



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

PAGE 1 OF 1

Data Qualified?
Yes / No

January 2017

STORET Station Name: RQ-2017-01-09-28



Date: 1/24/2017 (mm/dd/yyyy)

STORET Station ID: WBID 3258G1

SD012417-1

Latitude: (Decimal Degrees)

County: Lee

RQ -

Ten Mile Canal @ Old US 41 - Above Weir



Longitude: (Decimal Degrees)

Receiving Body of Water: Estero Bay Field ID:

Sampling Team Members						WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Ben Aswater										
Corey Anderson										
Veronica Runge										

Sampling Equipment		
☒ Sample Container	☐ Van Dorn	☐ Pole
☐ Carboy	☐ Syringe	
☐ Dipper	☐ Other	

Equipment ID

Collection Method	
☐ Wading	☐ Via Boat
☒ From Shore	☐ Canoe/Kayak
☐ Other (note below)	☐ Electric Motor
	☐ Gasoline Motor

Water Level: Dry / Pooled / Low / Normal / High / Flooded

Matrix: Fresh / Marine / DI

Meter ID# 5 Photos: Yes / No

Tide Falling: Yes / No / NA

Time Zone	Time	Sample Depth (m)	Total Depth (m)	DO (mg/L)	DO (%SAT)	pH	Salinity (ppt)	Secchi Disk (m)	Sp COND (umhos/cm)	Temp. (C°)
EST	835	0.3	0.9	6.3	99	7.6	/	0.9	660	21.3
CEN										

Biological Samples Collected: None HA SCI RPS Algae ID LVS LVI Other

SBIO ID Numbers: SBIO-ID: RPS-ID: Macrophyte-ID: LIMS#:

Parameter Suite	Parameter Methods	Preservation	Acid Lot#	Expiration	pH Check
Preserved Nutrients	☒ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP	☒ Ice ☐ H2SO4			☒ <2
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO2			☐ <2
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 um Filter	☒ Ice			
Chlorophyll	☒ CHL-SUITE-W	☒ Ice			
Physical/Aggregate (Fresh)	☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-Cl-IC / W-COLOR / W-SO4-IC / W-TDS	☒ Ice			
Physical/Aggregate (Marine)	☐ Alkalinity / W-F / W-TSS / TURBIDITY	☐ Ice			
Macroinvertebrates	☐ MI-FW-QLDC	☐ Formalin			
Periphyton	☐ ALGAE-ID	☐ Ice			
Microbiology	☐ E Coli ☐ F Coli ☐ Enterococcus ☐ PCR-FILTER	☐ Ice			
Tracers	☐ W-SUC-AA-R ☐ W-UHERB-AA	☐ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-AHERB-AA ☐ W-PYR-AA-R ☐ W-PCL-SQ-R ☐ W-UHERB-AA ☐ W-GLYPH	☐ Ice ☐ Other			

Contains 1:1 Sulfuric Acid SA-6242080 EXP: 08/29/17 Warning! See SDS

RQ-2017-01-09-28 1/24/2017 WBID 3258G1 Ten Mile Canal @ Old US 41 - Above Weir Duplicate	SD012417-2 Field ID STORET EVRGWC0125FTM	840	RQ-2017-01-09-28 1/24/2017 Field Blank	SD012417-3 Field ID STORET Blank	850
Signature: Ben Panto			Date: 1/24/17		

Field Parameters Entered into LIMS: (Initials/Date) Field Parameters QC in LIMS: (Initials/Date)

Date Migrated to STORET: (Initials/Date) Field Sheets Scanned/Saved: (Initials/Date)

1/24/2017

WBID 3258G1

Ten Mile Canal @

Old US 41 - Above

Weir

SD012417-1

Field ID

EVRGWC0125FTM

STORET

STORET STATION
NUMBER:DATE
(MM/DD/YY):

SAMPLING AGENCY:

FDEP South ROC

FIELD ID/NAME:

COUNTY:

LOCATION:

RECEIVING BODY OF WATER:

Habitat Parameter	Optimal	Suboptimal	Marginal	Poor
Primary Habitat Components Substrate Diversity <u>4</u>	Four or more major productive habitats present (snags, tree roots, aquatic vegetation, leaf packs (partially decayed), rock) 20 19 18 17 16	Three major productive habitats present. Adequate habitat. Some substrates may be new fall (fresh leaves or snags) 15 14 13 12 11	Two major productive habitats present. Less than desirable habitat, frequently disturbed or removed 10 9 8 7 6	One or less major productive habitat. Lack of habitat is obvious, substrates unstable or smothered 5 <u>4</u> 3 2 1
Substrate Availability <u>20</u>	Greater than 30% major productive habitat present at site <u>20</u> 19 18 17 16	16% to 30% major productive habitat, by aerial extent 15 14 13 12 11	6% to 15% major productive habitat 10 9 8 7 6	Less than 5% major productive habitat 5 4 3 2 1
Water Velocity <u>2</u>	Max. observed at typical transect: > 0.25 m/sec. But < 1 m/sec ≥0.33 0.31 0.29 0.27 >0.25 20 19 18 17 16	Max. observed at typical transect: >0.1 to 0.25 m/sec 0.25 0.21 0.17 0.13 >0.1 15 14 13 12 11	Max. observed at typical transect: 0.05 to 0.1 m/sec 0.1 0.09 0.07 0.06 0.05 10 9 8 7 6	Max. observed at typical transect: <0.05 m/sec; or spate occurring: > 1 m/sec <0.05 0.04 0.03 0.01 <0.01 5 4 3 <u>2</u> 1
Habitat Smothering <u>3</u> ----- Primary Score <u>29</u>	Adequate number of stable pools (1-2 per 12 times width) and <25% of habitats affected by sand, silt, or algae. 20 19 18 17 16	Adequate number of stable pools (1-2 per 12 times width) and >25% of habitats affected by sand, silt, or algae. 15 14 13 12 11	Does not have required number of stable pools (1-2 per 12 x width) and/or has shallow pools (<2 x prevailing depth). 10 9 8 7 6	Stable pools are absent. Most habitats affected by sand, silt, or algae accumulation. 5 4 <u>3</u> 2 1
Secondary Habitat Components Artificial Channelization <u>2</u>	Expected sinuosity given the stream width. No evidence of dredging or artificial straightening. No spoil banks. 20 19 18 17 16	Good sinuosity within old channelized area. Evidence of dredging in the past (>25 yrs) but mostly recovered. 15 14 13 12 11	Straightened with trapezoidal cross section, but has a small degree of sinuosity developed within channelized area. 10 9 8 7 6	Straightened or engineered by dredging, has trapezoidal or box cut cross section, lacks required pools. May have spoil banks. 5 4 3 <u>2</u> 1
Bank Stability Right Bank <u>6</u> <u>6</u> Left Bank	Bankfull > 60% of bank height. Slope of bank ≤ 60° from bankfull to top of bank. Bankfull is within or above the root zone with few raw, eroded areas. 10 9	Only meets 2 of the 3 requirements for optimal bank stability. 8 7 <u>6</u>	Only meets 1 of the 3 requirements for optimal bank stability. 5 4	Bankfull < 60% of bank height. Slope of bank > 60°. Bankfull is below the root zone with raw, eroded areas. 3 2 1
Riparian Buffer Zone Width Right Bank <u>2</u> <u>2</u> Left Bank	Width of vegetation greater than 18 m 10 9	Width of vegetation ≥ 12 to 18 m 8 7 6	Width of vegetation 6 to 12 m. human activities close to system 5 4	Less than 6 m of buffer zone due to intensive human activities 3 <u>2</u> 1
Riparian Zone Vegetation Quality Right Bank <u>2</u> <u>2</u> Left Bank ----- Secondary Score <u>22</u>	Over 80% of riparian surfaces consist of normal, expected plant community for given sunlight & habitat conditions (e.g., native plants; tree, shrub, and forbs represented, if appropriate). Minimal disturbance. 10 9	>50% to 80% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions). Some disruption in community observed. 8 7 6	25% to 50% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions). Disruption obvious. 5 4	Less than 25% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions). 3 <u>2</u> 1

51

TOTAL SCORE

Date:

1-24-17

Analyst:

Corey Anderson

Signature:

[Signature]

1/24/2017

WBID 325861

Ten Mile Canal @

Old US 41 - Above Weir

Weir



SD012417-1

Field ID

STORET

EVRGWC0125FTM



DEP FORM FD 9000-32: LINEAR VEGETATION SURVEY FIELD

Date:

County:

Waterbody:

Signature:

Corey Andersen

1-24-17

Comments:

Instructions: Note taxa growing in the water with a checkmark if present, "D" if dominant, and "C" if codominant (dominance only if 1 m² of taxa present). Note in the boxes below if no dominant are selected, and note total macrophyte abundance rank for each section. Only the most common taxa are listed, so use blank spaces for additional taxa names. **bold is exotic invasive**

HERBACEOUS SPECIES	Meter Mark										Specimen collected (check)	HERBACEOUS SPECIES	Meter Mark										Specimen collected (check)
	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100			0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100	
Alternanthera philoxeroides	P	P	P	P	P	P	P	P	P	P		Micranthemum glomeratum											
Bacopa caroliniana												Micranthemum umbrosum											
Bacopa monnieri												Myriophyllum aquaticum											
Bidens mitis												Najas guadelupensis			P								
Boehmeria cylindrica												Nuphar luteum											
Centella asiatica												Orontium aquaticum											
Ceratophyllum demersum												Panicum hemitomon											
Chara sp.			P	P	P	P				P		Panicum repens	P	P			P	P	P				
Cicuta maculata												Panicum rigidulum											
Cladium jamaicense												Pistia stratioides	P	P	P	P	P	P					
Colocasia esculenta												Polygonum glabra											
Commelina diffusa												Polygonum hydropiperoides											
Commelina virginica												Polygonum punctatum											
Crinum americanum												Pontedaria cordata			P								
Cyperus												Potamogeton illinoensis											
Diodia virginiana												Ruellia simplex											
Eichhornia crassipes												Sacciolepis striata											
Eleocharis (wispy viviparous)												Sagittaria kurziana											
Hydrilla verticillata	P	P						P	P			Sagittaria lancifolia											
Hydrocotyle sp.				P	P							Sagittaria latifolia											
Hygrophila polysperma	D	D	D	D	D	D	D	D	D	D		Salvinia minima	P	P	P	P	P	P	P	P	P	P	
Hymenachne amplexicaulis												Samolus parviflora											
Hymenocallis												Saururus cernuus											
Lachnanthes caroliniana												Sparganium americanum											
Landoltia punctata												Sphagneticola trilobata (Wedelia)											
Lemna sp.												Typha sp.											
Limnophila sessiflora												Urochloa mutica (Brachiaria)											
Ludwigia leptocarpa												Vallisneria americana											
Ludwigia palustris												Zizania aquatica											
Ludwigia peruviana																							
Ludwigia repens																							
Luziola fluitans																							
If no Dominant or Co-Dominant were selected, indicate with "X"												Recently Herbicide Treated											
Indicate % cover macrophytes per section																							
0-5% Macrophyte Coverage																							
>5 and ≤10% Macrophyte Coverage																							
>10 and ≤25% Macrophyte Coverage																							
>25 and ≤50% Macrophyte Coverage																							
> 50% Macrophyte Coverage	X	X	X	X	X	X	X	X	X	X													

1/24/2017
WBID 3258G1
Ten Mile Canal @
Old US 41 - Above
Weir
DATE _____
SITE NAME see stick

SD012417-1
Field ID
STORET
RGWC0125FTM
RECEIVING ID

IFLFTM _____ LATITUDE _____
 _____ LONGITUDE _____
 _____ SAMPLING AGENCY FDEP South ROC
 BODY OF WATER Estero Bay

RIPARIAN ZONE / STREAM FEATURES

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category) :								Landscape Development Intensity Index (LDI)	
Forest/Natural	Silviculture	Field/Pasture	Agricultural	Residential	Commercial	Industry	Other (Specify)		
		10		50	20	20			
Local Watershed Erosion (select one) : ☐ None ☒ Slight ☐ Moderate ☐ Heavy						Typical Width (m) Depth (m)/Velocity (m/sec) Transect			
Local Watershed NPS Pollution : ☐ No evidence ☐ Slight ☒ Moderate ☐ Heavy						40 m wide			
Width of Riparian Vegetation (m) on Each Buffer Side Left Bank : 6 Right Bank : 6				Hydrologic Modification Score (per FT 3101)		.01 m/s .01 m/s .01 m/s			
High Water Mark: .1 + 3 = 3.1 (m) (above present water level) (present depth) (above bed)				Artificially Impounded ☒ Yes ☐ No		1 m deep 3 m deep 1 m deep			
Artificially ☐ No		☐ Mostly recovered, more sinuous		Canopy Cover %		☒ Open		☐ Lightly Shaded (11-45%)	
Channelized : ☐ Some recovery		☒ Recent, severe				☐ Heavily Shaded		☐ Moderate Shaded (46-80%)	

SEDIMENT / SUBSTRATE

Sediment Oils ☒ Absent ☐ Slight ☐ Moderate ☐ Profuse	Sediment Odors ☒ Normal ☐ Sewage ☐ Petroleum ☐ Chemical ☐ Anaerobic ☐ Other (Specify) :	Smothering of Substrates Sand Smothering: None ☒ Slight ☐ Moderate ☐ Severe ☐ Silt Smothering: None ☐ Slight ☒ Moderate ☐ Severe ☐ Algae Smothering: None ☒ Slight ☐ Moderate ☐ Severe ☐																																																																												
SUBSTRATE TYPE Assessment Tool: ☐ SCI ☒ RPS ☒ LVS ☐ LCI ☐ BioRecon <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">% Coverage</th> <th style="text-align: center;">INVERT # Times Sampled</th> <th style="text-align: center;">PERI # Times Sampled</th> </tr> </thead> <tbody> <tr><td>Woody Debris (Snags)</td><td>☐</td><td>☐</td><td>☐</td></tr> <tr><td>Undercut Banks / Roots</td><td>☐</td><td>☐</td><td>☐</td></tr> <tr><td>Leaf Packs or Mat</td><td>☐</td><td>☐</td><td>☐</td></tr> <tr><td>Aquatic Vegetation</td><td>☐</td><td>☐</td><td>☐</td></tr> <tr><td>Rock or Shell Rubble..</td><td>☐</td><td>☐</td><td>☐</td></tr> <tr><td>Sand.....</td><td>☐</td><td>☐</td><td>☐</td></tr> <tr><td>Mud / Muck / Silt</td><td>☐</td><td>☐</td><td>☐</td></tr> <tr><td>Other</td><td>☐</td><td>☐</td><td>☐</td></tr> <tr><td>Other</td><td>☐</td><td>☐</td><td>☐</td></tr> </tbody> </table>			% Coverage	INVERT # Times Sampled	PERI # Times Sampled	Woody Debris (Snags)	☐	☐	☐	Undercut Banks / Roots	☐	☐	☐	Leaf Packs or Mat	☐	☐	☐	Aquatic Vegetation	☐	☐	☐	Rock or Shell Rubble..	☐	☐	☐	Sand.....	☐	☐	☐	Mud / Muck / Silt	☐	☐	☐	Other	☐	☐	☐	Other	☐	☐	☐	WATER QUALITY <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">Depth (M)</th> <th style="text-align: center;">Temp. (°C)</th> <th style="text-align: center;">pH (SU)</th> <th style="text-align: center;">D.O. (MG/L)</th> <th style="text-align: center;">D.O. Sat (%)</th> <th style="text-align: center;">Cond. (UMHO/CM)</th> <th style="text-align: center;">Salinity (PPT)</th> <th style="text-align: center;">SECCHI (M)</th> </tr> </thead> <tbody> <tr> <td>Top :</td> <td style="text-align: center;">0.3</td> <td style="text-align: center;">21.3</td> <td style="text-align: center;">7.6</td> <td style="text-align: center;">6.3</td> <td style="text-align: center;">99</td> <td style="text-align: center;">640</td> <td></td> <td style="text-align: center;">0.9</td> </tr> <tr> <td>Mid:</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☒ VOB</td> </tr> <tr> <td>Bottom</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>TOTAL DEPTH</td> </tr> </tbody> </table> Meter ID: 5		Depth (M)	Temp. (°C)	pH (SU)	D.O. (MG/L)	D.O. Sat (%)	Cond. (UMHO/CM)	Salinity (PPT)	SECCHI (M)	Top :	0.3	21.3	7.6	6.3	99	640		0.9	Mid:	☐	☐	☐	☐	☐	☐	☐	☒ VOB	Bottom	☐	☐	☐	☐	☐	☐	☐	TOTAL DEPTH
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AMBIENT FIELD CONDITIONS / NOTES: ☒ The antecedent hydrologic conditions have been met to my best knowledge.																																																																														
SAMPLING TEAM Ben Paswater, Corey Anderson, Veronica Runge		SIGNATURE : Ben Paswater																																																																												
DATE : 1/24/17		DATE : 1/24/17																																																																												

RQ-2017-01-09-28

1/24/2017

WBID 3258G1

Ten Mile Canal @

Old US 41 - Above

Weir



SD012417-1

Field ID

STORET

EVRGWC0125FTM



STORET Station Number:

DEP FORM FD 9000-25 Rapid Periphyton Survey Field Sheet

County: <u>Lee</u>		Investigators: <u>BP CA</u>			
Transect (m)	Point 1=right 9=left	Algal Thickness Rank (N-6, X)	Estimated	Canopy Cover	
0	1	X			60
	2	X			
	3	X			
	4	X			
	5	X			
	6	X			
	7	N			
	8	N			
	9	N			
10	1	X			70
	2	X			
	3	X			
	4	X			
	5	X			
	6	X			
	7	N			
	8	N			
	9	N			
20	1	X			80
	2	X			
	3	X			
	4	X			
	5	X			
	6	X			
	7	N			
	8	N			
	9	N			
30	1	X			90
	2	X			
	3	X			
	4	X			
	5	X			
	6	X			
	7	N			
	8	N			
	9	N			
40	1	X			100
	2	X			
	3	X			
	4	X			
	5	X			
	6	X			
	7	N			
	8	N			
	9	N			
50	1	X			
	2	X			
	3	X			
	4	X			
	5	X			
	6	X			
	7	N			
	8	N			
	9	N			

Record "N" and check "Estimated" for points deeper than the Secchi depth; algae are presumed absent. Check "Estimated" if thickness estimated for deep points which can be seen but not reached.

Record "X" for points shallower than Secchi depth for which substrate cannot be seen or reached with the hand. No estimated rank.

Record canopy cover as the number of small densiometer quadrants (out of 96) that HAVE canopy cover. Measure facing upstream at point 4, 5, or 6.

Collect algal mat sample following DEP SOP FS 7240 if the percentage of total sampled points with a thickness rank of 4, 5, or 6 is >20%.

Secchi depth	<u>.9</u>
Estimated?	<u>N/O</u>

# points ranked 4-6	
total points assessed	
% points ranked 4-6	

Check accompanying data collected at same site/date.	
Algal mat sample	
Linear Veg Survey	☒
Habitat Assessment	☒
SCI/Biorecon	
Water sample	☒
RQ-	

Algal Thickness Rank	
N	rough, no algae, slimy, algae up to 1mm
3	>1mm - 6mm
4	>6mm - 20mm
5	>20mm - 10 cm
6	>10 cm

RQ-2017-01-09-28

1/24/2017

WBID 3258G1

Ten Mile Canal @

Old US 41 - Above Weir

SD012417-1

Field ID

STORET

EVRGWC0125FTM

Date:

Sampler:

Ben Paswater

100 m: Latitude

26.50737

Longitude

-81.85475

0 m: Latitude

26.50636

Longitude

-81.85476

Substrates: Code key, draw proportionate habitat abundance.



Snags

few



Roots/undercut banks



Leaf Packs (or mats)



Aquatic Macrophytes

84



not veg



Pools

total # observed = 0

range expected = 0-1

Average width

40

m

Average depth

3

m

Velocity measured at 10 meter mark.

WQ & chemistry taken at 0 meter mark.

Habitat Smothering:

Note areas (on map) where sand or silt is smothering substrates, limiting habitability.

Bank Stability:

Note areas (on map) with unstable, eroding banks.

Riparian Buffer Width:

Note areas (on map) where natural vegetation is altered or eliminated.

Plants observed / other notes:

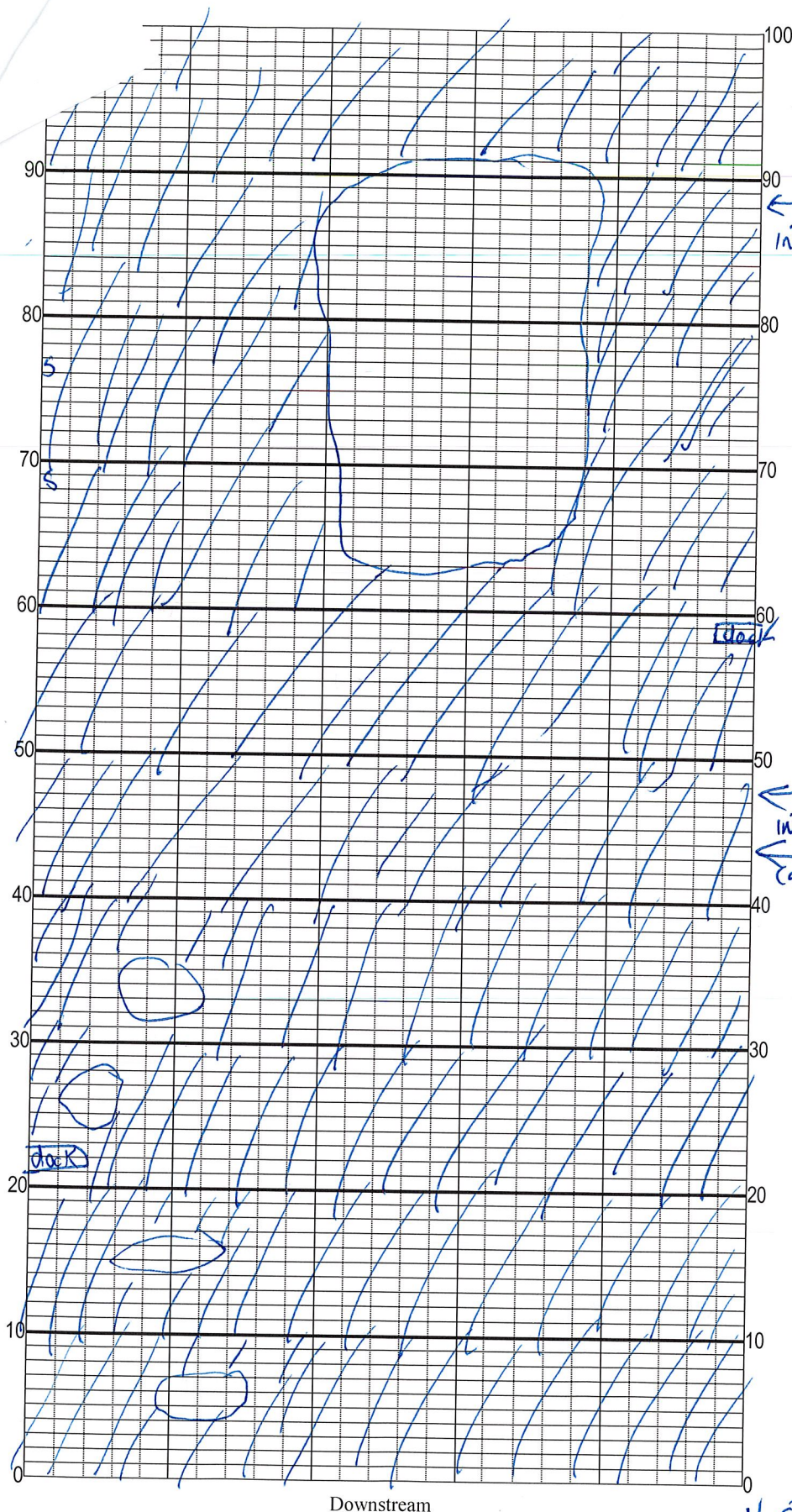
Hydrilla

Hygrophilic polysperma

V 4200

S few

Left Bank



Downstream

Length of grid represents 100 m of stream (not linear meters).
(Horizontal scale is double vertical scale, draw proportionately).