

bounded on river right by incised bedrock face.



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SITE 10	Location (UTM): 0484830N, 5097384 E	Man By: Caldwell D & Hestir E
Date/Time: 06/25/07, 09:30	River: Grande Ronde River	Map by. Galdwell, D. & Hestir, E.

Site Description: A long, straight reach of the river was surveyed. The channel is bedrock dominated, and enclosed by steep canyon walls. Due to the constriction of the channel, flow velocity was high. A small spring, lined with a narrow corridor of riparian vegetation, enters the Grande Ronde on river left, however, due to its size and location, it contributes little (hydrogeomorphically) to the river.



Geomorphic Surface	Grain Size	
AC-Active Channel BR-Bedrock LB-Lateral Bar HS-Hillslope	F = Fines S = Sand (< 2mm) G = Gravel (2-64mm) C = Cobble (64-256mm) B = Boulder (>256mm)	Geomorphic Unit Boundary ↓ · · · · · Vegetation Large Woody Debris Fish Sample Location ▲ F ₁ Invertebrate Sample Location ● I ₁ Water Quality Sample Location ★ Z ₁





Geomorphic Surface	Grain Size		
AC-Active Channel BR-Bedrock LB-Lateral Bar FP-Floodplain HS-Hillslope	F = Fines S = Sand (< 2mm) G = Gravel (2-64mm) C = Cobble (64-256mm) B = Boulder (>256mm)	Geomorphic Unit Boundary Geomorphic Unit Boundary Vegetation Large Woody Debris Fish Sample Location Invertebrate Sample Location Water Quality Sample Location ★ Z ₁	15 meters

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SITE 12	Location (UTM): 0499588N, 5099940 E		
Date/Time: 06/26/07, 11:30	River: Joseph Creek-Grande Ronde River Confluence	Map By: Caldwell, D. & Hestir, E.	

Site Description: Along the surveyed stretch of the Grande Ronde River, Joseph Creek is the third-most significant tributary. Although we surveyed this site during low flows, Joseph Creek provided a significant discharge. The confluence produces a large fan-eddy complex with two major active channels, and large fan surfaces occupied by riparian vegetation. Sand and gravel eddy bars are located above and below the protrusion of the creek fan. The survey site is dominated by incised bedrock surfaces and steep hillslopes.



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Geomorphic Surface	Grain Size		
AC-Active Channel		Geomorphic Unit Boundary	
BR-Bedrock	F = Fines	Vegetation	
📃 LB-Lateral Bar	S = Sand (< 2mm)	Fish Sample Location	
EB-Eddy Bar	G = Gravel (2-64 mm)	Invertebrate Sample Location	
CF-Confluence Fan	C = Cobble (64-256 mm)	Water Quality Sample Location 🛧 Z ₁	15 meters
🗖 FP-Floodplain	B = Boulder (>256 mm)		
HS-Hillslope			