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Ex. 281-US-420

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Stream: Wood River  
 Site: WD-2  
 Date: 5/14/2004  
 Habitat: Pool

Flow: Mid

(1) Level Loop Survey (BM & HP)

BM/HP (ft)	BS (ft)	HI (ft)	FS (ft)	Elev (ft)
BM-P	3.70	103.70		100
HP1			3.53	100.17
HP2			4.02	99.68
HP3			3.97	99.73
TP				
HP3	3.56	103.29		
HP2			3.61	99.68
HP1			3.11	100.18
BM-P			3.28	100.01

Comment:

Date: 6/28/2004  
 Habitat: Pool

Flow: High

(1) Level Loop Survey

BM/HP (ft)	BS (ft)	HI (ft)	FS (ft)	Elev (ft)
BM-P	5.10	105.10		100.00
HP1			4.92	100.18
HP2			5.41	99.69
HP3			5.36	99.74
TP				
HP3	5.21	104.95		
HP2			5.26	99.69
HP1			4.76	100.19
BM-P			4.94	100.01

Comment:

Date: 8/17/2004  
 Habitat: Pool

Flow: Low

(1) Level Loop Survey

BM/HP (ft)	BS (ft)	HI (ft)	FS (ft)	Elev (ft)
BM	5.10	105.10		100.00
HP1			4.92	100.18
HP2			5.42	99.68
HP3			5.37	99.73
TP				
HP3	5.45	105.18		
HP2			5.50	99.68
HP1			5.00	100.18
BM			5.19	99.99

Comment:

(2) Water Surface Elevation (WSE) Survey

TR	L/R bank (ft)	Sta (ft)	HI (ft)	FS (ft)	Rod (ft)	WSE (ft)	Ave WSE (ft)	Q (cfs)
1-L	0	0.00	103.29	6.20	0.00	97.09	97.08	143.5
1-R	0	0		6.23	0.00	97.06		
2-L	25	34.00	103.29	6.20	0.00	97.09	97.10	153.2
2-R	43	43		6.19	0.00	97.10		
3-L	43	87.00	103.29	6.88	0.73	97.14	97.15	148.1
3-R	131			6.13	0.00	97.16		

Ave Q= 148.3

Note: WSE 50' BELOW TR1 =97.04; WSE 50' ABOVE TR3=97.23;  
 HC-L=97.05, HC-R=97.04; HC Stationing L=3'; R=73' d/s of TR 1  
 WSE slope = 0.086%

(3) Meter and propeller ID for Velocity Correction

Meter ID: 0068  
 Propeller ID: NA

(2) Water Surface Elevation (WSE) Survey

TR	L/R bank (ft)	Sta (ft)	HI (ft)	FS (ft)	Rod (ft)	WSE (ft)	Ave WSE (ft)	Q (cfs)
1-L	0	0.00	104.95	8.21	0.62	97.36	97.38	172.9
1-R	0	0		11.72	4.17	97.40		
2-L	25	34.00	104.95	7.56	0.00	97.39	97.39	174.3
2-R	43	43		10.20	2.64	97.39		
3-L	43	87.00	104.95	8.64	0.95	97.36	97.43	172.8
3-R	131			11.18	3.72	97.49		

Ave Q= 173.3

Note: WSE 60' DS=97.35; HC RT CHANNEL=97.25; HC RT=97.23;  
 HC LT=97.32  
 WSE slope = 0.052%

(3) Meter and propeller ID for Velocity Correction

Meter ID: 3602 (TR1)  
 Propeller ID: 3A  
 Meter ID: 3602 (TR2 and TR31)  
 Propeller ID: 2A (See notes)

(2) Water Surface Elevation (WSE) Survey

TR	Sta (ft)		HI (ft)	FS (ft)	Rod (ft)	WSE (ft)	Ave WSE (ft)	Q (cfs)
	L/R bank (ft)	Ave (ft)						
1-L	0	0.00	105.18	8.08		97.10	97.10	128.3
1-R	0			8.09		97.09		
2-L	25	34.00	105.18	8.40	0.32	97.10	97.11	126.5
2-R	43	43		8.06		97.12		
3-L	43	87.00	105.18	8.07		97.11	97.14	131.7
3-R	131			8.01		97.17		

Ave Q= 128.8

Note: HC LWSE FS=8.09; RWSE FS=8.18  
 WSE slope = 0.052%

(3) Meter and propeller ID for Velocity Correction

Meter ID: 5750  
 Propeller ID: 2a







Pool HGH  
IOC 1100000100001000101000

TRANSECT 1

QARD 60.0  
 QARD 70.0  
 QARD 80.0  
 QARD 90.0  
 QARD 100.0  
 QARD 110.0  
 QARD 115.0  
 QARD 120.0  
 QARD 125.0  
 QARD 130.0  
 QARD 132.7  
 QARD 140.0  
 QARD 145.0  
 QARD 150.4  
 QARD 155.0  
 QARD 160.0  
 QARD 165.0  
 QARD 173.2  
 QARD 180.0  
 QARD 185.0  
 QARD 190.0  
 QARD 195.0  
 QARD 200.0  
 QARD 210.0  
 QARD 220.0  
 QARD 230.0  
 QARD 240.0  
 QARD 250.0  
 QARD 260.0  
 QARD 280.0  
 XSEC 0.0 0.0 1.0 93.38 0.000520  
 0.0 -4.0 98.9 1.0 98.8 3.5 98.3 5.7 97.4 6.2 97.3 7.0 93.4  
 0.0 8.5 93.4 10.0 93.5 11.5 93.6 13.5 93.4 15.5 93.4 17.5 93.6  
 0.0 19.5 94.1 21.5 94.5 23.5 94.8 25.5 95.1 27.5 95.3 29.5 95.3  
 0.0 31.5 95.5 33.5 96.0 34.5 96.3 35.5 96.2 36.5 96.2 38.0 96.3  
 0.0 40.0 96.6 41.5 96.8 42.5 96.9 42.7 97.0 43.1 98.3 53.1 98.7  
 0.0 58.6 98.4  
 NS 0.0 1.1 1.1 1.1 2.1 2.1 .1 3.2  
 NS 0.0 .05 4.3 4.3 4.3 4.3 4.3 4.3  
 NS 0.0 4.3 4.3 4.3 3.4 3.4 3.4  
 NS 0.0 3.4 .029 3.1 3.1 3.4 3.4 3.4  
 NS 0.0 2.3 2.3 .1 2.3 2.1 1.1 1.1  
 NS 0.0 1.1  
 WSL 0.0 96.27 96.45 96.58 96.70 96.81 96.92  
 WSL 0.0 96.96 97.00 97.04 97.08 97.10 97.15  
 WSL 0.0 97.18 97.22 97.25 97.28 97.32 97.38  
 WSL 0.0 97.43 97.46 97.49 97.52 97.55 97.61  
 WSL 0.0 97.67 97.73 97.78 97.84 97.89 97.99  
 CAL1 0.0 97.38 173.2  
 VEL1 0.0 0.00 0.00 0.45 1.40 1.70 1.69 2.07 2.36 2.26  
 VEL1 0.0 2.36 2.44 2.41 2.24 2.12 2.06 2.12 1.37 1.68 1.61 1.36 1.13  
 VEL1 0.0 0.73 0.50 0.10 0.16  
 CAL2 0.0 97.08 150.4  
 VEL2 0.0  
 VEL2 0.0  
 VEL2 0.0  
 CAL3 0.0 97.10 132.7  
 VEL3 0.0  
 VEL3 0.0  
 VEL3 0.0  
 ENDJ

Pool	HGH											TRANSECT 2	
IOC	1100000100001000101000												
QARD	60.0												
QARD	70.0												
QARD	80.0												
QARD	90.0												
QARD	100.0												
QARD	110.0												
QARD	115.0												
QARD	120.0												
QARD	125.0												
QARD	130.0												
QARD	132.7												
QARD	140.0												
QARD	145.0												
QARD	150.4												
QARD	155.0												
QARD	160.0												
QARD	165.0												
QARD	173.2												
QARD	180.0												
QARD	185.0												
QARD	190.0												
QARD	195.0												
QARD	200.0												
QARD	210.0												
QARD	220.0												
QARD	230.0												
QARD	240.0												
QARD	250.0												
QARD	260.0												
QARD	280.0												
XSEC	0.0		0.0	1.0		93.38		0.000520					
	0.0	-4.0	99.1	1.0	99.3	4.2	99.2	4.8	97.4	5.0	97.1	6.5	96.1
	0.0	8.0	95.0	9.0	93.5	10.0	93.1	11.0	93.6	13.0	92.6	15.0	92.3
	0.0	17.0	92.1	19.0	92.1	21.0	92.9	23.0	93.3	25.0	94.1	27.0	93.7
	0.0	29.0	95.0	31.0	95.4	32.5	95.9	34.0	96.7	37.0	96.9	38.3	97.2
	0.0	38.7	97.4	39.0	97.4	41.8	97.9	46.1	98.4				
NS	0.0		1.1		1.1		1.1		2.1	.07	2.1	0.09	2.3
NS	0.0	0.10	2.3	0.10	2.3		4.3		2.3		4.3		4.3
NS	0.0		4.3		4.3		3.4		3.4		3.4		3.2
NS	0.0		3.2		3.2		3.2		3.2		3.2		1.2
NS	0.0	0.2	1.2		3.2		1.1		1.1				
WSL	0.0		96.29		96.47		96.60		96.72		96.83		96.95
WSL	0.0		96.99		97.03		97.07		97.11		97.13		97.18
WSL	0.0		97.21		97.25		97.28		97.31		97.35		97.41
WSL	0.0		97.46		97.49		97.52		97.55		97.58		97.64
WSL	0.0		97.70		97.76		97.81		97.87		97.92		98.03
CAL1	0.0		97.39		173.2								
VEL1	0.0				0.00	0.16	0.32	0.42	0.64	0.99	1.56	2.28	2.40
VEL1	0.0	2.31	2.55	1.74	1.87	1.49	1.17	1.56	0.72	0.26	0.14	0.55	0.03
VEL1	0.0	0.00											
CAL2	0.0		97.10		150.4								
VEL2	0.0												
VEL2	0.0												
VEL2	0.0												
CAL3	0.0		97.11		132.7								
VEL3	0.0												
VEL3	0.0												
VEL3	0.0												
ENDJ													

Pool	HGH										TRANSECT 3		
IOC	1100000100001000101000												
QARD	60.0												
QARD	70.0												
QARD	80.0												
QARD	90.0												
QARD	100.0												
QARD	110.0												
QARD	115.0												
QARD	120.0												
QARD	125.0												
QARD	130.0												
QARD	132.7												
QARD	140.0												
QARD	145.0												
QARD	150.4												
QARD	155.0												
QARD	160.0												
QARD	165.0												
QARD	173.2												
QARD	180.0												
QARD	185.0												
QARD	190.0												
QARD	195.0												
QARD	200.0												
QARD	210.0												
QARD	220.0												
QARD	230.0												
QARD	240.0												
QARD	250.0												
QARD	260.0												
QARD	280.0												
XSEC	0.0	0.0	1.0	93.38	0.000520								
	0.0	-4.0	97.2	1.0	98.6	7.0	97.5	8.1	94.1	8.3	94.1	9.0	94.1
	0.0	11.0	93.7	13.0	92.9	15.0	92.8	17.0	92.8	19.0	93.6	20.0	93.9
	0.0	22.0	94.8	24.0	95.2	26.0	95.5	28.0	96.0	30.0	96.3	32.0	96.5
	0.0	34.0	96.6	36.0	96.6	38.0	96.6	40.0	96.5	42.0	96.4	44.0	96.4
	0.0	46.0	96.4	48.0	96.4	50.0	96.3	52.0	96.3	54.0	96.3	56.0	96.3
	0.0	58.0	96.3	60.0	96.9	61.0	96.7	62.0	96.5	63.0	97.2	63.2	97.2
	0.0	63.6	97.4	64.1	98.2	69.0	98.6						
NS	0.0	1.1	1.1	1.1	1.1	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
NS	0.0	4.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
NS	0.0	.040	4.3	4.3	4.3	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
NS	0.0	.013	4.3	.013	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
NS	0.0	4.3	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
NS	0.0	.035	4.3	3.9	3.4	4.3	4.3	4.3	4.3	2.3	2.3	2.3	2.3
NS	0.0	2.3	1.1	1.1	1.1								
WSL	0.0	96.33	96.51	96.63	96.75	96.86	96.97						
WSL	0.0	97.01	97.05	97.09	97.13	97.15	97.20						
WSL	0.0	97.23	97.27	97.30	97.33	97.37	97.43						
WSL	0.0	97.48	97.51	97.54	97.58	97.61	97.67						
WSL	0.0	97.73	97.79	97.84	97.90	97.95	98.05						
CAL1	0.0	97.43	173.2										
VEL1	0.0	-0.09	-0.32	-0.38	0.37	1.08	2.26	2.35	1.95	1.87			
VEL1	0.0	1.62	1.85	1.88	1.99	2.21	2.23	2.40	2.37	2.21	2.31	2.35	2.41
VEL1	0.0	2.52	2.41	2.31	2.14	1.99	1.86	0.71	0.95	1.61	1.65	0.00	0.01
VEL1	0.0	0.01											
CAL2	0.0	97.15	150.4										
VEL2	0.0												
VEL2	0.0												
VEL2	0.0												
VEL2	0.0												
VEL2	0.0												
CAL3	0.0	97.14	132.7										
VEL3	0.0												
VEL3	0.0												
VEL3	0.0												
VEL3	0.0												
VEL3	0.0												
ENDJ													



Stream: Wood River  
 Site: WD-2  
 Date: 5/14/2004  
 Habitat: Riffle

Flow: Mid

(1) Level Loop Survey (BM & HP)

BM/HP (ft)	BS (ft)	HI (ft)	FS (ft)	Elev (ft)
BM	3.35	103.35		100.00
HP1			4.11	99.24
HP2			2.97	100.38
HP3			3.62	99.73
TP				
HP3	3.37	103.10		100.37
HP2			2.73	99.23
HP1			3.87	99.99
BM			3.11	99.99

Comment:

Date: 6/28/2004  
 Habitat: Riffle

Flow: High

(1) Level Loop Survey

BM/HP (ft)	BS (ft)	HI (ft)	FS (ft)	Elev (ft)
BM	2.94	102.94		100.00
HP1			3.70	99.24
HP2			2.56	100.38
HP3			3.19	99.75
TP				
HP3	3.21	102.96		100.40
HP2			2.56	99.26
HP1			3.70	100.02
BM			2.94	100.02

Comment:

Date: 8/17/2004  
 Habitat: Riffle

Flow: Low

(1) Level Loop Survey

BM/HP (ft)	BS (ft)	HI (ft)	FS (ft)	Elev (ft)
BM	3.51	103.51		100.00
HP1			4.27	99.24
HP2			3.13	100.38
HP3			3.78	99.73
TP				
HP3	4.12	103.85		100.38
HP2			3.47	99.23
HP1			4.62	100.00
BM			3.85	100.00

Comment:

(2) Water Surface Elevation (WSE) Survey

TR	Sta		HI (ft)	FS (ft)	Rod (ft)	WSE (ft)	Ave WSE (ft)	Q (cfs)
	L/R bank (ft)	Ave (ft)						
TR1-L	0	0.0	103.94	7.35	0.00	96.59	96.60	146.1
TR1-R	0	0.0	7.34	0.00	96.60	96.60	96.63	153.1
TR1-L	63	56.5	103.94	7.31	0.00	96.63	96.63	158.1
TR1-R	50	146.5	103.94	7.17	0.00	96.77	96.76	152.4
TR1-R	139			7.19	0.00	96.75	96.75	152.4

Note: 50' us of TR3: use FS=7.1, bed elev. FS=8.80  
 WSE slope = 0.113%

(3) Meter and propeller ID for Velocity Correction

Meter ID: 0068  
 Propeller ID: NA

(2) Water Surface Elevation (WSE) Survey

TR	Sta		HI (ft)	FS (ft)	Rod (ft)	WSE (ft)	Ave WSE (ft)	Q (cfs)
	L/R bank (ft)	Ave (ft)						
TR1-L	0	0.0	102.96	6.08	0.00	96.88	96.87	168.6
TR1-R	0	0.0	106.30	11.46	2.01	96.85	96.85	175.8
TR1-L	63	56.5	106.30	9.41	0.00	96.89	96.90	175.1
TR1-R	50	146.5	106.30	9.40	0.00	96.94	96.96	173.2
TR1-R	139			9.32	0.00	96.98	96.98	173.2

Note:  
 WSE slope = 0.065%

(3) Meter and propeller ID for Velocity Correction

Meter ID: 3602  
 Propeller ID: 3A  
 Used Prop 2A on Riffle 6/28/04.  
 No calibration exists for Prop 2A and meter 3602.

(2) Water Surface Elevation (WSE) Survey

TR	Sta		HI (ft)	FS (ft)	Rod (ft)	WSE (ft)	Ave WSE (ft)	Q (cfs)
	L/R bank (ft)	Ave (ft)						
TR1-L	0	0.0	103.85	7.23	0.00	96.62	96.63	133
TR1-R	0	0.0	7.21	0.00	96.64	96.64	96.66	139.8
TR1-L	63	56.5	103.85	7.19	0.00	96.66	96.65	137.6
TR1-R	50	146.5	103.85	7.06	0.00	96.79	96.77	136.7
TR1-R	139			7.11	0.00	96.74	96.74	136.7

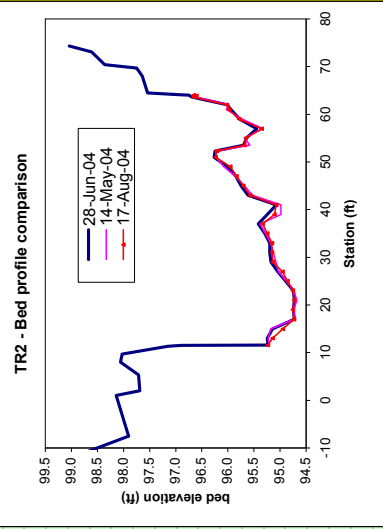
Note:  
 WSE slope = 0.092%

(3) Meter and propeller ID for Velocity Correction

Meter ID: 5750  
 Propeller ID: 2a

Stream: Wood River	14-May-04							28-Jun-04							17-Aug-04													
	Sta (ft)	FS (ft)	Ground (ft)	Depth (ft)	Vel (ft/s) V <sub>0.206</sub>	Vel (ft/s) V <sub>0.8</sub>	Ave	q (cfs)	substrate	Sta (ft)	FS (ft)	Ground (ft)	Depth (ft)	Vel (ft/s) V <sub>0.206</sub>	Vel (ft/s) V <sub>0.8</sub>	Ave	q (cfs)	substrate	Sta (ft)	FS (ft)	Ground (ft)	Depth (ft)	Vel (ft/s) V <sub>0.206</sub>	Vel (ft/s) V <sub>0.8</sub>	Ave	q (cfs)	substrate	
<b>Transect:</b> 1																												
<b>Habitat:</b> Riffle																												
Survey																												
Date																												
5/14/2004	103.94	146.1																										
6/28/2004	102.96	168.6																										
8/17/2004	103.85	132.6																										
										</																		

Stream: Wood River		14-May-04					28-Jun-04					17-Aug-04										
Site:	WD-2	Sta (ft)	FS (ft)	Ground (ft)	Depth (ft)	Vel (ft/s)	V <sub>0.206</sub>	V <sub>0.8</sub>	Ave	q (cfs)	substrate	Sta (ft)	FS (ft)	Ground (ft)	Depth (ft)	Vel (ft/s)	V <sub>0.206</sub>	V <sub>0.8</sub>	Ave	q (cfs)	substrate	
Habitat:	Riffle	RWP 1.0	11.6	95.21	1.42	1.03			1.20	1.19		-11.5	7.43	98.87								
		RBE	13.0	95.23	1.40	0.99			1.15	2.74		-7.5	8.40	97.90								
Survey	HI	15.0	95.18	1.45	1.20	1.39	4.04		2.97	11.27		2.0	8.61	97.69								
Date	(ft)	17.0	94.73	1.90	2.58	3.37	12.80		3.37	12.80		5.3	8.59	97.71								
5/14/2004	103.94	19.0	94.73	1.90	2.93	3.43	13.37		3.43	13.37		8.0	8.27	98.06								
6/28/2004	106.30	21.0	94.68	1.95	2.98	3.22	12.24		3.22	12.24		9.7	8.27	98.03								
8/17/2004	103.85	23.0	94.73	1.90	2.80	3.04	10.63		3.04	10.63		11.3	9.14	97.16								
		25.0	94.88	1.75	2.64	2.93	9.38		2.93	9.38		11.6		95.23	1.67	1.35						
		27.0	95.03	1.60	2.55	2.74	8.48		2.74	8.48		13.0		95.25	1.65	1.34						
		29.0	95.08	1.55	2.38	2.92	8.76		2.92	8.76		15.0		95.15	1.75	1.73						
		31.0	95.13	1.50	2.54	2.92	8.76		2.92	8.76		17.0		94.73	2.17	2.67						
		33.0	95.18	1.45	2.01	2.31	6.71		2.31	6.71		19.0		94.75	2.15	2.89						
		35.0	95.28	1.35	2.3	2.65	7.14		2.65	7.14		21.0		94.73	2.17	2.51						
		37.0	95.38	1.25	2.63	1.35	4.45		1.35	4.45		23.0		94.75	2.15	2.86						
		39.0	94.98	1.65	1.16	2.22	7.34		2.22	7.34		25.0		94.90	2.00	2.88						
		41.0	94.98	1.65	1.93	2.77	6.10		2.77	6.10		27.0		95.05	1.85	2.84						
		43.0	95.53	1.10	2.41	2.53	4.81		2.53	4.81		29.0		95.18	1.72	2.78						
		45.0	95.68	0.95	2.20	2.66	4.09		2.66	4.09		31.0		95.20	1.70	2.74						
		47.0	95.86	0.77	2.31	2.68	2.95		2.68	2.95		33.0		95.20	1.70	2.77						
		49.0	96.08	0.55	2.33	2.40	1.59		2.40	1.59		35.0		95.30	1.60	2.80						
		51.0	96.23	0.40	2.09	2.05	1.03		2.05	1.03		37.0		95.42	1.48	2.38						
		52.3	96.23	0.40	1.78	0.84	1.19		0.84	1.19		39.0		95.25	1.65	2.37						
		53.5	95.58	1.05	0.71	0.29	0.48		0.29	0.48		41.0		95.08	1.82	2.33						
		55.0	95.68	0.95	0.21	0.32	0.84		0.32	0.84		43.0		95.62	1.28	2.64						
		57.0	95.33	1.30	0.24	0.55	0.99		0.55	0.99		45.0		95.75	1.15	2.51						
		59.0	95.73	0.90	0.45	0.50	0.45		0.50	0.45		47.0		95.85	1.05	2.46						
		61.0	96.03	0.60	0.40	0.58	0.49		0.58	0.49		49.0		96.02	0.88	2.37						
		62.0	95.98	0.65	0.48	0.00	0.00		0.00	0.00		51.0		96.27	0.63	2.28						
		LWE	63.6	96.63	0.00	0.00	0.00		0.00	0.00		52.3		96.25	0.65	1.99						
		LWP	74.3									53.5		95.70	1.20	1.42						
												55.0		95.65	1.25	0.28						
												57.0		95.45	1.45	0.08						
												59.0		95.78	1.12	0.74						
												61.0		95.95	0.95	0.48						
												62.0		96.02	0.88	0.54						
												63.6		96.70	0.20	0.00						
												64.0		96.75	0.15	0.00						
												LWE	64.1	96.90	0.00	0.00						
												64.5		8.76	97.54							
												68.0		8.66	97.64							
												69.7		8.55	97.75							
												70.4		7.94	98.36							
												73.1		7.69	98.61							
												LWP	74.3	7.26	99.04							

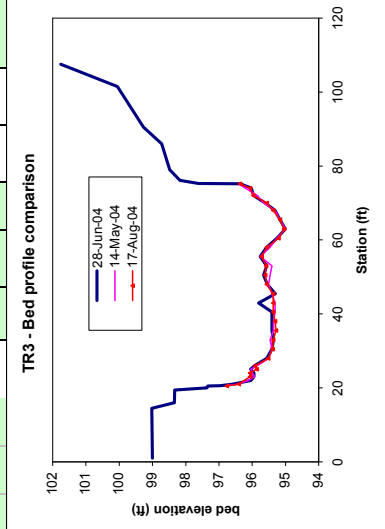


Used Prop 2A on Riffle 6/28/04. No calibration exists for Prop 2A and meter 3602.

RUCB = 0.94

RUCB = 0.8

Stream: Wood River				14-May-04				28-Jun-04				17-Aug-04					
Site: WD-2				Sta	FS	Ground	Depth	Vel (ft/s)	q	substrate	Sta	FS	Ground	Depth	Vel (ft/s)	q	substrate
Transect: 3				(ft)	(ft)	(ft)	(ft)	V <sub>0.206</sub>	Ave		(ft)	(ft)	(ft)	(ft)	V <sub>0.206</sub>	Ave	
Habitat: Riffle																	
Survey	HI	Q															
Date	(ft)	(cfs)															
5/14/2004	103.94	158.1		RWP	1.0	7.30	99.00										
6/28/2004	106.30	175.1		RWE	20.6	96.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8/17/2004	103.85	137.6			21.0	96.43	0.33	0.17	0.24	0.06							
					22.0	96.11	0.65	0.50	0.60	0.39							
					23.0	95.93	0.83	0.42	0.52	0.43							
					24.0	95.99	0.77	-0.12	-0.18	-0.14							
					25.0	96.04	0.72	0.99	1.15	0.83							
					26.0	95.86	0.90	0.31	0.40	0.53							
					28.0	95.51	1.25	1.76	2.03	5.71							
					33.0	95.46	1.30	2.52	2.90	9.42							
					35.5	95.36	1.40	2.73	3.14	10.99							
					38.0	95.36	1.40	2.68	3.08	10.79							
					40.5	95.31	1.45	2.8	3.22	11.67							
					43.0	95.31	1.45	2.69	3.09	11.21							
					45.5	95.41	1.35	2.53	2.91	9.82							
					48.0	95.51	1.25	2.44	2.81	8.77							
					50.5	95.46	1.30	2.16	2.48	8.07							
					53.0	95.41	1.35	1.85	2.13	7.20							
					55.5	95.76	1.00	2.15	2.47	6.18							
					60.5	95.26	1.50	1.81	2.22	7.23							
					63.0	95.01	1.75	1.83	2.11	9.23							
					65.5	95.16	1.60	1.80	2.08	8.31							
					68.0	95.31	1.45	1.79	2.07	6.74							
					70.0	95.66	1.10	1.83	2.11	4.64							
					72.0	95.84	0.92	1.23	1.43	2.63							
					74.0	96.21	0.55	0.58	0.69	0.61							
					LWE	75.2	96.41	0.35	0.10	0.16	0.03						
					LWP	90.5											



Used Prop 2A on Riffle 6/28/04. No calibration exists for Prop 2A and meter 3602.

LUCB = 0.4'

RIFFLE HGH TRANSECT 1  
 IOC 1100000100001000101000  
 QARD 60.0  
 QARD 70.0  
 QARD 80.0  
 QARD 90.0  
 QARD 100.0  
 QARD 110.0  
 QARD 115.0  
 QARD 120.0  
 QARD 125.0  
 QARD 130.0  
 QARD 132.7  
 QARD 140.0  
 QARD 145.0  
 QARD 150.4  
 QARD 155.0  
 QARD 160.0  
 QARD 165.0  
 QARD 173.2  
 QARD 180.0  
 QARD 185.0  
 QARD 190.0  
 QARD 195.0  
 QARD 200.0  
 QARD 210.0  
 QARD 220.0  
 QARD 230.0  
 QARD 240.0  
 QARD 250.0  
 QARD 260.0  
 QARD 280.0  
 XSEC 0.0 0.0 1.0 94.27 0.000650  
 0.0-19.0 98.5-16.0 98.0 1.0 97.9 5.5 97.5 8.0 97.8 8.7 97.2  
 0.0 8.9 96.9 9.3 94.9 10.0 94.8 12.0 94.4 14.0 94.4 15.0 94.3  
 0.0 16.0 94.3 18.0 94.5 20.0 94.4 22.0 94.8 24.0 94.9 26.0 94.9  
 0.0 28.0 94.9 30.0 94.8 32.0 94.8 34.0 94.8 36.0 95.0 38.0 95.1  
 0.0 40.0 95.2 42.0 95.3 43.5 95.6 45.0 96.1 47.0 96.3 48.6 96.5  
 0.0 51.4 96.9 51.6 97.1 52.0 97.4 55.0 97.3 55.3 97.8 56.0 98.3  
 0.0 59.4 98.9  
 NS 0.0 1.1 1.1 1.1 1.1 1.1  
 NS 0.0 1.2 3.4 3.5 3.5 3.4 3.4  
 NS 0.0 3.4 3.4 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 4.3 .035 3.4 .06 2.9 .09 2.9 2.9 2.9  
 NS 0.0 2.9 1.1 1.1 1.1 1.1 1.1  
 NS 0.0 1.1  
 WSL 0.0 96.03 96.13 96.23 96.32 96.40 96.47  
 WSL 0.0 96.51 96.54 96.58 96.61 96.63 96.67  
 WSL 0.0 96.71 96.74 96.77 96.80 96.82 96.87  
 WSL 0.0 96.91 96.93 96.95 96.98 97.00 97.04  
 WSL 0.0 97.09 97.13 97.17 97.21 97.25 97.41  
 CAL1 0.0 96.87 173.2  
 VEL1 0.0 0.00 0.33 1.26 1.97 2.18 2.50  
 VEL1 0.0 2.72 3.00 2.91 2.78 2.58 2.71 2.60 2.37 2.56 2.60 2.46 1.90  
 VEL1 0.0 1.99 1.10 0.28 0.30 0.32 0.03 0.00  
 VEL1 0.0  
 CAL2 0.0 96.60 150.4  
 VEL2 0.0  
 VEL2 0.0  
 VEL2 0.0  
 VEL2 0.0  
 CAL3 0.0 96.63 132.7  
 VEL3 0.0  
 VEL3 0.0  
 VEL3 0.0  
 VEL3 0.0  
 ENDJ

RIFFLE		HGH		TRANSECT 2									
IOC	1100000100001000101000												
QARD	60.0												
QARD	70.0												
QARD	80.0												
QARD	90.0												
QARD	100.0												
QARD	110.0												
QARD	115.0												
QARD	120.0												
QARD	125.0												
QARD	130.0												
QARD	132.7												
QARD	140.0												
QARD	145.0												
QARD	150.4												
QARD	155.0												
QARD	160.0												
QARD	165.0												
QARD	173.2												
QARD	180.0												
QARD	185.0												
QARD	190.0												
QARD	195.0												
QARD	200.0												
QARD	210.0												
QARD	220.0												
QARD	230.0												
QARD	240.0												
QARD	250.0												
QARD	260.0												
QARD	280.0												
XSEC	0.0	0.0	1.0	94.73	0.000650								
	0.0-11.5	98.9	-7.5	97.9	1.0	98.1	2.0	97.7	5.3	97.7	8.0	98.1	
	0.0	9.7	98.0	11.3	97.2	11.5	96.9	11.6	95.2	13.0	95.2	15.0	95.2
	0.0	17.0	94.7	19.0	94.7	21.0	94.7	23.0	94.7	25.0	94.9	27.0	95.1
	0.0	29.0	95.2	31.0	95.2	33.0	95.2	35.0	95.3	37.0	95.4	39.0	95.2
	0.0	41.0	95.1	43.0	95.6	45.0	95.7	47.0	95.8	49.0	96.0	51.0	96.3
	0.0	52.3	96.2	53.5	95.7	55.0	95.7	57.0	95.4	59.0	95.8	61.0	95.9
	0.0	62.0	96.0	63.6	96.7	64.0	96.7	64.1	96.9	64.5	97.5	68.0	97.6
	0.0	69.7	97.7	70.4	98.4	73.1	98.6	74.3	99.0				
NS	0.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
NS	0.0	1.1	1.1	1.1	1.2	3.4	5.4	3.5					
NS	0.0	3.4	3.4	3.4	3.4	4.3	4.3	4.3					
NS	0.0	4.3	4.3	4.3	4.3	4.3	4.3	4.3					
NS	0.0	4.3	4.3	4.3	4.3	4.3	4.3	4.3					
NS	0.0	4.3	4.3	4.5	4.3	3.4	4.3	2.3					
NS	0.0	2.3	2.3	2.3	2.3	1.1	1.1	1.1					
NS	0.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1					
WSL	0.0	96.10	96.19	96.28	96.37	96.44	96.51						
WSL	0.0	96.55	96.58	96.62	96.65	96.67	96.71						
WSL	0.0	96.75	96.78	96.81	96.84	96.86	96.91						
WSL	0.0	96.95	96.97	96.99	97.02	97.04	97.08						
WSL	0.0	97.13	97.17	97.22	97.26	97.30	97.46						
CAL1	0.0	96.90	173.2										
VEL1	0.0					0.00	1.38	1.37	1.76				
VEL1	0.0	2.70	2.92	2.54	2.89	2.91	2.87	2.81	2.77	2.80	2.83	2.41	2.40
VEL1	0.0	2.36	2.67	2.54	2.49	2.40	2.31	2.02	1.45	0.32	0.14	0.76	0.50
VEL1	0.0	0.56	0.01	0.01	0.00								
CAL2	0.0	96.63	150.4										
VEL2	0.0												
VEL2	0.0												
VEL2	0.0												
VEL2	0.0												
CAL3	0.0	96.66	132.7										
VEL3	0.0												
VEL3	0.0												
VEL3	0.0												
VEL3	0.0												
ENDJ													

RIFFLE HGH TRANSECT 3  
 IOC 1100000100001000101000  
 QARD 60.0  
 QARD 70.0  
 QARD 80.0  
 QARD 90.0  
 QARD 100.0  
 QARD 110.0  
 QARD 115.0  
 QARD 120.0  
 QARD 125.0  
 QARD 130.0  
 QARD 132.7  
 QARD 140.0  
 QARD 145.0  
 QARD 150.4  
 QARD 155.0  
 QARD 160.0  
 QARD 165.0  
 QARD 173.2  
 QARD 180.0  
 QARD 185.0  
 QARD 190.0  
 QARD 195.0  
 QARD 200.0  
 QARD 210.0  
 QARD 220.0  
 QARD 230.0  
 QARD 240.0  
 QARD 250.0  
 QARD 260.0  
 QARD 280.0  
 XSEC 0.0 0.0 1.0 95.01 0.000650  
 0.0 1.0 99.0 14.5 99.0 16.0 98.3 19.4 98.3 20.0 97.4 20.5 97.3  
 0.0 20.6 97.0 21.0 96.6 22.0 96.0 23.0 95.9 24.0 95.9 25.0 96.1  
 0.0 26.0 95.9 28.0 95.6 30.5 95.4 33.0 95.4 35.5 95.4 38.0 95.4  
 0.0 40.5 95.4 43.0 95.8 45.5 95.3 48.0 95.6 50.5 95.7 53.0 95.6  
 0.0 55.5 95.8 58.0 95.6 60.5 95.3 63.0 95.0 65.5 95.2 68.0 95.3  
 0.0 70.0 95.6 72.0 96.0 74.0 96.0 75.2 96.4 75.3 97.6 76.1 98.2  
 0.0 79.0 98.5 86.0 98.7 90.5 99.3101.5100.1107.5101.8  
 NS 0.0 1.1 1.1 1.1 1.1 1.1 1.1 1.1  
 NS 0.0 2.1 2.1 2.4 2.4 2.1 2.6  
 NS 0.0 2.6 5.3 4.3 3.4 3.4 4.3  
 NS 0.0 4.5 4.5 4.5 4.5 4.3 4.3  
 NS 0.0 4.3 4.3 4.3 4.3 4.3 4.3  
 NS 0.0 4.3 4.3 3.4 2.1 2.1 2.1  
 NS 0.0 1.1 1.1 1.1 1.1 1.1 1.1  
 WSL 0.0 96.29 96.35 96.43 96.49 96.56 96.62  
 WSL 0.0 96.65 96.68 96.71 96.74 96.75 96.79  
 WSL 0.0 96.83 96.85 96.88 96.91 96.93 96.98  
 WSL 0.0 97.01 97.03 97.05 97.08 97.10 97.14  
 WSL 0.0 97.19 97.23 97.27 97.31 97.35 97.50  
 CAL1 0.0 96.96 173.2  
 VEL1 0.0 0.00 0.16 1.07 0.29 0.06 1.23  
 VEL1 0.0 1.08 1.77 2.52 2.98 2.77 2.91 3.02 3.07 2.86 2.78 2.71 2.48  
 VEL1 0.0 2.57 2.46 1.98 2.00 1.88 2.13 2.34 1.60 1.04 0.01 0.00  
 VEL1 0.0  
 CAL2 0.0 96.76 150.4  
 VEL2 0.0  
 VEL2 0.0  
 VEL2 0.0  
 VEL2 0.0  
 CAL3 0.0 96.77 132.7  
 VEL3 0.0  
 VEL3 0.0  
 VEL3 0.0  
 VEL3 0.0  
 ENDJ