

12-4-2009

Ex. 280-US-477

Unknown

Follow this and additional works at: <https://digitalcommons.law.uidaho.edu/all>

Recommended Citation

Unknown, "Ex. 280-US-477" (2009). *Hedden-Nicely Collection, All*. 515.
<https://digitalcommons.law.uidaho.edu/all/515>

This Misc Filing is brought to you for free and open access by the Hedden-Nicely at Digital Commons @ UIdaho Law. It has been accepted for inclusion in Hedden-Nicely Collection, All by an authorized administrator of Digital Commons @ UIdaho Law. For more information, please contact annablaine@uidaho.edu.

"Outdoor writing products for outdoor writing; people."

DURARite[®]
WATERPROOF

LEVEL

Waterproof Notebook
No. 611



RECYCLABLE

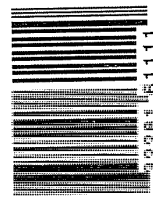
"DuraRite" - is a synthetic paper that is ideally suited for use in extreme weather conditions. A full line of "DuraRite" notebooks and loose leaf sheets are available. Custom printed "DuraRite" books, forms and tags can be made to meet your specific requirements.

"DuraCopy" and "Rite in the Rain" all-weather copier papers are also available which enable you to create all-weather forms, charts and maps on your copier or laser printer. See your dealer or contact the J. L. Darling Corporation for details.

a product of
J. L. DARLING CORPORATION
Tacoma, WA 98424-1017 USA
(253) 922-5000 • FAX (253) 922-5300
www.DuraRite.com

Klamath
June 2007
SF Sprague DIS Brownsworth PHASIM

4 5/8" x 7" - 48 Numbered Pages



6 52261 61111 0

8

SF Sprague R. d/s Brownsburgh Cr.

Crew M. Gagner
N. Romero

In Out
Time 9.52 1:25
S.G. 13.D

Weather: clear & warm in p.m.
in mist & fine

* started habitat survey - 40' d/s
of confluence with
in d/s Brownsburgh

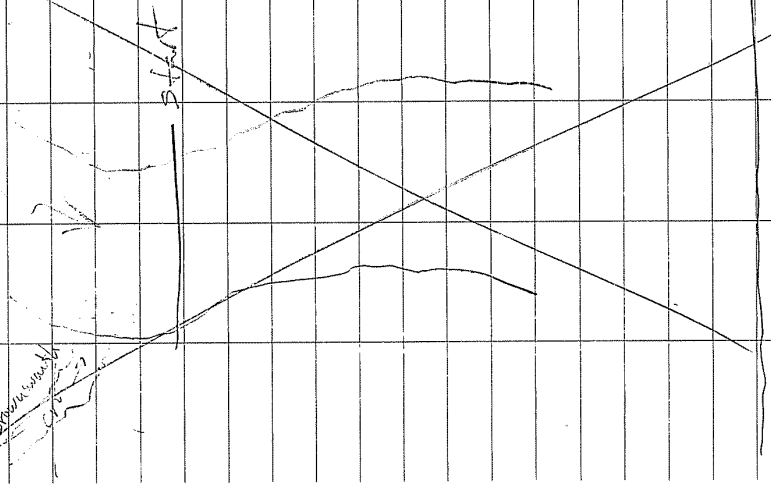
* stopped upon end

N 42° 23.57' T
W 120° 51' 57"

INSRS Macroinvertebrate Station # 2 (8/95)
T 375 R 15 E 52

9

SE Sprague Habitat Monitoring
8/6/95



Equipment: Nikon Level SW.

10	SIF Spruce	1/27/07	04/27/11
Habitat	Commissioner's Co		
Length	38		
Area	34		
TR-1	35		
TR-2	35		
TR-3	37		
TR-4	31		
TR-5	35		
TR-6	37		
TR-7	31		
TR-8	35		
TR-9	37		
TR-10	31		
TR-11	35		
TR-12	37		
TR-13	31		
TR-14	35		
TR-15	37		
TR-16	31		
TR-17	35		
TR-18	37		
TR-19	31		
TR-20	35		
TR-21	37		
TR-22	31		
TR-23	35		
TR-24	37		
TR-25	31		
TR-26	35		
TR-27	37		
TR-28	31		
TR-29	35		
TR-30	37		
TR-31	31		
TR-32	35		
TR-33	37		
TR-34	31		
TR-35	35		
TR-36	37		
TR-37	31		
TR-38	35		
TR-39	37		
TR-40	31		
TR-41	35		
TR-42	37		
TR-43	31		
TR-44	35		
TR-45	37		
TR-46	31		
TR-47	35		
TR-48	37		
TR-49	31		
TR-50	35		
TR-51	37		
TR-52	31		
TR-53	35		
TR-54	37		
TR-55	31		
TR-56	35		
TR-57	37		
TR-58	31		
TR-59	35		
TR-60	37		
TR-61	31		
TR-62	35		
TR-63	37		
TR-64	31		
TR-65	35		
TR-66	37		
TR-67	31		
TR-68	35		
TR-69	37		
TR-70	31		
TR-71	35		
TR-72	37		
TR-73	31		
TR-74	35		
TR-75	37		
TR-76	31		
TR-77	35		
TR-78	37		
TR-79	31		
TR-80	35		
TR-81	37		
TR-82	31		
TR-83	35		
TR-84	37		
TR-85	31		
TR-86	35		
TR-87	37		
TR-88	31		
TR-89	35		
TR-90	37		
TR-91	31		
TR-92	35		
TR-93	37		
TR-94	31		
TR-95	35		
TR-96	37		
TR-97	31		
TR-98	35		
TR-99	37		
TR-100	31		

12		13						
STA	Ripple	Unit	Level	Level	TR	Depth	Vol	Remarks
HT	HT	HT	FS	FS	TR	TR	TR	TR
BMP-5.14	5.14	105.14	100.00		0.0	0.0	0.0	
TR-1 HP		105.14	98.71	6.43	0.95	0.89	0.89	measurements 4/27/07
TR-2 HP			98.97	6.17	1.2	1.58	1.58	Corrections
TR-3 HP	5.72		98.97		1.40	1.12	1.12	
TR-1 HP		104.09		5.98	1.45	2.42	2.42	
BMP					1.40	3.01	3.01	side top BMP/cable
TR-1 LWS				4.70	1.20	3.08	3.08	side top BMP/cable
RWS				10.80	1.20	3.36	3.36	side top BMP/cable
LWS				10.80	1.20	3.00	3.00	side top BMP/cable
TR-2 LWS				10.80	0.90	2.80	2.80	side top BMP/cable
RWS				10.80	0.90	2.55	2.55	side top BMP/cable
LWS				10.80	1.10	2.59	2.59	side top BMP/cable
TR-3 LWS				10.80	1.2	3.14	3.14	side top BMP/cable
RWS				10.80	1.20	0.68	0.68	side top BMP/cable
LWS				10.80	1.0	4.17	4.17	side top BMP/cable
TR-3 RWS				10.80	1.30	3.37	3.37	side top BMP/cable
RWS				10.80	0.90	3.76	3.76	side top BMP/cable
LWS				10.80	1.20	0.24	0.24	side top BMP/cable
TR-3 RWS				10.80	1.1	3.63	3.63	side top BMP/cable
RWS				10.80	1.15	3.52	3.52	side top BMP/cable
LWS				10.80	1.30	3.00	3.00	side top BMP/cable
TR-3 RWS				10.80	1.30	0.31	0.31	side top BMP/cable

Klamath Trip 04/23 - 04/27

Monday 23 - 11
 Tue 24 - 10.5
 Wed 25 - 11.5
 Thur 26 - 11.5
 Friday 0700 -

04/27/07

14 SF: sprayer d/s Brownsword Cr. Comments

STA Depth Vel
 62.0 1.1 1.37
 52.6 0.95 0.59 ups vel. broke - sp
 LWE 63.2 0.0 b.d.
 LWP = 73.2
 swiffer: 4099
 OREG: 7A
 call: 0175

Possible Redband Redd (Unit # 3 ripples)
 #1
 length: 3.0'
 width: 1.75'
 depth: 0.8'
 velocity = 1.1 cfs
 #2
 length: 2.75'
 width: 2.0'
 depth: 1.0'
 velocity = 0.9

6/14/07

S.F. Sprague R/d/s Brownsworth

Crew: M Gagne
N. Romano

In Out
Time 9:45 3:45
5:6 5:80 5:80

Equipment: Nikon Level
Suffer: 4079
PROP 4A
CAL: 0175

Rillo Level Coop & WSE
STA BS HI FS Eleva Rod

B.M.	4.49			100.00	
TR-1 HP		104.49	5.74	98.73	✓
TR-3 HP			5.51	98.90	
TR-3 HP				98.90	
TR-1 HP		104.18	5.48	98.64	
B.M.			4.21	99.91	
* B.M.	4.48			100.00	*
TR-1		104.48	5.75	98.73	✓
TR-3			5.50	98.98	
TR-3	5.20			98.98	
TR-1		104.18			
			4.18	100.00	✓
			5.45	98.73	✓
B.M.			4.18	100.00	

18	Riffle	WSE	Cont.	FS	Cont.	Red	STA	Riffle Depth	TR-1 Vel	19 6/14/07
TR-1 HP	2,83	101.56					21.1	0.0	0.0	Comments
RWS				8.22	98.73	0.59	22	0.53	0.18	
MWS				8.53	93.95	0.92	24	0.78	0.51	
LWS				8.35	93.90	0.69	26	1.0	0.35	1/2 vel break
LWS				8.55	93.89	0.88	28	1.18	1.23	
MWS				8.37	93.95	0.76	30	1.20	1.57	
TR-2 HP	3,12				98.98		31	1.20	1.55	*
TR-2		102.10					33	0.70	1.02	
RWS				8.50	94.11	0.51	34	0.80	1.65	trace vegetation
MWS				8.80	94.10	0.80	36	0.55	1.02	trace vegetation
LWS				8.67	94.10	0.67	38	0.65	1.56	trace vegetation
TR-3 HP	5,81				98.98		40	0.80	1.84	
TR-3		104.79					42	0.80	2.03	(0.2' depth over by bld)
RWS				10.84	95.00	1.05	44	0.88	0.29	1/2 vel break
MWS				10.41	95.03	0.68	46	0.65	2.51	
LWS				10.15	95.01	0.45	48	0.92	1.46	
LWS				10.18	95.09	0.48	50	0.67	0.91	
MWS				10.31	95.04	0.56	52	0.95	0.22	1/2 vel break (alt vel)
RWS				10.91	95.01	1.17	53, 7	0.80	0.52	1/2 vel break
							56.0	0.78	0.89	
							58	0.70	0.96	
							60	0.85	0.79	
							62.6	0.45	0.0	
							LWF= 62.7	0.0	0.0	

20 SFR Spine w/ls Bransworth C.v.		Rifle TR-2		06/14/07		Cammerds	
STA	Depth	Vel					
6.0	RWE	0.0	0.0				
7.5	0.2	0.0	u/s vel break / sig				
9.0	0.6	0.0	"				
10.5	0.90	0.23	u/s bld vel break				
12.0	1.10	0.24	"				
13.5	1.32	0.26	"				
15.0	1.70	0.71	"				
16.5	1.25	1.41	top bld / cob				
18.0	1.23	2.23	"				
19.5	1.80	1.79 / 0.81	u/s bld				
21.0	1.68	2.14 / 0.45	"				
22.5	2.00	1.0 / 2.40	"				
24.0	0.78	0.88	top bld, u/s bld vel cov				
25.5	0.82	1.99	"				
27.0	0.40	2.12	"				
28.5	0.60	1.77	"				
30.0	0.70	1.74	"				
31.5	0.70	1.78	"				
33.0	0.90	2.00	"				
34.5	0.80	0.40	u/s vel break				
36.0	0.50	0.03	"				
37.5	0.60	0.68	"				
38.8	0.25	0.0	0.1 ucb				
38.9	LWE	0.0	0.0				

21		Rifle TR-3		06/14/07		Cammerds	
STA	Depth	Vel					
	RWE	20.2	0.0				
21.5	0.95	0.41	u/s vel break				
22.0	1.1	0.52	"				
24.0	1.25	0.81 / 0.10	"				
26.0	0.75	0.88	"				
28.0	0.45	1.03	"				
30.0	0.60	1.84	"				
32.0	0.62	1.86	"				
34.0	0.60	1.89	"				
36.0	0.80	2.53	"				
38.0	0.68	1.67	"				
40.0	0.52	1.79	"				
42.0	0.35	1.97	top cobb				
44.0	0.35	1.85	"				
46.0	0.40	1.17	"				
48.0	0.80	1.41	"				
50.0	0.55	1.60	"				
52.0	0.70	1.49	"				
54.0	0.60	1.44	"				
56.0	0.60	1.20	"				
58.0	0.40	1.03	"				
59.6	0.0	0.0	LWE				

22	Cascade Level Loop	6/14/67	23
STA	BS	HI	ES
TR-1	8.70	108.70	97.32
TR-1		108.88	97.32
TR-2		98.98	98.98
TR-3		6.37	98.98
TR-3		108.85	98.98
TR-3		9.87	98.98
TR-3		10.03	98.98
TR-3		8.85	98.98
TR-2		8.01	98.98
TR-2		12.16	95.09
TR-2		12.41	95.06
TR-2		12.75	95.07
TR-3		3.46	96.47
TR-3		10.10	96.62
TR-3		10.53	96.59
TR-3		9.53	96.49
TR-3		2.16	102.36
TR-3		5.30	96.41
TR-3		8.12	96.52

24	S. File Sprague	d/s	BRUNNEN	TR-1	06/14/07	25
STA	Depth	Vel	Comments	Cascade	TR-2	06/14/07
RWP 8.6	∅	∅	RWP 1.0			Cascade Sta's
10.5	0.30	0.31	Front of Bldr	∅	u/s Boulder Cover	
12.0	0.55	0.13		0.30		
14.0	0.50	1.11		0.25		
15.5	0.60	0.55		0.40		
17.0	0.75	0.32	u/s velocity break	0.45		
18.5	0.90	1.64		0.50	u/s Boulder Cover	
20.0	1.10	2.03		0.50	est velocity	
21.5	1.00	0.49	u/s velocity break	0.50	edge of Bldr	
23.0	0.82	1.63		1.35		
24.5	0.90	0.36	u/s velocity cover	1.00	Top of Bldr	
26.0	0.90	1.08	u/s velocity cover	1.00	Side of Bldr	
27.5	0.82	2.41	u/s of cobble	1.10		
29.0	1.15	1.23/2.34		0.60	0.5 of Bldr (10.5 velocity)	
31.5	0.70	0.98/2.51		1.40	0.5 of Bldr (10.5 velocity)	
33.0	1.25	1.91		1.60	latter edge of Bldr	
35	1.27	2.26		1.70		
35.0	1.18	2.22		0.90	Top of Bldr	
36.5	0.97	0.87		1.40		
38.0	1.10	1.31		1.60		
39.5	0.87	1.14		1.00	Top of Bldr	
40.0	0.35	0.10	Est velocity	0.80		
40.9	∅	∅		0.10	Top of Bldr	
45.4	∅	∅		0.25	Top of Bldr	

S. Fk Sprague R

d/s of Brownsworth

9/28/07

In Dist
Time 10:00 1:30
S.B. -1.5 -1.5

Crew: M. Gerner
C. Huang

Equipment: Level Nikon SW

Survey 4441
page 1 of 1
Cal. 0186

Comments:

9/29/07

STA	BS	HI	FS	Elev
BM	5.34	105.34		100.00
TR-1			6.61	98.73
TR-3			6.35	98.99
TR-3	6.14	105.13		98.99
TR-1			6.40	98.73
BM			5.13	100.00

RIIY Unit
level Loop

30		9/28/07		31	
R. No	TR-1	Bank Profile	TR-1	DIV	9/28/07
STA	FS	FS	Depth	Sub	%
TR-1 HP	4.86		0.0	silt	70
RWP=1.0		7.38	0.0	silt	60
7.0		8.17	0.45	sm gr	70
13.0		8.62	0.75	sm gr	60
19.0		9.05	0.80	cobb	70
21.2		9.70	1.19	lg gr	70
21.5 RWE		10.04	1.15	lg gr	80
RWS (24)		10.53	1.29	lg gr	70
MWY (69)		10.37	1.28	lg gr	60
LWS (57)		10.56	0.63	"	70
62.87 LWE		10.08	0.20	"	"
63.0		9.45	0.40	"	60
68.0		8.66	0.50	"	60
71.0		8.25	0.43	"	70
DWS=72.5		7.09	0.40	"	80
LW=73.2		6.98	0.50	"	80
			0.45	cobb	70
			0.37	cobb	70
			0.22	sand	60
			0.40	"	70
			0.52	"	60
			0.56	sm gr	70
			0.72	silt	80
			0.0	veg	
			LWE=62.7		

30		9/28/07	
R. No	TR-1	Bank Profile	TR-1
STA	FS	FS	Depth
TR-1 HP	4.86		0.0
RWP=1.0		7.38	0.0
7.0		8.17	0.45
13.0		8.62	0.75
19.0		9.05	0.80
21.2		9.70	1.19
21.5 RWE		10.04	1.15
RWS (24)		10.53	1.29
MWY (69)		10.37	1.28
LWS (57)		10.56	0.63
62.87 LWE		10.08	0.20
63.0		9.45	0.40
68.0		8.66	0.50
71.0		8.25	0.43
DWS=72.5		7.09	0.40
LW=73.2		6.98	0.50
			0.45
			0.37
			0.22
			0.40
			0.52
			0.56
			0.72
			0.0
			LWE=62.7

32 Riffle		TR-2		Bank Profile & WSE		9/27/07		TR-2		9/27/07		33					
STA	BS	H/I	FS	Eleo/Rod	Substn	R. 164	depth	Vel	Down	Sub	% Coar	STA	depth	Vel	Down	Sub	% Coar
BMA	2.25			100.00		0.0	0.0	0.0	silt	sm gr	70	8.2	0.0	0.0	silt	sm gr	70
+7.0		102.25	4.92		veg/silt	0.15	0.0	0.0	"	sand	70	9.0	0.15	0.0	"	sand	70
RWF=1.0			5.50		"	0.50	0.37	0.37	silt	cobb	60	10.5	0.50	0.37	silt	cobb	60
3.0			6.08		"	0.75	0.24	0.24	cobb	silt	60	12.0	0.75	0.24	cobb	silt	60
5.0			6.50		"	0.90	0.51	0.51	"	"	70	13.5	0.90	0.51	"	"	70
5.30			8.10		silt/LWD	1.27	0.07	0.07	blt	sand	60	15.0	1.27	0.07	blt	sand	60
RWF=8.2			8.55		silt/veg	0.90	1.33	1.33	"	sm gr	80	16.5	0.90	1.33	"	sm gr	80
						0.80	0.75	0.75	cobb	blt	70	18.0	0.80	0.75	cobb	blt	70
						1.20	0.60	0.60	cobb	lg gr	60	19.5	1.20	0.60	cobb	lg gr	60
						1.25	0.99	0.99	"	"	"	21.0	1.25	0.99	"	"	"
						1.10	0.46	0.46	"	"	70	22.5	1.10	0.46	"	"	70
						0.40	0.36	0.36	blt	cobb	60	24.0	0.40	0.36	blt	cobb	60
						0.40	1.17	1.17	"	"	"	25.5	0.40	1.17	"	"	"
						0.0	0.0	0.0	"	"	"	27.0	0.0	0.0	"	"	"
						0.20	0.90	0.90	"	lg gr	60	28.5	0.20	0.90	"	lg gr	60
						0.35	0.95	0.95	"	"	"	30.0	0.35	0.95	"	"	"
						0.35	1.16	1.16	lg gr	cobb	70	31.5	0.35	1.16	lg gr	cobb	70
						0.50	0.88	0.88	"	sm gr	70	33.0	0.50	0.88	"	sm gr	70
						0.40	0.13	0.13	"	silt	70	34.5	0.40	0.13	"	silt	70
						0.10	0.0	0.0	silt	lg gr	"	36.0	0.10	0.0	silt	lg gr	"
						0.30	0.0	0.0	"	sm gr	"	37.5	0.30	0.0	"	sm gr	"
						0.0	0.0	0.0	"	veg	80	LWF 38.8	0.0	0.0	"	veg	80

34	R. 166	TR-3	Bank Profile	9/27/07	WSE	35	R. 166	TR-3	D	EV	9/27/07
STA	BS	HI	FS	Elve/Kod	Sub.	STA	Depth	Vel	Dir	Sub	%
TR-3 HP	5.95	104.94		98.99		RWE 20.8	0.0	0.0	veg	5.4	70
-6.0			6.18		veg/dirt	21.5	0.46	0.0	silt	sm gr	70
8.0			6.53		"	22.0	0.55	0.0	"	"	"
6.7			7.38		"	24.0	0.80	0.0	sm gr	silt	60
10.0			8.34		"	26.0	0.30	0.90	"	lg gr	75 (15%)
15.0			9.06		veg/silt	28.0	0.05	0.10	"	"	70
20.2			9.88		"	30.0	0.20	0.42	lg g	sm gr	60
RWE = 20.8			9.93		"	32.0	0.25	1.58	lg gr	cobb	80
			10.25		"	34.0	0.30	1.47	"	"	"
						36.0	0.45	2.49	"	"	"
						38.0	0.30	1.72	"	"	80 10%
						40.0	0.25	1.73	"	"	" 30%
						42.0	0.05	1.3	"	"	"
						44	0.25	1.80	cobb	lg	60 45%
						46	0.20	0.89	"	"	"
						48	0.40	0.46	lg gr	cobb	70
						50	0.10	1.3	"	"	60
						52.0	0.30	0.52	"	"	70 30%
						54	0.30	1.01	"	"	"
						56	0.35	1.04	cobb	sm gr	60
						58	0.0		cobb	silt	60
						LWE 54.0	0.0				

