










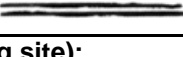


Site name		date	sample no.	Investigator
Site related information (to be recorded just once)				
1 map			2 country	
			3 federal state	
			4 map no.	
			5 stream name	
			6 stream type	
			7 stream order (Strahler syst.)	
8 distance to source [km]	9 long. (deg,min,sec)	10 latitude (deg,min,sec)	11 altitude (m.a.s.l)	
12 ecoregion and ecoregion no.		13 sub-ecoregion (if applicable, optional)		
14 stream system (river flowing i. the sea)		15 catchment area [km²]		
16 size typology		18 geology (dominant type)		
18b geology class				
19 land and use in catchment area (10% steps) (optional)				
<input type="checkbox"/> deciduous native forest <input type="checkbox"/> naturally unvegetated <input type="checkbox"/> pasture <input type="checkbox"/> coniferous native forest <input type="checkbox"/> alpine heath <input type="checkbox"/> clear-cutting <input type="checkbox"/> mixed native forest <input type="checkbox"/> standing waters <input type="checkbox"/> urban sites (resid.) <input type="checkbox"/> wetland (mire) <input type="checkbox"/> non-native forest <input type="checkbox"/> urban sites (industrial) <input type="checkbox"/> open grass-/bushland <input type="checkbox"/> macchie <input type="checkbox"/> others: _____ <input type="checkbox"/> reeds <input type="checkbox"/> crop land				
20 mean annual discharge (MQ) [l/s] (optional)		24 hydrologic stream type		
		<input type="checkbox"/> permant <input type="checkbox"/> periodic: _winter-dry _summer-dry <input type="checkbox"/> episodic		
25 prescense of lakes upstream of sampling site (opt.)			27 slope of the valley floor [%]	
<input type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> artificial <input type="checkbox"/> reservoir				
29 valley form				
<input type="checkbox"/> canyon		<input type="checkbox"/> meander valley		
<input type="checkbox"/> V-shaped valley		<input type="checkbox"/> U-shaped valley		
<input type="checkbox"/> through		<input type="checkbox"/> plain floodplain		

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Site related information (to be recorded just once)			
26b cross section			
		<p>a) width of floodplain [m] _____</p> <p>b) flood prone area width [m] _____</p> <p>c) entrenchment depth [m] _____</p> <p>d) average stream width [m] _____</p> <p>e) mean depth water body [m] _____</p> <p>f) maximum depth water body [m] _____</p>	
30 land and use in floodplain 1km length (10% steps)			
<input type="checkbox"/> deciduous native forest <input type="checkbox"/> coniferous native forest <input type="checkbox"/> mixed native forest <input type="checkbox"/> wetland (mire) <input type="checkbox"/> open grass-/bushland <input type="checkbox"/> reeds	<input type="checkbox"/> naturally unvegetated <input type="checkbox"/> alpine heath <input type="checkbox"/> standing waters <input type="checkbox"/> non-native forest <input type="checkbox"/> macchie <input type="checkbox"/> crop land	<input type="checkbox"/> pasture <input type="checkbox"/> clear-cutting <input type="checkbox"/> urban sites (resid.) <input type="checkbox"/> urban sites (industrial) <input type="checkbox"/> others: _____	Sum : 100%

Site name		date	sample no.	Investigator
Site related information (to be recorded just once)				
Stream morphology and hydrology				
69 shading at zenith (foliage cover) <input type="checkbox"/> 0% <input type="checkbox"/> 20% <input type="checkbox"/> 40% <input type="checkbox"/> 60% <input type="checkbox"/> 80% <input type="checkbox"/> 100%		70 average width of natural woody vegetation right ____ left ____ shoreline		
71 channel form <input type="checkbox"/> meandering		<input type="checkbox"/> sinuate		
<input type="checkbox"/> braided		<input type="checkbox"/> constrained (natural)		
<input type="checkbox"/> anabranching		<input type="checkbox"/> constrained (artificial)		
73 presence of standing water bodies in the floodplain (number at sampling site):				
____ side arms connected to the river/stream		____ side arms abandoned years/decades ago in the process of silting up		
____ temporary side arms recently disconnected from the river/stream		____ standing water bodies located in the floodplain and fed by tributaries		
____ permanent side arms recently disconnected from the river/stream		____ other types		
____ no standing water bodies present		(please specify) _____		
74 debris dams (POM accumul. >0,3m³) at sampl. site <input type="checkbox"/> none <input type="checkbox"/> few <input type="checkbox"/> several <input type="checkbox"/> many		75 logs (>10 cm Ø) <input type="checkbox"/> none <input type="checkbox"/> few <input type="checkbox"/> several <input type="checkbox"/> many		
76 shoreline covered with woody riparian vegetation at sampling site				
left <input type="checkbox"/> 0% <input type="checkbox"/> 10% <input type="checkbox"/> 20% <input type="checkbox"/> 30% <input type="checkbox"/> 40% <input type="checkbox"/> 50% <input type="checkbox"/> 60% <input type="checkbox"/> 70% <input type="checkbox"/> 80% <input type="checkbox"/> 90% <input type="checkbox"/> 100%		right <input type="checkbox"/> 0% <input type="checkbox"/> 10% <input type="checkbox"/> 20% <input type="checkbox"/> 30% <input type="checkbox"/> 40% <input type="checkbox"/> 50% <input type="checkbox"/> 60% <input type="checkbox"/> 70% <input type="checkbox"/> 80% <input type="checkbox"/> 90% <input type="checkbox"/> 100%		
Human impacts on sampling site				
77 dams (no and cum. height)		78 other transverse structures <input type="checkbox"/> yes <input type="checkbox"/> no		
79+80 bank and bed fixation				
	left shoreline	bed	right shoreline	
concrete without seams	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
concrete with seams	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
stones	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
wood	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
trees	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
stone plastering with interstices	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
stone plastering without interstices	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
other materials _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
no bank fixation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
81 stagnation <input type="checkbox"/> yes <input type="checkbox"/> no	82 torrent modification <input type="checkbox"/> yes <input type="checkbox"/> no	83 channelg. f. navig. <input type="checkbox"/> yes <input type="checkbox"/> no	84 straightening <input type="checkbox"/> yes <input type="checkbox"/> no	
85 removal of CWD <input type="checkbox"/> yes <input type="checkbox"/> no	86 cut-off meanders <input type="checkbox"/> yes <input type="checkbox"/> no	87 scouring [m bel. surf.] <input type="checkbox"/> yes <input type="checkbox"/> no [____ m]	88 culverting <input type="checkbox"/> yes <input type="checkbox"/> no	
89 pulse releases <input type="checkbox"/> yes <input type="checkbox"/> no	91 water abstraction <input type="checkbox"/> yes <input type="checkbox"/> no			
93 removal/lack of natural floodplain veget. <input type="checkbox"/> yes <input type="checkbox"/> no		94 non-native woody riparian vegetation <input type="checkbox"/> yes <input type="checkbox"/> no		
Pollution at sampling site				
95 source poll. <input type="checkbox"/> yes <input type="checkbox"/> no	96 non-source poll. <input type="checkbox"/> yes <input type="checkbox"/> no	97 sewage overflows <input type="checkbox"/> yes <input type="checkbox"/> no	98 eutrophication <input type="checkbox"/> yes <input type="checkbox"/> no	
99 acidification <input type="checkbox"/> yes <input type="checkbox"/> no	100 liming <input type="checkbox"/> yes <input type="checkbox"/> no	101 mining <input type="checkbox"/> yes <input type="checkbox"/> no	102 toxic substances <input type="checkbox"/> yes <input type="checkbox"/> no	

Site name	date	sample no.	Investigator		
Sample related information, to be recorded at each sampling date (copy if necessary)					
103 MINERAL MICROHABITATS (5% steps, <u>indicate microhabitats <5% with 'X'</u>) indicate artificial microhabitats with 'X' ('technolithal')	% of coverage - 5% steps - <u>only mineral</u> microhabitats	% of coverage - 5% steps - <u>sum of mineral</u> and biotic microhabitats	number of sampling units		"technolithal" <input type="checkbox"/>
			total	comments on units allocation according to current conditions and margin zone	
hygropetric sites water layer on solid substrates					<input type="checkbox"/>
megalithal > 40 cm large cobbles, boulders and blocks, bedrock					<input type="checkbox"/>
macrolithal > 20 cm to 40 cm coarse blocks, head-sized cobbles (with variable percentages of cobbles, gravel and sand)					<input type="checkbox"/>
mesolithal > 6 cm to 20 cm fist to hand-sized cobbles (with variable percentages of gravel and sand)					<input type="checkbox"/>
microlithal > 2 cm to 6 cm coarse gravel - size of a pigeon egg to child's fist (with variable percentages of medium to fine gravel)					<input type="checkbox"/>
akal > 2 mm to 2 cm fine to medium-sized gravel					<input type="checkbox"/>
psammal / psammopelal > 6 µm to 2 mm sand / sand with mud (incl. organic mud und sludge)					<input type="checkbox"/>
argyllal < 6 µm silt, loam, clay (inorganic)					<input type="checkbox"/>
sum =	100%				
104 BIOTIC MICROHABITATS (5% steps, <u>indicate microhabitats <5% with 'X'</u>)					
	<u>only biotic</u> microhabitats				
macro-algae filamentous algae, algal tufts					
micro-algae diatoms and other algae					
submerged macrophytes macrophytes, including moss and Characeae					
emergent macrophytes e.g. <i>Typha</i> , <i>Carex</i> , <i>Phragmites</i>					
living parts of terrestrial plants fine roots, floating riparian vegetation					
xylal (wood) tree trunks, dead wood, branches, roots					
CPOM matter, e.g. deposits of coarse particulate organic					
FPOM deposits of fine particulate organic matter					
debris organic and inorganic matter deposited within the splash zone area by wave motion and changing water levels, e.g. mussel shells, snail shells					
sewage bacteria, -fungi and sapropel (e.g. <i>Sphaerotilus</i> , <i>Leptomitus</i>), sulphur bacteria (e.g. <i>Beggiatoa</i> , <i>Thiothrix</i>), sludge					
sum =	variable	100%	20		

Site name		date		sample no.		Investigator			
Sample related information (to be recorded at each sampling date)									
105a relation lentic/lotic zones [share of lentic zones %]				106 discharge (estimated) [l/s]					
107 colour []no colour []blue []grey []red []green []brown		108 odours [] yes [] no		109 foam [] yes [] no		110 pH			
						111 conductivity [µS/cm]			
112 reduction phenomena [] yes [] no		113 litter [] yes [] no		114 diss. oxygen cont. [mg/l]		115 oxygen saturation [%]			
116 Sample replicates (v=current velocity) (optional)									
no	microhabitat	depth	v[m/s] (0.6xdepth)	pool/ riffle	no	microhabitat	depth	v[m/s] (0.6xdepth)	pool/ riffle
1					11				
2					12				
3					13				
4					14				
5					15				
6					16				
7					17				
8					18				
9					19				
10					20				
119 mean current velocity [m/s] (optional)				120 maximum current velocity [m/s] (optional)					
Chemistry (optional)									
121 alkalinity [CO ₃ ²⁻] [mmol/l]				126 nitrite [mg/l]					
122 total hardness [mmol/l]				127 nitrate [mg/l]					
123 chloride [mg/l]				128 ortho-phosphate [µg/l]					
124 biological oxygen demand [mg/l] BOD5				129 total-phosphate [µg/l]					
125 ammonium [mg/l]				130 chlorophyll [µg/l]					
132 E.coli (UFC/100ml)									
131 Comments (optional)									

Site name	date	sample no.	Investigator
non-diatom benthic algae			
<i>Samples taken from each habitat type</i>			
<input type="checkbox"/> Macrophyte/ -algae			
<input type="checkbox"/> Sediment (silt/sand)			
<input type="checkbox"/> Stone /man-made constructions			

Vegetations types	% coverage	remarks
liverworts/lichens		
emergent reed/sedges/herbs		
floatin-leaved (rooted)		
amphibious		
submerged broad-leaved		
submerged linear-leaved		
submerged fine-leaved		
filamentous algae		
total		

remarks

Site name	date	sample no.	Investigator
benthic diatoms			
<i>Samples taken from each habitat type</i>			
<input type="checkbox"/> Macrophyte/ -algae			
<input type="checkbox"/> Sediment (silt/sand)			
<input type="checkbox"/> Stone /man-made constructions			

Vegetations types	% coverage	remarks
liverworts/lichens		
emergent reed/sedges/herbs		
floatin-leaved (rooted)		
amphibious		
submerged broad-leaved		
submerged linear-leaved		
submerged fine-leaved		
filamentous algae		
total		

remarks