

12-4-2009

Ex. 280-US-455

Mike Gagner
R2 Resource Consultants

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

Recommended Citation

Gagner, Mike, "Ex. 280-US-455" (2009). *Hedden-Nicely Collection, All*. 493.
<https://digitalcommons.law.uidaho.edu/all/493>

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.

UKB
1718.01N

DURA *Lite*
WATERPROOF
FIELD
No. 653

Whiskey Cr.
PHABSIM Data

04/22/09

CONTENTS		DATE
PAGE	REFERENCE	

Whiskey Co		69/22/09
In	West	
9,000	6,100	
s. 6	0.0	0.0
		Ne
Crew: M. Boyer		
N. Ramm		
Start - N 42, 42767 (300)		
W 121, 34244		
Old Division station: N 48, 42654		
Cyls (padding) W 121, 34196 (400)		
END		

①

Photo Log Habitat 4/22/09

Photo #	Location	Habitat	Date
	up/s	# 1154	
	down division	# 1155	
	downstream	1156	
		1157	
	up/s from STA 380	# 1158	
	downstream	"	
	up/s from STA 55	1160	
	downstream	"	
	up/s from all Division	# 1162	
	pastured water	1163	
	up/s at pond	1164	
	across valley	1165	
	up/s from pond	1166	

(16)

04/22/09

STA	Feature	Length	Ave Width	
0.0	glide	59'	6.5'	division
54.0				passals
110			23"	
220	run		23'	Ave D = 1.5'
260	glide			gravel
300			18.6'	Ave D = 0.8'
380	run		15.0'	side gap
415	"		"	
465	ripple		20'	
475				
510	pool	max 2.7'	25'	Ave width 25'
530	ripple		16"	
555	pool		15'	Ave width 5'
575	ripple			Ave D = 1.5'
*				Ave: 17.7' width

(3)

Whiskey Cae Transect Selection

Survey length = 578' total length

* habitat is very homogeneous with low gradient \therefore sivers/boom

* will start with at property boundary and randomly place transects

* Random #s place transects " 90' apart to cover the largest portion of the sample reach.

Whiskey Cr. Level loop				
STA	BS	HI	FS	Elev.
B.M.	1.76			100.05
TR-1 (HP)		101.76	4.24	97.57
TR-2 (HP)			4.78	96.98
TR-3 (HP)			4.66	97.84 97.10
TR-4 (HP)			4.04	97.72
TR-5 (HP)			4.51	97.25
TR-6 (HP)			4.79	96.97
(TP)				
TR-6	5.55			96.97
TR-5		102.52	5.27	97.25
TR-4			4.81	97.71
TR-3			5.49	97.10

Whiskey Cr.				9/22/09
STA	BS	HI	FS	Elev
TR-2		102.52	5.55	96.97
TR-1			5.00	97.52
BM			2.52	100.00
Photo Log				
TR-1	LH → RT			1167
	W/S			1168
TR-2	LH → RT			1169
	W/S			1170
TR-3	LH → RT			1171
	W/S			1172
	LH → RT			1173
	W/S			1174
TR-4	W/S			1176
	W/S			1177
TR-5	LH → RT			1178
	LH → RT			1179
TR-6	W/S			1180
	W/S			1181
	LH → RT			1182

(6)

Whiskey Cr.				WSE	04/22/09
STA	BS	HI	FS	Elev	Red
TR-1 (HP)	4.29			97.52	
		101.81			
LWS			6.07	95.74	
RWS			6.08	95.73	
TR-2		101.81			
LWS			6.07	95.74	
RWS			6.06	95.75	
TR-3		101.81			
LWS			6.04	95.77	
RWS			6.05	95.76	
TR-4		101.81			
LWS			6.01	95.80	
RWS			6.02	95.79	
BM	2.23	102.23		100.00	
TR-5					
LWS			6.39	95.84	
RWS			6.40	95.83	
TR-6					
LWS			6.14	96.09	
RWS			6.15	96.08	

(7)

v/s N 104' from TR-6
 LWS — 5.91
 RWS — 5.91
 96.32
 96.32

STA	Depth	TR-1 Vel	Run/Slide	Transsect	4/22/09	TR-1	BS	H-F	FS	Sub
STA 7.6	0.8	0.0	DRIVE sub	-	100	UB	4.40			
8.0	1.05	0.17	silt	-	100				5.06	veg
8.75	1.35	0.38							5.07	veg
9.30	1.40	0.38							5.11	veg
10.0	1.55	0.37							5.25	veg
10.7	1.40	0.30							5.74	veg
10.4	1.45	0.31			100					
12.1	1.55	0.36	silt	Ag Veg	70				6.21	veg
12.8	1.85	0.35	"	"	60				5.73	
13.5	1.55	0.44	Ag veg	silt	70				5.54	
14.2	2.00	.41	"	"	60				5.62	veg
14.9	1.95	0.44	silt	Ag veg	60					
15.6	2.0	0.33			70					
16.3	2.05	0.25			80					
17.0	2.05	0.40			90					
17.7	2.00	0.34	silt	-	100					
18.4	1.90	0.30								
19.1	1.85	0.30			100					
19.8	1.65	0.22								
20.5	1.40	0.16	silt	ag veg	80					
21.2	1.20	0.13	"	"	60					
21.9	out .20	-	veg	silt	80					
22.6	" .10	-	"	"	11					
23.3	out .10	-	"	"	11					

9/22/09

TR-1 Bed/vel. 7.6

STA 7.6 has out' of ECB

9

04/22/09

Sta	Depth	TR-1	Whiskey Cr	TR-2	Bank Profile
Sta	Depth	Vel	Dir	Sub	% Cov
23.5	0.4	0.0	veg	subt	80 veg
24.2	0.5	0.0	"	"	" "
24.9	0.35	0.0	"	"	" "
25.6	0.20	0.0	subt	veg	60 "
26.3	0.20	"	"	"	" "
26.9	0.25	0.0	"	"	" "
27.6	0.25	0.0	"	"	" "
28.3	0.25	0.0	"	"	" "
29.0	0.10	0.0	"	"	" "
RWF 30.1	0.0	0.0	"	"	" "

Sta	BS	HT	FS	Elem	Sub
TR-2 (HP)	41.94			76.98	
LWP = 3.0			5.63		veg 100
6.0			5.71		veg 100
9.0			5.84		veg 100
LWP = 18.6			6.25		veg / silt 80
RWF = 40.2			6.22		veg / silt 80
41.0			5.95		veg 100
43.0			5.54		{
47.0			5.32		{
RWF = 49.0			5.22		veg 100
54.5			5.18		veg 100

Whiskey 04/22/09

TR-2

STA	Depth	Vel	Down	Sub	Cover
28.8	1.35	51.90	silt		
29.5	3.10	51.26			
30.2	3.15	58.36			
30.9	3.00	17.40			
31.6	2.60	57.18			
32.3	2.5	57.00			
33.0	2.0	0.42			
33.7	1.6	0.16			
34.4	1.40	0.11			
35.1	1.40	0.0			
35.8	1.20	0.0			
36.5	1.20	0.0			
37.2	0.30	0.0	veg	silt	70
37.9	0.2	0.0	"	"	70
38.5	0.1	0.0	"	"	70
39.0	0.0	0.0	"	"	80

AVE=39.0

Whiskey 04/22/09

TR-2

STA	Depth	Vel	Down	Sub	%	Cover
13.0	0.0	0.0	veg	silt	80	
13.7	0.15	0.0	"	"	"	
14.4	0.25	0.0				
15.1	0.30					
15.8	.40					
16.5	.50					
17.2	.60					
17.9	0.40					
18.6	.35					
19.2	0.30					
19.9	.30					
20.3	0.0					
20.7	0.15					
21.0	0.0	0.0				
21.7	1.30	0.0	silt		100	
22.4	1.40	0.05				
23.1	1.50	0.05				
23.8	1.70	0.05				
24.5	2.25	0.05				
25.2	2.55	0.05				
25.9	2.75	0.09				
26.6	2.9	0.07				
27.3	3.1	0.11				
28.0	3.3	0.21				

(13)

(12)

Meter # 3602
 Prop 5B/125sec 01/22/09

Whiskey Cr Com/Guide
 TR-3 CONTINUE

STA	Depth	Vel	TR-3	Sub	% Cover
9.0	0.0	0.0			
9.2	2.65	0.50		Ag Veg (70%) / Silt	70%
9.9	2.05	0.78		DNC (overload cones)	
10.5	2.40	0.69		Silt (100%) / DNC	100%
11.0	2.35	0.79		Silt (100%)	
11.5	2.40	0.84		Silt (90%) / Ag Veg	90%
12.0	2.38	0.59		Silt (80%) / Ag Veg	80%
12.5	2.15	0.52		Silt (70%) / Ag Veg	70%
13.0	1.77	0.59		Silt (70%) / Ag Veg	70%
13.5	1.90	0.54		Silt (70%) / Ag Veg	70%
14.0	1.70	0.22		Silt (70%) / Ag Veg	70%
14.5	1.65	0.22		Silt (70%) / Ag Veg	70%
15.0	1.50	0.34		Silt (80%) / Ag Veg	80%
15.5	1.50	0.34		Silt (70%) / Ag Veg	70%
16.0	1.38	0.34		Silt (80%) / Ag Veg	80%
16.5	1.20	0.33		Silt (90%) / Ag Veg	90%
17.0	0.95	0.30		Silt (70%) / Ag Veg	70%
17.5	0.90	0.18		Silt (70%) / Ag Veg	70%
18.0	0.90	0.05		Silt (90%) / Ag Veg	90%
18.5	0.35	0.0		Ag Veg (70%) / Silt	70%
19.5	0.20	0.0		Ag Veg (70%) / Silt	70%
21.0	0.0	0.0		Silt (60%) / Ag Veg	60%
24.0	0.35	0.0		Ag Veg (80%) / Silt	80%
26.0	0.35	0.0		Silt (70%) / Ag Veg	70%
27.5	0.35	0.05		Silt (70%) / Ag Veg	70%

(15)

Whiskey Cr
 TR-3

STA	Depth	Vel	TR-3	Sub	% Cover
28.5	0.50	0.05		Ag Veg (70%) / Silt	70%
30.0	0.50	0.00		Ag Veg (70%) / Silt	70%
31.5	0.80	0.05		Silt (80%) / Veg	80%
33.5	0.65	0.05		Silt (80%) / Ag Veg	80%
35.5	0.60	0.05		Silt (70%) / Ag Veg	70%
38.0	0.35	0.00		Ag Veg (60%) / Silt	60%
41.0	0.20	0.00		Ag Veg (60%) / Silt	60%
Ave 42.7	0.0	0.0		Silt (70%)	70%

(14)

STA	BS	HI	Bank	Profile	04/22/09
TR-3(HI)	4.82		1.5	97.10	Sub
TR-3 wp 3.0					veg 100
6.0		5.37			" "
8.0		5.44			" "
LWE = 9.0		5.67			" "
		6.05			" silt 60
RWE = 93.0		6.22			veg silt 70
52.0		5.88			veg 100
66.0		5.52			} }
Rwp = 79.3		5.42			} }
X d/s	TR-1	~ 90'			
		6.21			

(16)

STA	BS	HI	FS	El. Elev	Sub
TR-4(HI)	4.21				
LWE = 3.0			4.79		veg 100
5.5			5.11		" "
6.7			5.16		" "
LWE = 7.3			6.11		
RWE = 20.1			6.19		silt/veg 70
37.7			5.94		veg 100
18.0			5.54		} }
56.0			5.72		} }
Rwp = 63.8			5.42		} }

(17)

TR-4 Transect 4/22/09

SIA	Depth	Vel	Sub %
28.0	0.20	0.0	Not (60%) / S:14
27.0	0.15	0.0	" "
29.0	0.10	0.0	" "
30.4	0.0	0.0	" "

TR-4 Transect 4/22/09

Rm/Cup	Depth	Vel	Transsect	Sub %	Case
SIA					
7.36w	0.0	0.0	5:14 (60%) / Veg		Case
7.4	1.50	0.55	5:14 (60%) / Sand		US (0.30)
8.0	1.40	0.85	" "		
8.5	1.50	0.90	5:14 (90%) / Sand		
9.0	1.50	0.89	" "		
9.5	1.50	0.63	5:14 (80%) / Sand		
10.0	1.50	0.89	" "		
10.5	1.40	1.04	" "		
11.0	1.30	0.90	" "		
11.5	1.30	0.82	5:14 (90%) / Sand		
12.0	1.45	0.54	" "		
12.5	1.05	0.37	5:14 (80%) / Ag Veg		
13.0	0.67	0.63	Ag Veg (70%) / S:14		
13.5	0.55	0.65	Ag Veg (70%) / S:14		
14.0	0.50	0.27	S:14 (60%) / Ag Veg		
14.5	0.40	0.13	5:14 (60%) / Ag Veg		
15.0	0.50	0.10	" "		
16.0	0.50	0.10	" "		
17.0	0.30	0.10	" "		
18.0	0.30	0.00	" "		
19.0	0.30	0.10	" "		
20.0	0.25	0.05	" "		
21.0	0.25	0.05	" "		
23.0	0.40	0.05	Ag Veg 60% / S:14		

(19)

(18)

Run 1638

TR-5	Transsect	04/22/09			
STA	Depth	Vel	Dirn	Sub	% cover
11.2	0.0	0.0	veg (70%) / silt	"	"
12.0	0.15	0.0	"	"	"
13.0	0.45	0.05 (ex)	Silt (60%) / Ag Veg	"	"
14.0	0.45	"	"	"	"
15.0	0.40	0.0	Ag Veg (60%) / silt	"	"
16.0	0.80	0.05	"	"	"
17.0	0.30	0.05	Ag Veg (70%) / silt	"	"
17.5	1.38	0.45	Silt (60%) / Sm Gravel	"	"
18.0	1.30	0.49	Smg (60%) / sand	"	"
18.5	1.45	1.05	"	"	"
19.0	1.35	1.03	Smg (70%) / sand	"	"
19.5	1.25	1.20	"	"	"
20.0	1.25	0.87	"	"	"
20.5	1.20	0.62	Smg (60%) / sand	"	"
21.0	1.15	0.55	"	"	"
21.5	1.25	0.84	"	"	"
22.0	1.20	1.09	Smg (60%) / sand	"	"
22.5	1.00	1.23	"	"	"
23.0	1.05	1.30	Ag Veg (70%) / sand	"	"
23.5	1.10	0.88	Ag Veg (60%) / sand	veg	"
23.7	1.15	0.79	"	"	"
24.0	0.20	0.0	veg (90%) / silt	"	"

20

Run 1639

TR-6	Transsect	04/22/09			
STA	Depth	Vel	Dirn	Sub	% cover

21

04/22/09

STA	BS	HI	FS	Eleva	Sub
TR-5 (HP)	4.56			97.25	
Loop = 3.0			5.40		veg 100
6.0			5.59		" "
8.5			5.78		" "
8.8.0			6.02		" / sit 90
Loop = 11.2			6.06		
Loop = 24.2			6.02		veg / sit 80
28.0			6.00		" " 80
33.0			5.99		veg 100
34.7			5.76		veg 100
29.0			5.41		" "
43.0			5.22		" "
Loop = 17.2			5.30		

22

04/22/09

STA	BS	HI	FS	Eleva	Sub
TR-6 (HP)	4.84	101.81		96.97	
Loop = 3.0			5.18		veg 100
6.0			5.38		" "
10.0			5.51		" "
Loop = 11.4			5.88		veg / sit 14
Loop = 27.2			5.75		(80) veg / sit 14
29.0			5.54		" " sit
33.0			5.57		" "
42.0			5.59		" "
Loop = 48.0			5.07		veg / sit
WSE Check =			5.80		96.01

23

TR-6 Transect 04/22/09

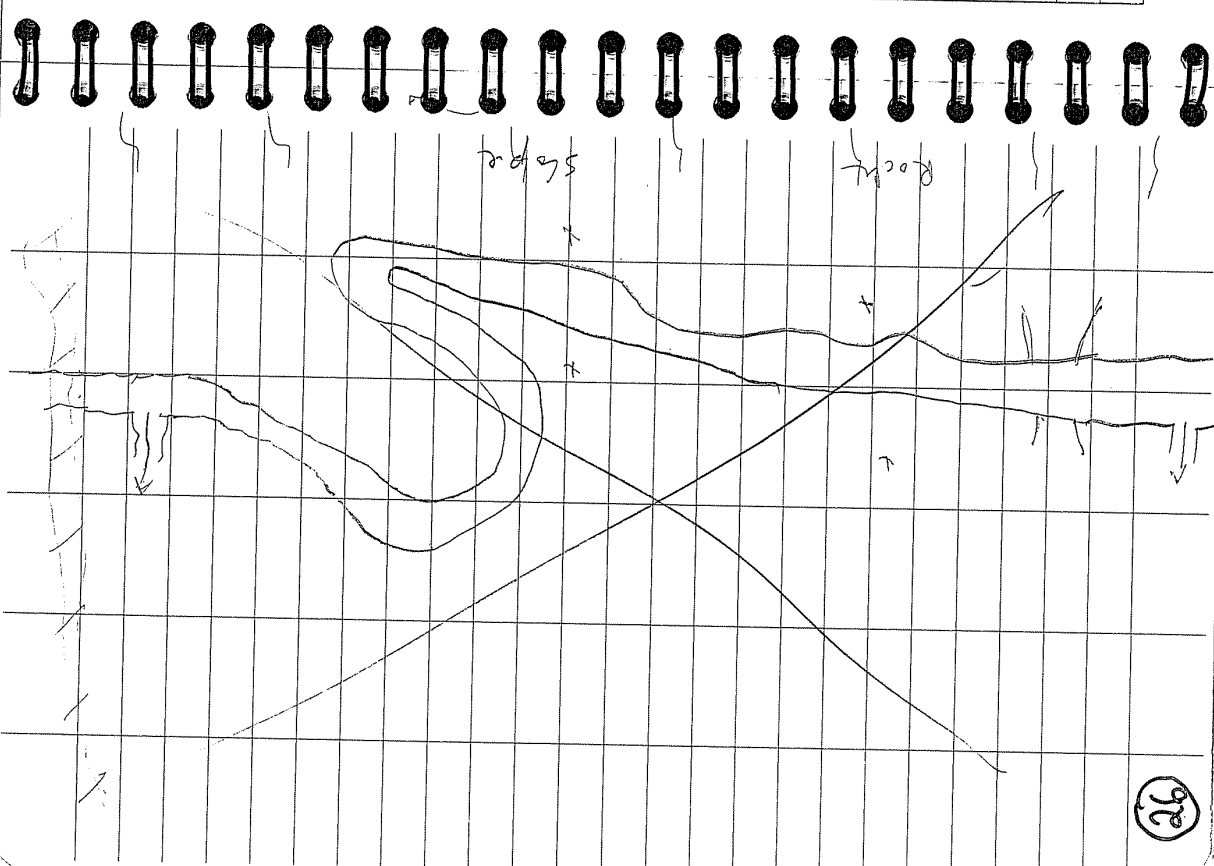
STA	DEP	VEL	Dom Sub %
25.5	0.20	0.05	S:14 (60%) / Veg
26.5	0.10	0.05	" " "
27.2	0.0	0.0	S:14 (70%) / Veg

TR-6 Transect 04/22/09

STA	Depth	Vel	Dom Sub %	Cov
11.4	0.0	0.0	Veg (70%) / Silt	
12.5	0.45	0.10	Silt (80%) / Veg	
13.5	0.90	0.15	" "	
13.8	0.0	0.0	edge of grassland	
14.3	-0.40	0.0	Veg (60%)	
14.9	0.0	0.0	edge of grassland	
15.5	0.20	0.0	Veg (60%) / Silt	
16.0	0.70	0.10 (est)	" "	
16.5	0.80	0.29	Veg (70%) / Silt	
17.0	1.15	0.27	Silt (70%) / Smg	
17.5	1.10	1.56	Smg (60%) / Sand	
18.0	1.00	1.67	" "	
18.5	0.80	1.37	Aq Veg (60%) / Smg	
19.0	0.80	1.33	" "	
19.5	1.05	1.00	Smg (70%) / Sand	
20.0	1.05	0.82	" "	
20.5	0.70	1.29	Veg (70%) / Smg	
21.0	0.80	1.33	Smg (60%) / Veg	
21.5	0.80	1.58	" "	
22.0	0.85	1.61	" "	
22.5	0.75	1.32	" "	
23.0	0.60	0.33	Veg (60%) / Silt	
23.5	0.50	0.19 (est)	Veg (70%) / Silt	
24.5	0.40	0.05 (est)	" "	

25

24



26

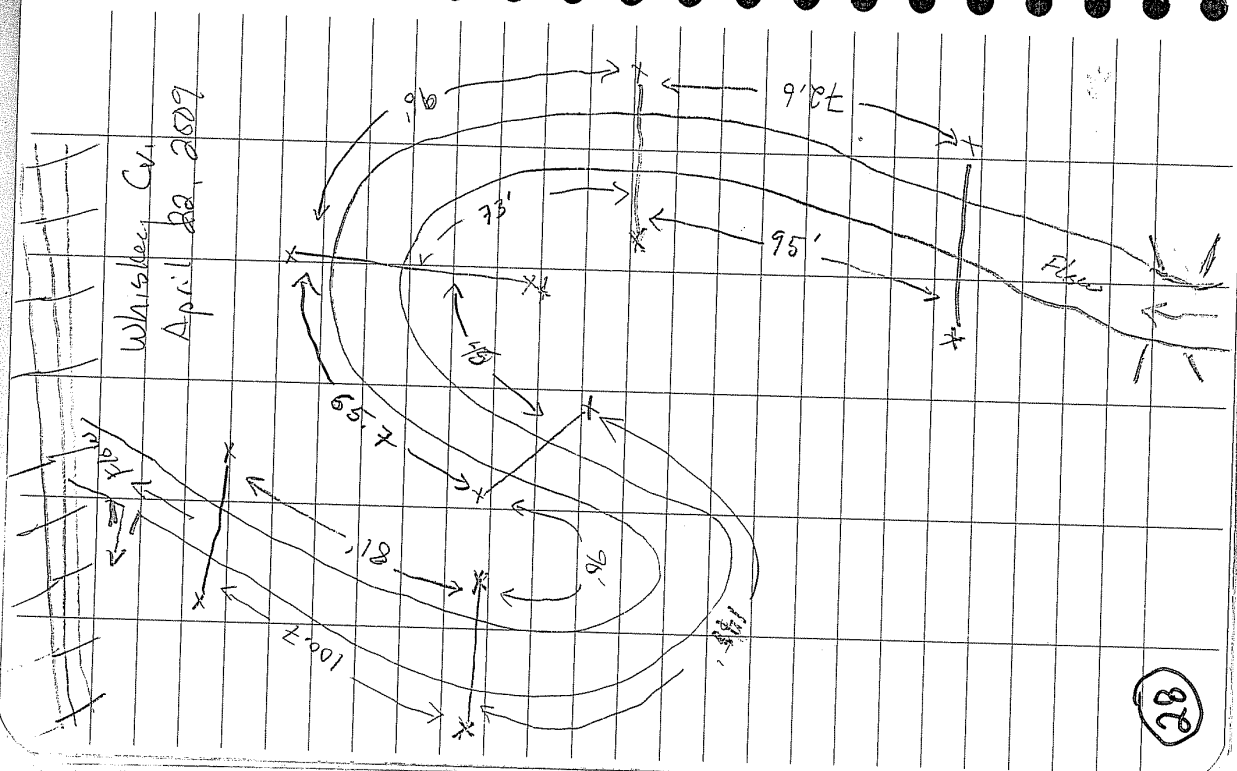
Whiskey Cr. Transect

KAS Coordinates

(Left Bank - ^W Whiskey Cr. vs)

TR-1	N	42.42749	401	NAD 83
	W	121.34249		
TR-2	N	42.42725	402	
	W	121.34268		
TR-3	N	42.42718	403	
	W	121.34261		
TR-4	N	42.42722	404	
	W	121.34238		
TR-5	N	42.42704	405	
	W	121.34213		
TR-6	N	42.42686	406	
	W	121.34206		

27



28

Whiskey Cr. Diversion Channel	
Diversion Channel #	
408	N 47.42280 W 12.39210
~ 7'	width, ~ 1.0' deep, w/ no vel
409	(1.114), vel .70 (1.014), 0.86 (0.76), 0.58 width ~ 4' 183 plots
409	N 42.42714 W 12.39449

29