

11-8-2008

Ex. 280-US-482

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Stream: Deming Creek

Site: 657

Date: 9/23/1990

Habitat: Run

Flow: Low

(1) Level Loop Survey (BM & HP)

BM/HP (ft)	BS (ft)	HI (ft)	FS (ft)	Elev (ft)
BM	5.90	105.90		100.00
HP1				
HP2				
HP3				
TP				
HP3				
HP2				
HP1				
BM				

Comment: No level loop due to no HPs.

Date: 4/10/1991

Habitat: Run

Flow: Mid

(1) Level Loop Survey

BM/HP (ft)	BS (ft)	HI (ft)	FS (ft)	Elev (ft)
BM	1.96	101.96		100.00
HP1				
HP2				
HP3				
TP				
HP3				
HP2				
HP1				
BM				

Comment: No level loop due to no HPs.

Date: 5/18/1993

Habitat: Run

Flow: High

(1) Level Loop Survey

BM/HP (ft)	BS (ft)	HI (ft)	FS (ft)	Elev (ft)
BM	0.22	100.22		100.00
HP1				
HP2				
HP3				
TP				
HP3				
HP2				
HP1				
BM				

Comment: No level loop due to no HPs.

(2) Water Surface Elevation (WSE) Survey

TR	River Station		Rod (ft)	FS (ft)	HI (ft)	Ave		Q (cfs)
	L/R bank (ft)	Ave (ft)				WSE (ft)	WSE (ft)	
1-L	0	0.0	0.00	23.45	105.90	82.45	82.45	1.0
1-R			0.00	23.45	105.90	82.45	82.45	
2-L	8.2	8.6	0.00	23.11	105.90	82.79	82.69	
2-R	9		0.00	23.11	105.90	82.79	82.79	
3-L	11.4	12.3	0.00	22.95	105.90	82.95	82.95	0.7
3-R	13.2		0.00	22.95	105.90	82.95	82.95	
								Ave Q= 0.8

Note: WSE slope = 4.065%

(2) Water Surface Elevation (WSE) Survey

TR	River Station		Rod (ft)	FS (ft)	HI (ft)	Ave		Q (cfs)
	L/R bank (ft)	Ave (ft)				WSE (ft)	WSE (ft)	
HydrC-L	-10.1	-10.1	0.00	19.53	101.96	82.43	82.46	
HydrC-R			0.00	19.47	101.96	82.49	82.49	
1-L	0	0	0.00	19.45	101.96	82.51	82.51	1.5
1-R			0.00	19.46	101.96	82.50	82.50	
2-L	8.2	8.6	0.00	19.21	101.96	82.75	82.74	1.7
2-R	9		0.00	19.24	101.96	82.72	82.72	
3-L	11.4	12.3	0.00	18.98	101.96	82.98	82.99	2.1
3-R	13.2		0.00	18.96	101.96	83.00	83.00	
								Ave Q= 1.8

Note: WSE slope = 3.943%

(2) Water Surface Elevation (WSE) Survey

TR	River Station		Rod (ft)	FS (ft)	HI (ft)	Ave		Q (cfs)
	L/R bank (ft)	Ave (ft)				WSE (ft)	WSE (ft)	
1-L	0	0	0.00	16.72	100.22	83.50	83.46	
1-R			0.00	16.81	100.22	83.41	83.41	
2-L	8.2	8.6	0.00	16.67	100.22	83.55	83.59	26.9
2-R	9		0.00	16.60	100.22	83.62	83.62	
3-L	11.4	12.3	0.00	16.28	100.22	83.94	83.86	
3-R	13.2		0.00	16.45	100.22	83.77	83.77	
								Ave Q= 26.9

Note: WSE slope = 3.252%

(3) Meter and propeller ID for Velocity Correction

Meter ID: NA  
Propeller ID: NA

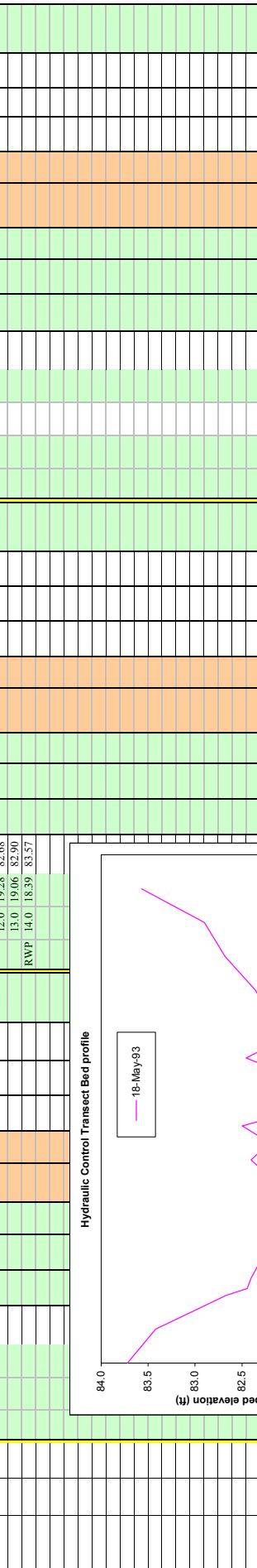
(3) Meter and propeller ID for Velocity Correction

Meter ID: NA  
Propeller ID: NA

(3) Meter and propeller ID for Velocity Correction

Meter ID: NA  
Propeller ID: NA

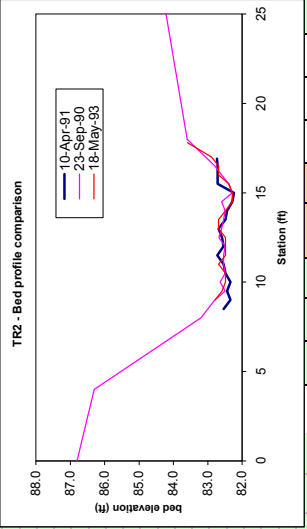
Stream: Deming Creek	23-Sep-90														10-Apr-91														18-May-93													
	Sta (ft)	ES (ft)	Ground (ft)	Depth (ft)	V <sub>0.5</sub>	V <sub>0.85</sub>	NV <sub>0.50d</sub>	NV <sub>0.85</sub>	Ave	Angle (deg)	q (cfs)	substrate	Sta (ft)	ES (ft)	Ground (ft)	Depth (ft)	V <sub>0.5</sub>	V <sub>0.85</sub>	NV <sub>0.50d</sub>	NV <sub>0.85</sub>	Ave	Angle (deg)	q (cfs)	substrate	Sta (ft)	ES (ft)	Ground (ft)	Depth (ft)	V <sub>0.5</sub>	V <sub>0.85</sub>	NV <sub>0.50d</sub>	NV <sub>0.85</sub>	Ave	Angle (deg)	q (cfs)	substrate						
Survey	HI	Q																																								
Date	9/23/1990																																									
	4/10/1991	101.96																																								
	5/18/1993																																									



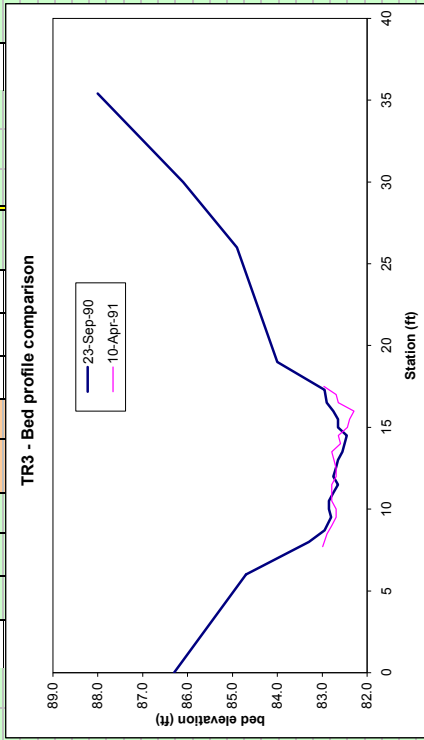
Substrate	Angle (deg)	q (cfs)	Substrate	Angle (deg)	q (cfs)	Substrate	Angle (deg)	q (cfs)	Substrate	Angle (deg)	q (cfs)	Substrate	Angle (deg)	q (cfs)	Substrate	Angle (deg)	q (cfs)	Substrate	Angle (deg)	q (cfs)	Substrate	Angle (deg)	q (cfs)	Substrate	Angle (deg)	q (cfs)	Substrate	Angle (deg)	q (cfs)	Substrate	Angle (deg)	q (cfs)	Substrate	Angle (deg)	q (cfs)	Substrate	Angle (deg)	q (cfs)			



Stream: Damming Creek				23-Sep-90				10-Apr-91				18-May-93																
Site	Sta	FS	Ground	Depth	V <sub>0.30.6</sub>	V <sub>0.8</sub>	NV <sub>0.30.6</sub>	NV <sub>0.8</sub>	Ave	Angle	q	substrate	Site	Sta	FS	Ground	Depth	V <sub>0.30.6</sub>	V <sub>0.8</sub>	NV <sub>0.30.6</sub>	NV <sub>0.8</sub>	Ave	Angle	q	substrate			
(657)	(ft)	(ft)	(ft)	(ft)	(ft/s)	(ft/s)	(ft/s)	(ft/s)	(deg)	(cfs)			(ft)	(ft)	(ft)	(ft)	(ft)	(ft/s)	(ft/s)	(ft/s)	(ft/s)	(deg)	(cfs)					
Franchise: 2																												
Habitat: Run																												
Survey																												
HI																												
Q																												
9/23/1990	0.0	19.10	86.80	0.00	0.00	0.00							1.1	0.0	14.94	87.02	0.20	0.00	0.00	0.00								
4/10/1991	4.0	19.60	86.30	0.00	0.00	0.00							1.1	9.0	82.34	0.40	0.03	0.03	0.03	0.03								
5/18/1993	8.0	22.70	83.20	0.00	0.00	0.00							7.6	9.5	82.44	0.30	1.03	1.03	1.03	1.03								
	9.0	23.11	82.70	0.00	0.00	0.00								10.0	82.34	0.40	1.38	1.38	1.38	1.38								
	9.5	82.49	0.20	1.04	0.00	0.00								10.5	82.49	0.25	-0.09	-0.09	-0.09	-0.09								
	10.0	82.64	0.05		0.00	0.00								11.0	82.54	0.20	1.53	1.53	1.53	1.53								
	10.5	82.49	0.20	0.00	0.00	0.00								11.5	82.73	0.01	0.10	0.10	0.10	0.10								
	11.0	82.54	0.15	0.00	0.00	0.00								12.0	82.54	0.20	1.48	1.48	1.48	1.48								
	11.5	82.54	0.15	0.00	0.00	0.00								12.5	82.69	0.05	2.10	2.10	2.10	2.10								
	12.0	82.49	0.20	0.00	0.00	0.00								13.0	82.69	0.05	1.00	1.00	1.00	1.00								
	12.5	82.68	0.01	0.00	0.00	0.00								13.5	82.69	0.25	0.44	0.44	0.44	0.44								
	13.0	82.59	0.10	0.00	0.00	0.00								14.0	82.44	0.30	0.38	0.38	0.38	0.38								
	13.5	82.54	0.15	0.00	0.00	0.00								14.5	82.29	0.45	1.24	1.24	1.24	1.24								
	14.0	82.49	0.20	0.00	0.00	0.00								15.0	82.24	0.50	1.50	1.50	1.50	1.50								
	14.5	82.59	0.10	0.00	0.00	0.00								15.5	82.72	0.02	0.10	0.10	0.10	0.10								
	15.0	82.20	0.40	0.00	0.00	0.00								16.0	82.72	0.02	0.00	0.00	0.00	0.00								
	15.5	82.30	0.30	0.00	0.00	0.00								16.5	82.72	0.02	0.10	0.10	0.10	0.10								
	RWE	16.5	23.11	82.79	0.00	0.00								REW	16.9	82.74	0.00	0.00	0.00	0.00								
		18.0	22.30	83.60										RWP	35.8													
		26.0	21.60	84.30																								
		34.8	18.50	87.40																								
		39.0	9.70	96.20																								



Stream: Damme Creek	23-Sep-90			10-Apr-91			18-Mar-93									
	Sta (ft)	FS (ft)	Ground (ft)	Depth (ft)	V <sub>0.304</sub> (ft/s)	V <sub>0.8</sub> (ft/s)	NV <sub>0.304</sub> Ave	V <sub>0.304</sub>	V <sub>0.8</sub>	NV <sub>0.304</sub> Ave	V <sub>0.304</sub>	V <sub>0.8</sub>	NV <sub>0.304</sub> Ave	Angle (deg)	q (cfs)	substrate
Survey HI	0.0	19.60	86.30													
Date	6.0	21.20	84.70													
4/23/1991	8.0	22.60	83.30													
5/18/1993	8.7	22.95	83.95	0.10	0.00	0.36	0.00									
	9.5	8.7	82.80	0.15	0.36	0.16	0.00									
	10.0	19.60	82.85	0.10	0.16	0.16	0.16									
	10.5	82.85	0.10	0.00	0.00	0.00	0.00									
	11.0	82.75	0.20	0.35	0.35	0.35	0.35									
	11.5	82.65	0.30	0.69	0.69	0.69	0.69									
	12.0	82.75	0.20	0.75	0.75	0.75	0.75									
	12.5	82.70	0.25	0.62	0.62	0.62	0.62									
	13.0	82.65	0.30	0.00	0.00	0.00	0.00									
	13.5	82.55	0.40	0.00	0.00	0.00	0.00									
	14.0	82.50	0.45	0.55	0.55	0.55	0.55									
	14.5	82.45	0.50	0.00	0.00	0.00	0.00									
	15.0	82.65	0.30	0.53	0.53	0.53	0.53									
	15.5	82.65	0.30	0.88	0.88	0.88	0.88									
	16.0	82.75	0.20	0.11	0.11	0.11	0.11									
	16.5	82.90	0.05	0.00	0.00	0.00	0.00									
RWE	17.3	22.95	82.95	0.00	0.00	0.00	0.00									
	19.0	21.90	84.00													
	26.0	21.00	84.90													
	30.0	19.80	86.10													
RWP	35.4	17.90	88.00													



Sta (ft)	FS (ft)	Ground (ft)	Depth (ft)	V <sub>0.304</sub> (ft/s)	V <sub>0.8</sub> (ft/s)	NV <sub>0.304</sub> Ave	V <sub>0.304</sub>	V <sub>0.8</sub>	NV <sub>0.304</sub> Ave	Angle (deg)	q (cfs)	substrate
17.3	22.95	82.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.1
19.0	21.90	84.00										1.1
26.0	21.00	84.90										1.1
30.0	19.80	86.10										1.1
35.4	17.90	88.00										1.1

Sta (ft)	FS (ft)	Ground (ft)	Depth (ft)	V <sub>0.304</sub> (ft/s)	V <sub>0.8</sub> (ft/s)	NV <sub>0.304</sub> Ave	V <sub>0.304</sub>	V <sub>0.8</sub>	NV <sub>0.304</sub> Ave	Angle (deg)	q (cfs)	substrate
0.0	15.20	86.76										1.1
7.7	8.5	82.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.1
8.5	9.0	82.79	0.10	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.02	1.3
9.5	9.5	82.69	0.30	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.10	1.3
10.0	10.0	82.69	0.30	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.06	5.3
10.5	10.5	82.79	0.20	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.04	5.3
11.0	11.0	82.79	0.20	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.05	4.5
11.5	11.5	82.79	0.20	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.07	4.3
12.0	12.0	82.69	0.30	1.08	1.08	1.08	1.08	1.08	1.08	1.08	0.16	4.3
12.5	12.5	82.74	0.25	1.33	1.33	1.33	1.33	1.33	1.33	1.33	0.20	3.4
13.0	13.0	82.74	0.25	1.15	1.15	1.15	1.15	1.15	1.15	1.15	0.02	3.3
13.5	13.5	82.59	0.40	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.08	5.3
14.0	14.0	82.64	0.35	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.13	5.3
14.5	14.5	82.44	0.55	1.38	1.38	1.38	1.38	1.38	1.38	1.38	0.38	6.5
15.0	15.0	82.44	0.60	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.27	6.5
15.5	15.5	82.39	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.25	6.5
16.0	16.0	82.29	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.25	6.5
16.5	16.5	82.64	0.35	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.15	6.0
17.0	17.0	82.69	0.30	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.07	5.1
17.5	17.5	82.96	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.1
35.2												1.1

Deming Creek SP17 04/10/91

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RUN          MID          TRANSECT
IOC          1101100000001000100000
QARD 0.84
QARD 1.00
QARD 1.10
QARD 1.20
QARD 1.30
QARD 1.40
QARD 1.50
QARD 1.60
QARD 1.70
QARD 1.75
QARD 1.80
QARD 1.90
QARD 2.00
QARD 2.20
QARD 2.50
QARD 2.80
QARD 3.20
QARD 3.70
QARD 4.30
QARD 5.00
QARD 6.00
QARD 7.00
QARD 8.50
QARD 10.0
QARD 12.0
QARD 15.0
QARD 18.0
QARD 21.0
QARD 24.0
QARD 26.9
XSEC1000.0      0.00 1.0      82.21  0.0394
      1000.0  0.086.60  3.084.80  5.382.80  5.582.51  6.082.46  6.582.21
      1000.0  7.082.16  7.582.21  8.081.96  8.581.91  9.082.36  9.582.21
      1000.0 10.082.01 10.581.91 11.082.01 11.582.41 12.082.46 12.382.51
      1000.0 17.084.00 23.084.10 29.487.10
NS 1000.0      1.1      1.1      1.1 0.3  1.1 0.27  6.6      6.5
NS 1000.0      6.5      6.5      6.5      5.3 .09  6.5      6.5
NS 1000.0 0.35  5.3      5.3      5.3      5.4 0.26  6.3 0.3  6.3
NS 1000.0      1.1      1.1      1.1
CAL11000.0      82.51      1.75
VEL11000.0      9 0.000.001 0.49 0.34 0.73 1.03 0.82 1.38 1.11
VEL11000.0 0.22 0.72 0.80 0.270.001 0.00
CAL21000.0      82.45      0.84
VEL21000.0
VEL21000.0
CAL31000.0      83.46      26.9
VEL31000.0
VEL31000.0
ENDJ

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Deming Creek SP17 04/10/91

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RUN          MID          TRANSECT
IOC          1101100000001000100000
QARD 0.84
QARD 1.00
QARD 1.10
QARD 1.20
QARD 1.30
QARD 1.40
QARD 1.50
QARD 1.60
QARD 1.70
QARD 1.75
QARD 1.80
QARD 1.90
QARD 2.00
QARD 2.20
QARD 2.50
QARD 2.80
QARD 3.20
QARD 3.70
QARD 4.30
QARD 5.00
QARD 6.00
QARD 7.00
QARD 8.50
QARD 10.0
QARD 12.0
QARD 15.0
QARD 18.0
QARD 21.0
QARD 24.0
QARD 26.9
XSEC1000.0      0.00 1.0      82.51  0.0394
    1000.0  0.086.80  4.086.30  8.582.54  9.082.34  9.582.44 10.082.34
    1000.0 10.582.49 11.082.54 11.582.73 12.082.54 12.582.59 13.082.69
    1000.0 13.582.49 14.082.44 14.582.29 15.082.24 15.582.72 16.082.72
    1000.0 16.582.72 16.982.74 18.083.60 26.084.30 34.887.40 39.096.20
NS 1000.0      1.1      1.1      7.6 .2    7.7 .15   5.6      6.6
NS 1000.0 .2    6.7      6.7 .08   6.7      6.6 .06   6.6 .06   6.6
NS 1000.0 .2    6.7 .28   6.6      6.6      6.6 .15   6.6 .215  6.5
NS 1000.0      6.5      6.5      1.1      1.1      1.1      1.1
CAL11000.0      82.74      1.75
VEL11000.0      0.001 0.031.030 1.38-0.09 1.53 0.10 1.48 2.10 1.00
VEL11000.0 0.44 0.38 1.24 1.500.1000.001 0.10 0.00
CAL21000.0      82.69      0.84
VEL21000.0
VEL21000.0
CAL31000.0      83.59      26.9
VEL31000.0
VEL31000.0
ENDJ

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Deming Creek SP17 04/10/91

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RUN                MID                TRANSECT 3
IOC                1101100000001000100000
QARD 0.84
QARD 1.00
QARD 1.10
QARD 1.20
QARD 1.30
QARD 1.40
QARD 1.50
QARD 1.60
QARD 1.70
QARD 1.75
QARD 1.80
QARD 1.90
QARD 2.00
QARD 2.20
QARD 2.50
QARD 2.80
QARD 3.20
QARD 3.70
QARD 4.30
QARD 5.00
QARD 6.00
QARD 7.00
QARD 8.50
QARD 10.0
QARD 12.0
QARD 15.0
QARD 18.0
QARD 21.0
QARD 24.0
QARD 26.9
XSEC1000.0        0.00 1.0      82.81  0.0394
    1000.0  0.086.30  6.084.70  7.782.99  8.582.89  9.082.79  9.582.69
    1000.0 10.082.69 10.582.79 11.082.79 11.582.79 12.082.69 12.582.69
    1000.0 13.082.74 13.582.79 14.082.59 14.582.64 15.082.44 15.582.39
    1000.0 16.082.29 16.582.64 17.082.69 17.582.96 19.084.00 26.084.90
    1000.0 30.086.10 35.488.00
NS 1000.0        1.1      1.1 .6    1.1 .6    1.3 .4    1.3      1.3
NS 1000.0 .30    5.3      5.3      4.5      4.3      4.3 .105    3.4
NS 1000.0 .3     3.3 .2    3.5 .25   5.3      5.3      6.5      6.5
NS 1000.0        6.5      6.6      5.1 .3    5.1      1.1      1.1
NS 1000.0        1.1      1.1
CAL11000.0       82.99    1.75
VEL11000.0        0.000.001 0.18 0.67 0.37 0.44 0.51 0.69 1.08 1.33
VEL11000.0 0.13 0.15 0.38 0.75 1.38 0.91 0.70 0.85 0.480.001
VEL11000.0
CAL21000.0       82.95    0.84
VEL21000.0
VEL21000.0
VEL21000.0
CAL31000.0       83.86    26.9
VEL31000.0
VEL31000.0
VEL31000.0
ENDJ

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