

Figure C-1
 Water-level altitude (2004),
 general groundwater flow direction,
 and well hydrographs

Figure Explanation

- Map Legend**
- Water level data point used for contour development
 - April 2004
 - May 2004
 - October 2004
 - 130 Potentiometric Contour Altitude in Feet above NAVD88
 - Approximate Groundwater Flow Direction
 - Transducer
 - USGS Gaging Station
- Hydrograph Legend**
- Hand Measurement
 - Transducer Measurement
 - ◇ Transducer measurement indicating water level above top of well casing
 - Chehalis River Stage (12027500)
 - Newaukum River stage (12025000)

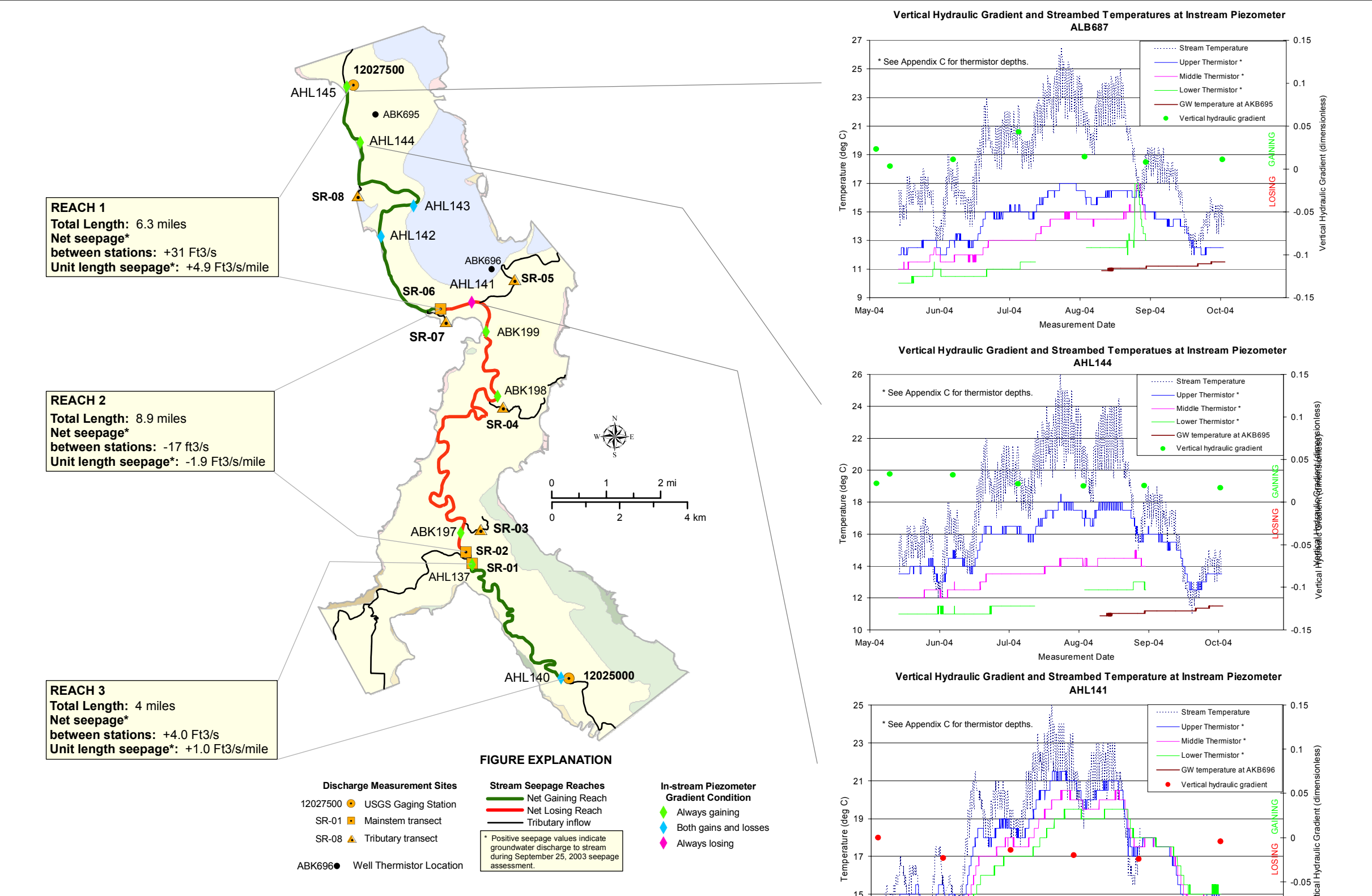


Figure C-2
 Seepage Evaluation and Thermistor Results

Table C-1
 Seepage Evaluation Water Budget – September 25, 2003

Reach name & length	Measurement station	River miles above USGS Gage Station 12027500	Description	Measured discharge (ft ³ /sec)	Net gain or loss between stations (ft ³ /sec)	Unit length seepage gain or loss (ft ³ /sec/mi)	Certificated diversions (ft ³ /sec)	Corrected net gain or loss between stations (accounting for certificated diversions) (ft ³ /sec)	Assumed measurement error (%)	Error adjusted minimum discharge (ft ³ /sec)	Error adjusted maximum discharge (ft ³ /sec)	Net gain or loss uncertainty range (cumulative measurement error) (ft ³ /sec)
Reach 1 6.3 mi	12027500	0.0	USGS Gage Station 12027500	211 ^(a)								
	SR-08	1.9	Lincoln Creek near mouth	0.75	+31	+4.9	2.5	+37	±5	170	222	+11 to +51
	SR-07	5.9	Scammon Creek at Cooks Hill Road	0.23			3.6		±5	0.22	0.24	
	SR-06	6.3	Chehalis R. below Borst Pt.	179			0.01		±5	170	188	
	SR-05	7.0	Skookumchuck R. at Riverside Park (Replicate)	93					±5	88	98	
	SR-04	9.3	Sazer Creek below 15	0.38	-17	-1.9	6.0	-8.7	±8	0.35	0.41	-36 to +2
Reach 2 8.9 mi	SR-04	9.3	Sazer Creek below 15	0.38	-17	-1.9	6.0	-8.7	±8	0.35	0.41	-36 to +2
	Discharge 1	7.4	Permitted discharge to surface water	1.8			0.07		±2	1.8	1.8	
	Discharge 2	14.4	Permitted discharge to surface water	0.45					±2	0.44	0.46	
	Discharge 3	14.5	Permitted discharge to surface water	1.3					±2	1.3	1.3	
	SR-03	14.5	Dilembaugh Creek below 1.5	0.90			0.15		±8	0.83	0.97	
Reach 3 4.0 mi	SR-02	15.2	Chehalis River at BSA Camp (Replicate)	98					±5	93	103	
	SR-01	15.4	Newaukum R. at Shorey Road Bridge	35	+4.0	+1.0	7.6	+12	±5	33	37	0 to +8
	12025000	19.4	USGS Gage Station 12025000	31 ^(a)					±8	29	33	

^(a) Discharge estimate derived from U.S. Geological Survey Data
^(b) Diversion data derived from WDOE Water Resources Program WRATS database

Figure C-3
 Piezometer Hydraulic Gradient Results

