

Site Disturbance Record

Protocol & Data Sheet

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(To be completed during the field visit)

Date:	Time:	□ Con	trol site	☐ Compared site
Name of reporter:	Title:		River name:	Ť
Site GPS- N:	; E:		; Elevation:	
	Site Disturb	ances		
Please answer the follow	ing questions on some ex	isting hu	ıman activities ald	ong your rivers.
Extracting sand and gravel				
* If more than one site disturbar entry at the end of this form.	nce of this type, please make	another	GPS point: N:	E:
For example:				
People and machinery entering vegetation (see General Information)	•	verbank		
These activities deepen the sunlight that reaches aquatic p		ount of		
Please describe what is happen	ning?			ter quality monitoring
				turbance(s):
			How serious is the Please tick one bo	
			☐ Little Overall	Disturbance
• In your opinion, how is this af potentially in the future?)	fecting your water resources	(now or		erall Disturbance Overall Disturbance
Gold/mineral mining near yo	our river site		Site name:	
or upstream of it			GPS point: N:	Е:
* If more than one site disturbar entry at the end of this form.	ace of this type, please make	another		



 For example: People and machinery on the riverbanks can destroy riverbank vegetation. Any poisonous substances used in mining operations can flow into the river and harm or kill aquatic organisms. Humans who eat poisoned aquatic organisms can become ill. Mining activities sometimes draw water from the river, which lowers its level and can harm aquatic organisms and their habitats. 	
Please describe what is happening?	- Location: - Distance from water quality monitoring site: Area: - Date(s) of site disturbance(s): How serious is the disturbance?
In your opinion, how is this affecting your water resources (now or potentially in the future?)	Please tick one box. □ Little Overall Disturbance □ Moderate Overall Disturbance □ Substantial Overall Disturbance
Development of residential/communities, schools, markets, hospitals, restaurants, road building, bridges near the riverbank	Site name :
* If more than one site disturbance of this type, please make another entry at the end of this form.	
 For example: These activities can destroy riverbank vegetation and create the problem to living aquatic life. The main sites of public communities, hospitals, markets that people can release the bad pollutions in the river as well as bank erosion. Road surfaces do not allow water to sink into the soil, causing water to run off the road surface and erode soil beyond the road. Runoff often carries pollutants from vehicles, such as gasoline and oil, as well as sediments. 	
Please describe what is happening?	- Location:
	How serious is the disturbance? Please tick one box.



In your opinion, how is this affecting your water resources (now or potentially in the future?)	 □ Little Overall Disturbance □ Moderate Overall Disturbance □ Substantial Overall Disturbance
Factories, power plants, /communities, schools, markets, hospitals, restaurants near the riverbank * If more than one site disturbance of this type, please make another entry at the end of this form.	Site name :
For example: • These activities can destroy riverbank vegetation and aquatic life.	
• The main sites of public communities, hospitals, markets that people can release the bad pollutions in the river as well as bank erosion.	
• If there is discharge, spills	
Please describe what is happening? In your opinion, how is this affecting your water resources (now or potentially in the future?)	- Location:
Agriculture near river bank such as: garden/crop farming, livestock grazing, swidden agriculture. * If more than one site disturbance of this type, please make another entry at the end of this form.	Site name :
 For example: These activities can destroy riverbank vegetation. Fertilizers and pesticides used on crops can become chemical pollution in the river. Humans who eat aquatic organisms poisoned by pesticides can become ill. Livestock wastes can cause organic pollution in the river. 	- Location:
Please describe what is happening?	- Distance from water quality monitoring



In your opinion, how is this affecting your water resources (now or potentially in the future?)	site: Area: Date(s) of site disturbance(s): How serious is the disturbance? Please tick one box. □ Little Overall Disturbance □ Moderate Overall Disturbance □ Substantial Overall Disturbance
Forestry: slash and burn, logging activities near river bank * If more than one site disturbance of this type, please make another entry at the end of this form.	Site name :
 For example: These activities can cause bank erosion and make water turbidity Logging activities (selective or intensive logging) can cause flood and drought phenomena and affect to hydrological system. Shade from trees can be reduced, which allows the sun to warm the water. This reduces dissolved oxygen levels in the river 	
Please describe what is happening?	- Location:
• In your opinion, how is this affecting your water resources (now or potentially in the future?)	How serious is the disturbance? Please tick one box. Little Overall Disturbance Moderate Overall Disturbance Substantial Overall Disturbance
In-stream aquaculture * If more than one site disturbance of this type, please make another entry at the end of this form.	Site name :
 For example: Large populations of aquatic organisms produce large volumes of waste, which can cause organic pollution in the river. When many aquatic organisms are confined to a small area in the river, diseases can multiply rapidly and can be spread to wild 	



populations of aquatic organisms.	
Please describe what is happening? In your opinion, how is this affecting your water resources (now or potentially in the future?)	- Location:
* If more than one site disturbance of this type, please make another entry at the end of this form.	Site name :E:
For example: • Overfishing can deplete populations of fish, which can cause other organisms to decrease or disappear. Please note: Lao rivers can accommodate a lot of fishing pressure as long as the aquatic habitats that support them are healthy.	
Please describe what is happening?	- Location:
In your opinion, how is this affecting your water resources (now or potentially in the future?)	How serious is the disturbance? Please tick one box. Little Overall Disturbance Moderate Overall Disturbance Substantial Overall Disturbance
77 1 1:1	Site manua .
 Human sewage and solid waste * If more than one site disturbance of this type, please make another entry at the end of this form. 	Site name :E:



For example: • Human sewage can cause organic pollution in the river. • Solid waste (trash, car washing and other discarded items) can get into the river and harm aquatic organisms. • Some trash may contain toxic substances that can harm or kill aquatic organisms. • Trash from human activities often gets into rivers. Trash can include plastic bags and other items that do not break down. If aquatic organisms swallow plastic items, they can die. Plastic items that become stuck on the riverbed can smother aquatic organisms and their habitats. - Location:.... • Please describe what is happening? - Distance from water quality monitoring site:.... - Area:.... - Date(s) of site disturbance(s):..... How serious is the disturbance? Please tick one box. • In your opinion, how is this affecting your water resources (now or ☐ Little Overall Disturbance potentially in the future?) ☐ Moderate Overall Disturbance **☐** Substantial Overall Disturbance Boat traffic Site name :..... **GPS point: N:.....E:...** For example: • People walking into and out of the river to get into a boat can destroy riverbank vegetation. • Boats can stir up sediments on the riverbed, which can clog the gills of aquatic organisms. • Motor boats can leak gasoline and oil into the river, causing chemical pollution. - Location:.... • Please describe, what is happening? - Distance from water quality monitoring site:.... - Area:.... - Date(s) of site disturbance(s):..... How serious is the disturbance? Please tick one box. ☐ Little Overall Disturbance

• In your opinion, how is this affecting your water resources (now or

potentially in the future?)

☐ Moderate Overall Disturbance

☐ Substantial Overall Disturbance



* If more than one site disturbance of this type, please make another entry at the end of this form.	Site name :
For example:	
 These activities introduce soap and/or detergent into the river, causing chemical pollution. People walking down to the river can destroy riverbank vegetation. 	
Please describe what is happening?	- Location:
In your opinion, how is this affecting your water resources (now or potentially in the future?)	How serious is the disturbance? Please tick one box. Little Overall Disturbance Moderate Overall Disturbance Substantial Overall Disturbance
Unusual animal conditions in/near River * If more than one site disturbance of this type, please make another entry at the end of this form.	Site name :
 For example: Dear fish or using explosives to catch fish Animals, waterfowl died 	
Please describe, what is happening? In your opinion, how is this affecting your water resources (now or a second content of the seco	- Location:



potentially in the future?)		
Please tick one in the box		
☐ Little Overall Disturbance		
☐ Moderate Overall Disturbance		
☐ Substantial Overall Disturbance		
Unnatural fluctuations in water level	Site name :	
* If more than one site disturbance of this type, please make another entry at the end of this form.	GPS point: N:E:	
For example:		
• This could be due to a dam, water diversions, water withdrawals, or other human activities.		
 Low water levels can cause aquatic organisms to become stranded above the water level, where they suffocate without the dissolved oxygen contained in water. Stranded organisms are also more exposed to predators. 		
• Low water slows down and warms up.	11.	
• Low, slow water does not effectively flush out pollutants. This can degrade drinking water supplies and allow disease organisms to multiply, impacting human health.		
 High water levels can cause riverbank erosion and sedimentation downstream. 		
 High water moves fast and can dislodge aquatic organisms from the river bottom. 		
• Flooded rivers can pick up pollutants and trash from riverbanks.		
Please describe what is happening?	- Location:	
In your opinion, how is this affecting your water resources (now or	How serious is the disturbance? Please tick one box.	
potentially in the future?)	☐ Little Overall Disturbance	
	☐ Moderate Overall Disturbance	
	☐ Substantial Overall Disturbance	
Unusual physical characteristics of water resources * If more than one site disturbance of this type, please make another entry at the end of this form.	Site name :	



For example:			
River: taste, smell, color			
• The well: taste, smell, color			
Please describe what is happeni	ng?	- Location:	
In your opinion, how is this affecting your water resources (now or potentially in the future?)		How serious is the disturbance? Please tick one box. Little Overall Disturbance Moderate Overall Disturbance	
		☐ Substantial Overall Disturbance	
Other (please specify and insert site disturbance)	a new entry for each different	Site name :	
Please describe, what is happen	ing?	- Location:	
In your opinion, how is this affer potentially in the future?)	cting your water resources (now or	How serious is the disturbance? Please tick one box. Little Overall Disturbance Moderate Overall Disturbance Substantial Overall Disturbance	
		Sum of Points =	
	Observer Seems -	Sum of Points = Sum of Points = Disturbances = Sum of Points =	
	Site Disturbance Score Ran	ge	
Little overall disturbance	Moderate overall disturbance	Substantial overall disturbance	
3.0 - 2.6	2.5 - 1.7	1.6 – 1.0	

Complete a Site Sketch below.