Additional file 1

 $\textbf{Table S1.} \ \textbf{The definitions and classifications for environmental parameters of larval habitats}.$

Environmental	Classifications	Definitions	
Parameter Habitat	Broad classification of the form of each larval habitat (single choice)		
наона	Transient pools	Temporary pool of water formed in surface	
	Transient pools	depressions.	
	Lagoon or swamp	Low area filled with stagnant water, could	
	Lagoon of swamp	be freshwater or a brackish water marsh.	
		Note that this includes blocked stream	
		mouths, were a body of ground water	
		forms when the flow is prevented from	
		discharging by an obstruction (ie., sand bar	
		or similar)	
	Drains	A narrow channel parallel to a road or field capable of holding or carrying away water	
	Man-made holes	Artificial body of water created by	
		humans, this includes construction pits,	
		concrete ponds, tyre tracks and water wells	
	Water storage containers	Man-made tanks/barrels for holding water	
	Riverine habitat	A narrow natural flowing water body	
	Pond	Permanent (or semi-permanent) natural	
		body of still ground freshwater	
	Rock pool	A pool of water that collects in a	
		depression in a rock	
Substrate	Description of the base of the larval habitat (multiple choice) [17]		
	Rocks	Stones >2 cm in diameter	
	Gravel	Stones from 4 mm to 2 cm in diameter	
	Sand	Stones from 0.05 and 4 mm in diameter	
	Silt	Fine Particles of sand, clay, or other materials <0.05 mm in diameter deposited as a sediment	
Water depth	Distance from the bottom to the surface of an aquatic habitat		
www.uop.m	measured approximately 30 cm from the perimeter of the habitat		
	(single choice)		
	0-4 cm	Water is less than and including 4 cm deep	
	5 – 9 cm	Water is between 5 and 9 cm deep	
	10 – 14 cm	Water is between 10 and 14 cm deep	
	15 – 19 cm	Water is between 15 and 19 cm deep	
		*	

Environmental parameter	Classifications	Definitions	
•	>20 cm	Water is more than 20 cm deep	
Perimeter	Perimeter of the habitat, described by its size (single choice)		
	Small	Habitat with a circumference of less than	
		10 m	
	Medium	Habitat with a circumference between 10	
		and 100 m	
	Large	Habitat with a circumference over 100 m	
Bank slope	The gradient of the l	and bank at the point where it meets the water	
	surface (single choice) [30] (Figure A1)		
	Gentle	When the angle of ground forming the	
		sides of a larval habitat ranges from 0 –	
	3.6.1	19°	
	Moderate	When the angle of ground forming the	
		sides of a larval habitat ranges from $20-49^{\circ}$	
	Steep	When the angle of ground forming the	
		sides of a larval habitat ranges from 50 –	
		90°	
Canopy	Vegetation coverage above the sampling site (single choice)		
	None	Absence of any vegetation shading a larval	
		habitat	
	Bush	Small- to medium-sized woody plant	
	Tree	overhanging the larval habitat Woody plant more that 6 m tall	
	1100	overhanging the larval habitat	
Sunlight	Amount of natural i	llumination of the larval habitat during the day	
Sumgnt	(single choice)	inimination of the turval habital during the day	
	No sun	Absence of direct solar light	
	Partial sun	Variable solar illumination during daytime	
		due to partial obstruction by vegetation	
	Full sun	Condition whereby the habitat receives	
		complete solar illumination throughout	
		daytime	
Vegetation	Types of plants living in the sample site (multiple choice)		
	None	Absence of plants	
	Trees	Woody vegetation >6 m tall	
	Bushes	Woody vegetation <6m tall	
	Algae	Any of a large, diverse group of	
	- TI - !	photosynthetic eukaryotic organisms	
	Floating	Plant matter suspended on the habitat	
		surface	

Environmental	Classifications	Definitions
parameter		
	Emergent	Woody or non-woody plants rooted in the
		bottom of the larval habitat that rise above
		the surface of the larval habitat
Debris	The remains of vegetat	ion (non-living) and man-made materials
	(paper, plastic, metal)	in or on the larval habitat (multiple choice)
	None	Absence of natural or man-made materials
	Dead plant material	Non-living vegetative material present
	Man-made material	Plastic, metal or paper or other non-natural
		materials processed by humans
	Scum	Surface film composed of dirt, organic
		materials or froth (including biofilms) on
		the larval habitat
	Pumice	Buoyant rocks/gravel present on the habitat
		surface
Predators	Animals that naturally	prey on immature mosquitoes (multiple
	choice)	
	Fish	Gill-bearing aquatic animals lacking limbs
		with digits
	Tadpoles	Immature amphibians
	Dragonfly nymphs	Nymphs of the order Odonata, family
		Anisoptera
	Water striders	Insects of the family Gerridae
	Other	Carnivorous animals not in the above
		classifications