

Team: Opu Poi
3rd Group

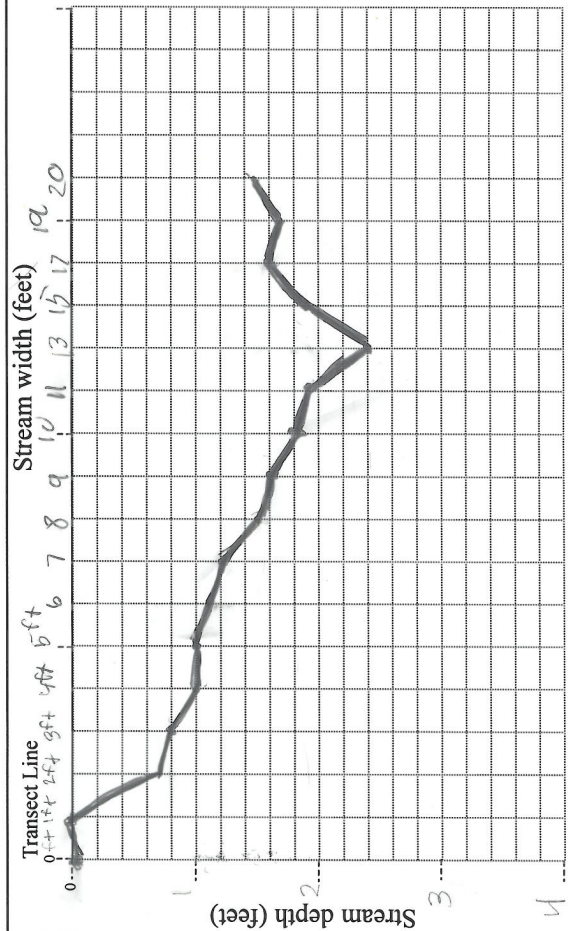
FLOW DATA SHEET

Mean Velocity¹ = 6/10ths Depth
Surface Velocity² = 6/10ths Depth x 2
Bottom Velocity³ = 6/10ths Depth / 2

0.4 ft	1.8 ft	20 ft	21 ft
BANK FULL		BANK FULL	
STREAM EDGE		STREAM EDGE	

Stream Edge Width (feet)	0 ft	1 ft	2 ft	3 ft	4 ft	5 ft	6 ft	7 ft	8 ft	9 ft	10 ft	11 ft	13 ft	15 ft	17 ft	19 ft	20 ft
Stream Edge Depth (feet)	0	0	0.7	0.8	1.0	1.0	1.1	1.2	1.5	1.6	1.8	1.9	2.2	1.9	1.6	1.7	1.5
Flow Rate Width (ft/sec)																	
Flow Rate Depth (ft/sec)																	
Substrate/ % Vegetation																	
% Plant Coverage																	
Mean Velocity ¹ (ft/sec)																	
Surface Velocity ² (ft/sec)																	
Bottom Velocity ³ (ft/sec)																	

DATE	Feb. 13, 2007	HYDROLAB		Rin	Cascade
TIME	1:15 p.m.	WIDTH (feet)	20 ft		
OBSERVER	Opu Poi	TEMPERATURE (°C)	20.81°C		
REACH		DISSOLVED OXYGEN (mg/L)	11.43	11.66	
TRANSECT#	1	CONDUCTIVITY (mS/cm)	0.149	0.149	
DAR_CODE		pH	8.56	8.53	
STREAM	Hirilawe	TURBIDITY (NTU)			
TRIBUTARY		TOTAL SUSPENDED SOLIDS (mg/L)			



SITE PICTURE

FLOW DATA SHEET

Mean Velocity¹ = 6/10ths Depth
 Surface Velocity² = 6/10ths Depth x 2
 Bottom Velocity³ = 6/10ths Depth / 2

2nd Group

0

1ft

21ft

20ft

STREAM EDGE

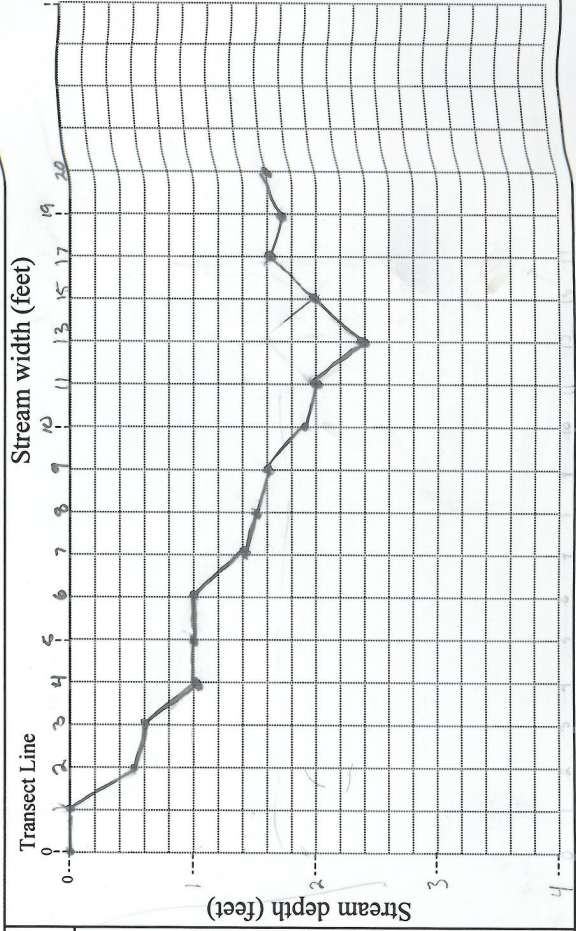
STREAM EDGE

BANK FULL

BANK FULL

Stream Edge Width (feet)	0 ft	1 ft	2 ft	3	4	5	6	7	8	9	10	11	13	15	17	19	20
Stream Edge Depth (feet)	0	0	0.5	0.6	1.0	1.0	1.0	1.4	1.5	1.6	1.9	2.0	2.4	2.0	1.6	1.7	1.6
Flow Rate Width (ft/sec)																	
Flow Rate Depth (ft/sec)																	
Substrate/ % Vegetation																	
% Plant Coverage																	
Mean Velocity ¹ (ft/sec)	0	0	0.08	0.10	0.06	0.06	0.06	0.06	0.03	0.02	0.13	0.11	0.20	0.38	0.24	0.07	0.15
Surface Velocity ² (ft/sec)	0	0	0.08	0.08	0.08	0.09	0.03	0.06	0.05	0.09	0.04	0.20	0.38	0.26	0.10	0.06	0.09
Bottom Velocity ³ (ft/sec)	0	0	0.14	0.14	0.12	0.04	0.12	0.12	0.10	0.12	0.05	0.08	0.16	0.11	0.03	0.17	0.18

DATE	2-13-2007	HYDROLAB (ft/sec) (cascade)	
TIME	10:45 am	WIDTH (feet)	20ft
OBSERVER	Pohaku	TEMPERATURE (°C)	20.67 20.66°C
REACH		DISSOLVED OXYGEN (mg/L)	11.28 11.73
TRANSECT#	2	CONDUCTIVITY (mS/cm)	0.149 0.149
DAR_CODE		pH	8.65 8.58
STREAM	Hillane	TURBIDITY (NTU)	
TRIBUTARY		TOTAL SUSPENDED SOLIDS (mg/L)	



SITE PICTURE

N 20° 06.416
W 155° 35.779

Team: THAIK
MANOANO

1st Group

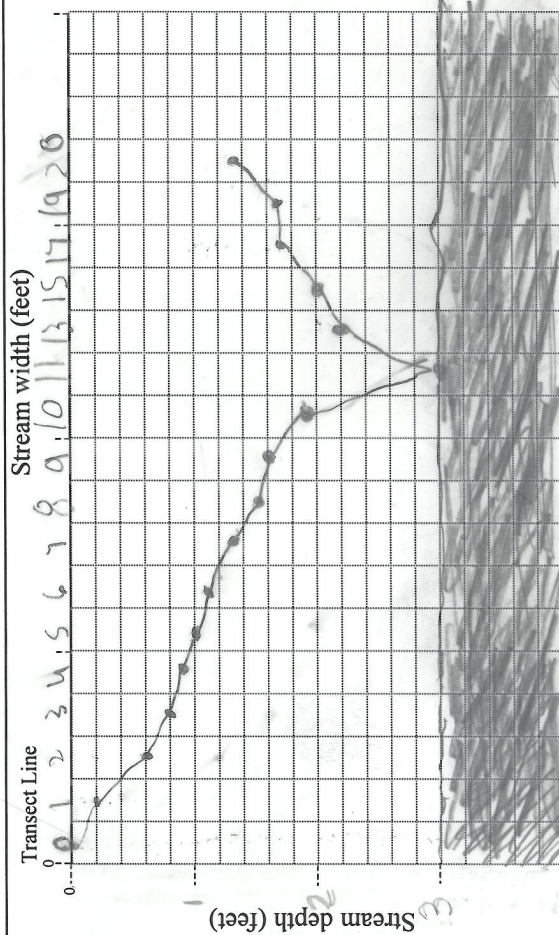
FLOW DATA SHEET

Mean Velocity¹ = 6/10ths Depth
Surface Velocity² = 6/10ths Depth x 2
Bottom Velocity³ = 6/10ths Depth / 2

0.4	1.4	BANK FULL	STREAM EDGE	STREAM EDGE	BANK FULL
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Stream Edge Width (feet)	0.4	1.4	2.4	3.4	4.4	5.4	6.4	7.4	8.4	9.4	10.4	11.4	13.4	15.4	17.4	19.4	20.4
Stream Edge Depth (feet)	0	0.2	0.6	0.8	0.9	1.0	1.1	1.3	1.5	1.6	1.9	3.0	2.2	2.0	1.7	1.7	1.3
Flow Rate Width (ft/sec)																	
Flow Rate Depth (ft/sec)																	
Substrate/ % Vegetation																	
% Plant Coverage																	
Mean Velocity ¹ (ft/sec)	0	-0.16	-0.10	-0.07	-0.06	-0.09	0.01	-0.01	-0.03	0.06	0.05	0.18	0.36	0.45	0.23	-0.05	-0.12
Surface Velocity ² (ft/sec)	0	-0.08	-0.09	-0.08	-0.11	-0.06	-0.06	-0.05	0.04	0.07	0.18	0.20	0.32	0.28	0.35	-0.64	-0.09
Bottom Velocity ³ (ft/sec)	0	-0.13	-0.13	-0.10	-0.10	-0.09	-0.08	-0.09	-0.10	0.08	-0.13	-0.11	0.16	0.01	0.12	-0.12	-0.13

DATE	2/13/2007	HYDROLAB (Rm) (cascade)	
TIME	9:13 A.m	WIDTH (feet)	20.4
OBSERVER	THAIK	TEMPERATURE (°C)	20.11
REACH		DISSOLVED OXYGEN (mg/L)	11.27
TRANSECT#	1	CONDUCTIVITY (mS/cm)	0.149
DAR_CODE		pH	8.19
STREAM	Hilawe	TURBIDITY (NTU)	
TRIBUTARY		TOTAL SUSPENDED SOLIDS (mg/L)	



0 1 2 3 4 5 6 7 8 SITE PICTURE 15 17 19 20
0 10 11 13