

Stream Assessment

Date	
Data Collected by	
Location	
Lat/Lon	
Stream Name and River Basin	
Physiographic Province	
Valley (<i>alluvial, colluvial, confined</i>)	
Stream Order (<i>1, 2, 3, 4, etc</i>)	
Streambed (<i>sand, gravel, bedrock</i>)	
Streambank Soils (<i>clay, sand, gravel</i>)	
Streambank Vegetation	
Floodplain Connection	
Floodplain Soils	
Floodplain Vegetation	
Valley Constraints (<i>roads, culverts, etc</i>)	
Watershed Land Cover	
Watershed Land Use	
Channel Incision	
Bankfull Stage Indicators	
Stream Type	
Drainage Area, DA (sq mi)	
Bkf Discharge, Q_{bkf} (cfs)	
Length Valley, L_{val} (ft)	
Elev Change Valley, $\Delta Elev_{val}$ (ft)	
Slope Valley, S_{val} (ft/ft)	
Length Thalweg, L_{tw} (ft)	
Elev Change Thalweg, $\Delta Elev_{tw}$ (ft)	
Slope Channel Average, S_{ave} (ft/ft)	
Sinuosity, $K=L_{tw}/L_{val}$ (ft/ft)	

Stream Survey Data Summary

Parameter	Values				
Bkf XSEC Area, A_{bkf} (sq ft)					
Bkf Width, W_{bkf} (ft)					
Bkf Mean Depth, D_{bkf} (ft)					
Width to Depth Ratio, $[W/D]$					
Bkf Max Depth, D_{max} (ft)					
Max Depth Top of Bank, D_{tob} (ft)					
Bank Height Ratio, $[D_{tob}/D_{max}]$					
Width Flood Prone Area, W_{fpa} (ft)					
Entrenchment Ratio, $[W_{fpa}/W_{bkf}]$					
Meander Length, L_m (ft)					
Radius of Curvature, R_c (ft)					
Meander Belt Width, W_{blt} (ft)					
Riffle Slope, S_{rif} (ft/ft)					
Riffle Length, L_{rif} (ft)					
Pool Slope, S_{pool} (ft/ft)					
Pool Area, A_{pool} (sq ft)					
Pool Depth, D_{pool} (ft)					
Pool Width, W_{pool} (ft)					
Pool Length, L_{pool} (ft)					
Pool Spacing, Z_{pool} (ft)					
Run Slope, S_{run} (ft/ft)					
Glide Slope, S_{glide} (ft/ft)					
d16 (mm)					
d35 (mm)					
d50 (mm)					
d84 (mm)					
d100 (mm)					
Mannings n roughness coefficient					

Pebble Count

Site _____ Date _____

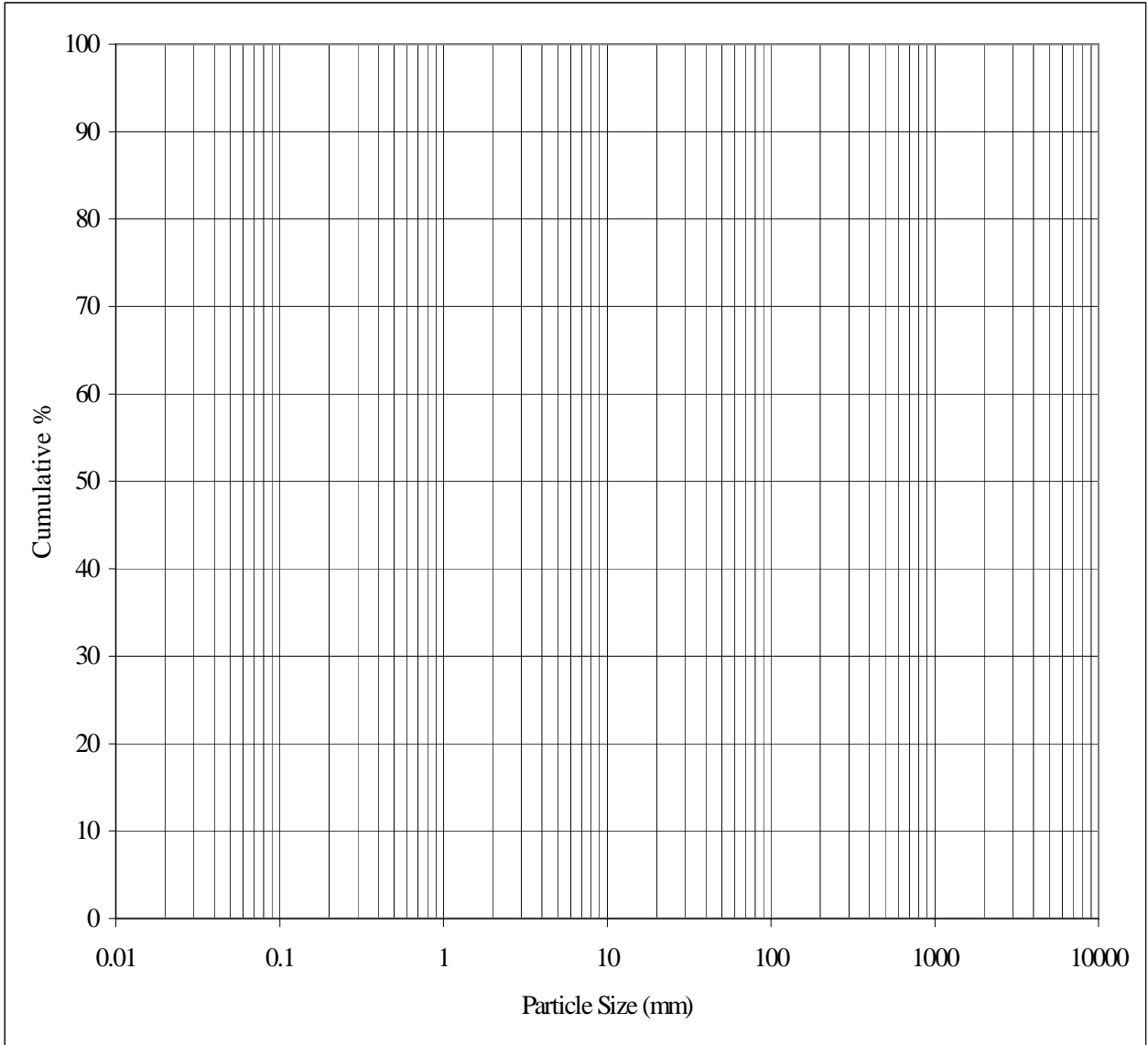
Survey Crew _____

Particle	Description	Size (mm)	Particle Count				%	Cum %
			Riffle	Pool	Other	Total		
Silt/Clay	Silt/Clay	< 0.062						
Sand	Very Fine	0.062 – 0.125						
	Fine	0.125 – 0.25						
	Medium	0.25 – 0.5						
	Coarse	0.5 – 1.0						
	Very Coarse	1.0 – 2.0						
Gravel	Very Fine	2.0 – 4.0						
	Fine	4.0 – 5.7						
	Fine	5.7 – 8.0						
	Medium	8.0 – 11.3						
	Medium	11.3 – 16.0						
	Coarse	16.0 – 22.6						
	Coarse	22.6 – 32						
	Very Coarse	32 – 45						
	Very Coarse	45 – 64						
Cobble	Small	64 – 90						
	Small	90 – 128						
	Large	128 – 180						
	Large	180 – 256						
Boulder	Small	256 – 362						
	Small	362 – 512						
	Medium	512 – 1024						
	Large	1024 – 2048						
Bedrock	Bedrock	> 2048						
Total								

Pebble Count

Site _____ Date _____

Survey Crew _____



Bank Erosion Hazard Index

Site _____ Date _____

Survey Crew _____

Category		Bank Ht Ratio (ft/ft)	Root Depth Ratio (%)	Root Density (%)	Bank Angle (degrees)	Surface Protection (%)	Total Index
Very Low	Value	1.0 – 1.1	100 – 80	100 – 80	0 – 20	100 – 90	
	Index	1 – 2	1 – 2	1 – 2	1 – 2	1 – 2	< 10
Low	Value	1.1 – 1.2	80 – 55	80 – 55	20 – 60	90 – 50	
	Index	2 – 4	2 – 4	2 – 4	2 – 4	2 – 4	10 – 20
Moderate	Value	1.2 – 1.5	55 – 30	55 – 30	60 – 80	50 – 30	
	Index	4 – 6	4 – 6	4 – 6	4 – 6	4 – 6	20 – 30
High	Value	1.5 – 2.0	30 – 15	30 – 15	80 – 90	30 – 15	
	Index	6 – 8	6 – 8	6 – 8	6 – 8	6 – 8	30 – 40
Very High	Value	2.0 – 2.8	15 – 5	15 – 5	90 – 120	15 – 5	
	Index	8 – 9	8 – 9	8 – 9	8 – 9	8 – 9	40 – 45
Extreme	Value	> 2.8	< 5	< 5	> 120	< 5	
	Index	10	10	10	10	10	> 45
Field Measure	Value						
	Index						

Total Field Index _____

Numerical Adjustments _____

- Bedrock: BEHI Very Low
- Boulders: BEHI Low
- Cobble: Decrease by one category if gravel/sand less than 50%
- Gravel: Adjust Index up 5 – 10 points depending on sand %
- Sand: Adjust Index up 10 points
- Silt/Clay: No Adjustment
- Stratification: Adjust Index up 5 – 10 points depending on position of unstable layers in relation to bankfull stage

Adjusted BEHI _____

