SFE

SF EEL YEAR 2 ECO/BIO DATA COLLECTION SHEET

Date: 7·12·18 Field site *BIN_FID*: FH_5_316 Stream: Elder.

Crew leader: ML Crew members: KN, PW, JR GPS Coordinates: T1 0444670 4397905 T8 0444512 4397838

Steps for each sampling reach:

1a. Estimates of bankfull/active width: 11.44 12.1 13.85 10.06 9.94 (Bankfull) or Active (circle)

b. Average bankfull/active width: 11.46 * 15 = **c.** 171.9 m = total reach length

d. Transect spacing = **[1c]** / 7 = 24.55 m

2a. Dominant land use: ○ Agricultural ○ Pasture/range ⊗ Forest ○ Urban

b. Land cover (*% area of each*): 35 Wetted channel 15 Vegetated 5 Bedrock 45 Alluvium

c. Major human influences (*indicate all that apply*): ○ Logging ○ Grazing ○ Urbanization ○ Diversions ○ Mining ○ Roads ○ Dams ○ Other (explain) "Most pre stre…

For each cross-sectional transect:

Transect (up to downstream):	T1	T2	T3	T4	T5	T6	T7	T8
3. Habitat type (P/Rf/Ru/Cs/S/RC/O)	RC	P	P	Rf	Rf	P	Rf	Rf
4. Thalweg to left bankfull margin	4.97	9.45	4.17	6.20	5.29	7.57	6.70	4.36
5. Thalweg to right bankfull margin	6.05	6.16	3.97	11.10	4.64	1.84	4.33	4.68
6. Bankfull channel depth at thalweg	0.80	1.1	1.15	0.80	1.05	1.20	0.90	1.30
7. Confidence in bankfull estimation	2	2	2	2	2	2	2	2
8. d_{lat} = Tstart**[6]** + Ti**[6]**	1.6	--	1.95		1.85		1.80	2.10

9. Particle class size *(# per class, 8 per transect)*:

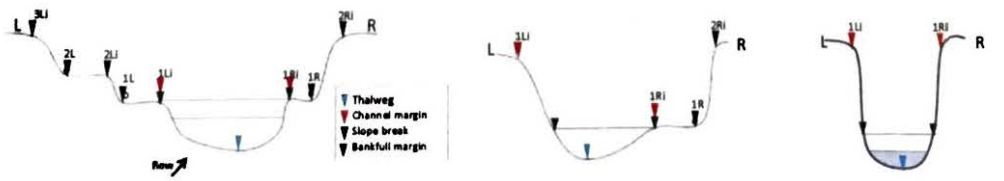
	T1	T2	T3	T4	T5	T6	T7	T8
<2 mm		|			|			
2.8	|	|	|					
4								
5.6								
8								
11								
16			|					
22.6						|		
32		|		|	|	|		
45								
64	||		|	|				
90						|		
128	|	||		|			|	|
190	|||	|		|			||	|
190 mm – 1 m		|	|	|||	|	||	||	||
>1 m boulder	|	|	|	|	|||	|||	||	||
bedrock			|||		||		|	||

10. Slope breaks, distance from L channel margin (1Li) (H – horizontal offset; V – vertical offset) (OC# - Offset confidence; 1 – Direct laser measurement, 2 – Offsets informed with laser measurement for portion of distances, 3 – Offsets estimated as laser measurements were not possible)

		T1	OC1	T3	OC3	T5	OC5	T7	OC7
Left bankfull margin-1Li	H	VW		2.70	1	4.21	1	VW	
	V			2.11		0.32			
1Li-1Lo	H					4.41	1		
	V					2.56			
1Lo-2Li	H								
	V								
2Li-2Lo	H								
	V								
2Lo-3Li	H								
	V								
3Li-3Lo	H								
	V								
3Lo-4Li	H								
	V								

11. Slope breaks, distance from R channel margin (1Ri)

Right bankfull margin-1Ri	H	3.94	1	13.34	2	0.61	1	4.72	1
	V	0.48		-0.5		1.43		1.96	
1Ri-1Ro	H	17.30	1	4.78	1	3.33	1		
	V	11.16		9.97		2.0			
1Ro-2Ri	H								
	V								
2Ri-2Ro	H								
	V								
2Ro-3Ri	H								
	V								
3Ri-3Ro	H								
	V								
3Ro-4Ri	H								
	V								



12. Longitudinal Profile (Measurements must be taken in order, but can be completed from either upstream-to-downstream or downstream-to-upstream):

Survey Point	Transect (T), Riffle Crest (RC), or Pool (P) Number	Distance from previous survey point	Surveyor's level reading	Water Depth (m)	Backsight reading (if needed)
1	T1	0	1.67	0.16	
2	P1	13.68	2.05	0.33	
3	RC1	3.40	1.88	0.15	
4	P2(T2)	7.58	2.42	0.63	
5	RC2	3.94	2.01	0.21	
6	P3	14.99	3.14	0.75	
7	T3	5.16	2.98	0.59	
8	RC3	2.82	2.66	0.20	
9	T5	46.18	3.68	0.20	
10	P4	16.05	5.01	0.95	2.34
11	RC4	21.53	1.56	0.15	
12	T7	10.07	1.86	0.17	
13	P5	6.61	3.24	0.47	
14	RC5	6.75	2.95	0.17	
15					
16					
17					
18					
19					
20					

** RC refers to nearest riffle crest to indicated transect*

*** Only fill grey transect rows if needed (e.g. sub-transects are needed for line of sight)*

13. Photo files:

At T1 looking downstream: 0342

At T5 looking upstream: 0343

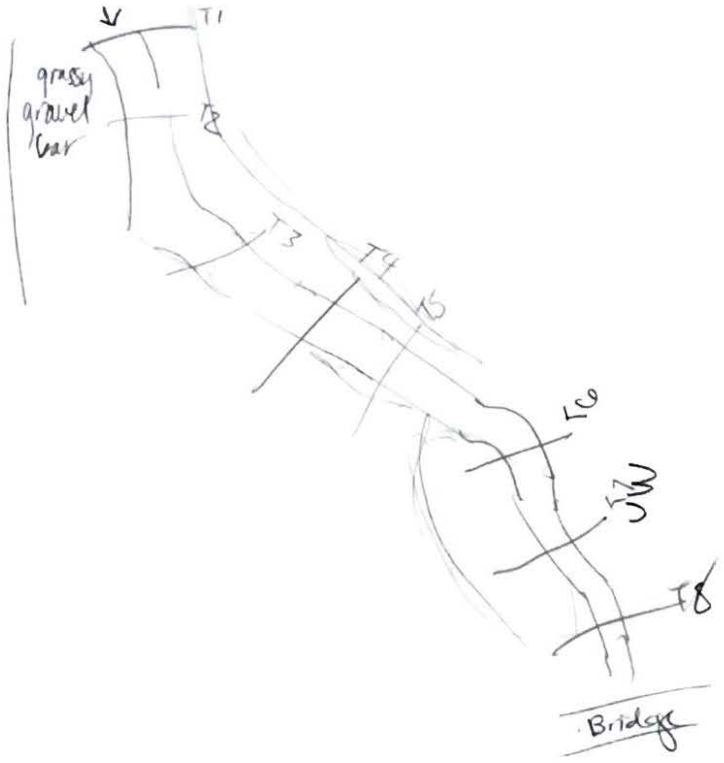
At T5 looking downstream: 0344

At T8 looking upstream: 0345

14. Other notes:

15. Site conceptualization:

- Large sites – Conceptualize the setting of large sites before arrival using aerial imagery
- Small sites – After arrival, take a moment to conceptualize the site by drawing a conceptual map of the site with a focus on channel, floodplain, terrace, and valley margin locations



16. Riffle crest bankfull data:

Riffle crest number (fill in as needed)	RC1	RC2	RC3	RC4	RC5	RC6	RC7	RC8
4. Thalweg to left bankfull margin	5.72	6.83	7.11	7.45	5.51			
5. Thalweg to right bankfull margin	4.94	6.66	4.38	3.55	4.31			
6. Bankfull channel depth at thalweg	0.75	0.8	0.85	0.65	1.1			
7. Confidence in bankfull estimation	2	2	2	2	2			

17. Pool trough bankfull data (at location of maximum pool depth):

Pool number (fill in as needed)	P1	P2	P3	P4	P5	P6	P7	P8
4. Thalweg to left bankfull margin	6.74	9.45	6.09	7.67	3.25			
5. Thalweg to right bankfull margin	5.43	6.16	3.71	2.55	6.98			
6. Bankfull channel depth at thalweg	1.85	1.1	1.05	1.90	1.25			
7. Confidence in bankfull estimation	2	2	2	2	2			