12-4-2009

Ex. 281-US-425

Unknown

Stream: Crooked Creek
Site: WD-3
Date: 5/15/2004
Habitat: Glide **Flow:** Low

(1) Level Loop Survey (BM & HP)

BM/HP (ft)	BS (ft)	HI (ft)	FS (ft)	Elev (ft)
BM	2.91	102.91		100.00
HP1			3.10	99.81
HP2				
HP3			3.45	99.46
TP				
HP3	3.49	102.95		
HP2				
HP1			3.14	99.81
BM			2.95	100.00

Comment: No HP for TR2

(2) Water Surface Elevation (WSE) Survey

TR	Sta L/R bank (ft)	Sta Ave (ft)	HI (ft)	FS (ft)	Rod (ft)	WSE (ft)	Ave WSE (ft)	Q (cfs)
1-L	0	0.00	102.73	5.87	0.00	96.86	96.86	39.2
1-R	0			5.87	0.00	96.86		
2-L	32	75.00	102.95	6.07	0.00	96.88	96.88	37.7
2-R	118			6.08	0.00	96.87		
3-L	134	167.00	102.95	6.05	0.00	96.90	96.90	37.9
3-R	200			6.06	0.00	96.89		
							Ave Q=	38.3

Note: HI for TR1 is 102.73 (instr was moved)
WSE slope = 0.021%

(3) Meter and propeller ID for Velocity Correction

Meter ID: 4099
Propeller ID: 1b

Date: 6/27/2004
Habitat: Glide **Flow:** High

(1) Level Loop Survey

BM/HP (ft)	BS (ft)	HI (ft)	FS (ft)	Elev (ft)
BM	3.56	103.56		100.00
HP1			3.74	99.82
HP2				
HP3			4.09	99.47
TP				
HP3	3.93	103.40		
HP2				
HP1			3.58	99.82
BM			3.40	100.00

Comment: No TR2 HP

(2) Water Surface Elevation (WSE) Survey

TR	Sta L/R bank (ft)	Sta Ave (ft)	HI (ft)	FS (ft)	Rod (ft)	WSE (ft)	Ave WSE (ft)	Q (cfs)
1-L	0	0.00	103.40	6.62	0.00	96.78	96.78	41.3
1-R	0			6.62	0.00	96.78		
2-L	32	75.00	103.40	6.59	0.00	96.81	96.81	40.3
2-R	118			6.60	0.00	96.80		
3-L	134	167.00	103.40	6.57	0.00	96.83	96.83	37.4
3-R	200			6.58	0.00	96.82		
							Ave Q=	39.7

Note: Addit. survey pts d/s of TR1, u/s of TR3
WSE slope = 0.027%

(3) Meter and propeller ID for Velocity Correction

Meter ID: 5750
Propeller ID: 2b

Date: 8/19/2004
Habitat: Glide **Flow:** Mid

(1) Level Loop Survey

BM/HP (ft)	BS (ft)	HI (ft)	FS (ft)	Elev (ft)
BM	3.62	103.62		100.00
HP1			3.79	99.83
HP2				
HP3			4.15	99.47
TP				
HP3	4.22	103.69		
HP2				
HP1			3.86	99.83
BM			3.69	100.00

Comment: No TR2 HP

(2) Water Surface Elevation (WSE) Survey

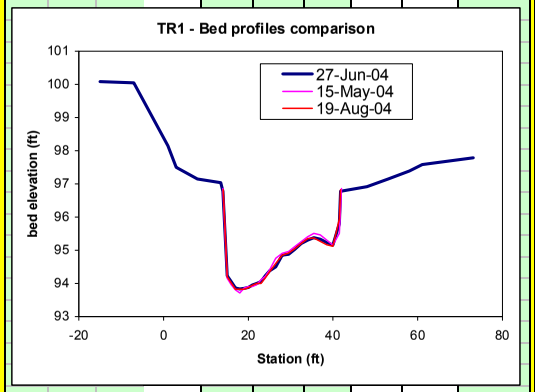
TR	Sta L/R bank (ft)	Sta Ave (ft)	HI (ft)	FS (ft)	Rod (ft)	WSE (ft)	Ave WSE (ft)	Q (cfs)
1-L	0	0.00	103.69	6.87		96.82	96.82	39.7
1-R	0			6.87		96.82		
2-L	32	75.00	103.69	6.86		96.83	96.83	38.7
2-R	118			6.86		96.83		
3-L	134	167.00	103.69	6.85		96.84	96.84	
3-R	200			6.85		96.84		
							Ave Q=	39.2

Note:
WSE slope = 0.012%

(3) Meter and propeller ID for Velocity Correction

Meter ID: 5750
Propeller ID: 2b

Stream:	Crooked Creek		15-May-04										27-Jun-04										19-Aug-04									
Site:	WD-3			Sta	FS	Ground	Depth	Vel (ft/s)			q			Sta	FS	Ground	Depth	Vel (ft/s)			q			Sta	FS	Ground	Depth	Vel (ft/s)			q	
Transect:	1			(ft)	(ft)	(ft)	(ft)	$V_{0.2/0.6}$	$V_{0.8}$	Ave	(cfs)	substrate		(ft)	(ft)	(ft)	(ft)	$V_{0.2/0.6}$	$V_{0.8}$	Ave	(cfs)	substrate		(ft)	(ft)	(ft)	(ft)	$V_{0.2/0.6}$	$V_{0.8}$	Ave	(cfs)	substrate
Habitat:	Glide		RWP											-15.0	3.32	100.08						1.3										
			RWE	14.0		96.86	0.00	0.00		0.00	0.00			-7.0	3.35	100.05						1.3										
Survey	HI	Q		15.0		94.16	2.70	0.10	0.38	0.28	0.76		RWP	1.0	5.25	98.15						1.3										
Date	(ft)	(cfs)		16.0		93.96	2.90	0.63	0.68	0.68	1.97			3.0	5.90	97.50						1.2										
5/15/2004	102.73	39.2		17.0		93.81	3.05	0.82	0.61	0.74	2.26			8.0	6.25	97.15						1.2										
6/27/2004	103.40	41.3		18.0		93.71	3.15	0.70	0.85	0.80	2.53			13.5	6.36	97.04						1.2										
8/19/2004	103.69	39.7		19.0		93.86	3.00	0.72	0.79	0.78	2.35		RWE	14.0		96.78	0.00	0.00		0.00	0.00	1.2	RWE	14.1		96.82	0.00	0.00		0.00	0.00	
				20.0		93.91	2.95	0.72	0.83	0.80	2.37			15.0		94.23	2.55	0.24	0.12	0.22	0.55	3.2		15.0		94.20	2.62	0.16	0.31	0.27	0.67	
				21.0		93.91	2.95	0.72	0.67	0.72	2.13			16.0		94.06	2.72	0.79	0.73	0.77	2.11	3.4		16.0		94.02	2.80	0.71	0.89	0.82	2.28	
				22.0		93.96	2.90	0.69	0.70	0.72	2.09			17.0		93.86	2.92	0.88	0.78	0.85	2.47	3.4		17.0		93.82	3.00	0.79	0.89	0.86	2.57	
				23.0		94.11	2.75	0.68	0.76	0.75	2.05			18.0		93.83	2.95	1.01	0.81	0.93	2.73	3.4		18.0		93.82	3.00	0.85	0.87	0.88	2.63	
				24.0		94.21	2.65	0.79	0.73	0.79	2.09			19.0		93.85	2.93	0.89	0.89	0.91	2.66	3.4		19.0		93.82	3.00	0.77	0.82	0.81	2.43	
				25.0		94.41	2.45	0.76		0.79	2.41			20.0		93.88	2.90	0.87	0.79	0.85	2.45	3.4		20.0		93.87	2.95	0.81	0.84	0.84	2.48	
				26.5		94.76	2.10	0.78		0.81	2.54			21.0		93.95	2.83	0.83	0.80	0.83	2.35	3.4		21.0		93.94	2.88	0.78	0.81	0.81	2.33	
				28.0		94.91	1.95	0.77		0.80	2.33			22.0		94.00	2.78	0.84	0.84	0.86	2.38	3.4		22.0		94.00	2.82	0.82	0.75	0.80	2.26	
				29.5		94.96	1.90	0.70		0.73	2.07			23.0		94.06	2.72	0.85	0.84	0.86	2.34	3.4		23.0		94.00	2.82	0.78	0.70	0.75	2.13	
				31.0		95.11	1.75	0.62		0.64	1.69			24.0		94.23	2.55	0.81	0.84	0.84	2.14	3.4		24.0		94.17	2.65	0.87	0.73	0.82	2.16	
				32.5		95.26	1.60	0.65		0.67	1.62			25.0		94.38	2.40	0.86		0.88	2.63	3.4		25.0		94.35	2.47	0.83		0.85	2.61	
				34.0		95.41	1.45	0.61		0.63	1.38			26.5		94.50	2.28	0.85		0.87	2.96	3.3		26.5		94.60	2.22	0.85		0.87	2.88	
				35.5		95.51	1.35	0.56		0.58	1.18			28.0		94.85	1.93	0.85		0.87	2.51	3.3		28.0		94.85	1.97	0.80		0.82	2.41	
				37.0		95.46	1.40	0.46		0.48	1.01			29.5		94.88	1.90	0.81		0.83	2.35	3.3		29.5		94.92	1.90	0.83		0.85	2.41	
				38.5		95.31	1.55	0.30		0.33	0.77			31.0		95.03	1.75	0.75		0.76	2.01	3.2		31.0		95.05	1.77	0.76		0.77	2.06	
				40.0		95.16	1.70	0.60		0.62	1.59			32.5		95.20	1.58	0.70		0.71	1.69	3.2		32.5		95.20	1.62	0.71		0.72	1.76	
			*	41.5		95.51	1.35	0.05		0.05	0.07			34.0		95.31	1.47	0.65		0.67	1.47	3.2		34.0		95.35	1.47	0.58		0.60	1.32	
			LWE	42.0		96.86	0.00	0.00		0.00	0.00			35.5		95.38	1.40	0.68		0.70	1.46	3.2		35.5		95.37	1.45	0.21		0.25	0.53	
			LWP											37.0		95.33	1.45	0.51		0.53	1.16	3.2		37.0		95.27	1.55	0.42		0.44	1.03	
														38.5		95.23	1.55	0.06		0.10	0.24	3.2		38.5		95.17	1.65	0.25		0.28	0.70	
														40.0		95.16	1.62	0.25		0.28	0.69	3.2		40.0		95.12	1.70	0.01		0.02	0.04	
													*	41.5		95.80	0.98	-0.03		-0.03	-0.03	1.2		41.5		95.94	0.88	0.00		0.01	0.01	
													LWE	41.8		96.78	0.00	0.00		0.00	0.00	1.2	LWE	41.8		96.82	0.00	0.00		0.00	0.00	
						* = Velocity Estimated								43.0	6.59	96.81						2.1										
														48.0	6.48	96.92						1.2										
														53.0	6.25	97.15						1.2										
														58.0	6.01	97.39						1.2										
													LWP	61.1	5.82	97.58						1.2										
														73.1	5.61	97.79						1.2										
														* = Velocity Estimated																		



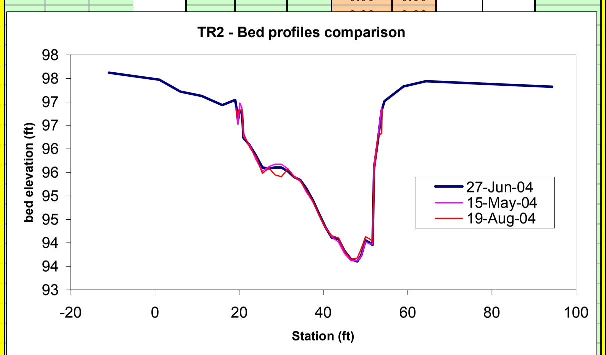
Stream:	Crooked Creek
Site:	WD-3
Transect:	2
Habitat:	Glide

Survey Date	HI (ft)	Q (cfs)
5/15/2004	102.95	37.7
6/27/2004	103.40	40.3
8/19/2004	103.69	38.7

15-May-04

	Sta (ft)	FS (ft)	Ground (ft)	Depth (ft)	Vel (ft/s) $V_{0.2/0.6}$	$V_{0.8}$	$NV_{0.2/0.6}$	$NV_{0.8}$	Ave	q (cfs)	substrate
RWP							0.00	0.00			
RWE	19.2		96.88	0.00	0.00		0.00	0.00	0.00	0.00	
	19.7		96.53	0.35	0.01		0.02	0.00	0.01	0.00	
	20.1		96.98	-0.10			0.00	0.00			
	20.6		96.88	0.00	0.00		0.00	0.00	0.00	0.00	
	21.0		96.28	0.60	0.01		0.02	0.00	0.01	0.01	
	22.5		96.08	0.80	0.17		0.21	0.00	0.21	0.25	
	24.0		95.78	1.10	0.40		0.42	0.00	0.42	0.70	
	25.5		95.53	1.35	0.44		0.46	0.00	0.46	0.94	
	27.0		95.63	1.25	0.41		0.43	0.00	0.43	0.81	
	28.5		95.68	1.20	0.48		0.50	0.00	0.50	0.90	
	30.0		95.68	1.20	0.54		0.56	0.00	0.56	1.01	
	31.5		95.58	1.30	0.59		0.61	0.00	0.61	1.19	
	33.0		95.43	1.45	0.63		0.65	0.00	0.65	1.42	
	34.5		95.33	1.55	0.58		0.60	0.00	0.60	1.40	
	36.0		95.08	1.80	0.60		0.62	0.00	0.62	1.68	
	37.5		94.88	2.00	0.65		0.67	0.00	0.67	2.02	
	39.0		94.58	2.30	0.73		0.76	0.00	0.76	2.61	
	40.5		94.33	2.55	0.75	0.69	0.78	0.72	0.75	2.85	
	42.0		94.13	2.75	0.76	0.65	0.79	0.67	0.73	3.01	
	43.5		94.03	2.85	0.76	0.68	0.79	0.71	0.75	3.19	
	45.0		93.78	3.10	0.80	0.71	0.83	0.74	0.78	3.64	
	46.5		93.63	3.25	0.83	0.75	0.86	0.78	0.82	3.99	
	48.0		93.63	3.25	0.83	0.75	0.86	0.78	0.82	3.32	
	49.0		93.73	3.15	0.18	0.79	0.22	0.82	0.52	1.63	
*	50.0		94.03	2.85	-0.05	0.69	-0.05	0.72	0.33	0.95	
*	51.0		93.98	2.90	-0.05	0.09	-0.05	0.14	0.05	0.12	
	51.7		93.98	2.90	0.01		0.02	0.00	0.01	0.01	
	52.0		95.68	1.20	0.01		0.02	0.00	0.01	0.01	
	53.0		96.28	0.60	0.01		0.02	0.00	0.01	0.01	
LWE	53.8		96.88	0.00	0.00		0.00	0.00	0.00	0.00	
LWP							0.00	0.00			
							0.00	0.00			
							0.00	0.00			
							0.00	0.00			
							0.00	0.00			
							0.00	0.00			
							0.00	0.00			
							0.00	0.00			
							0.00	0.00			
							0.00	0.00			
							0.00	0.00			

* = Velocity Estimated



27-Jun-04

	Sta (ft)	FS (ft)	Ground (ft)	Depth (ft)	Vel (ft/s) $V_{0.2/0.6}$	$V_{0.8}$	Ave	q (cfs)	substrate
	-11.0	5.78	97.62						1.3
RWP	1.0	5.93	97.47						1.3
	6.0	6.18	97.22						1.3
	11.0	6.27	97.13						1.2
	16.0	6.47	96.93						1.2
	19.0	6.36	97.04						1.2
RWE	19.5		96.81	0.00	0.00		0.00	0.00	2.1
	19.7		96.61	0.20	0.01		0.01	0.00	2.1
	20.1		96.81	0.00	0.00		0.00	0.00	1.2
	20.6		96.81	0.00	0.00		0.00	0.00	1.2
	21.0		96.24	0.57	0.01		0.01	0.01	2.1
*	22.5		96.08	0.73	0.05		0.05	0.05	2.3
*	24.0		95.86	0.95	0.01		0.01	0.01	2.3
	25.5		95.61	1.20	0.42		0.44	0.80	2.3
	27.0		95.59	1.22	0.62		0.64	1.17	2.3
	28.5		95.61	1.20	0.61		0.63	1.13	2.3
	30.0		95.61	1.20	0.78		0.80	1.43	2.3
	31.5		95.53	1.28	0.63		0.65	1.24	2.3
	33.0		95.41	1.40	0.65		0.67	1.40	2.3
	34.5		95.34	1.47	0.70		0.71	1.57	3.2
	36.0		95.16	1.65	0.71		0.72	1.79	3.2
	37.5		94.91	1.90	0.77		0.79	2.24	3.2
	39.0		94.61	2.20	0.81		0.83	2.72	3.2
	40.5		94.34	2.47	0.88		0.90	3.32	2.3
	42.0		94.11	2.70	0.79	0.89	0.86	3.47	2.3
	43.5		94.09	2.72	0.76	0.83	0.81	3.31	2.3
	45.0		93.84	2.97	0.85	0.85	0.87	3.86	3.2
	46.5		93.66	3.15	0.90	0.85	0.89	4.21	3.2
	48.0		93.61	3.20	0.93	0.83	0.90	3.59	3.4
	49.0		93.74	3.07	0.82	0.41	0.64	1.95	3.4
	50.0		94.06	2.75	0.71	-0.04	0.33	0.90	3.2
	51.0		94.01	2.80	-0.03	0.07	0.03	0.08	3.2
	51.7		93.96	2.85	0.01	0.01	0.01	0.01	3.2
	52.0		95.61	1.20	0.01		0.01	0.01	2.1
	53.0		96.21	0.60	0.01		0.01	0.01	1.2
LWE	53.8		96.81	0.00	0.00		0.00	0.00	2.1
	54.5	6.38	97.02						1.2
	59.0	6.07	97.33						1.2
LWP	64.3	5.96	97.44						1.2
	94.3	6.08	97.32						

* = Velocity Estimated

19-Aug-04

	Sta (ft)	FS (ft)	Ground (ft)	Depth (ft)	Vel (ft/s) $V_{0.2/0.6}$	$V_{0.8}$	$NV_{0.2/0.6}$	$NV_{0.8}$	Ave	q (cfs)	substrate
							0.00	0.00			
							0.00	0.00			
							0.00	0.00			
							0.00	0.00			
							0.00	0.00			
							0.00	0.00			
RWE	19.3		96.83	0.00	0.00		0.00	0.00	0.00	0.00	
	19.5		96.68	0.15	0.01		0.02	0.00	0.02	0.00	
	19.8		96.83	0.00	0.01		0.02	0.00	0.02	0.00	
	20.7		96.83	0.00	0.00		0.00	0.00	0.00	0.00	
	21.0		96.33	0.50	0.00		0.00	0.00	0.00	0.00	
*	22.5		96.03	0.80	0.03		0.05	0.00	0.03	0.04	
	24.0		95.83	1.00	0.36		0.39	0.00	0.39	0.58	
	25.5		95.48	1.35	0.44		0.46	0.00	0.46	0.94	
	27.0		95.60	1.23	0.55		0.57	0.00	0.57	1.05	
	28.5		95.45	1.38	0.60		0.62	0.00	0.62	1.28	
	30.0		95.41	1.42	0.58		0.60	0.00	0.60	1.28	
	31.5		95.58	1.25	0.72		0.73	0.00	0.73	1.38	
	33.0		95.41	1.42	0.73		0.74	0.00	0.74	1.59	
	34.5		95.31	1.52	0.74		0.75	0.00	0.75	1.72	
	36.0		95.11	1.72	0.68		0.70	0.00	0.70	1.79	
	37.5		94.88	1.95	0.62		0.64	0.00	0.64	1.87	
	39.0		94.58	2.25	0.74		0.75	0.00	0.75	2.55	
	40.5		94.31	2.52	0.78	0.67	0.80	0.69	0.74	2.80	
	42.0		94.15	2.68	0.83	0.63	0.85	0.65	0.75	3.00	
	43.5		94.11	2.72	0.87	0.70	0.89	0.71	0.80	3.27	
	45.0		93.83	3.00	0.81	0.82	0.83	0.84	0.83	3.74	
	46.5		93.65	3.18	0.89	0.85	0.91	0.87	0.89	4.23	
	48.0		93.68	3.15	0.70	0.81	0.71	0.83	0.77	3.03	
	49.0		93.88	2.95	0.27	0.78	0.30	0.80	0.55	1.62	
*	50.0		94.13	2.70	0.05	0.56	0.05	0.58	0.32	0.85	
*	51.0		94.08	2.75	-0.05	-0.05	0.05	0.05	0.05	0.12	
	51.7		94.03	2.80	0.01		0.02	0.00	0.01	0.01	
	52.0		95.51	1.32	0.01		0.02	0.00	0.01	0.01	
	53.0		96.28	0.55	0.01		0.02	0.00	0.01	0.00	
	53.8		96.33	0.50	0.01		0.02	0.00	0.01	0.00	
LWE	54.0		96.83	0.00	0.00		0.00	0.00	0.00	0.00	
							0.00	0.00			
							0.00	0.00			
							0.00	0.00			
							0.00	0.00			
							0.00	0.00			
							0.00	0.00			
							0.00	0.00			
							0.00	0.00			
							0.00	0.00			
							0.00	0.00			
							0.00	0.00			
							0.00	0.00			
							0.00	0.00			
							0.00	0.00			
							0.00	0.00			
							0.00	0.00			
							0.00	0.00			
							0.00	0.00			
							0.00	0.00			
							0.00	0.00			
							0.00	0.00			
							0.00	0.00			
							0.00	0.00			

* = Velocity Estimated

Stream:	Crooked Creek	
Site:	WD-3	
Transect:	3	
Habitat:	Glide	
Survey Date	HI (ft)	Q (cfs)
5/15/2004	102.95	37.9
6/27/2004	103.40	37.4
8/19/2004	103.69	

15-May-04

	Sta (ft)	FS (ft)	Ground (ft)	Depth (ft)	Vel (ft/s) $V_{0.2/0.6}$	Vel (ft/s) $V_{0.8}$	Vel (ft/s) Ave	q (cfs)	substrate
RWP									
RWE	12.0		96.90	0.00	0.00		0.00	0.00	
	14.0		96.85	0.05	0.01		0.01	0.00	
	15.0		96.80	0.10	0.01		0.01	0.00	
	16.0		96.60	0.30	0.01		0.01	0.00	
	17.0		96.40	0.50	0.01		0.01	0.01	
	18.0		95.90	1.00	0.05		0.12	0.12	
	19.0		95.85	1.05	0.34		0.37	0.39	
	20.0		95.90	1.00	0.56		0.58	0.73	
	21.5		95.70	1.20	0.76		0.79	1.42	
	23.0		95.45	1.45	0.90		0.93	2.02	
	24.5		95.15	1.75	0.91		0.94	2.47	
	26.0		94.70	2.20	0.77		0.80	2.63	
	27.5		94.40	2.50	0.65	0.92	0.81	3.05	
	29.0		94.25	2.65	0.83	0.65	0.77	3.05	
	30.5		93.80	3.10	0.80	0.40	0.63	2.91	
	32.0		93.35	3.55	0.71	0.46	0.61	3.24	
	33.5		93.20	3.70	0.67	0.10	0.42	2.36	
	35.0		93.30	3.60	0.66	0.16	0.44	2.39	
	36.5		93.60	3.30	0.58	0.19	0.42	2.06	
	38.0		93.70	3.20	0.61	0.24	0.45	1.82	
	39.0		94.10	2.80	0.61	0.25	0.46	1.93	
	41.0		94.55	2.35	0.45		0.47	1.94	
	42.5		94.70	2.20	0.54		0.56	1.85	
	44.0		95.15	1.75	0.32		0.35	0.92	
	45.5		95.60	1.30	0.28		0.31	0.55	
LWE	46.7		96.20	0.70	0.11		0.16	0.07	
LWP									

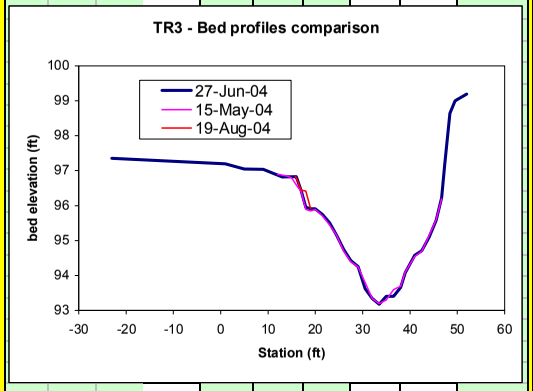
27-Jun-04

	Sta (ft)	FS (ft)	Ground (ft)	Depth (ft)	Vel (ft/s) $V_{0.2/0.6}$	Vel (ft/s) $V_{0.8}$	Vel (ft/s) Ave	q (cfs)	substrate
	-23.0	5.60	97.35						1.3
RWP	1.0	6.20	97.20						1.3
	5.0	6.35	97.05						1.2
	9.0	6.36	97.04						1.2
	13.0	6.58	96.82						2.1
RWE	16.0		96.83	0.00	0.00		0.00	0.00	2.1
	17.0		96.43	0.40	0.00		0.01	0.00	2.1
	18.0		95.96	0.87	0.03		0.05	0.05	2.3
	19.0		95.91	0.92	0.18		0.22	0.20	2.3
	20.0		95.91	0.92	0.42		0.44	0.51	2.3
	21.5		95.75	1.08	0.72		0.73	1.19	3.2
	23.0		95.51	1.32	0.80		0.82	1.61	3.2
	24.5		95.15	1.68	0.86		0.88	2.21	3.2
	26.0		94.75	2.08	0.71		0.72	2.26	3.2
	27.5		94.43	2.40	0.80		0.82	2.94	3.2
	29.0		94.26	2.57	0.42	0.78	0.62	2.39	3.2
	30.5		93.63	3.20	0.38	0.82	0.62	2.98	3.2
	32.0		93.35	3.48	0.30	0.84	0.59	3.10	3.4
	33.5		93.18	3.65	0.10	0.83	0.49	2.70	3.4
	35.0		93.41	3.42	0.31	0.80	0.58	2.97	3.2
	36.5		93.41	3.42	0.33	0.80	0.59	3.02	3.2
	38.0		93.66	3.17	0.27	0.74	0.53	2.09	3.2
	39.0		94.08	2.75	0.39	0.82	0.63	2.58	3.2
	41.0		94.58	2.25	0.48		0.50	1.98	3.2
	42.5		94.71	2.12	0.54		0.56	1.78	3.4
	44.0		95.10	1.73	0.22		0.26	0.66	3.4
	45.5		95.58	1.25	0.10		0.14	0.24	3.8
LWE	46.7		96.23	0.60	-0.05		-0.09	-0.03	1.3
	47.3	6.23	97.17						1.3
	48.4	4.76	98.64						1.3
	49.5	4.40	99.00						1.3
LWP	52.0	4.21	99.19						1.3

19-Aug-04

	Sta (ft)	FS (ft)	Ground (ft)	Depth (ft)	Vel (ft/s) $V_{0.2/0.6}$	Vel (ft/s) $V_{0.8}$	Vel (ft/s) Ave	q (cfs)	substrate
RWE	15.8		96.84	0.00	0.00		0.00	0.00	
	16.0		96.79	0.05	0.00		0.00	0.00	
	17.0		96.44	0.40	0.00		0.00	0.00	
	18.0		96.42	0.42	0.03		0.05	0.01	
	19.0		95.91	0.93					

Swoffer meter quit working. WSE and Q almost identical to first trip. So, use velocity distribution from first trip.



```
        Wood River WD_3    06/27/04
GLIDE                       HGH                                     TRANSECT 1
IOC       11011001000010001010000
QARD  30.0
QARD  32.0
QARD  34.0
QARD  36.0
QARD  38.3
QARD  39.2
QARD  39.7
QARD  41.0
QARD  43.0
QARD  44.0
QARD  45.0
QARD  46.0
QARD  47.0
QARD  48.0
QARD  49.0
QARD  51.0
QARD  52.0
QARD  54.0
QARD  55.0
QARD  56.0
QARD  57.0
QARD  58.0
QARD  59.0
QARD  60.0
QARD  61.0
QARD  62.0
QARD  64.0
QARD  66.0
QARD  68.0
QARD  70.0
XSEC   0.0       0.0 1.0     94.85 0.000340
       0.0-15.0100.1 -7.0100.1  1.0 98.2  3.0 97.5  8.0 97.2 13.5 97.0
       0.0 14.0 96.8 15.0 94.2 16.0 94.1 17.0 93.9 18.0 93.8 19.0 93.8
       0.0 20.0 93.9 21.0 93.9 22.0 94.0 23.0 94.1 24.0 94.2 25.0 94.4
       0.0 26.5 94.5 28.0 94.8 29.5 94.9 31.0 95.0 32.5 95.2 34.0 95.3
       0.0 35.5 95.4 37.0 95.3 38.5 95.2 40.0 95.2 41.5 95.8 41.8 96.8
       0.0 43.0 96.8 48.0 96.9 53.0 97.2 58.0 97.4 61.1 97.6 73.1 97.8
NS     0.0       1.3       1.3       1.3       1.2       1.2       1.2
NS     0.0       1.2 .08   3.2       3.4       3.4       3.4       3.4
NS     0.0       3.4       3.4       3.4       3.4       3.4       3.4
NS     0.0       3.3       3.3       3.3       3.2       3.2       3.2
NS     0.0       3.2       3.2 .20   3.2       3.2       1.2       1.2
NS     0.0       2.1       1.2       1.2       1.2       1.2       1.2
WSL    0.0     96.50     96.57     96.64     96.71     96.78     96.80
WSL    0.0     96.81     96.85     96.91     96.93     96.96     96.98
WSL    0.0     97.00     97.03     97.05     97.10     97.12     97.16
WSL    0.0     97.18     97.20     97.22     97.23     97.25     97.26
WSL    0.0     97.28     97.30     97.33     97.37     97.40     97.44
CAL1   0.0     96.78      39.7
VEL1   0.0                                0.00 0.22 0.77 0.85 0.93 0.91
VEL1   0.0 0.85 0.83 0.86 0.86 0.84 0.88 0.87 0.87 0.83 0.76 0.71 0.67
VEL1   0.0 0.70 0.53 0.10 0.28-0.03 0.00
CAL2   0.0     96.86      38.3
VEL2   0.0
VEL2   0.0
VEL2   0.0
CAL3   0.0     96.82      39.2
VEL3   0.0
VEL3   0.0
VEL3   0.0
ENDJ
```

```
        Wood River WD_3    06/27/04
GLIDE                       HGH                                    TRANSECT 2
IOC       11011001000010001010000
QARD  30.0
QARD  32.0
QARD  34.0
QARD  36.0
QARD  38.3
QARD  39.2
QARD  39.7
QARD  41.0
QARD  43.0
QARD  44.0
QARD  45.0
QARD  46.0
QARD  47.0
QARD  48.0
QARD  49.0
QARD  51.0
QARD  52.0
QARD  54.0
QARD  55.0
QARD  56.0
QARD  57.0
QARD  58.0
QARD  59.0
QARD  60.0
QARD  61.0
QARD  62.0
QARD  64.0
QARD  66.0
QARD  68.0
QARD  70.0
XSEC   0.0       0.0 1.0     95.16 0.000340
       0.0  0.0 97.6  1.0 97.5  6.0 97.2 11.0 97.1 16.0 96.9 19.0 97.0
       0.0 19.5 96.8 19.7 96.6 20.1 96.8 20.6 96.8 21.0 96.2 22.5 96.1
       0.0 24.0 95.9 25.5 95.6 27.0 95.6 28.5 95.6 30.0 95.6 31.5 95.5
       0.0 33.0 95.4 34.5 95.3 36.0 95.2 37.5 94.9 39.0 94.6 40.5 94.3
       0.0 42.0 94.1 43.5 94.1 45.0 93.8 46.5 93.7 48.0 93.6 49.0 93.7
       0.0 50.0 94.1 51.0 94.0 51.7 94.0 52.0 95.6 53.0 96.2 53.8 96.8
       0.0 54.5 97.0 59.0 97.3 64.3 97.4 94.3 97.3
NS     0.0       1.3       1.3       1.3       1.2       1.2       1.2
NS     0.0       2.1 0.3   2.1       1.2       1.2 0.3   2.1       2.3
NS     0.0 0.3   2.3       2.3       2.3       2.3       2.3       2.3
NS     0.0       2.3       3.2       3.2       3.2       3.2       2.3
NS     0.0       2.3       2.3       3.2       3.2       3.4       3.4
NS     0.0       3.2 0.2   3.2 0.3   3.2 0.30  2.1 0.3   1.2       2.1
NS     0.0       1.2       1.2       1.2       1.2
WSL    0.0     96.52     96.60     96.66     96.73     96.80     96.83
WSL    0.0     96.84     96.88     96.93     96.96     96.98     97.01
WSL    0.0     97.03     97.05     97.07     97.12     97.14     97.19
WSL    0.0     97.20     97.22     97.24     97.26     97.27     97.29
WSL    0.0     97.31     97.32     97.36     97.39     97.43     97.46
CAL1   0.0     96.81      39.7
VEL1   0.0                                 0.00 0.01 0.00 0.00 0.01 0.05
VEL1   0.0 0.01 0.44 0.64 0.63 0.80 0.65 0.67 0.71 0.72 0.79 0.83 0.90
VEL1   0.0 0.86 0.81 0.87 0.89 0.90 0.64 0.33 0.03 0.01 0.01 0.01 0.00
VEL1   0.0
CAL2   0.0     96.88      38.3
VEL2   0.0
VEL2   0.0
VEL2   0.0
VEL2   0.0
CAL3   0.0     96.83      39.2
VEL3   0.0
VEL3   0.0
VEL3   0.0
VEL3   0.0
ENDJ
```

```
        Wood River WD_3    06/27/04
GLIDE                        HGH                                        TRANSECT 3
IOC       1101100100001000101000
QARD  30.0
QARD  32.0
QARD  34.0
QARD  36.0
QARD  38.3
QARD  39.2
QARD  39.7
QARD  41.0
QARD  43.0
QARD  44.0
QARD  45.0
QARD  46.0
QARD  47.0
QARD  48.0
QARD  49.0
QARD  51.0
QARD  52.0
QARD  54.0
QARD  55.0
QARD  56.0
QARD  57.0
QARD  58.0
QARD  59.0
QARD  60.0
QARD  61.0
QARD  62.0
QARD  64.0
QARD  66.0
QARD  68.0
QARD  70.0
XSEC   0.0       0.0 1.0     95.16 0.000340
       0.0  0.0 97.3  1.0 97.2  5.0 97.1  9.0 97.0 13.0 96.8 16.0 96.8
       0.0 17.0 96.4 18.0 96.0 19.0 95.9 20.0 95.9 21.5 95.7 23.0 95.5
       0.0 24.5 95.2 26.0 94.7 27.5 94.4 29.0 94.3 30.5 93.6 32.0 93.3
       0.0 33.5 93.2 35.0 93.4 36.5 93.4 38.0 93.7 39.0 94.1 41.0 94.6
       0.0 42.5 94.7 44.0 95.1 45.5 95.6 46.7 96.2 47.3 97.2 48.4 98.6
       0.0 49.5 99.0 52.0 99.2
NS     0.0       1.3       1.3       1.2       1.2       2.1       2.1
NS     0.0 .25   2.1 .15   2.3       2.3       2.3       3.2 .046  3.2
NS     0.0 .047  3.2       3.2       3.2       3.2       3.2       3.4
NS     0.0       3.4       3.2       3.2       3.2       3.2       3.2
NS     0.0       3.4       3.4       3.8       1.3       1.3       1.3
NS     0.0       1.3       1.3
WSL    0.0     96.55     96.62     96.69     96.75     96.83     96.85
WSL    0.0     96.86     96.90     96.96     96.98     97.01     97.03
WSL    0.0     97.05     97.07     97.10     97.14     97.16     97.21
WSL    0.0     97.23     97.25     97.26     97.28     97.30     97.31
WSL    0.0     97.33     97.35     97.38     97.42     97.45     97.49
CAL1   0.0     96.83      39.7
VEL1   0.0                          0.00 0.01 0.05 0.22 0.44 0.73 0.82
VEL1   0.0 0.88 0.72 0.82 0.62 0.62 0.59 0.49 0.58 0.59 0.53 0.63 0.50
VEL1   0.0 0.56 0.26 0.14-0.09
CAL2   0.0     96.90      38.3
VEL2   0.0
VEL2   0.0
VEL2   0.0
CAL3   0.0     96.84      39.2
VEL3   0.0
VEL3   0.0
VEL3   0.0
ENDJ
```