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Memo

To: Brad Johnson, HDR	
From: John Koreny, HDR	Project: WRIA 35 Phase II Asotin and Alpowa Creek Sub-Basins Hydrogeology Assessment
CC: Ben Floyd, Dave Minner, Kevin Lindsay	
Date: October 13, 2008	Job No: 79143

RE: Field Report: Seepage Run Field Assessment

This is a field report of the seepage run stream gaging conducted in late September 2008 in the Alpowa and Asotin Creek basins by HDR. Stream gaging was conducted on Asotin Creek, North Fork Asotin Creek, South Fork Asotin Creek, Alpowa Creek, Charley Creek, George Creek, Mill Creek and Tenmile Creek from September 15 to September 25, 2008 over a period of about 11 days (including mobilization and demobilization). Stream flow measurements were recorded every mile or less along the river. Where tributaries flowed into the river, the tributary flow was measured and the river mainstem was measured above and below the tributary confluence.

Asotin Creek
The mainstem of Asotin Creek was measured at 21 cross sections, including 4 tributaries (George Creek, Charley Creek, North Fork Asotin Creek and South Fork Asotin Creek). There was only one irrigation diversion at the city park. North Fork of Asotin Creek was measured 5 cross sections while the South Fork of Asotin Creek was measured at 7 cross sections.

Alpowa Creek
Alpowa Creek was sampled at 18 cross sections and one irrigation diversion was observed around river mile 9.5.

Charley Creek and George Creek
Stream gaging was performed on Charley Creek at 10 locations and George Creek at 16 locations (including Pintler Creek).

Mill Creek and Tenmile Creek
Mill Creek at 9 locations and Tenmile Creek (including Mill Creek) at 16 locations. Portions of George Creek and Tenmile Creek were dry. Mill creek was observed to have very little flow.

Analysis of the data is on-going. Preliminary analysis of the data indicates that the stream gaging accuracy is sufficient to establish the amount of ground water inflow into and out of the creek basins.