

Stream Name	Huikawe	Stream Mapping Data Sheet
Date	Nov. 15, 2005	
Start Time	9:30 am	
GPS reading (0 m)	N 20.106660 W 155.54504	
GPS reading (100 m)		
Observers	Kanu 'oka Aina	
Comments		

Kanu
'oka
Aina

Hu'2

Transect # 1	0 m	1 m	2 m	3 m	4 m	5 m	6 m	7 m	8 m	9 m	10 m	11 m	12 m	13 m
Est. Depth	0.5	4.5	0.6	4.5	1.0									
Water Speed	S/M	M/F	M	S/M	M/F	M/F								
Substrate Size	S/M/L	S/M/L	S/M	L/M	L/M	S/M								
Other maj. feat.	stream edge					stream edge								

Transect # 2	0 m	1 m	2 m	3 m	4 m	5 m	6 m	7 m	8 m	9 m	10 m	11 m	12 m	13 m
Est. Depth	0.15	0.8	0.8	0	1.1	1.2	1.05	0.5	0.2					
Water Speed	S/M	F	F	0	S/M	F	L	S	S					
Substrate Size	S/M	M/L	M/L	L	M/L	M/L	M/L	L	S/L					
Other maj. feat.	stream bank			Boulder				stream edge	stream bank					

Transect # 3	0 m	1 m	2 m	3 m	4 m	5 m	6 m	7 m	8 m	9 m	10 m	11 m	12 m	13 m
Est. Depth	0.2	0	1.0	1.3	0.5	1.05	0.65	0.25	0.2					
Water Speed	S	0	S	M/S	S/M	M/F	M/S	S	S					
Substrate Size	S/L	S	M/L	S/M/L	L	L/M	M/L	S/M	M/L					
Other maj. feat.	stream bank	side bank			Boulder				stream bank					

Transect # 4	0 m	1 m	2 m	3 m	4 m	5 m	6 m	7 m	8 m	9 m	10 m	11 m	12 m	13 m
Est. Depth	1.1	0.8	0.8	0	0	0.45	0.6	0.8	0.23					
Water Speed	F	M/F	M/S	0	0	S/M	M/F	M/F	S					
Substrate Size	M/L	L	L	L	L	L	S/M	M/S	S					
Other maj. feat.	stream edge		Boulder	Boulder	Boulder	Boulder			bank					

Transect # 5	0 m	1 m	2 m	3 m	4 m	5 m	6 m	7 m	8 m	9 m	10 m	11 m	12 m	13 m
Est. Depth	0.15	0.65	0.15	0.15	0.11	0.7	0.3	0.23	0.23					
Water Speed	S	S	M/S	M/F	M/S	S/M	M/S	S	S					
Substrate Size	L	M	L/M	L/S	L/M	M/L/S	S/M	M/S	S/M					
Other maj. feat.	stream edge								stream bank					

Transect # 1	0 m	1 m	2 m	3 m	4 m	5 m	6 m	7 m	8 m	9 m	10 m	11 m	12 m	13 m
Est. Depth	0.15	0	0.6	0	0.3	0.8	0.6	0.5	0.05					
Water Speed	S	0	S/M	0	Fast	Fast	F	M	M					
Substrate Size	S/M/L	L	S/M	L	L	M	M	S/M	S/M/L					
Other maj. feat.	stream edge	Boulder			Boulder				stream bank					

Water Speed (fast, medium, slow)

Substrate Size (small, medium, large)

Stream Name	Hirilawe	Stream Mapping Data Sheet
Date	Nov. 15, 2005	
Start Time	11:20	
GPS reading (0 m)		
GPS reading (100 m)	120.10628° W 155.59607°	
Observers	Kanu 'O Kama'ina	
Comments		

Transect #	2	0 m	1 m	2 m	3 m	4 m	5 m	6 m	7 m	8 m	9 m	10 m	11 m	12 m	13 m
Est. Depth		0.5	1.0	1.2	1.0	1.25	0.7	0.2	0	0	0	0.3	0.1		
Water Speed		S	S/m	m	m	F	F	S/m	0	0	0	S	S		
Substrate Size		L	m/s	S	m	m	L	m	S/m	S/m	S/m	S/m	S/m		
Other maj. feat.		Stream edge	no						bank				Stream bank		

Transect #	3	0 m	1 m	2 m	3 m	4 m	5 m	6 m	7 m	8 m	9 m	10 m	11 m	12 m	13 m
Est. Depth		0.2	0.6	0.5	0.6	1.05	1.0	1.4	0.75	0.33	0.43	0.05	0	0.02	
Water Speed		S	S/m	m/L	L	m/L	S/m	L	m	S	S/m	S/m	0	S	
Substrate Size		S	S/m	m	L	m/L	S/m	S/m/L	m/L	m/L	S/m	m	L	S/m, L	
Other maj. feat.		Stream edge			Bed rock					Pool				Stream bank	

Transect #	4	0 m	1 m	2 m	3 m	4 m	5 m	6 m	7 m	8 m	9 m	10 m	11 m	12 m	13 m
Est. Depth															
Water Speed															
Substrate Size															
Other maj. feat.															

Transect #	5	0 m	1 m	2 m	3 m	4 m	5 m	6 m	7 m	8 m	9 m	10 m	11 m	12 m	13 m
Est. Depth															
Water Speed															
Substrate Size															
Other maj. feat.															

Transect #		0 m	1 m	2 m	3 m	4 m	5 m	6 m	7 m	8 m	9 m	10 m	11 m	12 m	13 m
Est. Depth															
Water Speed															
Substrate Size															
Other maj. feat.															

Transect #		0 m	1 m	2 m	3 m	4 m	5 m	6 m	7 m	8 m	9 m	10 m	11 m	12 m	13 m
Est. Depth															
Water Speed															
Substrate Size															
Other maj. feat.															

Water Speed (fast, medium, slow)

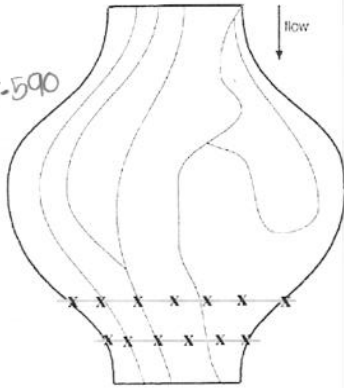
Substrate Size (small, medium, large)

Hilary

Tally

	Tally
Date Collected	1/19/2006
Water Speed (0)	⑦
Water Speed (Slow)	②⑥
Water Speed (Medium)	③①
Water Speed (Fast)	⑪
Substrate Size (Small)	②⑤
Substrate Size (Medium)	⑩
Substrate Size (Large)	⑮

(7)

Stream Name	Hiilawē	Stream Mapping Data Sheet 
Date	11/19/06	
Start Time	11:45	
GPS reading (0 m)	N 20.08844° W 155.60048°	
GPS reading (100 m)		
Observers	Roman, Cyrus, Raven	
Comments		

6.8 m

Transect # 1	0 m	1 m	2 m	3 m	4 m	5 m	6 m	7 m	8 m	9 m	10 m	11 m	12 m	13 m
Est. Depth	0.2	0.75	0.7	0.55	1.1	1.4	1.6							
Water Speed	slow	SM	M	SM	MS	M	M							
Substrate Size	SM	S	M	MS	L	LM	S							
Other maj. feat.														

5.9 m

Transect # 2	0 m	1 m	2 m	3 m	4 m	5 m	6 m	7 m	8 m	9 m	10 m	11 m	12 m	13 m
Est. Depth	0.15	1.0	0.75	1.4	1.4	2.0								
Water Speed	MS	M	M	MF	MF	MF								
Substrate Size	S	S	M	M	S	4								
Other maj. feat.														

7.1 m

Transect # 3	0 m	1 m	2 m	3 m	4 m	5 m	6 m	7 m	8 m	9 m	10 m	11 m	12 m	13 m
Est. Depth	0.2	0.45	0.7	1.4	0.5	1.2	1.1							
Water Speed	S	S	M	M	MF	F	M							
Substrate Size	S	S	L	M	L	M	M							
Other maj. feat.					boulder									

7.4 m

Transect # 4	0 m	1 m	2 m	3 m	4 m	5 m	6 m	7 m	8 m	9 m	10 m	11 m	12 m	13 m
Est. Depth	0.35	0.6	1.1	0.4	0.8	1.2	0.7	0.2	0.4					
Water Speed	S	S	SM	S	M	M	M	S	M					
Substrate Size	S	S	M	S	M	L	S	S	M					
Other maj. feat.														

8.7 m

Transect # 5	0 m	1 m	2 m	3 m	4 m	5 m	6 m	7 m	8 m	9 m	10 m	11 m	12 m	13 m
Est. Depth	0.1	0.6	0.65				0.2	0.65						
Water Speed	S	M,F	M				M	M,F						
Substrate Size	S	S	S				L	M						
Other maj. feat.				Boulder	Boulder	Boulder								

7.8 m

Transect # 6	0 m	1 m	2 m	3 m	4 m	5 m	6 m	7 m	8 m	9 m	10 m	11 m	12 m	13 m
Est. Depth	.15	.2		1.4	.6	.7	.3							
Water Speed	S	S		F	M	M	S							
Substrate Size	S	S		L	L	L	M							
Other maj. feat.			Boulder				Boulder							

Water Speed (fast, medium, slow)

Substrate Size (small, medium, large)

Transect # 7	0 m	1 m	2 m	3 m	4 m	5 m	6 m	7 m	8 m	9 m	10 m	11 m	12 m	13 m
Est. Depth	0.1	0.35	0.2	0.5	0.3	1.5		0.2						
Water Speed	S	S	S	MS	MF	F		M						
Substrate Size	S	M	M	L	L	L		S						
Other maj. feat.							Boulder							

Transect # 8	0 m	1 m	2 m	3 m	4 m	5 m	6 m	7 m	8 m	9 m	10 m	11 m	12 m	13 m
Est. Depth	1.7	0.2	0.1	1.0		0.2								
Water Speed	S	S	M	F		S								
Substrate Size	S	L	L	L		S								
Other maj. feat.					Boulder									

Transect #	0 m	1 m	2 m	3 m	4 m	5 m	6 m	7 m	8 m	9 m	10 m	11 m	12 m	13 m
Est. Depth														
Water Speed														
Substrate Size														
Other maj. feat.														

Transect #	0 m	1 m	2 m	3 m	4 m	5 m	6 m	7 m	8 m	9 m	10 m	11 m	12 m	13 m
Est. Depth														
Water Speed														
Substrate Size														
Other maj. feat.														

Transect #	0 m	1 m	2 m	3 m	4 m	5 m	6 m	7 m	8 m	9 m	10 m	11 m	12 m	13 m
Est. Depth														
Water Speed														
Substrate Size														
Other maj. feat.														

Water Speed (fast, medium, slow)

Substrate Size (small, medium, large)

Hilary

Tally	
Date Collected	1/19/2006
Water Speed (0)	16
Water Speed (Slow)	27
Water Speed (Medium)	24
Water Speed (Fast)	19
Substrate Size (Small)	28
Substrate Size (Medium)	42
Substrate Size (Large)	17