

Standard Operating Procedure 16: Data forms, version 1.0

Data Entry	
Entry 1:	____/____/2018
Entry 2:	____/____/2018
Scanned:	____/____/2018

SHEN LTEMs: Aquatic Macroinvertebrate Site Form

Date ____/____/2018 Crew _____

Site ID Code _____ Stream _____

Sampling Time: Start ____:____ a/p End ____:____ a/p

Elevation: _____ GPS: Y/N Photo #(s): _____ Camera # _____
Site Location Notes (UTMs etc.): _____

Other Notes (vegetation description & oddities, observation forms, etc.): _____

Recorders Initials _____

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Water Condition and Chemistry

Level: Low ____ Med ____ High ____ Color: Clear ____ Stained ____ Muddy ____

Sampler is assumed to be HYD1 (Hydrolab Multiprobe) unless indicated otherwise

Sampler	Temp °C	DO mg/l	Cond. µS	pH	TDS g/l	Comment

Notes:

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Macroinvertebrate Collection Information

Sampler	Label ID	Label ID	Label ID	Note (collector initials, etc.)

Notes:

Data Entry

Entry 1: _____ / ____ / 2018

Entry 2: _____ / ____ / 2018

Scanned: _____ / ____ / 2018

Discharge Measurements

Date ____ / ____ / 2018 Crew _____

Site ID Code _____ Stream _____

Method: Marsh-McBirney ____ Other _____ (show work)

Channel Width _____ m Interval Selected for Measurements _____ m

#	Distance from Stream Margin (m)	Depth (m)	Velocity (m/s)	Notes/Comments (for Other Methods do work in table)
0	0 (left margin, facing upstream))	0	0	
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				

SHEN AQ-LTEMS Habitat Measurements

Initial Site Notes:

Site _____

Date _____

Crew _____

Data Entry	
Entry 1: _____	_____/_____/2018
Entry 2: _____	_____/_____/2018
Scanned: _____	_____/_____/2018

T0 Riparian Cover: 0 1 2 3 Type: T S G N

Distance (m)	0.0	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7	3.0	3.3	3.6	3.9	4.2	4.5	4.8	5.1	5.4	5.7	6.0	6.3	6.6
Depth																							
Substr																							
Distance (m)	6.9	7.2	7.5	7.8	8.1	8.4	8.7	9.0	9.3	9.6	9.9	10.2	10.5	10.8	11.1	11.4	11.7	12.0	12.3	12.6	12.9	13.2	13.5
Depth																							
Substr																							
% Slope:																							

Notes:

T1 Riparian Cover: 0 1 2 3 Type: T S G N **S1** Debris Retension: 1 2 3 Fish Cover: 1 2 3 Pool/Riffle:

	0.0	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7	3.0	3.3	3.6	3.9	4.2	4.5	4.8	5.1	5.4	5.7	6.0	6.3	6.6
Depth																							
Substr																							
	6.9	7.2	7.5	7.8	8.1	8.4	8.7	9.0	9.3	9.6	9.9	10.2	10.5	10.8	11.1	11.4	11.7	12.0	12.3	12.6	12.9	13.2	13.5
Depth																							
Substr																							
% Slope:																							

Notes:

T2 Riparian Cover: 0 1 2 3 Type: T S G N **S2** Debris Retension: 1 2 3 Fish Cover: 1 2 3 Pool/Riffle:

	0.0	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7	3.0	3.3	3.6	3.9	4.2	4.5	4.8	5.1	5.4	5.7	6.0	6.3	6.6
Depth																							
Substr																							
	6.9	7.2	7.5	7.8	8.1	8.4	8.7	9.0	9.3	9.6	9.9	10.2	10.5	10.8	11.1	11.4	11.7	12.0	12.3	12.6	12.9	13.2	13.5
Depth																							
Substr																							
% Slope:																							

Notes:

Substrate: I - Island, L - Silt, S - Sand, P - Pebble/Gravel, C - Cobble, B - Boulder, R - Bedrock, O - Organic

Data Entry	
Entry 1:	____/____/2018
Entry 2:	____/____/2018
Scanned:	____/____/2018

Stream: _____ Site #: _____ Date: _____

T3 Riparian Cover: 0 1 2 3 Type: T S G N **S3** Debris Retension: 1 2 3 Fish Cover: 1 2 3 Pool/Riffle:

	0.0	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7	3.0	3.3	3.6	3.9	4.2	4.5	4.8	5.1	5.4	5.7	6.0	6.3	6.6
Depth																							
Substr																							
	6.9	7.2	7.5	7.8	8.1	8.4	8.7	9.0	9.3	9.6	9.9	10.2	10.5	10.8	11.1	11.4	11.7	12.0	12.3	12.6	12.9	13.2	13.5
Depth																							
Substr																							
% Slope:																							

Notes:

T4 Riparian Cover: 0 1 2 3 Type: T S G N **S4** Debris Retension: 1 2 3 Fish Cover: 1 2 3 Pool/Riffle:

	0.0	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7	3.0	3.3	3.6	3.9	4.2	4.5	4.8	5.1	5.4	5.7	6.0	6.3	6.6
Depth																							
Substr																							
	6.9	7.2	7.5	7.8	8.1	8.4	8.7	9.0	9.3	9.6	9.9	10.2	10.5	10.8	11.1	11.4	11.7	12.0	12.3	12.6	12.9	13.2	13.5
Depth																							
Substr																							
% Slope:																							

Notes:

T5 Riparian Cover: 0 1 2 3 Type: T S G N **S5** Debris Retension: 1 2 3 Fish Cover: 1 2 3 Pool/Riffle:

	0.0	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7	3.0	3.3	3.6	3.9	4.2	4.5	4.8	5.1	5.4	5.7	6.0	6.3	6.6
Depth																							
Substr																							
	6.9	7.2	7.5	7.8	8.1	8.4	8.7	9.0	9.3	9.6	9.9	10.2	10.5	10.8	11.1	11.4	11.7	12.0	12.3	12.6	12.9	13.2	13.5
Depth																							
Substr																							
% Slope:																							

Notes:

Substrate: I - Island, L - Silt, S - Sand, P - Pebble/Gravel, C - Cobble, B - Boulder, R - Bedrock, O - Organic

Data Entry
Entry 1: ____ / ____ / 2018
Entry 2: ____ / ____ / 2018
Scanned: ____ / ____ / 2018

T6 Stream: _____ Site #: _____ Date: _____
Riparian Cover: 0 1 2 3 Type: T S G N **S6** Debris Retention: 1 2 3 Fish Cover: 1 2 3 Pool/Riffle:

	0.0	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7	3.0	3.3	3.6	3.9	4.2	4.5	4.8	5.1	5.4	5.7	6.0	6.3	6.6
Depth																							
Substr																							
	6.9	7.2	7.5	7.8	8.1	8.4	8.7	9.0	9.3	9.6	9.9	10.2	10.5	10.8	11.1	11.4	11.7	12.0	12.3	12.6	12.9	13.2	13.5
Depth																							
Substr																							
% Slope:																							

Notes:

T7 Riparian Cover: 0 1 2 3 Type: T S G N **S7** Debris Retention: 1 2 3 Fish Cover: 1 2 3 Pool/Riffle:

	0.0	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7	3.0	3.3	3.6	3.9	4.2	4.5	4.8	5.1	5.4	5.7	6.0	6.3	6.6
Depth																							
Substr																							
	6.9	7.2	7.5	7.8	8.1	8.4	8.7	9.0	9.3	9.6	9.9	10.2	10.5	10.8	11.1	11.4	11.7	12.0	12.3	12.6	12.9	13.2	13.5
Depth																							
Substr																							
% Slope:																							

Notes:

T8 Riparian Cover: 0 1 2 3 Type: T S G N **S8** Debris Retention: 1 2 3 Fish Cover: 1 2 3 Pool/Riffle:

	0.0	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7	3.0	3.3	3.6	3.9	4.2	4.5	4.8	5.1	5.4	5.7	6.0	6.3	6.6
Depth																							
Substr																							
	6.9	7.2	7.5	7.8	8.1	8.4	8.7	9.0	9.3	9.6	9.9	10.2	10.5	10.8	11.1	11.4	11.7	12.0	12.3	12.6	12.9	13.2	13.5
Depth																							
Substr																							
% Slope:																							

Notes:

Substrate: I - Island, L - Silt, S - Sand, P - Pebble/Gravel, C - Cobble, B - Boulder, R - Bedrock, O - Organic

Data Entry
 Entry 1: _____ / ____ / 2018
 Entry 2: _____ / ____ / 2018
 Scanned: _____ / ____ / 2018

T9 Stream: _____ Site #: _____ Date: _____
 Riparian Cover: 0 1 2 3 Type: T S G N **S9** Debris Retention: 1 2 3 Fish Cover: 1 2 3 Pool/Riffle:

	0.0	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7	3.0	3.3	3.6	3.9	4.2	4.5	4.8	5.1	5.4	5.7	6.0	6.3	6.6
Depth																							
Substr																							
	6.9	7.2	7.5	7.8	8.1	8.4	8.7	9.0	9.3	9.6	9.9	10.2	10.5	10.8	11.1	11.4	11.7	12.0	12.3	12.6	12.9	13.2	13.5
Depth																							
Substr																							
% Slope:																							

Notes:

T10 Stream: _____ Site #: _____ Date: _____
 Riparian Cover: 0 1 2 3 Type: T S G N **S10** Debris Retention: 1 2 3 Fish Cover: 1 2 3 Pool/Riffle:

	0.0	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7	3.0	3.3	3.6	3.9	4.2	4.5	4.8	5.1	5.4	5.7	6.0	6.3	6.6
Depth																							
Substr																							
	6.9	7.2	7.5	7.8	8.1	8.4	8.7	9.0	9.3	9.6	9.9	10.2	10.5	10.8	11.1	11.4	11.7	12.0	12.3	12.6	12.9	13.2	13.5
Depth																							
Substr																							
% Slope:																							

Notes:

SNP AQ-LTEMS Habitat Measurements CONTINUATION FORM

Data Entry	
Entry 1:	___/___/2018
Entry 2:	___/___/2018
Scanned:	___/___/2018

Fill in Transect Number

Distances are continued from standard site form

Stream _____

Site # _____

Date _____

T

	13.8	14.1	14.4	14.7	15.0	15.3	15.6	15.9	16.2	16.5	16.8	17.1	17.4	17.7	18.0	18.3	18.6	18.9	19.2	19.5	19.8	20.1	20.4
Depth																							
Substr																							
	20.7	21.0	21.3	21.6	21.9	22.2	22.5	22.8	23.1	23.4	23.7	24.0	24.3	24.6	24.9	25.2	25.5	25.8	26.1	26.4	26.7	27.0	27.3
Depth																							
Substr																							
% Slope:																							

Notes:

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	13.8	14.1	14.4	14.7	15.0	15.3	15.6	15.9	16.2	16.5	16.8	17.1	17.4	17.7	18.0	18.3	18.6	18.9	19.2	19.5	19.8	20.1	20.4
Depth																							
Substr																							
	20.7	21.0	21.3	21.6	21.9	22.2	22.5	22.8	23.1	23.4	23.7	24.0	24.3	24.6	24.9	25.2	25.5	25.8	26.1	26.4	26.7	27.0	27.3
Depth																							
Substr																							
% Slope:																							

Notes:

Substrate: I - Island, L - Silt, S - Sand, P - Pebble/Gravel, C - Cobble, B - Boulder, R - Bedrock, O - Organic