Site name	date	sample no.	Investigator		
Site related information (to	be recorded	ust 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 9 long [km]	g. (deg,min,s	ec) 10 latitude (de	g,min,sec) 11 altitude (m.a.s.l)		
12 ecoregion and ecoregion	no.	13 sub-ecoreg	13 sub-ecoregion (if applicable, optional)		
14 stream system (river flow	ving i. the sea	a) 15 catchment	area [km²]		
16 size typology		18 geology (de	18 geology (dominant type)		
18b geology class					
19 land and use in catchme	nt area (10%	steps) (optional)			
1 deciduous native forest	[]natu	ally unvegetated	[]]pasture		
Coniferous native forest	[] ] alpin	e heath	[]] clear-cutting		
I mixed native forest	[]stand	ding waters	[] urban sites (resid.)		
[ ] wetland (mire)	[ ] non-i	native forest	I urban sites (industrial)		
[ ] open grass-/bushland	[ ] maco	chie	[] others:		
[ ] reeds	[]crop	land			
20 mean annual discharge	24 hy	drologic stream ty	pe [] permant		
(MQ) [l/s] (optional)	[] per	iodic:_winter-dry_si	ummer-dry [] episodic		
25 prescence of lakes upstr	eam of samp	ling site (opt.) 2	7 slope of the valley floor [%]		
[]yes []no []artificial []r	reservoir				
29 valley form					
[] canyon	[] meander valley				
[] V-shaped valley	[] U-shaped valley				
[] through	[] plain floodplain				

## STAR site protocol

Site name	date	sample no.	Investigator	
Site related information (to k	be recorded j	ust once)		
26b cross section				
	a)	a) width	of floodplain [m]	
b)		b) flood	prone area width [m]	
c)	d) /	c) entre	nchment depth [m]	
ie ie		d) avera	age stream width [m]	
		e) mear	n depth water body [m]	
		f) maxir	num depth water body [m]	
30 land and use in floodplair	n 1km length	(10% steps)		
[ ] deciduous native forest	[]nətur	ally unvegetated		
[ ] coniferous native forest		e heath	[] clear-cutting	
I mixed native forest	[]stand	ling waters	[] urban sites (resid.)	
[ ] wetland (mire)	[]non-r	native forest	[] urban sites (industri	ial)
[] open grass-/bushland	[]macc	hie	[] others:	,
[] reeds	[]crop	land	Sum : 100%	

## STAR site protocol

Site name	date	samp	ole no.	Investigator
	en (te he needed i			
Site related informati	on (to be recorded j	ust or	ice)	
69 shading at zenit (f	oliage cover)	70	) average width of n	atural woody vegetation
[10% [120% [140% [	160% [180% [1100	% ric	ht left sh	
<b>71 channel form</b>	]00%[]00%[]100	/0 115		
[] meandering	SUU	[]	sinuate	
[] braided 🛁		[]	constrained (natural)	
[] anabranching 🛛 🛥	eon	[]	constrained (artificia	l)
73 presence of stand	ing water bodies in	the flo	podplain (number a	t sampling site):
side arms conne temporary side a	ected to the river/stre arms recently	am	side arms ab ago in the pr	bandoned years/decades rocess of silting up
disconnected in	om the river/stream		standing wat	ter bodies located in the
permanent side	arms recently		noodplain an	id led by tributaries
no standing wa	tor bodios procent			cifu)
71 debris dams (POM		t sam		Ciry)
[]none []few []se	everal []many	it sam	[] none []	few []several []man
76 shoreline covered	with woody rinaria	n vere	tation at sampling	site
left []0% []10% [	120% [130% [140%	1150	% [ ] 60% [ ] 70% [ ] 8	80% [190% [1100%
right []0% []10% [	] 20% [ ] 30% [ ] 40%	[] 50	% [] 60% [] 70% [] 8	80% [] 90% [] 100%
Human impacts on sa	ampling site		,	
77 dams (no and cum	n. height) 78 other	transv	verse structures	
	[] yes [] i	no		
79+80 bank and bed f	fixation		•	
		left sh	noreline bed	right shoreline
concrete without seam	S	[]	[]	[]
concrete with seams		[]	[]	[]
stones		[]	[]	[]
wood		[]	[]	[]
trees		[]	[]	[]
stone plastering with in	iterstices	[]	[]	[]
stone plastering without	it interstices	[]	[]	[]
other materials		[]	[]	[]
no bank fixation		[]	[]	[]
81 stagnation	82 torrent modification	ation	83 channelg. f. na	vig. 84 straightening
[] yes [] no	[] yes [] no		[] yes [] no	[] yes [] no
85 removal of CWD	86 cut-off meander	rs	87 scouring [m bel	I. surf.] 88 culverting
[] yes [] no	[] yes [] no		[]yes[]no[ r	n] []yes[]no
89 pulse releases	91 water abstractio	on		
[] yes [] no	[[] yes [] no	ot	04 non-native woo	dy riparian vegetation
[] ves [] no	itarai noodpiani veg	J <del>.</del> .	[] ves [] no	ay npanan vegetation
Pollution at sampling site				
95 source poll. 96	non-source poll.	97 se	wage overflows	98 eutrophication
[] yes [] no []	yes [] no	[]ves	s[]no	[] yes [] no
99 acidification 10	0 liming	101 n	nining	102 toxic substances
[] yes [] no []	yes [] no	[] yes	s [ ] no	[] yes [] no

Sample related information, to be recorded at each sampling date (copy if necessary) 103 MINERAL MICROHABITATS (% steps, indicate microhabitats .5% with :X) indicate artificial microhabitats .5% with :X) indicate artificial microhabitats with :X' (technolithal) (% steps, indicate microhabitats .5% with :X) indicate artificial microhabitats with :X' (technolithal) (% steps, indicate microhabitats .5% with :X) indicate artificial microhabitats .5% with :X) indicate mic	Site name	date	sample no.		Investigator		
Sample related information, to be recorded at each sampling date (copy if necessary)         103 MINERAL MICOHABITATS (% stops, indicate microbabitats sd%, with %)       (* of coverage)       * unmber of sampling units adiocation according 0         (% stops, indicate microbabitats sd%, with %)       * of coverage)       * of coverage)       * of coverage)       * of coverage)         hygropetric sites       and margin zone       * of coverage)       * of coverage)       * of coverage)         hygropetric sites       and margin zone       * of coverage)       * of coverage)       * of coverage)         hygropetric sites       and margin zone       * of coverage)       * of coverage)       * of coverage)         hygropetric sites       and margin zone       * of coverage)       * of coverage)       * of coverage)         hygropetric sites       and margin zone       * of coverage)       * of coverage)       * of coverage)         hygropetric sites       and margin zone       * of coverage)       * of coverage)       * of coverage)       * of coverage)         hygropetric sites       and margin zone       * of coverage)       *							
103 MINERAL MICROHABITATS (6% stops, indicate microhabitats <6% with X) indicate antificial x) inditate antificial x) indicate antificial x) indicate a	Sample related information,	to be record	ed at each sa	ampling date	(сору	if necessary)	
(\$% steps, indicate microhabitats <5% with X)	<b>103 MINERAL MICROHABIT</b>	ATS	% of coverage	% of coverage	numbe	r of sampling units	<u> </u>
indicate artificial microhabitats with 'X' ('technolithal') only mineral hygropetric sites water layer on solid substrates megalithal > 40 cm large cobbles, boulders and block, bedrock macroihthal > 20 cm 10 40 cm coarse blocks, head-sized cobbles (with variable percentages of cobbles, gravel and sand) microlithal > 2 cm to 40 cm coarse blocks, head-sized cobbles (with variable percentages of cobbles, gravel and sand) microlithal > 2 cm to 6 cm coarse blocks, head-sized cobbles (with variable percentages of cobbles, gravel and sand) microlithal > 2 cm to 6 cm coarse blocks, head-sized cobbles (with variable percentages of gravel and sand) microlithal > 2 cm to 6 cm coarse blocks, head-sized cobbles (with variable percentages of gravel and sand) microlithal > 2 cm to 6 cm coarse blocks, head-sized and and) microlithal > 2 cm to 6 cm coarse blocks, head-sized and and) microlithal > 2 cm to 6 cm coarse gravel - size of a piepen egg to childs fist (with variable percentages of modul mot fine gravel) akal > 2 mm to 2 cm fine to medum-sized gravel paramal / paramnopelal > 6 µm to 2 mm sand / sand with mud (incl. organic mud und sludge) argylial < 6 µm sit, leam. (eige (inorganic) 100 HOTIC MICROHABITATS (5% steps, indicate microhabitats ///////////////////////////////////	(5% steps, indicate microhabitats <5%	<u>% with 'X'</u> )	- 5% steps -	- 5% steps -		comments on units	ithe
only mineral microhabitats         and bold: microhabitats         total         to current conditions         5.2           hygropetric sites water layer on solid substrates         imicrohabitats         imicrohab	índicate artificial microhabitats with '>	('technolithal')		sum of mineral		allocation according	
microhabitats     nicrohabitats     interchabitats       hygropetric sites     Imicrohabitats     Imicrohabitats     Imicrohabitats       megalithal > 40 cm     Imicrohabitats     Imicrohabitats     Imicrohabitats       macroithtal > 20 cm to 40 cm     Imicrohabitats     Imicrohabitats     Imicrohabitats       coarse blocks, head-sized cobbles     Imicrohabitats     Imicrohabitats     Imicrohabitats       microhabitat > 6 cm to 20 cm     Imicrohabitats     Imicrohabitats     Imicrohabitats       microhabitat > 6 cm to 20 cm     Imicrohabitats     Imicrohabitats     Imicrohabitats       microhabitat > 2 cm to 6 cm     Imicrohabitats     Imicrohabitats     Imicrohabitats       akal > 2 mm to 2 cm     Imicrohabitats     Imicrohabitats     Imicrohabitats       sand vish mud (incl. organic mud und sludge)     Imicrohabitats     Imicrohabitats       arguilal < 6 µm			only mineral	and biotic		to current conditions	ਤੁ
hygropetric sites       Image (b)         water layer on solid substrates       Image (b)         megalithal > 40 cm       Image (b)         large cobbles, boulders and blocks, bedrock       Image (b)         macrolithal > 20 cm to 40 cm       Image (b)         coarse blocks, head-sized cobbles       Image (b)         (with variable percentages of gravel and sand)       Image (b)         microlithal > 2 cm to 6 cm       Image (b)         coarse blocks, head-sized cobbles       Image (b)         (with variable percentages of gravel and sand)       Image (b)         microlithal > 2 cm to 6 cm       Image (b)         coarse blocks, head-sized cobbles       Image (b)         (with variable percentages of medium to fine gravel)       Image (b)         gakal > 2 mm to 2 cm       Image (b)         sand / sand with mud (incl.organic mud und sludge)       Image (b)         argylial < 6 µm			microhabitats	microhabitats	total	and margin zone	te.
water layer on solid substrates  megalithal > 40 cm large cobbles, boulders and blocks, bedrock  macrolithal > 20 cm to 40 cm coarse blocks, head-sized cobbles (with variable percentages of cobbles, gravel and sand)  mesolithal > 6 cm to 20 cm (ist to hand-sized cobbles (with variable percentages of gravel and sand)  microlithal > 2 cm to 6 cm coarse gravel - size of a pigeo egg to child's fist (with variable percentages of medium to fine gravel)  akal > 2 mm to 2 cm (ine to medium-sized gravel  psammal / psammopelal > 6 µm to 2 mm sand / sam with mud (ncl. organic mud und sludge)  argylial < 6 µm siti, loam, clay (inorganic)  104 BIOTIC MICROHABITATS (5% steps, indicate microhabitats <5% with 'X') microhabitats micro-algae diatoms and other algae submerged macrophytes macrophytes, including moss and Characeae emergent macrophytes ag. Typha, Carex, Phragmites  iving parts of terrestrial plants fine tost, floating riparian vegatation xytal (wood) tree trunks, dead wood, branches, roots CPOM mater, e.g. deposits of coarse particulate organic FPOM deposits of fine particulate organic matter deposits of fine particulate organic sum = variable 100% 20	hygropetric sites						
megainnal > 40 cm         iarge cobles, boulders and blocks, bedrock         macrolithal > 20 cm to 40 cm         coarse blocks, head-sized cobbles         (with variable preventages of cobbles, gravel and sand)         mesolithal > 6 cm to 20 cm         fist to hand-sized cobbles         (with variable preventages of avel and sand)         microlithal > 2 cm to 6 cm         coarse gravel - size of a pigeon egg to child's fist         (with variable preventages of gravel and sand)         microlithal > 2 cm to 6 cm         coarse gravel - size of a pigeon egg to child's fist         (with variable preventages of gravel         sand with mud (incl. organic mud und sludge)         argylal < 6 µm	water layer on solid substrates						
arage cobbles, boulders and blocks, bedrock macrolithal > 20 cm to 40 cm coarse blocks, head-sized cobbles (with variable percentages of cobbles, gravel and sand) microlithal > 6 cm to 20 cm fist to hand-sized cobbles (with variable percentages of gravel and sand) 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) akal > 2 mm to 2 cm fine to medium-sized gravel gravel and sand und sludge) argyllal < 6 µm sit, toam, clay (inorganic) U04 BIOTIC MICROHABITATS (5% steps, inclicate microhabitats <5% with 'X') microhabitats fine to algae filamentous algae, algal tufts micro-algae filamentous algae, algal tufts micro-algae filamentous algae, algal tufts micro-algae filamentous fine restrial plants fine toos, fine to file gravel) submerged macrophytes a.g. Typha, Carex, Phragmites Val (wood) tree trunks, dead wood, branches, roots CPOM deposits of fice particulate organic matter edges submater, e.g., deposits of coarse particulate organic sum = variable u04 variable percentage shells, snail shells sewage bacteria, fung i and sangopel (e.g. Sphaerotika, Leptomika), subpur bacteria (e.g. Beggiatoa, Thiorhix), sludge u150 u u160 u	megalithal > 40 cm						
macronithal > 20 cm to 40 cm (with variable percentages of cobbles, gravel and sand) mesolithal > 6 cm to 20 cm firs to hand-sized cobbles (with variable percentages of gravel and sand) microlithal > 2 cm to 6 cm coarse gravel - size of a pigeon egg to child's fist (with variable percentages of gravel and sand) 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) akal > 2 mm to 2 cm fine to medium-sized gravel psammal / psammopelal > 6 µm to 2 mm sand / sand with mud (incl. organic mud und sludge) argyllal < 6 µm sit, loam, clay (inorganic) Sum = 100% 104 BIOTIC MICROHABITATS (5% steps, indicate microhabitats <5% with 'X) micro-algae diatoms and other algae Submerged macrophytes macrophytes, including moss and Characeae emergent macrophytes e.g. Typha, Carex, Phragmites living parts of terrestrial plants fire roots, floating riparian vegetation Xylal (wood) tre truck, dead wood, branches, roots CPOM matter, e.g. deposits of coarse particulate organic FPOM matter, e.g. deposits of coarse particulate organic FPOM matter, e.g. deposits of coarse particulate organic Sum = variable Sum = variable Sum = variable Sum = variable Sum = variable	large cobbles, boulders and blocks, b	edrock					-
coarse blocks, head-sized cobbles gravel and sand) mesolithal > 6 cm to 20 cm fist to hand-sized cobbles (with variable percentages of gravel and sand) 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) akal > 2 cm to 2 cm fine to medium-sized gravel psammal / psammopelal > 6 µm to 2 mm sand / sand with mud (incl. organic mud und sludge) argyllal < 6 µm sitt, loam, clay (inorganic) Sum = 100% 104 BIOTIC MICROHABITATS micro-algae filamentous algae, algal tufts micro-algae filamentous algae, algal tufts filamentous algae, algal tufts file tufts file tufts file tufts file tufts file tufts file	macrolitnal > 20 cm to 40 cm	n					
(with variable percentages of cookies, gravel and sand)	coarse blocks, head-sized cobbles		D.				
Intersection of the 20 cm for the 20 cm for the construction of th	(with variable percentages of cobbles	s, gravel and sand	<i>(</i>				_
Inst to hand-sized coboles 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) akal > 2 cm to 2 cm fine to medium-sized gravel psammal / psammopelal > 6 µm to 2 mm sand / sand with mud (incl. organic mud und sludge) argyllal < 6 µm silt, Ioam, clay (inorganic) Sum = 100% 104 BIOTIC MICROHABITATS (5% steps, indicate microhabitats <5% with 'X') microhabitats micro-algae diatoms and other algae submerged macrophytes macrophytes, including moss and Characeae emergent macrophytes macrophytes, including noss and Characeae emergent macrophytes e.g. Typha, Carex, Phragmites Ilving 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 ine particulate organic matter deposits of ine particulate organic matter deposited within the splash zone area by wave motion and changing water levels, e.g. muses lebels, snail shells Sewage bacteria, -fungi and sapropel (e.g. Spheerofilis, Leptomitus), sulphur bacteria (e.g. Beggiatoa, Thiothy), sludge	mesolithal > 6 cm to 20 cm						
(with variable parternages of prover and sand)	fist to hand-sized cobbles	and cond)					
microlithal > 2 cm to 5 cm sad / sand with mud (incl. organic mud und sludge) argyllal < 6 µm silt, loam, clay (inorganic) 104 BIOTIC MICROHABITATS (5% steps, indicate microhabitats <5% with 'X') micro-algae diatoms and other algae audorgal a difference and the subset illamentous algae, algal tufts micro-algae diatoms and other algae submerged macrophytes macrophytes, including moss and Characeae emergent macrophytes e.g. Typha, Carex, Phragmites 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 deposited within the splash zone area by wave motion and changing water levels, e.g. musel shells, snall shells sewage bacteria, -fungi and sapropel (e.g. Spaerotius, Laptornius), subpur bacteria (e.g. Beggiatoa, Thiothrix), sludge sum = variable 100% 20		and sand)					
coarse gravel - size of a pigeon egg to child's list (with variable percentages of medium to fine gravel) akal > 2 mm to 2 cm fine to medium-sized gravel psammal / psammopelal > 6 µm to 2 mm sand / sand with mud (incl. organic mud und sludge) argyllal < 6 µm silt, loam, clay (inorganic) Sum = 104 BIOTIC MICROHABITATS (5% steps, indicate microhabitats <5% with 'X') macro-algae diatoms and other algae guard sand with macrophytes macrophytes, including moss and Characeae emergent macrophytes re. <i>Typha, Carex, 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. musel shells, snall shells sewage bacteria, -fungi and sapropel (e.g. Spaerotius, Laptornius), sulghur bacteria (e.g. Beggiatoa, Thiothrix), sludge sum = variable variable 100% 20	microlitnal > 2 cm to 6 cm						
(with variable percentages of medium to the graver)         fine to medium-sized gravel         psammal / psammopelal > 6 µm to 2 mm sand / sand with mud (incl. organic mud und sludge)         argyllal < 6 µm	coarse gravel - size of a pigeon egg t	o child's fist					
akai > 2 mini to 2 cm		i to line graver)					_
Inte to medulhisize gravel psammal / psammopelal > 6 µm to 2 mm sand / sand with mud (incl. organic mud und sludge) argyllal < 6 µm sitt, loam, clay (inorganic) U04 BIOTIC MICROHABITATS (5% steps, indicate microhabitats <5% with 'X') macro-algae filamentous algae, algal tufts micro-algae diatoms and other algae Submerged macrophytes macrophytes, including moss and Characeae emergent macrophytes e.g. Typha, Carex, Phragmites 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 decording deposited diving deposited diving deposit							
psatinitial / psatinitoperal > 0 µm do 2 µm         argyllal < 6 µm		Sum to 2 mm					
argylial < 6 μm	sand / sand with mud (incl. organic m	$5 \mu m$ to $2 mm$					
aigynal < 0 µm		iuu unu siuuge)					_
Sum =       100%         104 BIOTIC MICROHABITATS (5% steps, indicate microhabitats <5% with 'X')	silt loom cloy (inorganic)						
104 BIOTIC MICROHABITATS (5% steps, indicate microhabitats <5% with 'X')	Sitt, Ibarri, ciay (inorganic)		100%				_
104 BIOTIC MICROHABITATS (5% steps, indicate microhabitats <5% with 'X')		Sum =	100 /0				
(5% steps, indicate microhabitats <5% with 'X')	<b>104 BIOTIC MICROHABITAT</b>	S	only biotic	1			
macro-algae filamentous algae, algal tuftsImage: second s	(5% steps, indicate microhabitats	<u>s &lt;5% with 'X'</u> )	microhabitats				
filamentous algae, algal tufts       Image         micro-algae       Image         diatoms and other algae       Image         submerged macrophytes       Image         macrophytes, including moss and Characeae       Image         emergent macrophytes       Image         e.g. Typha, Carex, Phragmites       Image         living parts of terrestrial plants       Image         fine roots, floating riparian vegetation       Image         xylal (wood)       Image         tree trunks, dead wood, branches, roots       Image         CPOM       Image         matter, e.g. deposits of coarse particulate organic       Image         FPOM       Image         deposits of fine particulate organic matter       Image         debris       organic and inorganic matter deposited         within the splash zone area by wave motion and       Image         changing water levels, e.g. mussel shells, snail shells       Image         sewage bacteria, -fungi and sapropel       Image         (e.g. Sphaerotilus), sulphur bacteria       Image         (e.g. Begjatoa, Thiothrix), sulphur bacteria       Image         (e.g. Subaerotilus), Leptornitus), sulphur bacteria       Imagee         (e.g. Begjatoa, Thiothrix), suldge       Imagee	macro-algae						
micro-algae       Image: Submerged macrophytes         submerged macrophytes       Image: Submerged macrophytes         macrophytes, including moss and Characeae       Image: Submerged macrophytes         emergent macrophytes       Image: Submerged macrophytes         e.g. Typha, Carex, Phragmites       Image: Submerged macrophytes         living parts of terrestrial plants       Image: Submerged macrophytes         fine roots, floating riparian vegetation       Image: Submerged macrophytes         xylal (wood)       Image: Submerged macrophytes         tree trunks, dead wood, branches, roots       Image: Submerged macrophytes         CPOM       Image: Submerged macrophytes         matter, e.g. deposits of coarse particulate organic       Image: Submerged macrophytes         FPOM       Image: Submerged macrophytes       Image: Submerged macrophytes         debris       organic and inorganic matter       Image: Submerged macrophytes         debris       organic and submerged matter       Image: Submerged macrophytes         debris       organic and submerged macrophytes       Image: Submerged macrophytes         sewage bacteria, -fungi and sapropel       Image: Submerged macrophytes       Image: Submerged macrophytes         (e.g. Sphaerotilus, Leptomitus), sulphur bacteria       Image: Submerged macrophytes       Image: Submerged macrophytes	filamentous algae, algal tufts						
diatoms and other algaeImage: Submerged macrophytesImage: Submerged macrophytesmacrophytes, including moss and CharaceaeImage: Submerged macrophytesImage: Submerged macrophytesenergent macrophytesImage: Submerged macrophytesImage: Submerged macrophytese.g. Typha, Carex, PhragmitesImage: Submerged macrophytesImage: Submerged macrophytesliving parts of terrestrial plantsImage: Submerged macrophytesImage: Submerged macrophytesfine roots, floating riparian vegetationImage: Submerged macrophytesImage: Submerged macrophytesxylal (wood)Image: Submerged macrophytesImage: Submerged macrophytestree trunks, dead wood, branches, rootsImage: Submerged macrophytesImage: Submerged macrophytesCPOMImage: Submerged macrophytesImage: Submerged macrophytesImage: Submerged macrophytesdeposits of coarse particulate organicImage: Submerged matterImage: Submerged matterImage: Submerged matterdebrisorganic and inorganic matterImage: Submerged matterImage: Submerged matterImage: Submerged matterdebrisorganic and inorganic matter depositedImage: Submerged matterImage: Submerged matterImage: Submerged mattergeggiatoa, Thiothrix, sludgeImage: Submerged matterImage: Submerged matterImage: Submerged matterImage: Submerged mattergeggiatoa, Thiothrix), sludgeImage: Submerged matterImage: Submerged matterImage: Submerged matterImage: Submerged mattergeggiatoa, Thiothrix), sludgeImage: Submerged matterImage: Submerged matter	micro-algae						
submerged macrophytes macrophytes, including moss and CharaceaeImage: construct of the state	diatoms and other algae						
macrophytes, including moss and Characeae       Imacrophytes       Imacrophytes         energent macrophytes       Imacrophytes       Imacrophytes         e.g. Typha, Carex, Phragmites       Imacrophytes       Imacrophytes         living parts of terrestrial plants       Imacrophytes       Imacrophytes         fine roots, floating riparian vegetation       Imacrophytes       Imacrophytes         xylal (wood)       Imacrophytes       Imacrophytes         tree trunks, dead wood, branches, roots       Imacrophytes       Imacrophytes         CPOM       Imacrophytes       Imacrophytes         matter, e.g. deposits of coarse particulate organic       Imacrophytes       Imacrophytes         FPOM       Imacrophytes       Imacrophytes       Imacrophytes         debris       organic and inorganic matter       Imacrophytes       Imacrophytes         debris       organic and inorganic matter deposited       Imacrophytes       Imacrophytes         sewage bacteria, -fungi and sapropel       Imacrophytes       Imacrophytes       Imacrophytes         (e.g. Sphaerotilus, Leptomitus), sulphur bacteria       Imacrophytes       Imacrophytes       Imacrophytes         sum =       variable       100%       20       Imacrophytes       Imacrophytes	submerged macrophytes						
emergent macrophytes       Image: Supple Carex, Phragmites         e.g. Typha, Carex, Phragmites       Image: Supple Carex, Phragmites         living parts of terrestrial plants       Image: Supple Carex, Phragmites         fine roots, floating riparian vegetation       Image: Supple Carex, Phragmites         xylal (wood)       Image: Supple Carex, Phragmites       Image: Supple Carex, Phragmites         xylal (wood)       Image: Supple Carex, Phragmites       Image: Supple Carex, Phragmites         tree trunks, dead wood, branches, roots       Image: Supple Carex, Phragmites       Image: Supple Carex, Phragmites         CPOM       Image: Supple Carex, Phragmites       Image: Supple Carex, Phragmites       Image: Supple Carex, Phragmites         FPOM       Image: Supple Carex, Phragmites       Image: Supple Carex, Phragmites       Image: Supple Carex, Phragmites         debris       organic and inorganic matter       Image: Supple Carex, Phragmites       Image: Supple Carex, Phragmites         debris       organic and inorganic matter deposited       Image: Supple Carex, Phragmites       Image: Supple Carex, Phragmites       Image: Supple Carex, Phragmites         sewage bacteria, -fungi and sapropel       Image: Supple Carex, Phragmites       Image: Supple Carex, Phragmites       Image: Supple Carex, Phragmites         (e.g. Sphaerotilus, Leptomitus), sulphur bacteria       Image: Supple Carex       Image: Supple Carex	macrophytes, including moss and Ch	araceae					
e.g. Typha, Carex, Phragmites       Ising parts of terrestrial plants         fine roots, floating riparian vegetation       Ising parts of terrestrial plants         fine roots, floating riparian vegetation       Ising parts of terrestrial plants         xylal (wood)       Ising parts of terrestrial plants         tree trunks, dead wood, branches, roots       Ising parts of coarse particulate organic         CPOM       Ising particulate organic matter         deposits of fine particulate organic matter       Ising parts 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       Ising parterotilus, Leptomitus), sulphur bacteria         (e.g. Sphaerotilus, Leptomitus), sulphur bacteria       Ising parterotilus, Leptomitus), sulphur bacteria         (e.g. Beggiatoa, Thiothrix), sludge       Ising parts particulate	emergent macrophytes						
living parts of terrestrial plants       Image: sector of the sector of th	e.g. Typha, Carex, Phragmites						
fine roots, floating riparian vegetation       Image: state in the st	living parts of terrestrial pla	nts					
xylal (wood)       Image: Sphaerotilus, Leptomitus), sulphur bacteria       Image: Sum =       Variable       100%       20	fine roots, floating riparian vegetation						
tree trunks, dead wood, branches, roots       Image: CPOM       Image: CPOM         matter, e.g. deposits of coarse particulate organic       Image: CPOM       Image: CPOM         matter, e.g. deposits of coarse particulate organic       Image: CPOM       Image: CPOM         deposits of fine particulate organic matter       Image: CPOM       Image: CPOM         deposits of fine particulate organic matter       Image: CPOM       Image: CPOM         debris       organic and inorganic matter deposited       Image: CPOM       Image: CPOM         within the splash zone area by wave motion and       Image: CPOM       Image: CPOM       Image: CPOM         sewage bacteria, -fungi and sapropel       Image: CPOM       Image: CPOM       Image: CPOM       Image: CPOM         (e.g. Sphaerotilus, Leptomitus), sulphur bacteria       Image: CPOM       Image: CPOM       Image: CPOM       Image: CPOM         Sum =       Variable       100%       20       Image: CPOM       Image: CPOM       Image: CPOM	xylal (wood)						
CPOM       matter, e.g. deposits of coarse particulate organic         FPOM       Image: Comparison of the particulate organic matter         deposits of fine particulate organic matter       Image: Comparison of the particulate organic matter         debris       organic and inorganic matter deposited       Image: Comparison of the particulate organic matter deposited         within the splash zone area by wave motion and changing water levels, e.g. mussel shells, snail shells       Image: Comparison of the particulate organic matter         sewage bacteria, -fungi and sapropel (e.g. Sphaerotilus, Leptomitus), sulphur bacteria (e.g. Beggiatoa, Thiothrix), sludge       Image: Comparison of the particulate organic matter         sum =       variable       100%       20	tree trunks, dead wood, branches, ro	ots					
Imatter, e.g. deposits of coarse particulate organic       Imatter, e.g. deposits of coarse particulate organic         FPOM       deposits of fine particulate organic matter       Imatter, e.g. deposits of fine particulate organic matter         debris       organic and inorganic matter deposited       Imatter, e.g. deposits of coarse particulate organic         debris       organic and inorganic matter deposited       Imatter, e.g. deposited       Imatter, e.g. deposited         within the splash zone area by wave motion and changing water levels, e.g. mussel shells, snail shells       Imatter, e.g. mussel shells, snail shells       Imatter, e.g. deposited         sewage bacteria, -fungi and sapropel       Imatter, e.g. Beggiatoa, Thiothrix), sludge       Imatter, e.g. and the splash coarse of the	CPOM	ulata argania					
deposits of fine particulate organic matter       Image: Constraint of the particulate organic matter         debris       organic and inorganic matter deposited         within the splash zone area by wave motion and       Image: Constraint of the particulate organic matter         changing water levels, e.g. mussel shells, snail shells       Image: Constraint of the particulate organic matter         sewage bacteria, -fungi and sapropel       Image: Constraint of the particulate organic matter         (e.g. Sphaerotilus, Leptomitus), sulphur bacteria       Image: Constraint of the particulate organic matter         (e.g. Beggiatoa, Thiothrix), sludge       Image: Constraint of the particulate organic matter         Sum =       variable       100%       20		ulate organic					
debris       organic and inorganic 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. Sphaerotilus, Leptomitus), sulphur bacteria          (e.g. Beggiatoa, Thiothrix), sludge          Sum =       variable       100%	deposits of fine particulate organic m	atter					
within the splash zone area by wave motion and changing water levels, e.g. mussel shells, snail shells       Image: Comparison of the splash zone area by wave motion and changing water levels, e.g. mussel shells, snail shells         sewage bacteria, -fungi and sapropel (e.g. Sphaerotilus, Leptomitus), sulphur bacteria (e.g. Beggiatoa, Thiothrix), sludge       Image: Comparison of the splash zone area by wave motion and changing water levels, e.g. mussel shells, snail shells         sewage bacteria, -fungi and sapropel (e.g. Beggiatoa, Thiothrix), sludge       Image: Comparison of the splash zone area by wave motion and changing water levels, e.g. mussel shells, snail shells         sewage bacteria, -fungi and sapropel (e.g. Beggiatoa, Thiothrix), sludge       Image: Comparison of the splash zone area by wave motion and changing water levels, e.g. mussel shells, snail shells	debris organic and inorganic m	atter deposited					
changing water levels, e.g. mussel shells, snail shells         sewage bacteria, -fungi and sapropel         (e.g. Sphaerotilus, Leptomitus), sulphur bacteria         (e.g. Beggiatoa, Thiothrix), sludge         Sum =       variable	within the splash zone area by wave	motion and					
sewage bacteria, -fungi and sapropel       (e.g. Sphaerotilus, Leptomitus), sulphur bacteria       (e.g. Beggiatoa, Thiothrix), sludge       Sum =     variable       100%	changing water levels a mussel of	notion and hells shail shalls					
(e.g. Sphaerotilus, Leptomitus), sulphur bacteria (e.g. Beggiatoa, Thiothrix), sludge Sum = variable 100% 20	sewage bacteria -fungi and	sanronel					
(e.g. Beggiatoa, Thiothrix), sludge sum = variable 100% 20	(e.g. Sphaerotilus Leptomitus) sulp	our bacteria					
sum = variable 100% 20	(e.g. Beggiatoa Thiothrix) sludge						
	(	sum =	variable	100%	20		1

Site name	date	sa	mple	no.		Inv	vestiga	ator	
Sample related information	(to be rec	orded	at ea	ch sam	pling date	)			
105a relation lentic/lotic zones				charge	(estimated	, 1) (r	/s]		
[share of lentic zones %]				Ū	•	<i>.</i>	-		
107 colour []no colour	108 o	dours	s 109 foam 110 pH 111 conductivity					ty	
[ ]blue [ ]arey [ ]red [ ]areen [ ]bro	wn []ves	[]no	[]ve	s[]no	•		[µS/cr	n]	-
112 reduction phenomena	113 li	tter	114	diss. o	vgen con	t.	115 o	xygen sat	uration
[] ves [] no	[]ves	[]no	[ma/	1]			[%]	,0	
116 Sample replicates (v=cu	urrent velo	ocitv) (	optio	nal)					
nolmicrohabitat depth	v[m/s]	bool/	Ín	omicro	ohabitat	de	oth	v[m/s]	pool/
•	(0.6xdepth)	' riffle						(0.6xdepth)	' riffle
1			1	1					
2			1	2					
3			1	3					
4			1	4					
5			1	5					
6			1	6					
7			1	7					
8			1	8					
9			1	9					
10			2	0					
9       10         10       119 mean current velocity [m/s] (optional)         Chemistry (optional)         121 alkalinity [CO <sub>3</sub> <sup>2</sup> ] [mmol/l]         122 total hardness [mmol/l]         123 chloride [mg/l]         124 biological oxygen demand [mg/l]         BOD5         125 ammonuim [mg/l]         132 E.coli (UFC/100ml)         131 Comments (optional)				optional 26 nitri 27 nitra 28 orth 29 tota 30 chlo	) te [mg/l] ite [mg/l] o-phospha i-phospha	ate [ te []			

Site name	date	sample no.	Investigator		
non-diatom bethic algae					
Samples taken from each ha	abitat type				
[] Macrophyte/ -algae					
[] Sediment (silt/sand)					
[] Stone /man-made constructions					

Vegetations types	% coverage	remarks
liverworths/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		
bethic diatoms	•	•	•		
Samples taken from each ha	abitat type				
[] Macrophyte/ -algae					
[] Sediment (silt/sand)					
[] Stone /man-made constructions					

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

remarks