ Poor



REACH E

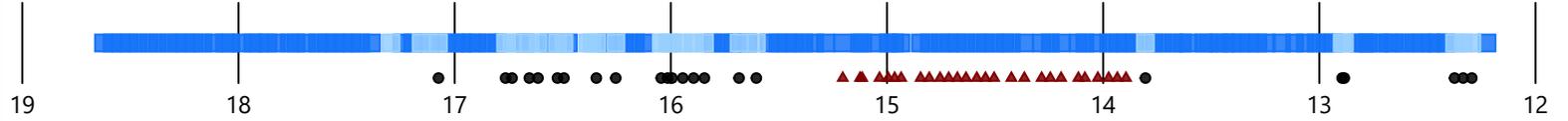
Water Appearance

Score ■ Excellent ■ Good



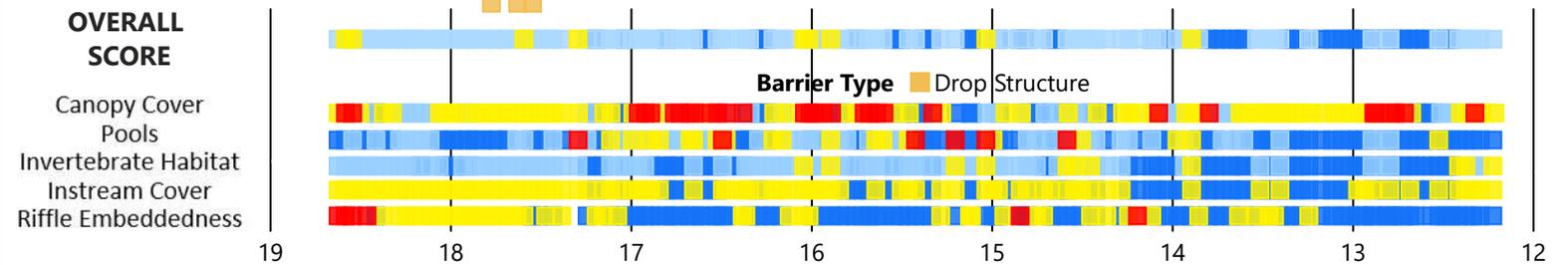
Nutrient Enrichment

Amount ■ Low ■ Mild
NE Notes ● Algal Growth ▲ Dense Aquatic Plant Beds



Fish Habitat

Score ■ Excellent ■ Good ■ Mediocre ■ Poor *Note: Overall Score of Fish Habitat was calculated by averaging scores for the five variables shown below.*



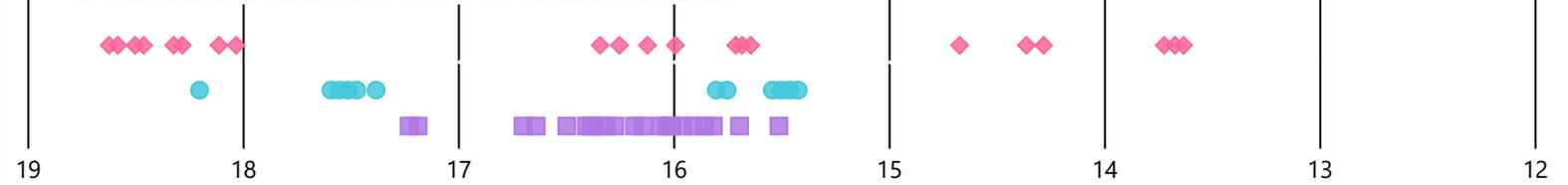
Manure Presence

■ Evidence of Animals ■ None



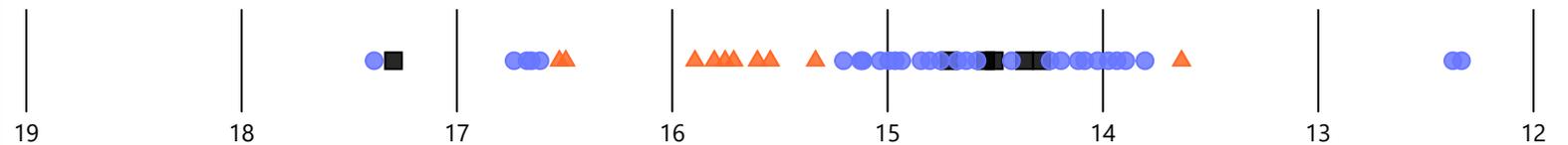
Invasive Species

◆ Giant Hogweed ● Japanese Knotweed ■ Purple Loosestrife



Aquatic Vegetation

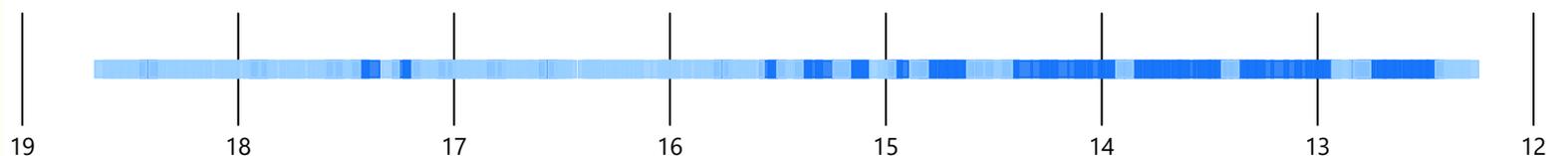
■ Both ▲ Emergent ● Submerged



OVERALL SVAP RATING

BUFFALO CREEK

Score ■ Excellent ■ Good

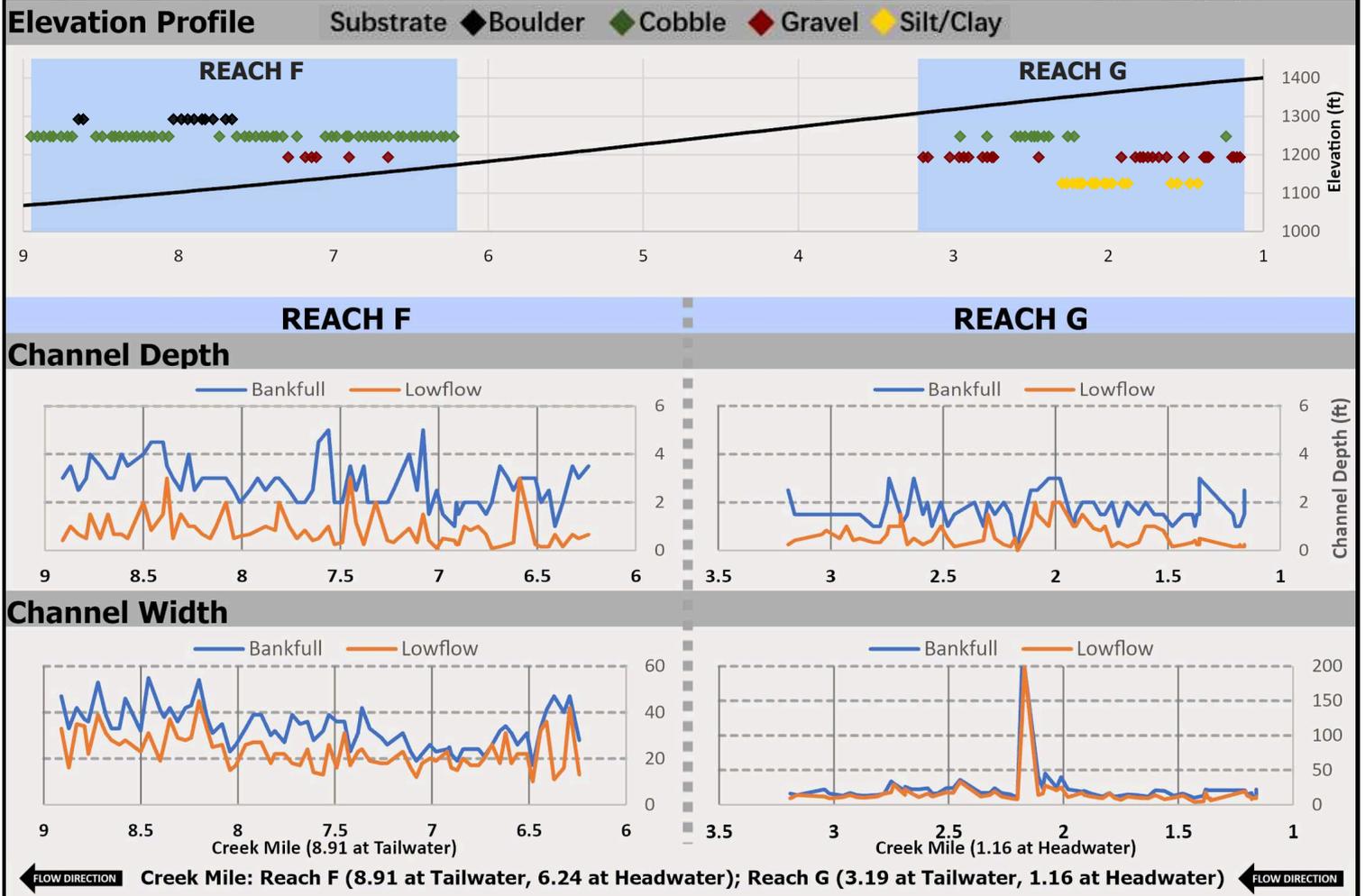
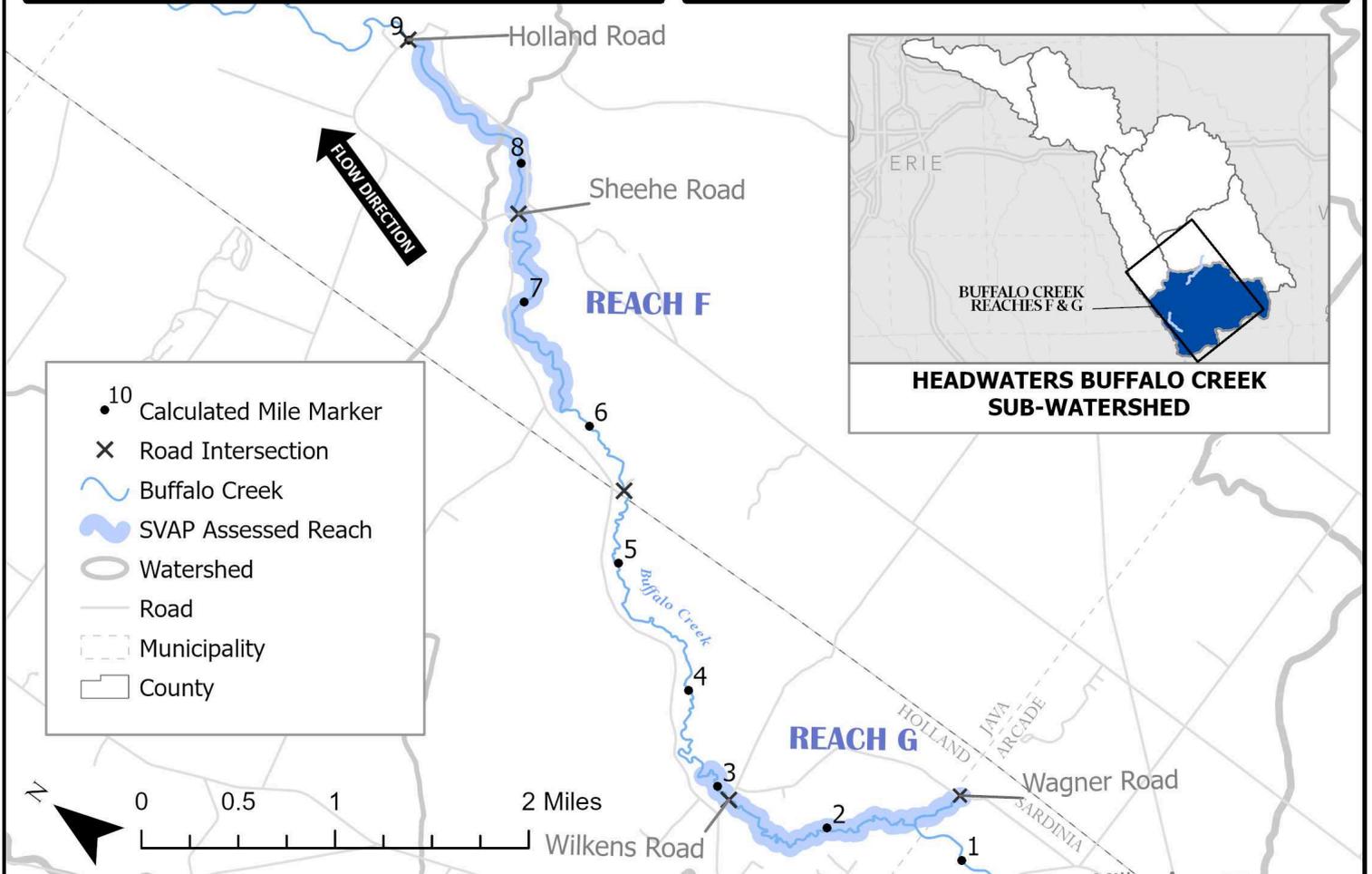


← FLOW DIRECTION Creek Mile (18.62 at Tailwater, 12.22 at Headwater) FLOW DIRECTION ←

BUFFALO CREEK

STREAM VISUAL ASSESSMENT PROTOCOL (SVAP) RESULTS FOR REACH F AND G

AVERAGE OVERALL SVAP RATING: **8.6**



Classification Scheme for SVAP Parameters

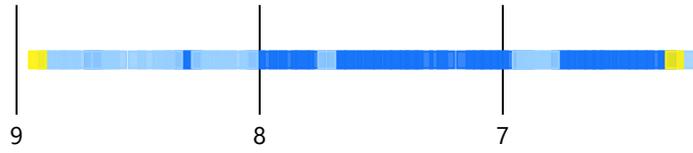
Color Classification				
SVAP Score (0 – 10)	0 – 2.5	2.6 – 5	5.1 – 7.5	7.6 – 10

REACH F

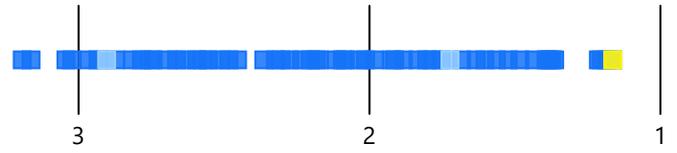
REACH G

Channel Conditions

Score ■ Excellent ■ Good ■ Mediocre

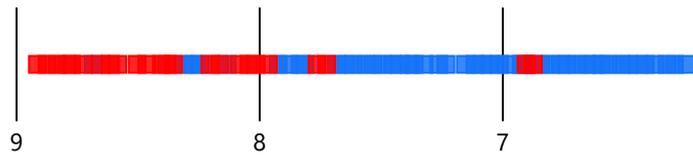


Score ■ Excellent ■ Good ■ Mediocre

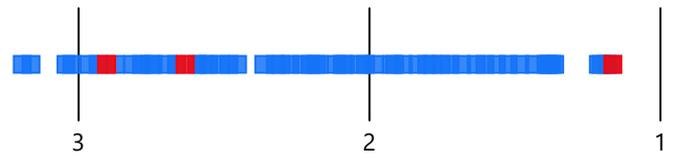


Stream Bank Hardening

■ NO ■ YES



■ NO ■ YES

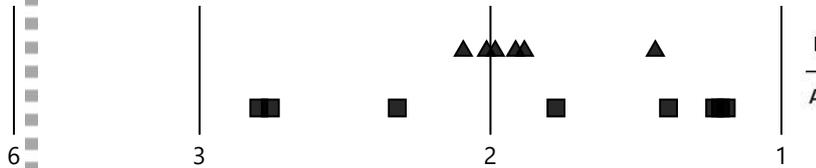


Aggradation/Incision

■ Aggradation ▲ Incision

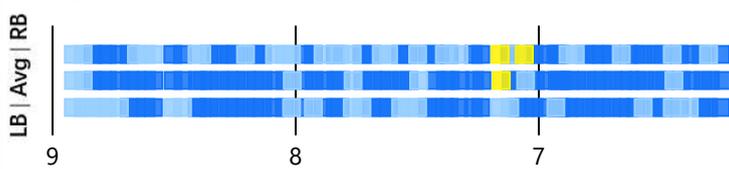


■ Aggradation ▲ Incision

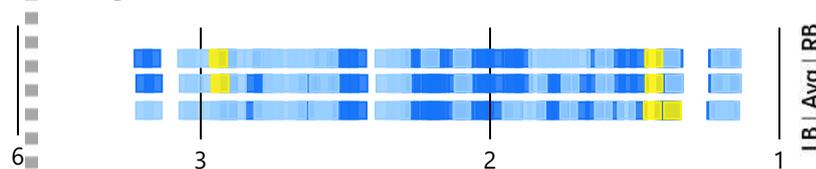


Bank Stability

Average LB/RB ■ Excellent ■ Good ■ Mediocre

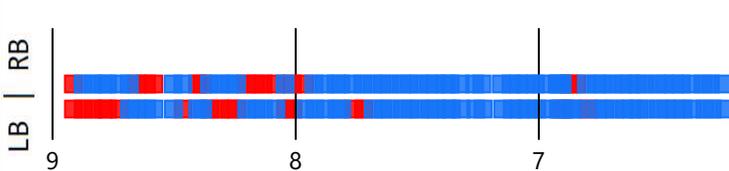


Average LB/RB ■ Excellent ■ Good ■ Mediocre

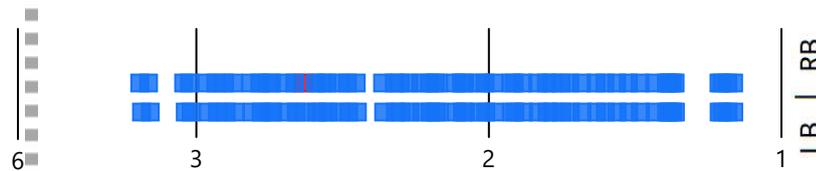


Bank Condition

■ Hardened Structure ■ Natural

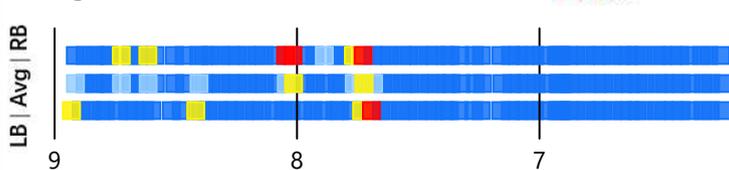


■ Hardened Structure ■ Natural

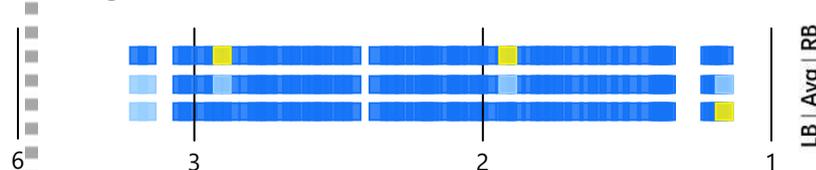


Riparian Zone

Average LB/RB ■ Excellent ■ Good ■ Mediocre ■ Poor



Average LB/RB ■ Excellent ■ Good ■ Mediocre



← FLOW DIRECTION

Creek Mile (8.91 at Tailwater, 1.16 at Headwater)

← FLOW DIRECTION

REACH F

REACH G

Water Appearance

Score Excellent Good

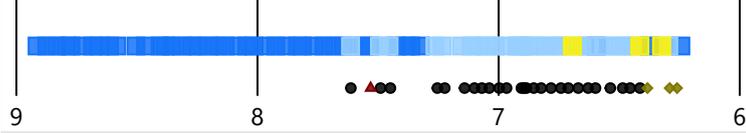


Score Excellent Good

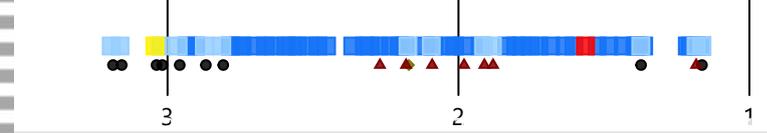


Nutrient Enrichment

Amount Low Mild Moderate Severe NE Notes Algal Growth Both Dense Aquatic Plant Beds

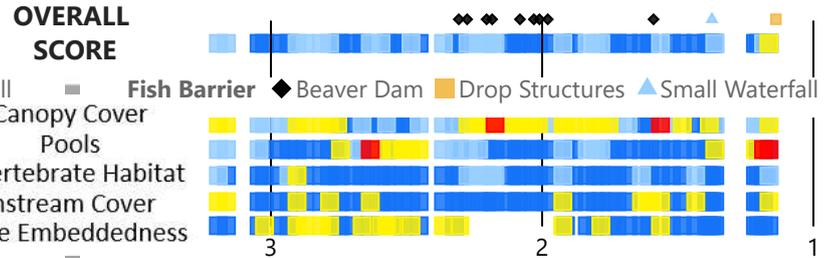
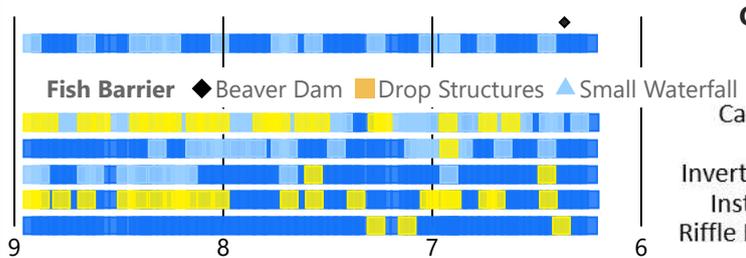


Amount Low Mild Moderate Severe NE Notes Algal Growth Both Dense Aquatic Plant Beds



Fish Habitat Score Excellent Good Mediocre Poor

Note: Overall Score of Fish Habitat was calculated by averaging scores for the five variables shown below.



Manure Presence

Evidence of Animals None



Evidence of Animals None



Invasive Species

Phragmites



Phragmites

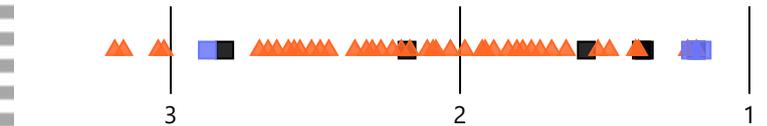


Aquatic Vegetation

Both Emergent Submerged



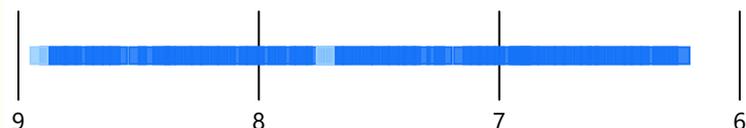
Both Emergent Submerged



OVERALL SVAP RATING

BUFFALO CREEK

Score Excellent Good



Score Excellent Good



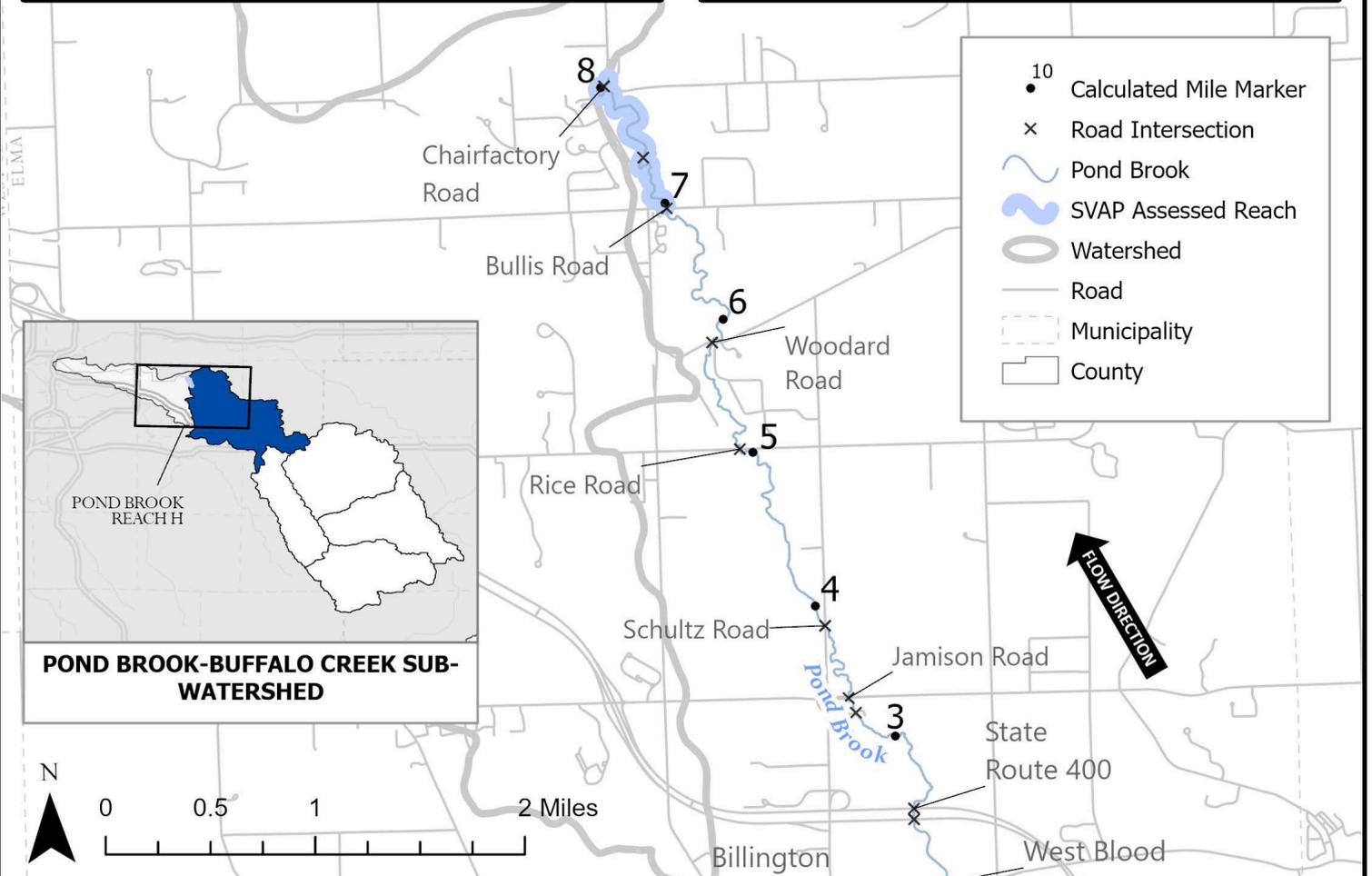
Creek Mile (8.91 at Tailwater, 1.16 at Headwater)



POND BROOK

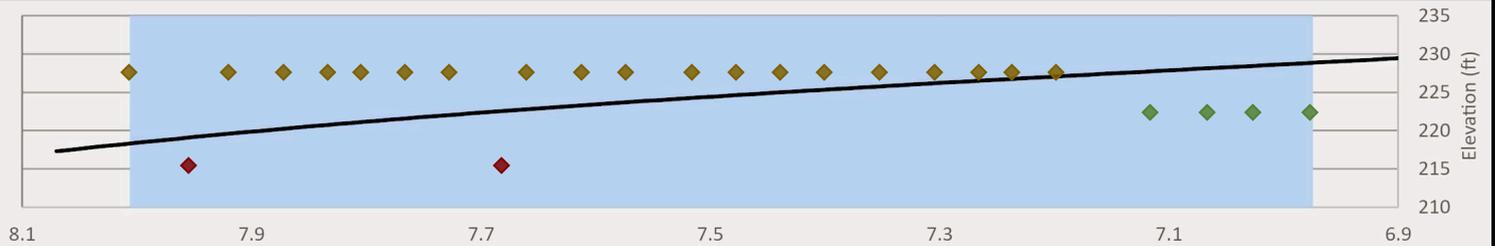
STREAM VISUAL ASSESSMENT PROTOCOL (SVAP) RESULTS FOR REACH H

AVERAGE OVERALL SVAP RATING: **8.4**



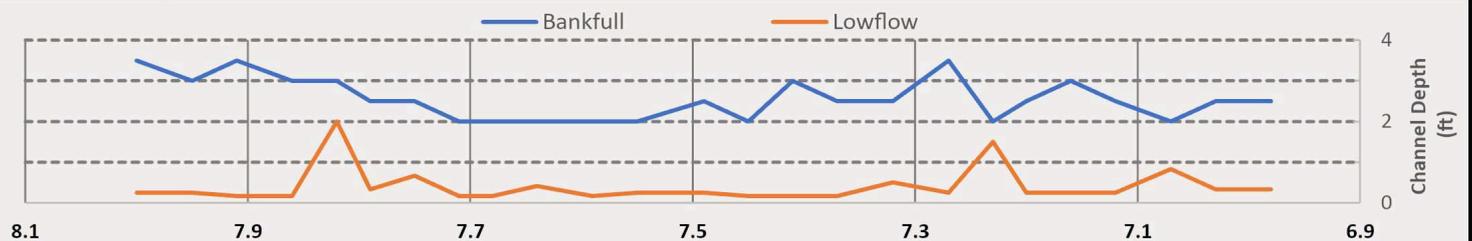
Elevation Profile

Substrate ◆ Bedrock/Concrete ◆ Cobble ◆ Gravel



REACH H

Channel Depth



Channel Width



← FLOW DIRECTION Creek Mile (8.00 at Tailwater, 6.98 at Headwater) FLOW DIRECTION →

REACH H

Water Appearance

Score ■ Excellent



Nutrient Enrichment

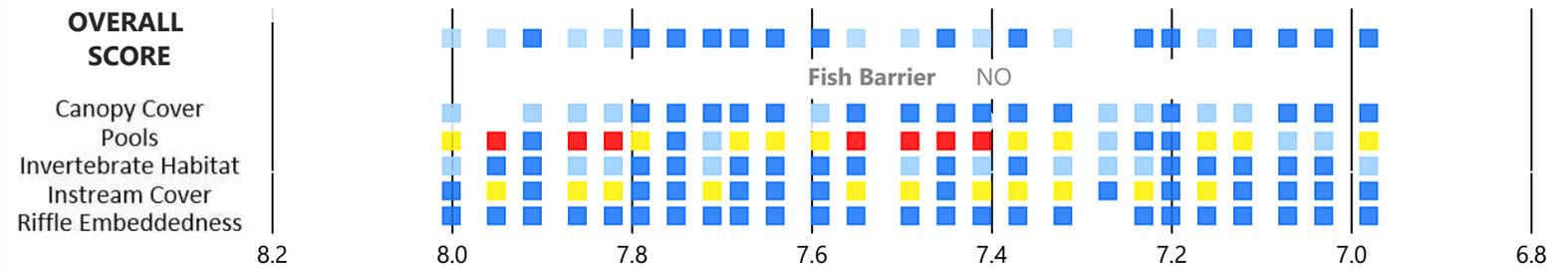
Amount ■ Low
NE Notes ▲ Dense Aquatic Plant Beds



Fish Habitat

Score ■ Excellent ■ Good ■ Mediocre ■ Poor

Note: Overall Score of Fish Habitat was calculated by averaging scores for the five variables shown below.



Manure Presence

■ Evidence of Animals



Invasive Species

▲ Phragmites



Aquatic Vegetation

■ Emergent ■ Submerged & Emergent



OVERALL SVAP RATING

POND BROOK

Score ■ Excellent ■ Good

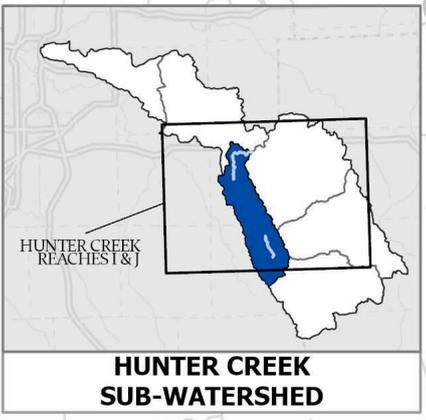
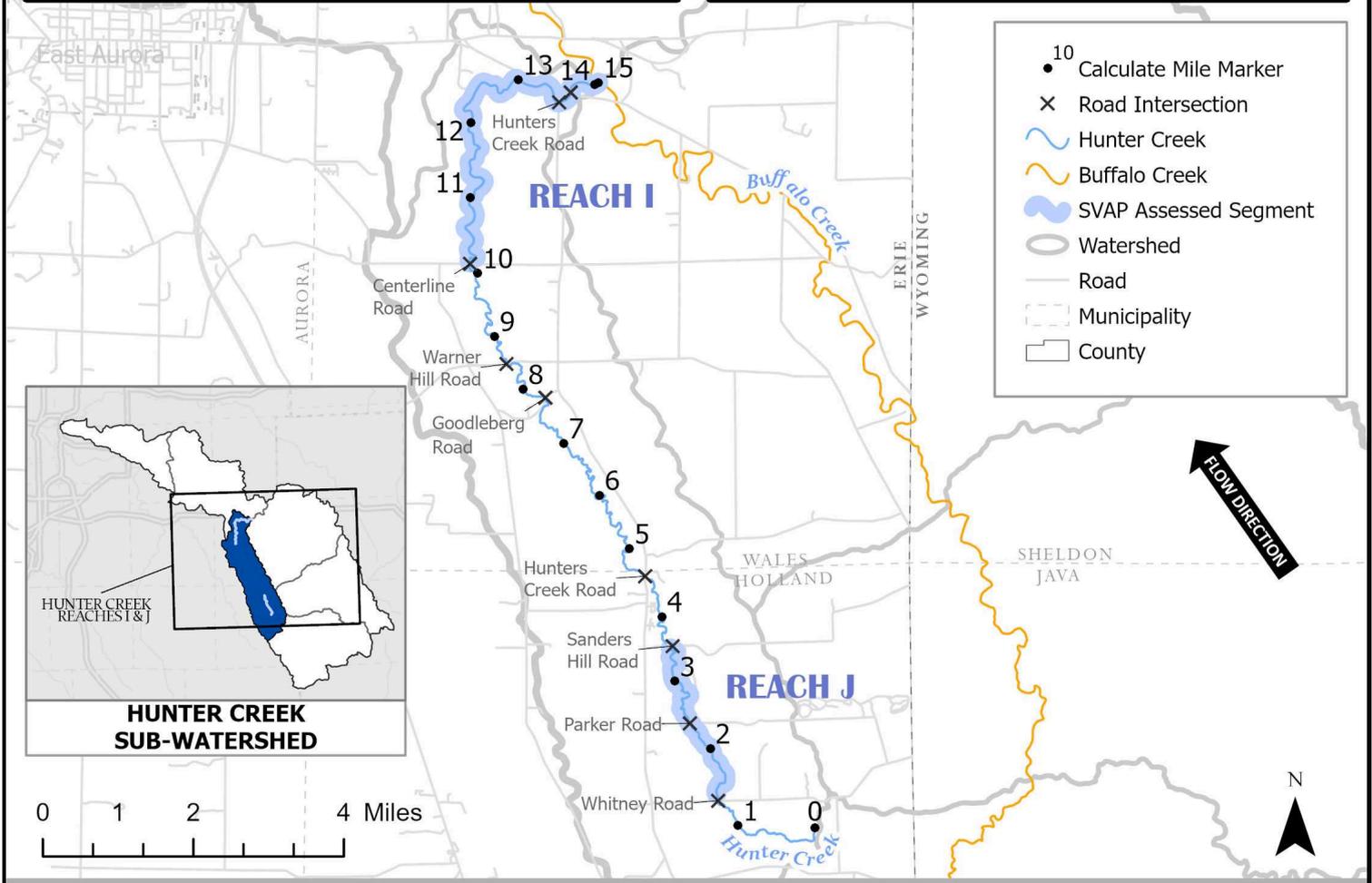


HUNTER CREEK

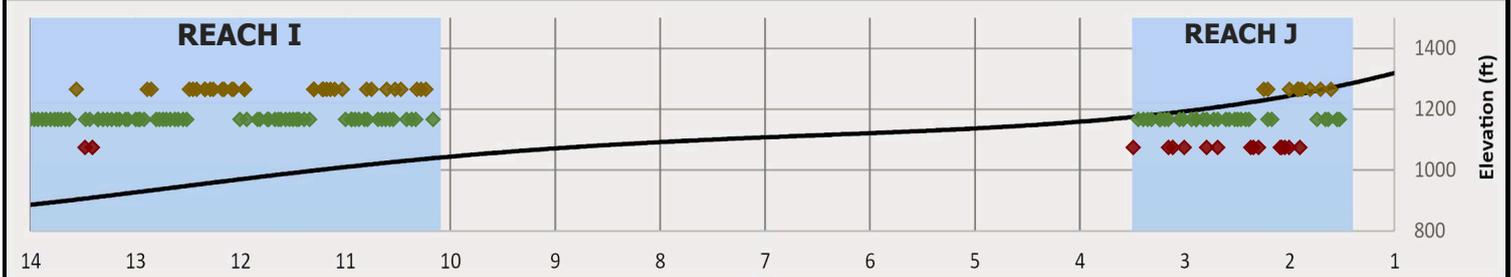
STREAM VISUAL ASSESSMENT PROTOCOL (SVAP) RESULTS FOR REACH I & J

AVERAGE OVERALL SVAP RATING: **8.2**

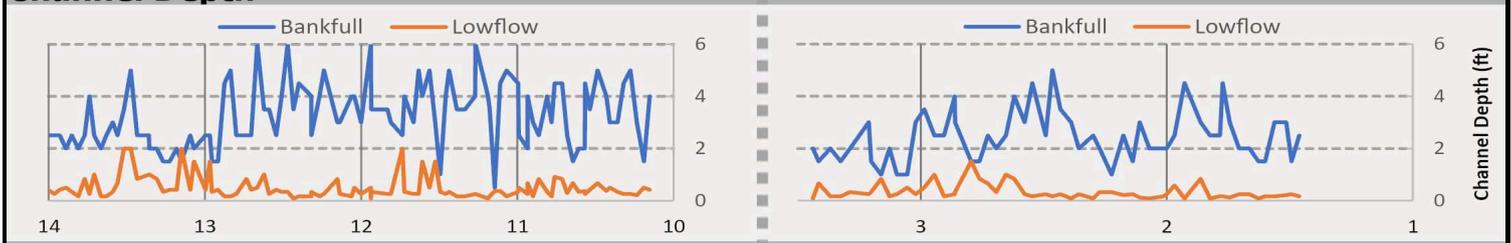
- Calculate Mile Marker
- × Road Intersection
- ~ Hunter Creek
- ~ Buffalo Creek
- ~ SVAP Assessed Segment
- Watershed
- Road
- Municipality
- County



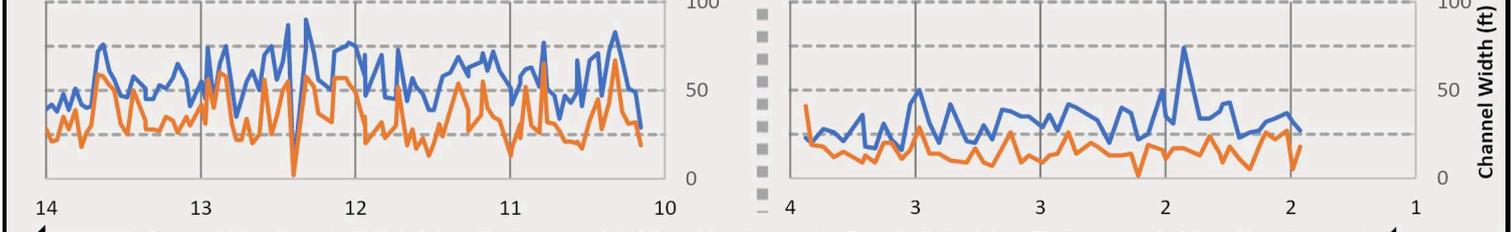
Elevation Profile Substrate ◆ Bedrock/Concrete ◆ Cobble ◆ Gravel



Channel Depth



Channel Width



← **FLOW DIRECTION** Creek Mile: Reach I (14.00 at Tailwater, 10.15 at Headwater); Reach J (3.44 at Tailwater, 1.46 at Headwater) **FLOW DIRECTION** →

Classification Scheme for SVAP Parameters

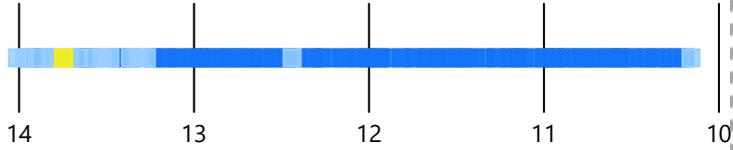
Color Classification				
SVAP Score (0 – 10)	0 – 2.5	2.6 – 5	5.1 – 7.5	7.6 – 10

REACH I

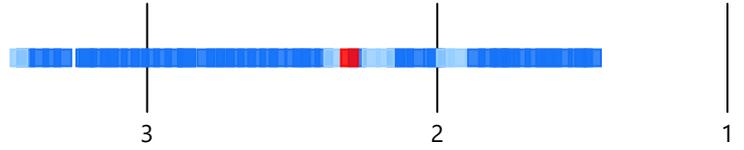
REACH J

Channel Conditions

Score ■ Excellent ■ Good ■ Mediocre

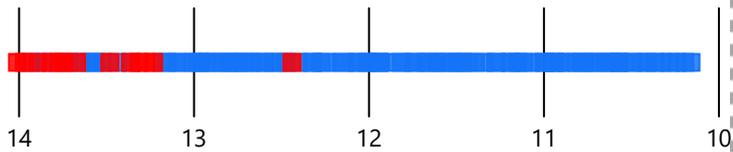


Score ■ Excellent ■ Good ■ Poor

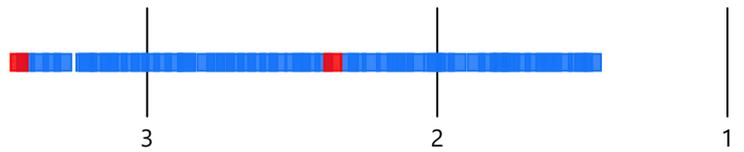


Stream Bank Hardening

■ NO ■ YES

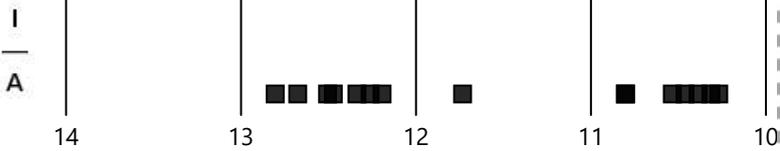


■ NO ■ YES



Aggradation/Incision

■ Aggradation ▲ Incision

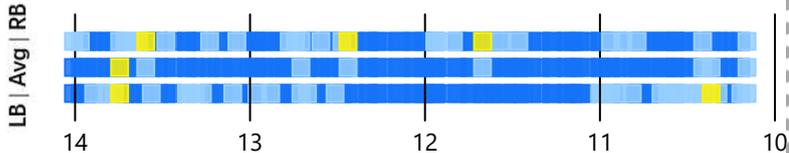


■ Aggradation ▲ Incision

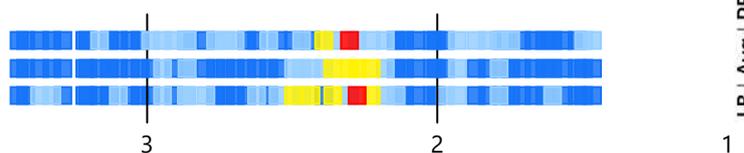


Bank Stability

Score ■ Excellent ■ Good ■ Mediocre

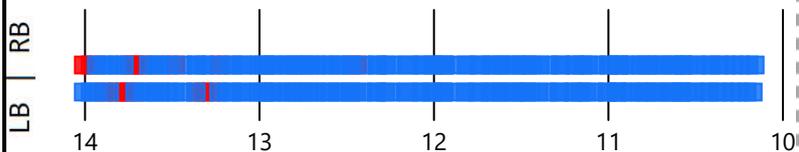


Score ■ Excellent ■ Good ■ Mediocre ■ Poor

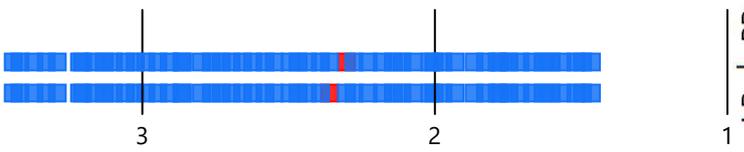


Bank Condition

■ Hardened Structure ■ Natural

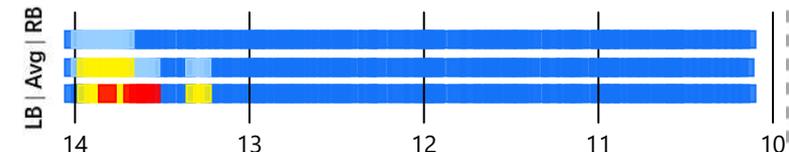


■ Hardened Structure ■ Natural

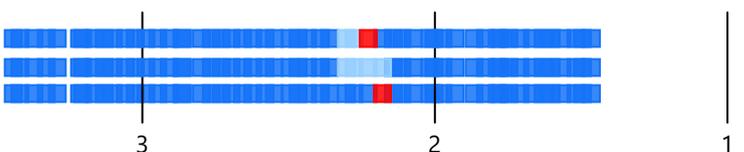


Riparian Zone

Score ■ Excellent ■ Good ■ Mediocre



Score ■ Excellent ■ Good ■ Mediocre

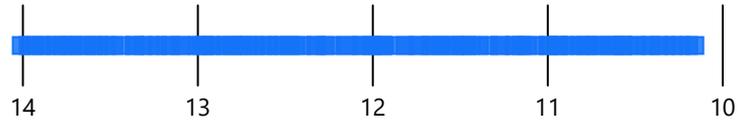


REACH I

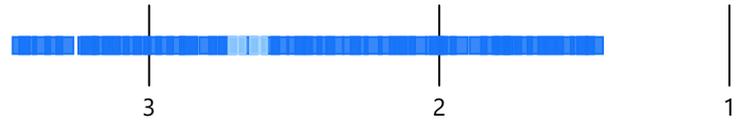
REACH J

Water Appearance

Score Excellent Good

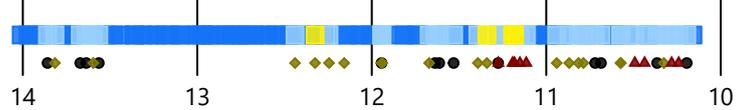


Score Excellent Good

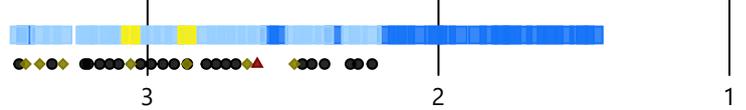


Nutrient Enrichment

Amount Low Mild Moderate NE Notes Algal Growth Both Dense Aquatic Plant Beds

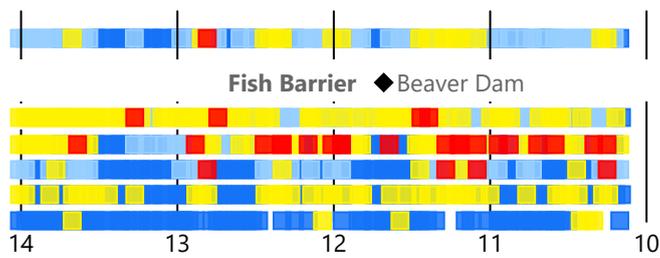


Amount Low Mild Moderate NE Notes Algal Growth Both Dense Aquatic Plant Beds



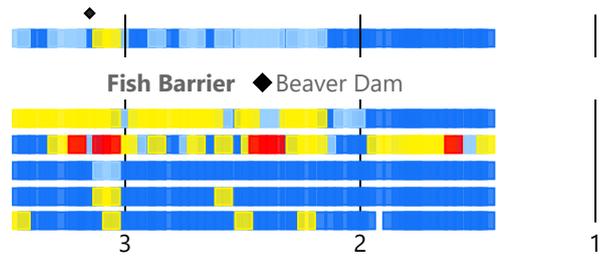
Fish Habitat Score Excellent Good Mediocre Poor

Overall Score of Fish Habitat was calculated by averaging scores for the five variables shown below.



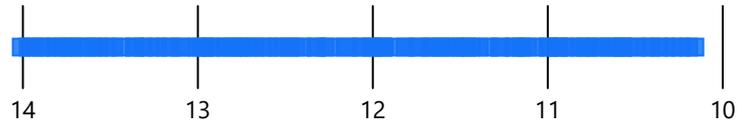
OVERALL SCORE

Canopy Cover Pools Invertebrate Habitat Instream Cover Riffle Embeddedness

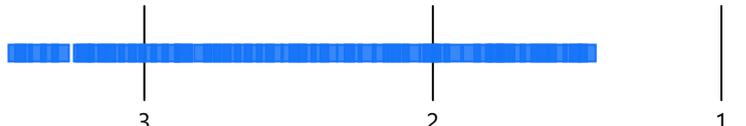


Manure Presence

None

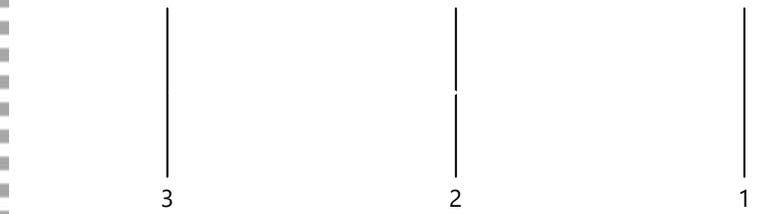
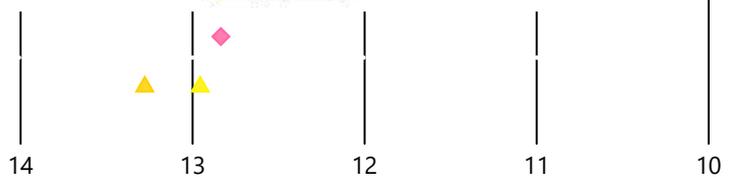


None



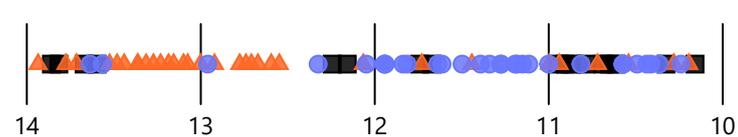
Invasive Species

Giant Hogweed Phragmites

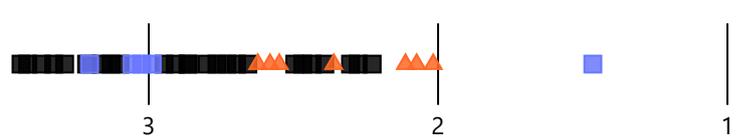


Aquatic Vegetation

Both Emergent Submerged



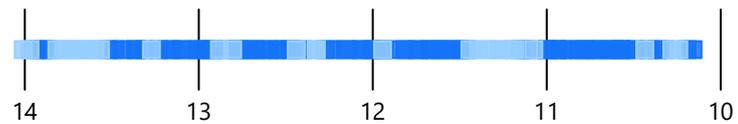
Both Emergent Submerged



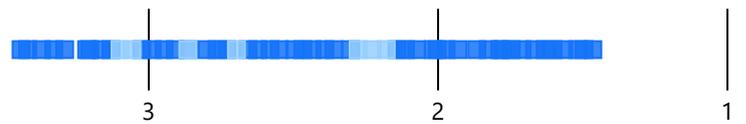
OVERALL SVAP RATING

HUNTER CREEK

Score Excellent Good



Score Excellent Good



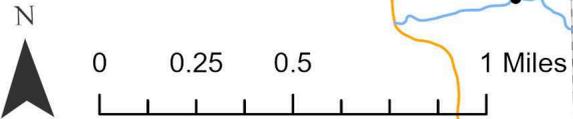
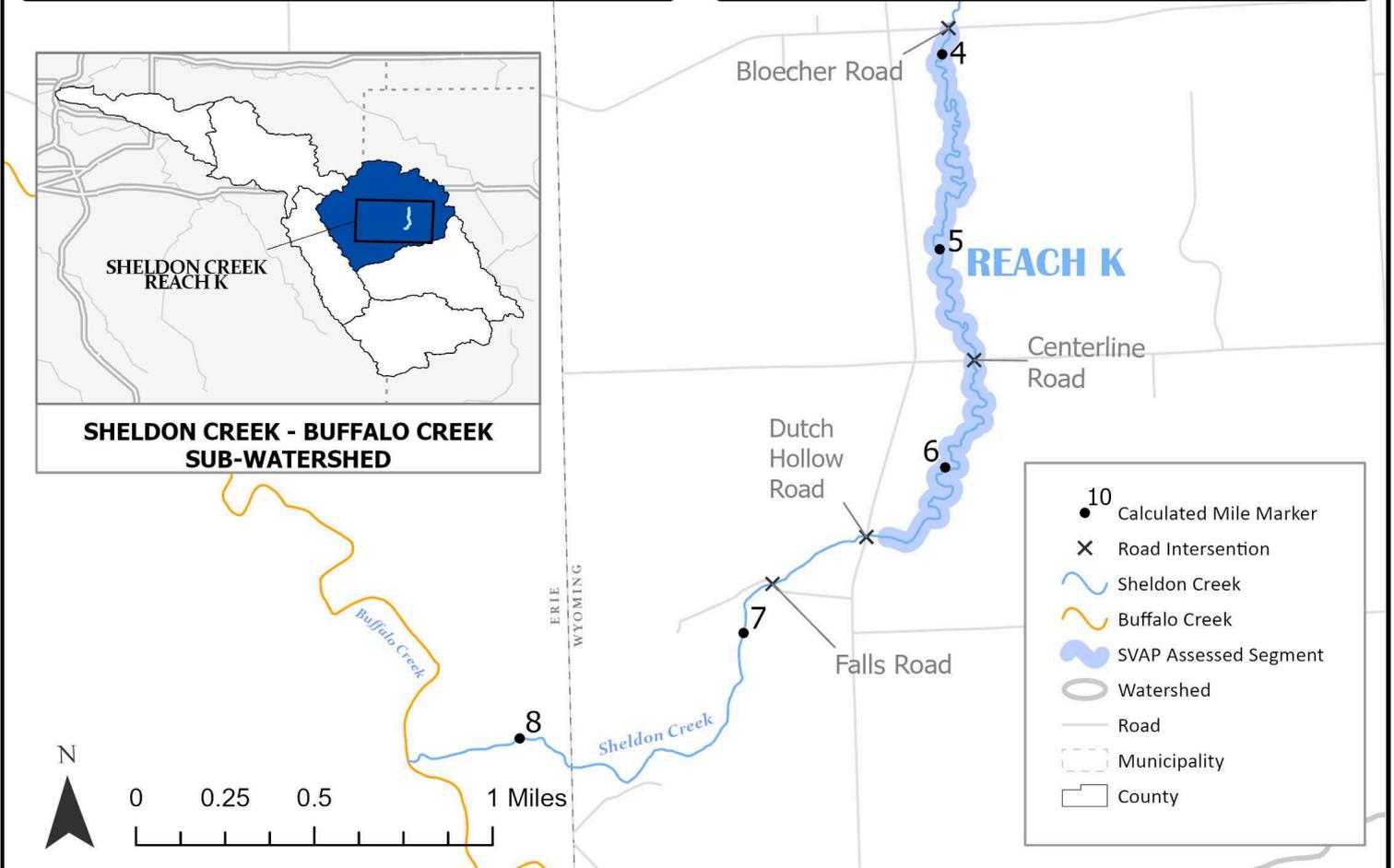
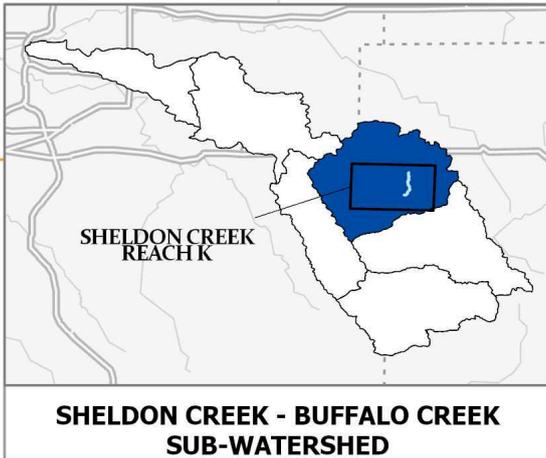
Creek Mile (14.00 at Tailwater, 1.46 at Headwater)



SHELDON CREEK

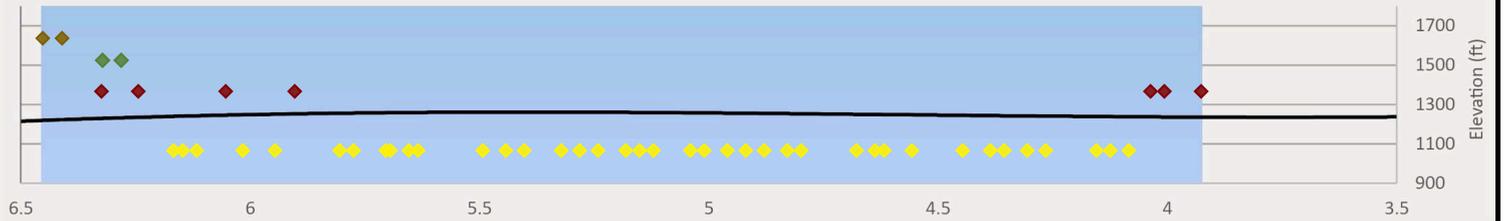
STREAM VISUAL ASSESSMENT PROTOCOL (SVAP) RESULTS FOR REACH K

AVERAGE OVERALL SVAP RATING: **8.1**



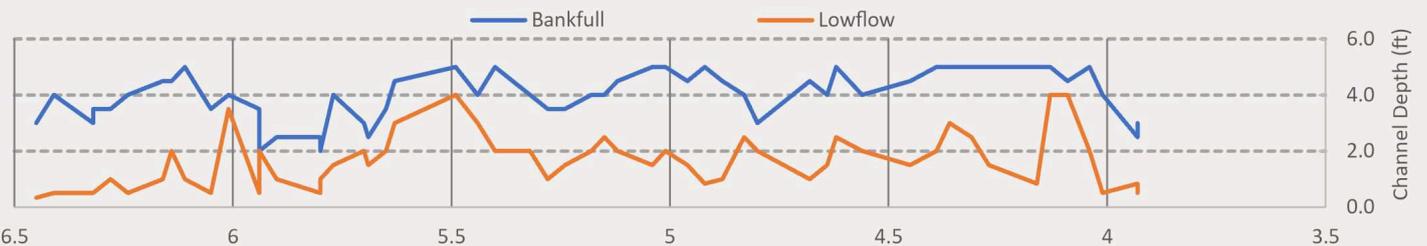
Elevation Profile

Substrate ◆ Bedrock/Concrete ◆ Cobble ◆ Gravel ◆ Silt/Clay

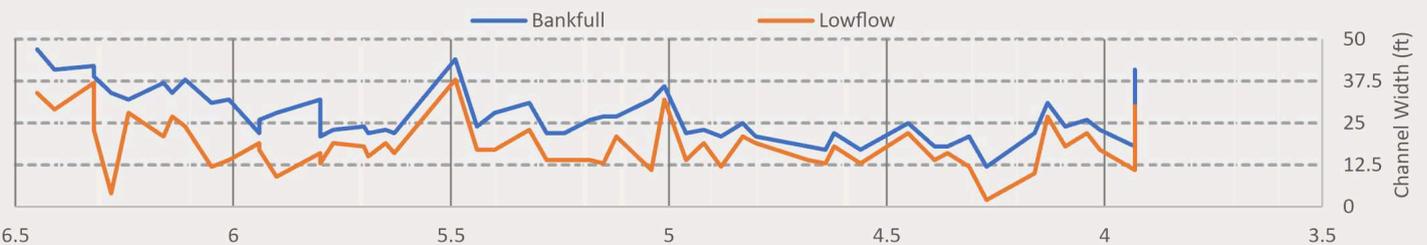


REACH K

Channel Depth



Channel Width



← FLOW DIRECTION
Creek Mile (6.45 at Tailwater, 3.93 at Headwater)
← FLOW DIRECTION

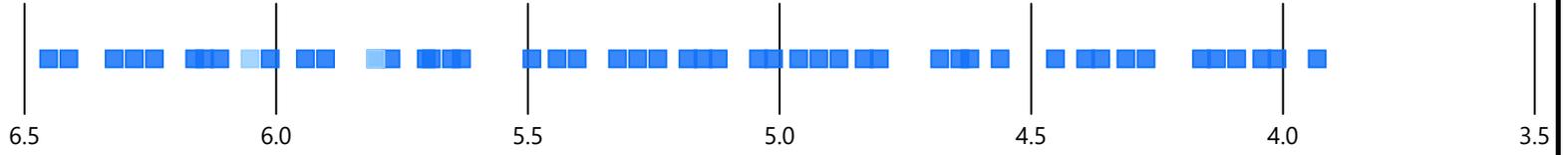
Classification Scheme for SVAP Parameters

Color Classification				
SVAP Score (0 – 10)	0 – 2.5	2.6 – 5	5.1 – 7.5	7.6 – 10

REACH K

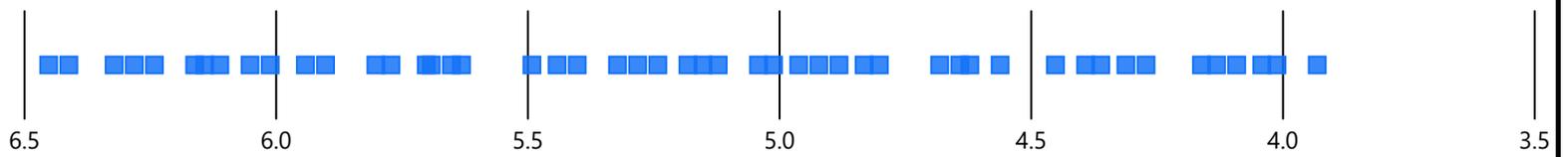
Channel Conditions

Score ■ Excellent ■ Good



Stream Bank Hardening

■ NO

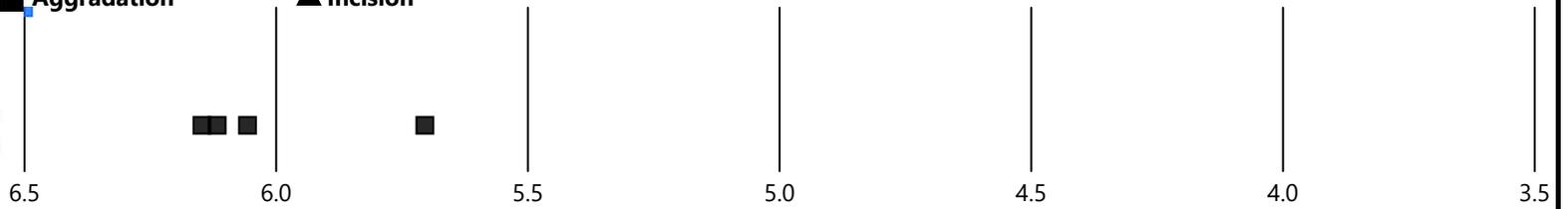


Aggradation/Incision

■ Aggradation

▲ Incision

I
A



Bank Stability

Average LB/RB ■ Excellent ■ Good ■ Mediocre ■ Poor

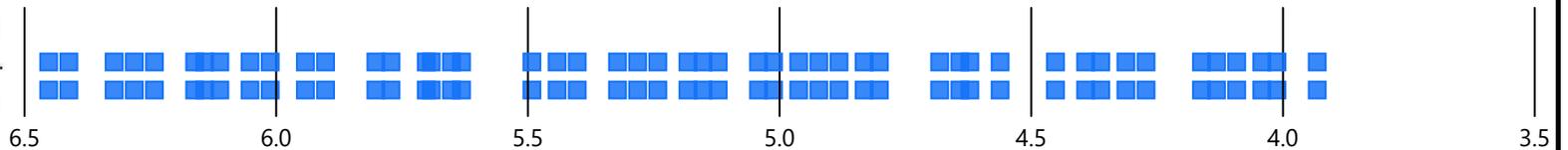
LB | Avg | RB



Bank Condition

■ Natural

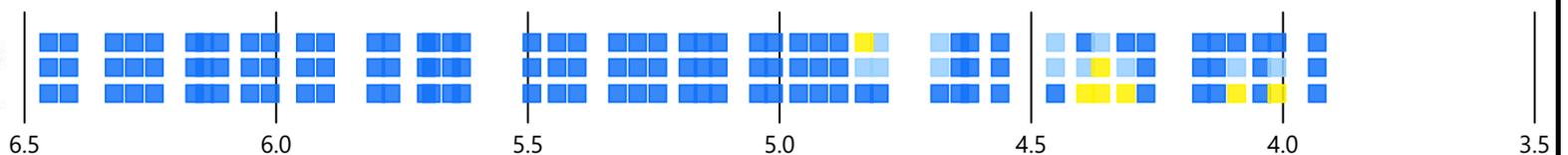
LB
RB



Riparian Zone

Average LB/RB ■ Excellent ■ Good ■ Mediocre

LB | Avg | RB



← FLOW DIRECTION

Creek Mile (6.45 at Tailwater, 3.93 at Headwater)

← FLOW DIRECTION

REACH K

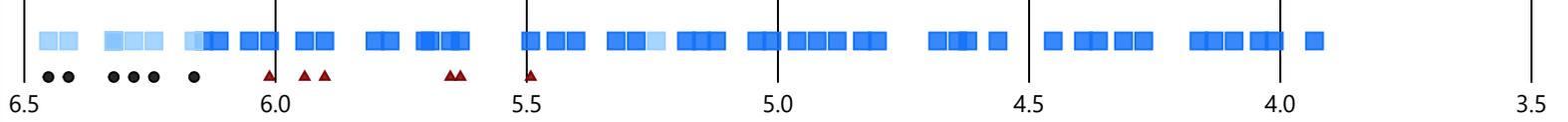
Water Appearance

Score ■ Excellent ■ Good



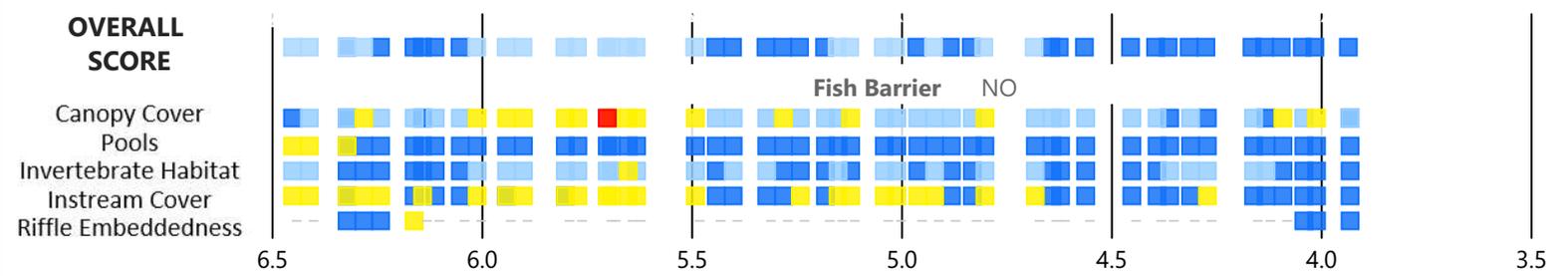
Nutrient Enrichment

Amount ■ Low ■ Mild
NE Notes ● Algal Growth ▲ Dense Aquatic Plant Beds



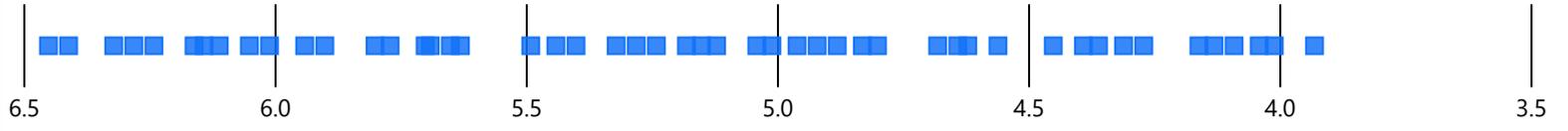
Fish Habitat

Score ■ Excellent ■ Good ■ Mediocre ■ Poor **Note:** Overall Score of Fish Habitat was calculated by averaging scores for the five variables shown below.



Manure Presence

■ None



Invasive Species

Type ● Japanese Knotweed



Aquatic Vegetation

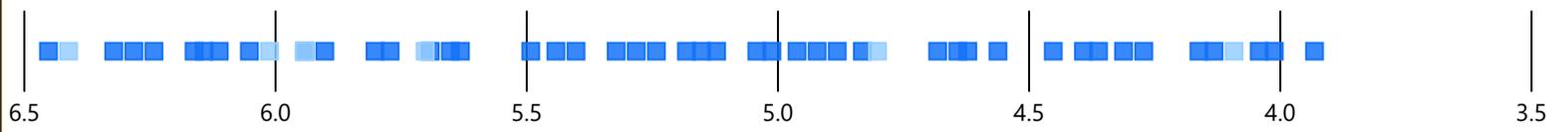
■ Both ▲ Emergent ● Submerged



OVERALL SVAP RATING

SHELDON CREEK

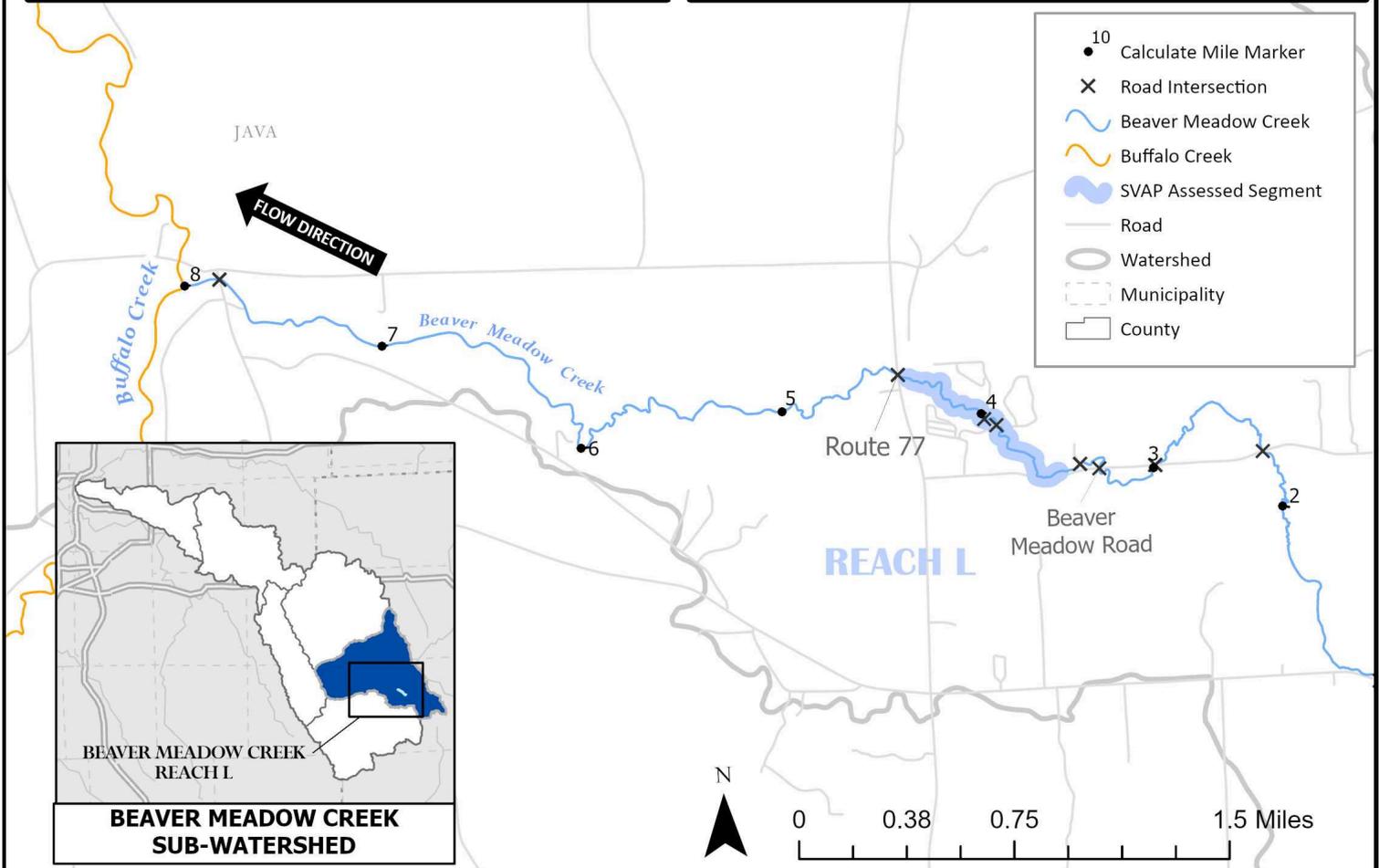
Score ■ Excellent ■ Good



BEAVER MEADOW CREEK

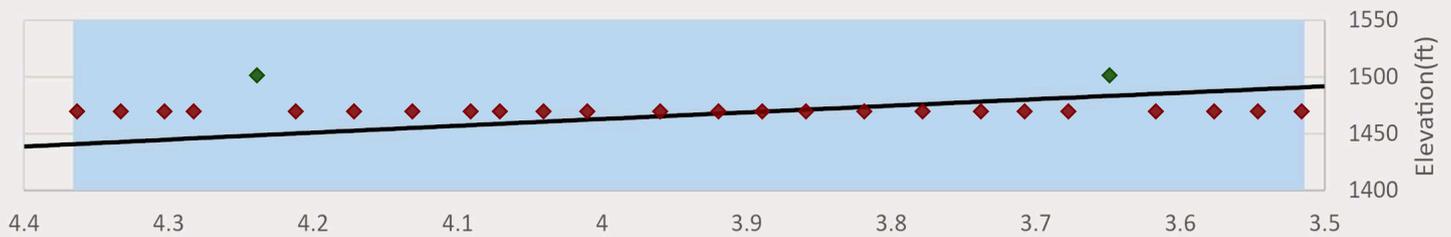
STREAM VISUAL ASSESSMENT PROTOCOL (SVAP) SAMPLING RESULTS FOR REACH L

AVERAGE OVERALL SVAP RATING: **9.0**



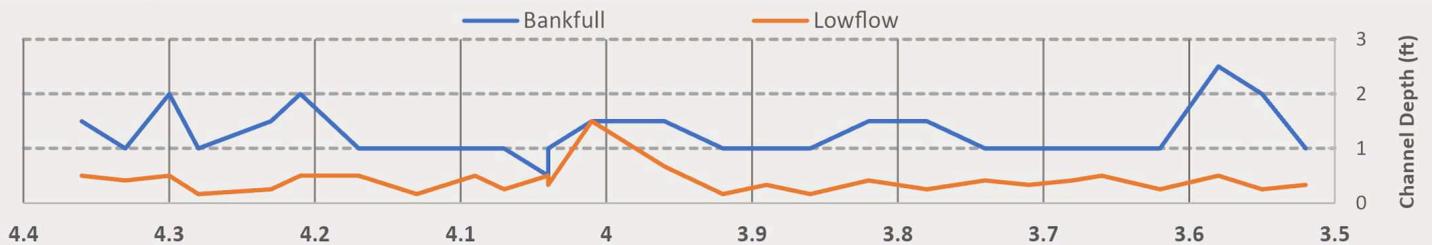
Elevation Profile

Substrate ◆ Cobble ◆ Gravel

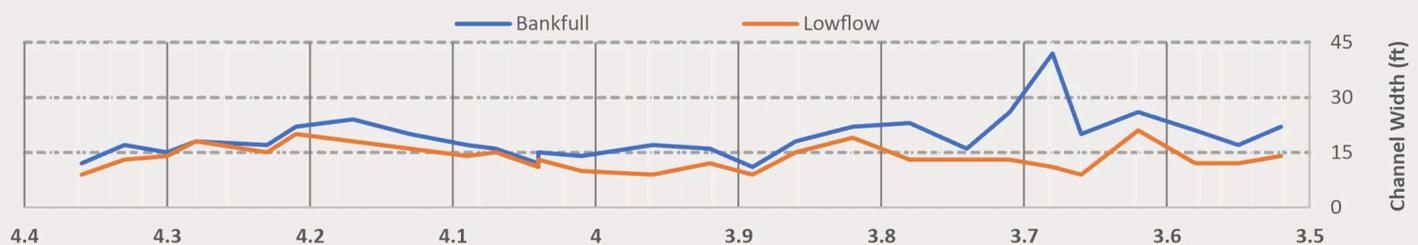


REACH L

Channel Depth



Channel Width



← FLOW DIRECTION Creek Mile (4.36 at Tailwater, 3.52 at Headwater) FLOW DIRECTION →

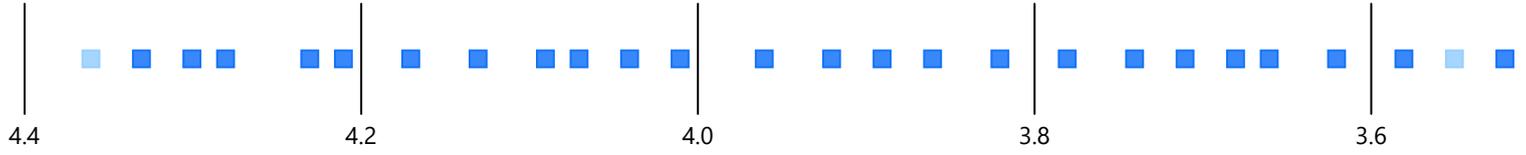
Classification Scheme for SVAP Parameters

Color Classification				
SVAP Score (0 – 10)	0 – 2.5	2.6 – 5	5.1 – 7.5	7.6 – 10

REACH L

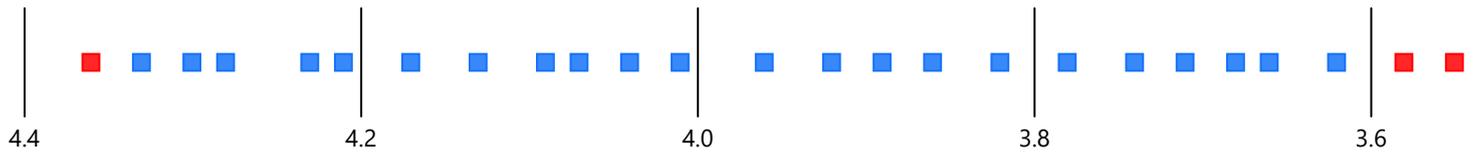
Channel Conditions

Score ■ Excellent ■ Good



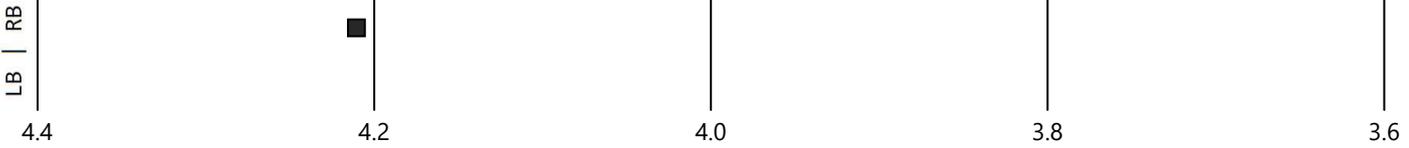
Stream Bank Hardening

■ NO ■ YES



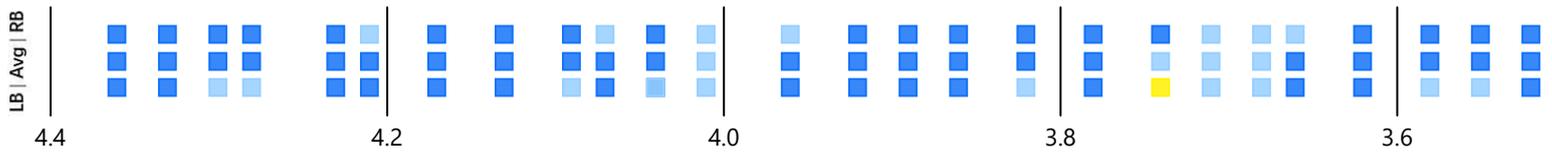
Aggradation/Incision

■ Aggradation ▲ Incision



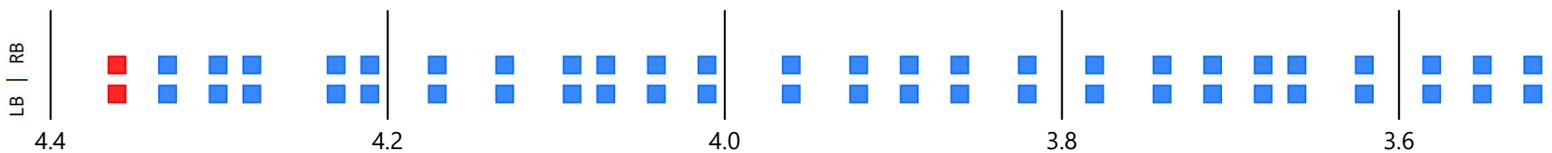
Bank Stability

Average LB/RB ■ Excellent ■ Good ■ Mediocre



Bank Condition

■ Hardened Structure ■ Natural



Riparian Zone

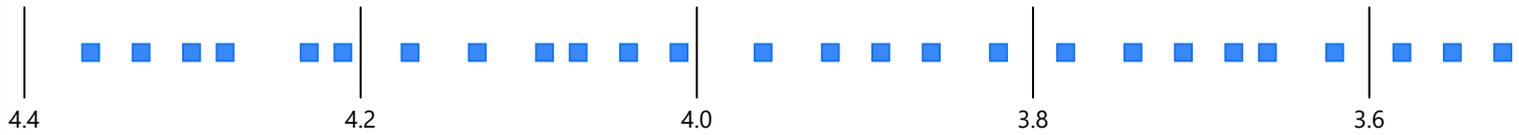
Average LB/RB ■ Excellent



REACH L

Water Appearance

Score ■ Excellent



Nutrient Enrichment

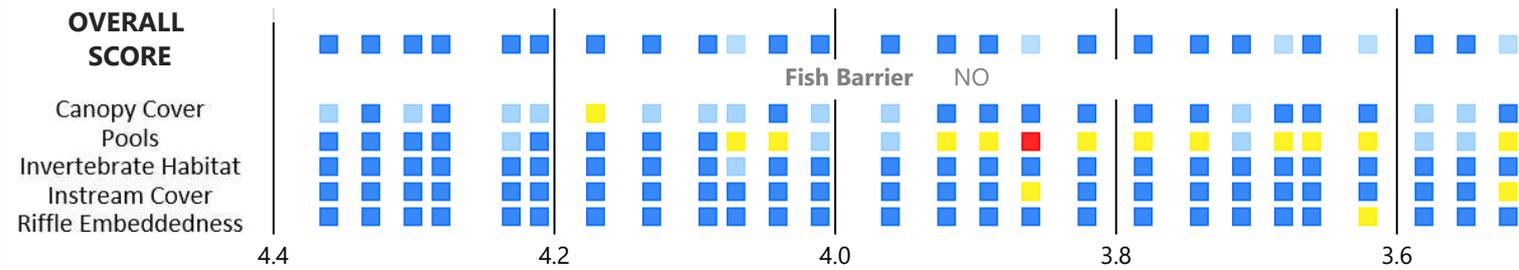
Amount ■ Low ■ Mild
NE Notes ● Algal Growth



Fish Habitat

Score ■ Excellent ■ Good ■ Mediocre ■ Poor

Note: Overall Score of Fish Habitat was calculated by averaging scores for the five variables shown below.

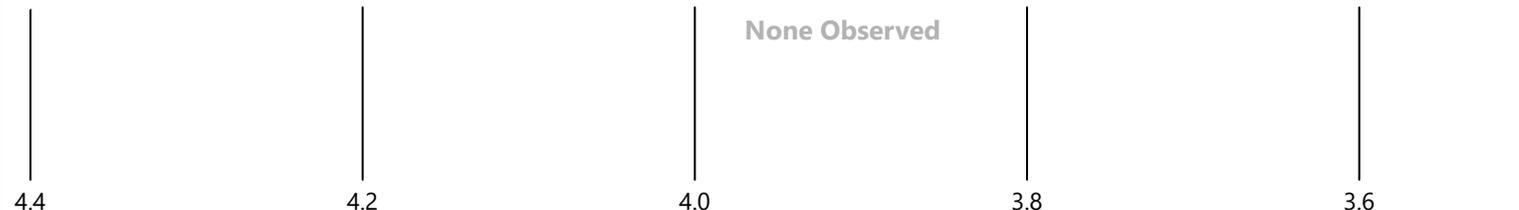


Manure Presence

■ None



Invasive Species



Aquatic Vegetation

▲ Emergent



OVERALL SVAP RATING

BEAVER MEADOW CREEK

Score ■ Excellent

