

Appendix B:

Streambank and Instream Conditions Visual Monitoring Results:

Site 1:

Criteria	Findings	Notes:
Location	Rt 29 Bridge over the Hosensack Creek	Residential on one side, forest on opposite side
Invasive/Exotic Vegetation	Medium	Primarily multi-flora rose(mfr) (35 – 40% of invasives)
Instream cover	Good	
Particulate/sediments	Good	
Flow patterns	Excellent	All flow patterns present
Streambank conditions	Good	Lots of tree cover despite presence of multi-flora rose
Riparian conditions and disturbances	Excellent – Good	Natural buffer largely intact, tho' narrower near residences, some mowing but not to edge of creek, understory dominated by mfr
Biodiversity	Excellent - Good	
Overall Visual Assessment Rating	Good	Overall a good naturalized site, some residential management of native plants in riparian buffer

Site 2:

Criteria	Findings	Notes:
Location	Buhman Rd & Schultz Bridge Rd	Narrow strip of mown lawn between road and creek
Invasive/Exotic Vegetation	Good - Marginal	Primarily multi-flora rose(mfr) Purple Loosestrife
Instream cover	Excellent	Except for eroded area along mowed frontage
Particulate/sediments	Good - Marginal	Deep areas of sandy gravel bars

Flow patterns	Excellent	All flow patterns present
Streambank conditions	Good	Lots of tree cover despite presence of multi-flora rose
Riparian conditions and disturbances	Good - Marginal	Good buffer along pasture, mown grass along severely eroded & slumping area, deep forest opposite eroded area, adjacent intact wetland
Biodiversity	Excellent	
Overall Visual Assessment Rating	Good	Frontage along Schultz Bridge Road shows significant erosion and slumping of the bank

Site 3:

Criteria	Findings	Notes:
Location	Palm Rd @ PPL Sub-station	Large electric sub-station as well as railroad bridge
Invasive/Exotic Vegetation	Good	Primarily Japanese honeysuckle & grape vine
Instream cover	Marginal	Lots of silt
Particulate/sediments	Marginal - Poor	Heavy siltation, very little cobble and larger stones
Flow patterns	Good	Lacking fast/deep sections
Streambank conditions	Good	Minimal trees, needs shade
Riparian conditions and disturbances	Good - Marginal	PPL easement maintenance allowing taller shrubs to grow, Sub-station limits number & height of potential trees
Biodiversity	Excellent	Very diverse shrub and herbaceous layer
Overall Visual Assessment Rating	Good - Marginal	Biodiversity good tho' insufficient tree cover and shade, heavy siltation of streambed.

Site 4: King's Highway at Schultz Bridge Rd – Evaluation not conducted due to bridge reconstruction

Site 5:

Criteria	Findings	Notes:
Location	Scout Rd and School House Rd	Primarily a residential lawn with narrow creek running through
Invasive/Exotic Vegetation	Good - Marginal	No invasives in lawn area, pasture and natural areas have multi-flora rose
Instream cover	Marginal	Mostly small gravel in lawn area, larger diversity of cover in non-lawn areas.
Particulate/sediments	Good	Sandy sediments but not too fine
Flow patterns	Good	Lacking deep/fast segments
Streambank conditions	Marginal - Poor	Erosion within the mown lawn areas, erosion upstream of lawn, less downstream.
Riparian conditions and disturbances	Marginal	Mown lawn to edge of creek, pasture not mown recently but animal access to creek.
Biodiversity	Good – Marginal	Large area of lawn reduces biodiversity
Overall Visual Assessment Rating	Marginal	Main issue – mowing to edge of creek bank

Site 6:

Criteria	Findings	Notes:
Location	Limeport Rd, School House Ln & Spring Rd	PPL power lines cross this area
Invasive/Exotic Vegetation	Good - Marginal	Primarily multi-flora rose (mfr)
Instream cover	Good	Good variety of large & small stones, some sedimentation
Particulate/sediments	Good	Clay stream bottom, little silt

Flow patterns	Excellent	All flow patterns present
Streambank conditions	Good - Marginal	Mostly stable with some areas of deeply eroded banks, esp under PPL right of way.
Riparian conditions and disturbances	Good - Marginal	Mowing under right of way, footing for PPL tower eroding, intact adjacent wetland
Biodiversity	Good - Marginal	
Overall Visual Assessment Rating	Good - Marginal	Some significant eroded areas,
NOTE: A rusty orange discharge was noted at several locations. Additional investigation indicates that it is probably one of a small group of Iron Bacteria (Ferrobacillus, Gallionella, Thiobacillus, Leptothrix and Sphaerotilus) that pose no environmental harm.		

Site 7:

Criteria	Findings	Notes:
Location	King's Hwy & Vera Cruz Rd	Residential backyards along Vera Cruz
Invasive/Exotic Vegetation	Good - Marginal	Primarily multi-flora rose(mfr) Japanese honeysuckle
Instream cover	Excellent	
Particulate/sediments	Good - Marginal	Lots of silt, few rocks visible
Flow patterns	Excellent	All flow patterns present
Streambank conditions	Excellent - Good	Lots of tree cover along west side of creek and below King's Hwy, erosion noted near lawns
Riparian conditions and disturbances	Good	Good buffer along most of creek frontage, lawns mown to edge in backyards
Biodiversity	Excellent	
Overall Visual Assessment Rating	Good	Main issue is mown grass to stream edge

Site 8:

Criteria	Findings	Notes:
Location	Dillingersville Rd	Small headwaters tributary, Agricultural fields adjacent
Invasive/Exotic Vegetation	Good - Marginal	Primarily multi-flora rose, honeysuckle and grape vine, good intact upland oak forest adjacent
Instream cover	Good	Visibility limited by multi-flora rose
Particulate/sediments	Excellent – Good	Upstream of road very good, downstream segment inaccessible due to multi-flora rose.
Flow patterns	Marginal	No slow/deep or fast/deep segments however, this is a very small headwaters creek.
Streambank conditions	Excellent - Good	Lots of tree cover despite presence of multi-flora rose, difficult to see streambanks downstream.
Riparian conditions and disturbances	Good	Good buffer intact along ag fields, intact oak forest along upstream segment.
Biodiversity	Good	Lots of competition from invasive plant species.
Overall Visual Assessment Rating	Good	Good riparian buffer tho' heavily laden with multi-flora rose.

Site 9:

Criteria	Findings	Notes:
Location	Limeport Pike & Spinnerstown Rd	Small, residential horse farm adjacent
Invasive/Exotic Vegetation	Good - Marginal	Primarily multi-flora rose and Japanese honeysuckle
Instream cover	Excellent	Small stream, some siltation but mostly pretty good
Particulate/sediments	Good	Most sediments noted under the bridge

Flow patterns	Good	Lacking slow/shallow segments
Streambank conditions	Good	Lots of tree cover despite presence of multi-flora rose
Riparian conditions and disturbances	Good	Some erosion under multi-flora rose areas, riparian buffer mostly intact near horse pasture, mostly wide buffer except where Limeport Pike comes close to creek.
Biodiversity	Good	Lots of multi-flora rose and honeysuckle
Overall Visual Assessment Rating	Good	Invasives are an issue but pasture has small, dedicated livestock access with intact buffer adjacent.

Site 10A

Criteria	Findings	Notes:
Location	Elementary Road	Adjacent to elementary school
Invasive/Exotic Vegetation	Marginal	Very dense multi-flora rose, esp adjacent to school grounds
Instream cover	Good	Larger boulders are not evident
Particulate/sediments	Good	Few noted areas of sedimentation
Flow patterns	Marginal	Lacking slow/shallow and fast/deep segments
Streambank conditions	Good	Lots of tree cover despite presence of multi-flora rose
Riparian conditions and disturbances	Excellent - Good	Deep buffer maintained throughout, esp adjacent to school, small foot path noted through buffer to creek
Biodiversity	Good	Multi-flora and honeysuckle crowd out other species
Overall Visual Assessment Rating	Good	Primary issue is invasives, esp multi-flora rose.