CONSORZIO DELL' OGLIO
- BRESCIA –

Progetto di sperimentazione dei rilasci per il deflusso minimo vitale nel fiume Oglio sub lacuale

Allegati alla Relazione annuale 2010 – 2011

ALLEGATO D

MONITORAGGIO BIOLOGICO

D.1 TABELLE DEI RISULTATI DEL MONITORAGGIO DEI MACROINVERTEBRATI

D.2 TABELLE DEI RISULTATI DEL MONITORAGGIO DELLE MACROFITE

D.3 TABELLE DEI RISULTATI DEL MONITORAGGIO DELLE DIATOMEE

ALLEGATO II

AZIONE 3: MONITORAGGIO BIOLOGICO

MACROINVERTEBRATI –ELENCO DEI TAXA

Tabella I. Elenco faunistico del campionamento estivo (n° 5/10): tratti guadabili.

PROGETTO DMV FIUME OGLIO
CAMPIONAMENTI BIOLOGICI: ANALISI MACROINVERTEBRATI
Tratti Guadabili - SURBER - Multi habitat proporzionale
IdroEcoregione (HER): 6 Pianura Padana: 0,5 m²
IdroEcoregione (HER): 2 Prealpi: 1 m² (staz 3 e 8)

ESTATE 2010

ELENCO TAXA		3		18		24		31	
		N° Ind.	TOT	N° Ind.	TOT	N° Ind.	TOT	N° Ind.	TOT
Plecotteri			0		0		0		0
	Leuctra	0		0		0		0	
Efemerotteri			206		166		396		369
	Baetidae	0		0		0		0	
	Baetis	181		62		321		303	
	Caenis	25		104		50		39	
	Ecdyonurus	0		0		0		0	
	Ephemera	0		0		0		0	
	Ephemerella	0		0		25		24	
	Heptagenia	0		0		0		0	
	Heptagenidae	0		0		0		3	
	Pseudocentroptilum	0		0		0		0	
Tricotteri			94		30		80		510
	Ecnomidae	0		0		11		8	
	Goeridae	0		0		0		0	
	Hydropsychidae	72		28		69		496	
	Hydroptilidae	0		0		0		0	
	Lepidostomatidae	0		0		0		2	
	Leptoceridae	0		0		0		4	
	Polycentropodidae	0		0		0		0	
	Psychomyidae	15		2		0		0	
	Rhyacophilidae	7		0		0		0	
	Tricotteri n.i.	0		0		0		0	
Coleotteri			0		0		5		23
	Elmidae	0		0		5		21	
	Stenelmis sp.	0		0		0		2	
	Elminthidae	0		0		0		0	
Eterotteri			0		0		0		0
	Aphelocheirus	0		0		0		0	
Ditteri			277		155		194		509
	Athericidae	0		0		0		0	
	Chironomidae	95		121		194		485	
	Empididae	0		1		0		0	
	Limonidae	0		0		0		0	
	Psychodidae	0		0		0		0	
	Simulidae	182		27		0		24	
	Tabanidae	0		6		0		0	
	Tipulidae	0		0		0		0	
Gasteropodi			0		9		8		0
	Ancylus	0		0		0		0	
	Bithynia	0		0		0		0	
	Gyraulus	0		0		0		0	
	Hydrobioidea	0		0		0		0	
	Lymnaea	0		0		0		0	
	Physa	0		5		4		0	
	Planorbidae	0		0		0		0	
Sphaeriidae	Sphaerium sp.	0		0		2		0	
	Theodoxus	0		4		2		0	
	Valvata	0		0		0		0	
Bivalvi			4		2		3		2
	Corbicula	0		0		0		0	
	Dreissena polymorpha	4		2		3		2	
	Pisidium	0		0		0		0	
Crostacei			0		12		7		96
	Asellidae	0		12		7		0	
	Gammaridae	0		0		0		96	
Oligocheti			4		0		4		11
	Naididae	0		0		51		0	
	Lumbricidae	0		0		0		11	
Irudinei			2		0		0		7
	Dina	0		0		0		7	
	Erpobdella	2		0		0		0	
	Glossiphoniidae	0		0		0		0	
Odonati			0		0		0		0
	Calopteryx	0		0		0		0	
	Onychogomphus	0		0		0		0	
	Zigotteri n.i.	0		0		0		0	
Tricladi			6		6		6		6
	Dugesia	0		0		0		0	
Tricladi			0		8		0		0
	Dugesia sp.	0		0		0		0	
	Planaria torva	0		8		0		0	
	Dendrocoelum sp.	0		0		0		0	
Idracaro		0		4		0		0	
Nematodi		0		0		0		0	
Altro/note	microcrostacei	no		no		no		no	
TOTALE Individui		583		386		744		1527	

Consorzio dell' Oglio di Brescia - Proprietà Riservata
E' vietato divulgare o utilizzare i dati della Tabella per studi, indagini o pubblicazioni senz apreventiva autorizzazione

Tabella II. Elenco faunistico del campionamento estivo (n° 5/10): tratti non guadabili.

PROGETTO DMV FIUME OGLIO
CAMPIONAMENTI BIOLOGICI: ANALISI MACROINVERTEBRATI
Tratti NON Guadabili
Metodo Substrati Artificiale (S.A. di faesite) — **ESTATE 2010**
Unità di Campionamento: 5 S.A. (0,5 m²)
IdroEcoregione (HER): 6 Pianura Padana

ELENCO TAXA		1A		1 B		6A		6 B		7A		7 B		15 A		15 B		36		44		53 A		59 A		59 B		77 B		80	
		N° Ind.	TOT	N° Ind.	TOT	N° Ind.	TOT	N° Ind.	TOT					N° Ind.	TOT	N° Ind.	TOT	N° Ind.	TOT	N° Ind.	TOT	N° Ind.	TOT	N° Ind.	TOT	N° Ind.	TOT	N° Ind.	TOT	N° Ind.	TOT
			0		2		20		42	0		0			3		1		171		210		90		15		106		36		156
	Baetis	0		0		0		0		0		0		0		0		144		42		57		6		74		5		104	
	Caenis	0		2		20		42		0		0		3		1		7		161		24		7		15		6		17	
	Ecdyonurus	0		0		0		0		0		0		0		0		2		0		0		0		0		0		0	
	Ephemera	0		0		0		0		0		0		0		0		0		0		0		0		0		0		0	
	Ephemerella	0		0		0		0		0		0		0		0		18		5		0		0		0		0		0	
	Hydroptilidae	0		0		0		0		0		0		0		0		0		0		0		0		0		0		0	
	Heptagenia	0		0		0		0		0		0		0		0		0		2		9		2		17		25		35	
	Heptageniadae	0		0		0		0		0		0		0		0		0		0		0		0		0		0		0	
	Paraleptophlebia	0		0		0		0		0		0		0		0		0		0		0		0		0		0		0	
Tricotteri			2		8		65		30		3		4		54		20		148		53		60		13		71		142		568
	Hydropsychidae	0		0		6		2		0		0		0		1		145		9		60		13		71		136		568	
	Ecnomidae	0		3		15		8		1				5		3		0		0		0		0		0		0		0	
	Lepidostomatidae	0		0		0		0		0		0		0		0		3		10		0		0		0		0		0	
	Leptoceridae	2		5		44		17		2		4		49		14		0		8		0		0		0		5		0	
	Limnephilidae	0		0		0		0		0		0		0		1		0		0		0		0		0		1		0	
	Glossosomatidae	0		0		0		1		0		0		0		0		0		0		0		0		0		0		0	
	Polycentropodidae	0		0		0		1		0		0		0		0		0		0		0		0		0		0		0	
	Psychomyidae	0		0		0		0		0		0		0		0		0		0		0		0		0		0		0	
	Hydroptilidae	0		0		0		1		0		0		0		1		0		26		0		0		0		0		0	
	Tricotteri n.i.	0		0		0		0		0		0		0		0		0		0		0		0		0		0		0	
Eterotteri			1		4		0		0		0		0		0		0		0		0		0		0		0		0		0
	Aphelocheirus	1		4		0		0		0		0		0		0		0		0		0		0		0		0		0	
	Micronecta	0		0		0		0		0		0		0		0		0		0		0		0		0		0		0	
Coleotteri			3		3		3		0		0		1		3		4		7		10		11		0		3		1		12
	Dryopidae	0		0		0		0		0		1		0		0		0		0		0		0		0		0		0	
	Elminthidae	3		3		3		0		0		0		3		4		7		10		11		0		3		1		12	
	Gyrinidae	0		0		0		0		0		0		0		0		0		0		0		0		0		0		0	
Cnidari			39		23		340		354		44		51		79		94		0		0		0		0		0		0		0
	Hydra sp.	39		23		340		354		44		51		79		94		0		0		0		0		0		0		0	
Ditteri			14		183		101		122		21		10		34		67		321		672		96		62		370		41		418
	Chironomidae	14		181		100		121		21		10		34		67		318		659		95		62		335		29		402	
	Ceratopogonidae	0		2		0		1		0		0		0		0		0		2		0		0		0		0		0	
	Empididae	0		0		0		0		0		0		0		0		3		3		0		0		0		0		1	
	Limonidae	0		0		0		0		0		0		0		0		0		1		0		0		0		0		0	
	Psychodidae	0		0		0		0		0		0		0		0		0		0		0		0		0		0		0	
	Tabanidae	0		0		0		0		0		0		0		0		0		6		1		0		0		0		0	
	Tipulidae	0		0		0		0						0		0		0		0		0		0		0		0		0	
	Sciomyizidae	0		0		0		0		0		0		0		0		0		1		0		0		0		0		0	
	Simulidae	0		0		1		0		0		0		0		0		0		0		0		0		35		12		15	
Gasteropodi			59		74		18		46		75		26		39		45		2		3		0		0		0		0		0
	Ancylidae	0		0		0		0		0		0		0		0		0		0		0		0		0		0		0	
	Ancylus	0		0		0		0		0		0		0		0		0		0		0		0		0		0		0	
	Acroloxus	2		7		0		0		0		0		0		0		0		0		0		0		0		0		0	
	Bithynia	15		13		0		12		36		11		5		2		0		0		0		0		0		0		0	
	Gyraulus	0		0		0		0		0		0		0		0		0		0		0		0		0		0		0	
	Lymnaea	0		1		0		0		0		1		0		0		0		0		0		0		0		0		0	
	Physa	3		19		16		20		32		14		32		42		2		0		0		0		0		0		0	
	Sphaerium sp.	0		0		0		0		0		0		0		0		0		1		0		0		0		0		0	
	Viviparus	39		30		0		0		0		0		0		0		0		0		0		0		0		0		0	
	Valvata	0		4		2		14		7		0		2		1		0		2		0		0		0		0		0	
Bivalvi			27		52		8		13		2		0		6		24		0		6		0		0		0		0		0
	Corbicula	0		0		0		0		0		0		0		5		0		6		0		0		0		0		0	
	Dreissena polymor	27		52		8		13		2		0		6		19		0		0		0		0		0		0		0	
	Unionidae	0		0		0		0		0		0		0		0		0		0		0		0		0		0		0	
Crostacei			10		18		1		2						0		0		66		37		13		9		71		64		69
	Asellidae	7		16		19		26		4		1		29		37		0		0		0		0		0		0		0	
	Cambaridae	3		1		1		0		0		0		0		0		0		0		0		0		0		0		0	
	Gammaridae	0		1		10		4		0		0		3		6		66		354		0		23		30		528		69	
	Palaemonetes	0		0		0		0		0		0		0		0		0		0		0		0		0		0		0	
Oligocheti			40		60		190		155						48		93		0		5		51		400		58		0		20
	Naididae	38		60		183		153		231		26		46		78		0		0		47		365		58		0		18	
	Enchytraeidae	0		0		0		0		0		0		0		0		0		0		0		0		0		0		0	
	Lumbricidae	0		0		0		0		0		0		0		3		0		4		0		0		0		0		0	
	Lumbriculidae	1		0		6		2		24		0		2		11		0		0		4		4		0		0		2	
	Tubificidae	1		0		1		0		69		0		0		1		0		1		0		31		0		0		0	
Irudinei			0		0		0		0						1		0		0		0		1		1		0		0		0
	Glossiphonia	0		0		0		0		0		0		0		0		0		0		0		0		0		0		0	
	Helobdella sp.	0		0		0		10		1		0		0		0		0		0		0		0		0		0		0	
	Erpobdella	2		0		0		0		0		3		1		0		0		0		0		0		0		0		0	
	Piscicola	0		0		0		0		0		0		0		0		0		0		0		0		0		0		0	
Odonati			1		0		6		16		7		0		6		22		0		9		2		0		0		2		0
	Aeschna	0		0		0		0		0		0		0		0		0		0		0		0		0		0		0	
	Calopteryx	0		0		0		0		0		0		0		0		0		1		0		0		0		2		0	
	Coenagrionidae	1				6		9		4				6		22		0		0		0		0		0		0		0	
	Coenagrion	0		0		0		0		0		0		0		0		0		0		0		0		0		0		0	
	Gomphidae	0		0		0		0		0		0		0		0		0		8		2		0		0		0		0	
	Gomphus	0		0		0		0		0		0		0		0		0		0		0		0		0		0		0	
	Ischnura	0		0		0		0		0		0		0		0		0		0		0		0		0		0		0	
	Ladona fulva	0		0		0		4		0		0		0		0		0		0		0		0		0		0		0	
	Onychogomphus	0		0		0		0		0		0		0		0		0		0		0		0		0		0		0	
	Platycnemis	0		0		0		3		0		0		0		0		0		0		0		0		0		0		0	
	Somatochlora sp.	0		0		0		0		3		0		0		0		0		0		0		0		0		0		0	
	Zigottero n.i.	0		0		0		0		0		0		0		0		0		0		0		0		0		0		0	
Tricladi			0		0		0		0		0		0		0		0		0		0		0		0		0		0		0
	Dugesia	61		0		0		180		225		24		0		0		0		1		0		0		0		0		0	
	Planaria torva	0		156		133		0		0		0		1248		1326		0		6		0		0		0		7		0	
	Dendrocoelum sp.	0		0		0		0		0		0		1		0		0		0		0		0		0		0		0	
Nematodi			0		0		0		0		11		0		0		2		0		0		0		0		0		0		0
Idracaro			0		7		28		2		0		0		7		8		0		46		0		0		0		0		0
Lepidotteri			0		0		0		0						0		0		0		0		0		0		0		0		0
Altro/note	microcrostacei	no		no		no		no		no		no		no		no		no		no		no		no		no		no		no	
TOTALE Individui		259		583		914		998		706		146		1554		1739		715		1329		310		513		638		757		1243	

Consorzio dell' Oglio di Brescia - Proprietà Riservata
E' vietato divulgare o utilizzare i dati della Tabella per studi, indagini o pubblicazioni senz apreventiva autorizzazione

Tabella III. Elenco faunistico del campionamento autunnale (n° 6/10): tratti non guadabili.

PROGETTO DMV FIUME OGLIO
CAMPIONAMENTI BIOLOGICI: ANALISI MACROINVERTEBRATI
Tratti NON Guadabili
Metodo Substrati Artificiale (S.A. di faesite)
Unità di Campionamento: 5 S.A. (0,5 m²)
IdroEcoregione (HER): 6 Pianura Padana

AUTUNNO 2010

ELENCO TAXA		1A		1 B		6A		6 B		7A		7 B		15 A		15 B		36		44A		44B		53 A		53 B		59 A		68 A		68 B		77 A		77 B		80A		80B	
		N° Ind.	TOT	N° Ind.	TOT	N° Ind.	TOT	N° Ind.	TOT	N° Ind.	TOT	N° Ind.	TOT	N° Ind.	TOT	N° Ind.	TOT	N° Ind.	TOT	N° Ind.	TOT	N° Ind.	TOT	N° Ind.	TOT	N° Ind.	TOT	N° Ind.	TOT	N° Ind.	TOT	N° Ind.	TOT	N° Ind.	TOT	N° Ind.	TOT	N° Ind.	TOT
Plecotteri			0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		1		1
Leuctridae	Leuctra sp.	0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0	
Taeniopterygidae	Brachyptera sp.	0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		1		1	
Efemerotteri			0		3		2		0		0		2		0		0		0		46		212		158		149		13		181		136		149		31		21		145
	Baetis	0		0		0		0		0		0		0		0		0		34		123		10		36		5		46		60		97		18		17		96	
	Centroptilum	0		0		0		0		0		0		0		0		0		0		0		0		0		1		0		0		0		0		0		0	
	Caenis	0		3		2		0		0		2		0		0		0		2		11		59		52		4		30		19		13		5		0		15	
	Ecdyonurus	0		0		0		0		0		0		0		0		0		0		0		3		11		3		0		4		39		1		0		6	
	Ephemera	0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0	
	Ephemerella	0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0	
	Serratella ignita	0		0		0		0		0		0		0		0		0		0		0		1		0		0		0		1		0		1		0		0	
	Hydroptilidae	0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0	
	Heptagenia	0		0		0		0		0		0		0		0		0		10		78		84		50		0		102		52		0		6		4		28	
	Heptageniadae	0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0	
	Potamanthus	0		0		0		0		0		0		0		0		0		0		0		1		0		0		3		0		0		0		0		0	
	Paraleptophlebia	0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0	
Tricotteri			1		1		13		8		9		4		3		0		12		161		125		152		116		9		138		116		82		14		42		105
	Hydropsychidae	0		0		11		8		9		4		3		0		12		161		125		144		106		8		136		114		80		14		42		104	
	Ecnomidae	0		1		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0	
	Lepidostomatidae	0		0		0		0		0		0		0		0		0		0		0		0		1		0		0		0		0		0		0		0	
	Leptoceridae	1		0		0		0		0		0		0		0		0		0		0		7		9		1		2		2		2		0		0		0	
	Limnephilidae	0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0	
	Glossosomatidae	0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0	
	Polycentropodidae	0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0	
	Psychomyidae	0		0		2		0		0		0		0		0		0		0		0		1		0		0		0		0		0		0		0		0	
	Rhyacophilidae	0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		1	
	Hydroptilidae	0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0	
	Tricotteri n.i.	0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0	
Eterotteri			0		0		0		0		0		0		0		0		0		0		0		0		2		1		1		0		0		0		0		0
	Aphelocheirus	0		0		0		0		0		0		0		0		0		0		0		0		2		1		1		0		0		0		0		0	
	Micronecta	0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0	
Coleotteri			0		2		0		0		0		0		0		0		0		3		3		8		4		0		3		2		0		0		0		0
	Dryopidae	0		0		0		0		0		0		0		0		0		0		0		0		1		0		0		0		0		0		0		0	
	Elminthidae	0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0	
	Elmidae	0		2		0		0		0		0		0		0		0		0		3		8		2		0		3		2		0		0		0		0	
	Gyrinidae	0		0		0		0		0		0		0		0		0		3		0		0		1		0		0		0		0		0		0		0	
Cnidari			0		0		0		0		0		0		122		0		0		0		0		0		0		0		0		0		0		0		0		0
	Hydra sp.	0		0		0		0		0		0		122		0		0		0		0		0		0		0		0		0		0		0		0		0	
Ditteri			40		46		7		23		78		8		0		0		4		88		88		377		392		122		420		318		335		226		308		734
	Dolichopodidae	0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		1		0		0	
	Chironomidae	35		46		7		21		78		8		0		0		0		46		46		362		374		119		377		310		308		218		226		620	
	Ceratopogonidae	0		0		0		0		0		0		0		0		0		0		0		0		1		1		2		0		0		3		0		0	
	Empididae	0		0		0		0		0		0		0		0		1		0		1		3		0		0		0		0		0		1		0		0	
	Limonidae	0		0		0		0		0		0		0		0		0		0		0		3		0		0		0		0		0		0		0		0	
	Psychodidae	5		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0	
	Tabanidae	0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0	
	Tipulidae	0		0		0		2		0		0		0		0		3		0		0		0		0		0		0		0		0		0		0		0	
	Sciomyizidae	0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		1		0		0		0		0	
	Simulidae	0		0		0		0		0		0		0		0		0		42		41		9		17		2		41		7		27		3		82		114	
Gasteropodi			11		16		5		32		20		8		2		7		4		0		0		4		0		3		8		6		0		1		0		0
	Ancylidae	0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0	
	Ancylus	0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0	
	Acroloxus	0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0	
	Bithynia	0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0	
	Planorbidae	0		0		0		0		0		0		0		0		0		0		0		1		0		0		1		0		0		0		0		0	
	Lymnaea	1		2		3		13		11		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0	
	Physa	0		9		2		19		9		8		2		7		4		0		0		3		0		3		7		5		0		1		0		0	
	Neritidae	0		1		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0	
	Viviparus	0		4		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0	
	Valvata	10		0		0		0		0		0		0		0		0		0		0		0		0		0		0		1		0		0		0		0	
Bivalvi			0		0		2		8		0		0		3		0		0		0		0		1		0		0		4		3		0		0		0		0
	Corbicula	0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0	
	Dreissena polymorp	0		0		2		6		0		0		3		0		0		0		0		1		0		0		0		0		0		0		0		0	
	Pisidium sp.	0		0		0		0		0		0		0		0		0		0		0		0		0		0		4		0		0		0		0		0	
	Sphaerium sp.	0		0		0		2		0		0		0		0		0		0		0		0		0		0		0		3		0		0		0		0	
	Unionidae	0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0	
Crostacei			16		14		32		20		15		11		10		20		5		128		23		195		322		44		410		420		878		344		10		22
	Asellidae	11		8		23		9		7		0		6		15		0		0		0		0		8		0		1		1		0		0		0		0	
	Cambaridae	0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0	
	Gammaridae	5		6		9		11		8		11		4		5		5		128		23		195		314		44		409		419		878		344		10		22	
	Palaemonetes	0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0	
Oligocheti			586		0		16		27		67		41		55		0		0		0		0		160		726		240		481		722		247		612		103		312
	Naididae	584		0		16		27		67		41		51		0		0		0		0		145		699		214		456		707		210		605		103		311	
	Enchytraeidae	0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0	
	Lumbricidae	0		0		0		0		0		0		0		0		0		0		0		2		2		3		2		4		7		1		0		0	
	Lumbriculidae	2		0		0		0		0		0		4		0		0		0		0		12		21		19		20		9		30		6		0		1	
	Tubificidae	0		0		0		0		0		0		0		0		0		0		0		1		4		4		3		2		0		0		0		0	
Irudinei			0		3		1		2		0		1		2		0		0		0		0		1		0		0		2		1		0		0		0		0
	Glossiphonia	0		0		0		0		0		0		0		0		0		0		0		0		0		0		2		0		0		0		0		0	
	Helobdella sp.	0		0		0		2		0		0		0		0		0		0		0		0		0		0		0		1		0		0		0		0	
	Erpobdella	0		3		0		0		0		1		0		0		0		0		0		1		0		0		0		0		0		0		0		0	
	Dina	0		0		1		0		0		0		1		0		0		0		0		0		0		0		0		0		0		0		0		0	
	Piscicola	0		0		0		0		0		0		1		0		0		0		0		0		0		0		0		0		0		0		0		0	
Odonati			1		0		0		3		0		0		0		1		4		2		0		4		4		0		5		9		0		6		0		0
	Aeshnidae Anax	0		0		0		0		0		0		0		1		0		0		0		0		0		0		0		0		0		0		0		0	
	Aeschna	0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0	
Calopterigidae	*Calopteryx*	0		0		0		0		0		0		0		0		0		2		0		2		1		0		2		9		0		5		0		0	
	Coenagrionidae	0		0		0		0		0		0		0		0		0		0		0		1		0		0		0		0		0		0		0		0	
	Coenagrion	1		0		0		0		0		0		0		0		0		4		0		0		0		0		0		0		0		0		0		0	
Gomphidae	Ophiogomphus sp.	0		0		0		0		0		0		0		0		0		0		0		1		0		0		1		0		0		0		0		0	
	Stilurus flavipes	0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0	
	Gomphus	0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0	
	Ischnura	0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0	
	Ladona fulva	0		0		0		0		0		0		0		0		0		0		0		0		2		0		0		0		0		1		0		0	
	Onychogomphus	0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0	
	Platycnemis	0		0		0		3		0		0		0		0		0		0		0		0		1		0		2		0		0		0		0		0	
	Somatochlora sp.	0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0	
	Zigottero n.i.	0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0	
Tricladi			10		0		0		0		0		0		0		0		0		0		0		0		0		0		0		3		7		3		0		0
	Dugesia	0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0	
	Planaria torva	10		0		0		0		0		0		0		0		0		0		0		0		0		0		0		3		7		3		0		0	
	Dendrocoelum sp.	0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0	
Nematodi		0		0		0		0		0		0		0		0		0		0		0		0		4		0		5		0		2		2		1		2	
Idracaro		0		0		0		0		0		0		0		0		0		0		0		4		0		0		2		0		0		0		0		0	
Lepidotteri		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0	
Altro/note	microcrostacei	no		no		no		no		no		no		no		no		no		no				no				no		no		no		no				no		no	
TOTALE Individui		665		85		78		123		189		75		197		28		29		428				1064				432		1660				1700		1239		486		1321	

Consorzio dell' Oglio di Brescia - Proprietà Riservata
E' vietato divulgare o utilizzare i dati della Tabella per studi, indagini o pubblicazioni senz apreventiva autorizzazione

Tabella IV. Elenco faunistico del campionamento autunnale (n° 7/11): tratti non guadabili.

PROGETTO DMV FIUME OGLIO
CAMPIONAMENTI BIOLOGICI: ANALISI MACROINVERTEBRATI
Tratti NON Guadabili — INVERNO 2011
Metodo Substrati Artificiale (S.A. di faesite)
Unità di Campionamento: 5 S.A. (0,5 m²)
IdroEcoregione (HER): 6 Pianura Padana

ELENCO TAXA		1 B		15 A		15 B		36A		44A		53 A		59 A		59 B		63 B		68 B		77 B		80A	
		N° Ind.	TOT	N° Ind.	TOT	N° Ind.	TOT	N° Ind.	TOT	N° Ind.	TOT	N° Ind.	TOT	N° Ind.	TOT	N° Ind.	TOT	N° Ind.	TOT	N° Ind.	TOT	N° Ind.	TOT	N° Ind.	TOT
Plecotteri			0		0		0		0		0		0		0		0		0		0		0		1
Leuctridae	Leuctra sp.	0		0		0		0		0		0		0		0		0		0		0		0	
Taeniopterygidae	Brachyptera sp.	0		0		0		0		0		0		0		0		0		0		0		1	
Efemerotteri			0		0		1		133		152		58		123		0		71		137		43		58
	Baetis	0		0		0		22		51		55		59		0		26		55		24		25	
	Centroptilum	0		0		0		0		0		0		0		0		0		0		0		0	
	Caenis	0		0		0		58		22		0		0		0		13		25		11		0	
	Ecdyonurus	0		0		0		5		67		0		41		0		4		31		0		25	
	Ephemera	0		0		0		0		0		0		0		0		0		0		0		0	
	Ephemerella	0		0		0		45		0		0		0		0		0		0		8		0	
	Heptagenia	0		0		1		2		12		3		23		0		28		26		0		8	
	Heptageniadae	0		0		0		0		0		0		0		0		0		0		0		0	
	Potamanthus	0		0		0		1		0		0		0		0		0		0		0		0	
	Paraleptophlebia	0		0		0		0		0		0		0		0		0		0		0		0	
Tricotteri			33		8		21		163		147		44		180		15		60		82		44		32
	Hydropsychidae	14		2		21		147		125		41		176		15		60		78		42		31	
	Hydroptilidae	0		0		0		0		0		0		0		0		0		0		0		0	
	Ecnomidae	0		1		0		0		0		0		0		0		0		0		0		0	
	Lepidostomatidae	0		0		0		4		8		0		0		0		0		0		0		0	
	Leptoceridae	19		4		0		9		6		2		4		0		0		0		0		0	
	Limnephilidae	0		1		0		0		0		0		0		0		0		0		0		0	
	Glossosomatidae	0		0		0		0		0		0		0		0		0		0		0		0	
	Polycentropodidae	0		0		0		0		0		1		0		0		0		0		0		0	
	Psychomyidae	0		0		0		3		0		0		0		0		0		0		0		0	
	Rhyacophilidae	0		0		0		0		8		0		0		0		0		4		2		1	
	Hydroptilidae	0		0		0		0		0		0		0		0		0		0		0		0	
	Tricotteri n.i.	0		0		0		0		0		0		0		0		0		0		0		0	
Eterotteri			0		0		0		0		0		0		0		0		1		0		0		0
	Apheloecheirus	0		0		0		0		0		0		0		0		1		0		0		0	
	Micronecta	0		0		0		0		0		0		0		0		0		0		0		0	
Coleotteri			0		0		0		1		3		0		0		0		0		0		0		2
	Dryopidae	0		0		0		0		0		0		0		0		0		0		0		2	
	Elminthidae	0		0		0		0		0		0		0		0		0		0		0		0	
	Elmidae	0		0		0		1		3		0		0		0		0		0		0		0	
	Gyrinidae	0		0		0		0		0		0		0		0		0		0		0		0	
Cnidari			0		57		60		0		0		0		0		0		0		0		0		0
	Hydra sp.	0		57		60		0		0		0		0		0		0		0		0		0	
Ditteri			172		25		18		214		87		274		116		24		227		180		142		127
	Dolichopodidae	0		0		0		0		0		0		0		0		0		0		0		0	
	Chironomidae	172		24		18		212		63		274		89		24		225		118		136		85	
	Ceratopogonidae	0		0		0		0		0		0		0		0		2		0		0		0	
	Empididae	0		0		0		0		1		0		0		0		0		0		0		0	
	Limonidae	0		0		0		0		0		0		2		0		0		0		0		0	
	Psychodidae	0		0		0		0		0		0		0		0		0		0		0		0	
	Tabanidae	0		0		0		0		0		0		1		0		0		0		0		0	
	Tipulidae	0		1		0		0		0		0		0		0		0		0		0		0	
	Sciomyzidae	0		0		0		0		0		0		0		0		0		0		0		0	
	Simulidae	0		0		0		2		23		0		24		0		0		62		6		42	
Gasteropodi			43		5		5		0		4		0		2		0		3		2		0		9
	Ancylidae	0		0		0		0		0		0		0		0		0		0		0		0	
	Ancylus	0		0		0		0		0		0		0		0		0		0		0		0	
	Acroloxus	0		0		0		0		0		0		0		0		0		0		0		0	
	Bithynia	0		2		0		0		0		0		0		0		0		0		0		0	
	Planorbidae	0		1		0		0		0		0		0		0		0		0		0		0	
	Lymnaea	10		0		0		0		0		0		0		0		0		0		0		5	
	Physa	6		1		5		0		4		0		2		0		3		2		0		0	
	Neritidae	12		0		0		0		0		0		0		0		0		0		0		0	
	Viviparus	0		0		0		0		0		0		0		0		0		0		0		0	
	Valvata	15		1		0		0		0		0		0		0		0		0		0		4	
Bivalvi			0		6		0		0		0		0		0		0		0		3		0		0
	Corbicula	0		0		0		0		0		0		0		0		0		0		0		0	
	Dreissena polymorp	0		5		0		0		0		0		0		0		0		0		0		0	
	Pisidium sp.	0		1		0		0		0		0		0		0		0		3		0		0	
	Sphaerium sp.	0		0		0		0		0		0		0		0		0		0		0		0	
	Unionidae	0		0		0		0		0		0		0		0		0		0		0		0	
Crostacei			23		19		13		49		389		363		69		28		365		215		1341		241
	Asellidae	7		15		13		1		0		19		0		0		0		0		0		0	
	Cambaridae	0		0		0		0		0		0		0		0		0		0		0		0	
	Gammaridae	16		4		0		48		389		344		69		28		365		215		1341		241	
	Palaemonetes	0		0		0		0		0		0		0		0		0		0		0		0	
Oligocheti			2		65		62		400		22		366		134		76		271		49		453		0
	Naididae	0		65		60		400		20		362		134		51		271		45		453		0	
	Enchytraeidae	0		0		0		0		0		0		0		0		0		0		0		0	
	Lumbricidae	2		0		0		0		2		0		0		7		0		4		0		0	
	Lumbriculidae	0		0		2		0		0		4		0		7		0		0		0		0	
	Tubificidae	0		0		0		0		0		0		0		11		0		0		0		0	
Irudinei			18		8		8		2		2		2		2		3		0		0		3		0
	Glossiphonia	1		0		0		0		0		0		0		0		0		0		0		0	
	Helobdella sp.	0		0		0		0		0		0		0		0		0		0		0		0	
	Erpobdella	10		8		8		2		0		2		2		3		0		0		3		0	
	Dina	7		0		0		0		2		0		0		0		0		0		0		0	
	Piscicola	0		0		0		0		0		0		0		0		0		0		0		0	
Odonati			1		7		4		0		13		0		0		0		4		0		6		0
	Aeshnidae Anax	0		0		0		0		0		0		0		0		0		0		0		0	
	Aeschna	0		0		0		0		0		0		0		0		0		0		0		0	
Calopterigidae	*Calopteryx*	0		1		0		0		9		0		0		0		3		0		4		0	
	Coenagrionidae	0		4		0		0		0		0		0		0		1		0		0		0	
	Coenagrion	1		0		4		0		0		0		0		0		0		0		2		0	
Gomphidae	Ophiogomphus sp.	0		0		0		0		0		0		0		0		0		0		0		0	
	Stilurus flavipes	0		0		0		0		0		0		0		0		0		0		0		0	
	Gomphus	0		0		0		0		4		0		0		0		0		0		0		0	
	Ischnura	0		0		0		0		0		0		0		0		0		0		0		0	
	Ladona fulva	0		0		0		0		0		0		0		0		0		0		0		0	
	Onychogomphus	0		0		0		0		0		0		0		0		0		0		0		0	
	Platycnemis	0		2		0		0		0		0		0		0		0		0		0		0	
	Somatochlora sp.	0		0		0		0		0		0		0		0		0		0		0		0	
	Zigottero n.i.	0		0		0		0		0		0		0		0		0		0		0		0	
Tricladi			0		15		43		0		0		0		0		0		0		0		0		0
	Dugesia	0		0		43		0		0		0		0		0		0		0		0		0	
	Planaria torva	0		15		0		0		0		0		0		0		0		0		0		0	
	Dendrocoelum sp.	0		0		0		0		0		0		0		0		0		0		0		0	
Nematodi		0		1		0		0		0		0		0		0		0		0		0		0	
Idracaro		0		1		0		12		0		0		0		0		8		0		0		0	
Lepidotteri		0		0		0		0		0		0		0		0		0		0		0		0	
Altro/note	microcrostacei	no		no		no		no		no		no				no		no		no				no	
TOTALE Individui		292		217		235		974		819		1107		626		146		1010		668		2032		470	

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ALLEGATO II

AZIONE 3: MONITORAGGIO BIOLOGICO

MACROFITE –DATI

2009

Stazione	1	3	4	6	7	8	11	14	15	16	21	24	25	26	27	31	32	35	36	39	42	47	59	62	63	68	73	77	78	80
Alisma plantago-aquatica																											+			
Alisma lanceolatum														+																
Berula erecta																					+									
Butomus umbellatus																											+			+
Callitriche stagnalis																		+	+		+									
Cardamine amara amara														+	+	+			+	+	+									
Ceratophyllum demersum	+	+	5	+	+	+		+							+		+	+		+	+		+	+	+	+	+	+		
Egeria densa																		+												
Elodea canadensis																					+									
Elodea nuttallii	+	+	+	+	+		+					+	+					+			+									
Groenlandia densa																					+									
Iris pseudoacorus							+																							
Lagarosiphon major	1	+	5	5	+	+												+												
Lemna minor																								+	+	+	+	+		
Lemna minuta																				+	+				+		+	+	+	+
Lemna trisulca																					+									
Lindernia palustris																						+								
Lindernia dubia																													+	+
Ludwigia hexapetala																							+	+	+	+		+	+	
Lythrum salicaria																			+											
Myriophyllum spicatum	1	+	+	+	+	+	5	+	5	+		+	5		+		15	+			+	+	+	5	5					
Najas marina marina	+		+	5	+	+		+				+	+				+							+						
Nuphar lutea																								+						
Paspalum distichum		+																				+			+	+		+	+	+
Persicaria amphibia																								+						
Persicaria hydropiper																			+											
Potamogeton crispus	+		+		+				+									+												
Potamogeton pectinatus			1		+																+									
Potamogeton perfoliatus	+	+	+		+								+					+						+						
Potamogeton polygonifolius																									+					
Potamogeton pusillus				+		+												+												
Ranunculus trichophyllus trichophyllus		+	+	+	+	+		+			5	+		+	+	+		5	+		+									
Rorippa amphibia							+					+		+	+	+			+	+								+	+	+

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Sparganium erectum erectum																						+									
Spirodela polyrhiza																				+	+			+	+	+	+	+	+	+	
Vallisneria spiralis L.	35	+	5	+	3	+	15	+	15		+	+	3	+			5	+						1	1						
Veronica anagallis-aquatica L.														+	+	+			+	+						+		+	+	+	
Zannichellia palustris													+												+	+	+	+			
Salvinia natans																															+
Amblystegium fluviatile																				5			5		+			+			
Fontinalis antipyretica												+						+	+	+	+	+									
Hygrohypnum luridum																				+											
Chara globularis				+					5												+										
Cladophora sp.	+	15				5	5	55		2	5	7	5	15	2			45	6	45	55		1	5	5	+	1	5	5	+	
Hydrodictyon sp.											1							+			5										
Lyngbya sp.						3	+																								
Microspora sp.				+																											
Oedocladium sp.		+		+		+							+											+							
Oscillatoria sp.	+		1	+	5	+	+	+	25	+	25	5	2		5	5	5	+	5	5	+	+	+	15	25	+	5	5	+	+	
Phitophora sp.								5			1																				
Phormidium sp.				+		5																									
Spirogyra sp.	2	1	25	4	25		1	1	1	5	5		1			7	7	4	5	3	5	25	3	5	5	1	3	5	3	3	
Tetrasporidium sp.						5		+													1										
Thorea violacea																							5				+				
Zygnema sp.				15																											

2010

Stazione	1	3	4	6	7	8	11	14	15	16	21	24	25	26	27	31	32	35	36	39	42	47	59	62	63	68	73	77	78	80
Alisma plantago-aquatica																											+			
Alisma lanceolatum														+																
Berula erecta																					+									
Butomus umbellatus																											+			+
Callitriche stagnalis																		+	+		+									
Cardamine amara amara														+	+	+			+	+	+									
Ceratophyllum demersum	+	+	5	+	+	+		+												+		+	+	+	+	+	+	+		
Egeria densa															+															
Elodea canadensis															+						+									
Elodea nuttallii	+	+	+	+	+		+					+	+			+		+			+									
Groenlandia densa																					+									
Iris pseudoacorus							+																							
Lagarosiphon major	5		1	5	+	+												+												
Lemna minor																		+	+					+	+	+	+	+		
Lemna minuta																				+	+				+		+	+	+	+
Lemna trisulca																					+									
Lindernia palustris																						+								
Lindernia dubia																													+	+
Ludwigia hexapetala																							+	+	+	+		+	+	
Lythrum salicaria																			+											

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Myriophyllum spicatum	15	+	+	+	5	+	5	+	5	+		+	1		+		1	+		+		+	+	+	+				+	+	+
Najas marina marina	+		+	+	+	+		+				+	+				+					+		+							
Nuphar lutea																								+							
Paspalum distichum		+																				+			+	+		+	+	+	
Persicaria amphibia																								+							
Persicaria hydropiper																			+												
Potamogeton crispus	+		+		+				+									+													
Potamogeton pectinatus			15		+				5												+										
Potamogeton perfoliatus	+		+		+				+				+					+						+							
Potamogeton polygonifolius																									+						
Potamogeton pusillus				+		+												+													
Ranunculus trichophyllus trichophyllus		+	+	+	+	+		+			5	+		+	+	+	+	5	+		+										
Rorippa amphibia							+					+		+					+	+									+	+	+
Sparganium erectum erectum																					+										
Spirodela polyrhiza															+					+	+			+	+	+	+	+	+	+	
Vallisneria spiralis L.	4		4	+	35	+	1	+	1		5	+	25	+		+	1	+						15	1						
Veronica anagallis-aquatica L.														+	+	+	+	+	+	+						+		+	+	+	
Zannichellia palustris													+												+	+	+	+		+	
Salvinia natans																															+
Amblystegium fluviatile																				5		5			+			+			
Fontinalis antipyretica												+						+	+	+	+	+									
Hygrohypnum luridum																				+											
Chara globularis				+					5												+										
Cladophora sp.	+	15				5	5	55		2	5	7	5	15	2			45	6	45	55		1	5	5	+	1	5	5	+	
Hydrodictyon sp.											1							+			5										
Lyngbya sp.						3	+																								
Microspora sp.				+																											
Oedocladium sp.		+		+		+							+											+							
Oscillatoria sp.	+		1	+	5	+	+	+	25	+	25	5	2		5	5	5	+	5	5	+	+	+	15	25	+	5	5	+	+	
Phitophora sp.								5			1																				
Phormidium sp.				+		5																									
Spirogyra sp.	2	1	25	4	25		1	1	1	5	5		1			7	7	4	5	3	5	25	3	5	5	1	3	5	3	3	
Tetrasporidium sp.						5		+													1										
Thorea violacea																							5				+				
Zygnema sp.				15																											

2011

stazione	1	3	4	6	7	8	11	14	15	19	21	24	25	26	27	31	32	35	36	39	42	47	59	62	63	68	73	77	78	80
Alisma lanceolatum With.	0	0	0	0	0	0	0	0	0	0	0	0	0	+	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Alisma plantago-aquatica L.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	+	0	0	0	+	+	0	0	0	0	0	0	+	0	0	0
Berula erecta (Huds.) Coville	0	0	0	0	0	0	0	0	0	0	0	0	0	+	0	+	0	+	+	0	+	0	0	0	0	0	0	0	0	0
Butomus umbellatus L.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	+	0	0	0
Callitriche stagnalis Scop.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	+	0	+	0	0	0	0	0	0	0	0	0
Carex elata subsp. elata	0	0	0	0	0	0	0	+	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ceratophyllum demersum L.	+	+	5	+	5	+	+	0	+	+	0	0	+	0	0	+	5	+	0	0	+	0	+	5	+	+	+	+	0	0

Consorzio dell' Oglio di Brescia - Proprietà Riservata
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Egeria densa Planch.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	+	0	0	0	0	0	0	0	0	0
Elodea canadensis Michx.	0	0	0	0	+	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	+	0	0	0	0	0	0	0	0	0
Elodea nuttallii (Planch.) H. St.John	5	0	+	+	+	+	5	+	0	0	0	+	+	0	0	0	0	+	0	+	5	0	0	0	0	0	0	0	0	0
Equisetum ramossissimum	0	0	0	0	0	0	0	0	0	0	0	0	0	+	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Groenlandia densa (L.) Fourr.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0
Iris pseudoacorus L.	+	0	+	0	+	0	+	0	0	0	0	0	+	0	0	0	+	0	0	0	0	0	0	0	0	0	0	0	0	0
Lagarosiphon major (Ridl.) Moss	5	0	5	5	5	+	0	+	0	+	0	0	0	0	0	+	5	+	0	0	0	0	0	0	0	0	0	0	0	0
Lemna minor L.	0	0	0	0	+	0	0	0	0	0	0	0	+	0	0	0	+	0	0	0	+	0	0	+	5	+	+	0	0	0
Lemna minuta Kunth	0	0	0	0	0	0	0	0	+	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	+	0	+	+	0	0
Lemna trisulca L.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	+	0	0	0	0	+	0	0	0	0	0	0	0	0	0
Lindernia dubia (L.) Pennell	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	+	+	+
Lindernia palustris Hartmann	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	+	0	0	0	0	0	0	0	0	0
Ludwigia hexapetala	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	+	0	0	0	5	5	5	0	5	5	0
Lythrum salicaria L.	0	0	0	0	+	0	0	0	0	0	0	0	0	+	+	+	+	+	+	0	+	0	0	0	0	0	0	0	0	0
Mentha aquatica subsp. aquatica	0	0	+	0	+	0	0	0	0	0	0	0	0	0	0	+	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Myosotis scorpioides	0	0	0	0	+	0	0	0	0	0	0	0	0	0	0	+	0	+	0	0	+	0	0	0	0	0	0	0	0	0
Myriophyllum spicatum L.	5	+	5	+	5	+	5	+	5	+	0	+	5	+	0	+	5	+	+	+	+	+	0	5	5	0	+	0	0	0
Najas marina L. subsp. marina	5	+	+	+	+	0	+	+	+	0	0	0	5	0	0	+	5	0	0	0	0	0	0	+	+	0	0	0	0	0
Nasturtium officinale subsp. officinale	+	0	+	0	0	0	0	+	0	+	0	0	0	+	+	+	0	+	+	+	+	0	0	0	0	0	0	0	0	0
Nuphar lutea (L.) Sm.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0
Paspalum distichum L.	+	+	0	0	+	0	0	0	0	0	0	0	0	+	+	0	+	+	0	0	+	5	0	0	5	5	+	+	5	+
Persicaria amphibia (L.) Delarbre	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0
Persicaria hydropiper (L.) Spach	0	0	+	0	+	+	0	+	0	0	0	0	0	0	+	+	+	+	+	+	+	0	0	0	0	0	0	+	+	0
Phalaris arundinacea subsp. arundinacea	+	0	+	0	+	0	+	0	0	0	+	0	0	+	+	+	5	+	+	+	+	0	0	0	0	0	0	0	0	0
Potamogeton crispus L.	5	0	+	0	+	0	0	0	5	0	0	0	0	0	0	0	0	+	0	0	+	0	0	0	0	0	0	0	0	0
Potamogeton pectinatus L.	5	0	5	0	5	+	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Potamogeton perfoliatus L.	+	0	5	0	5	0	0	0	0	0	0	0	+	0	0	0	0	0	0	0	0	0	0	+	0	0	0	0	0	0
Potamogeton polygonifolius Pourr.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	+	0	0	0	+	0	0	0	0	0
Potamogeton pusillus L.	0	0	0	0	+	+	0	0	0	0	0	5	0	0	0	0	0	+	+	+	0	0	+	0	0	0	0	0	0	0
Ranunculus trichophyllus Chaix subsp. trichophyllus	0	0	+	0	+	0	0	0	0	0	+	0	0	5	0	+	5	5	+	+	+	0	0	0	0	0	0	0	0	0
Rorippa amphibia (L.) Besser	0	0	0	0	+	0	+	0	0	0	0	0	+	+	+	+	+	+	+	+	+	0	0	0	0	0	+	+	+	+
Sparganium erectum L. s.l.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	+	0	0	0	0	0	0	0	0	0
Spirodela polyrhiza (L.) Schleid.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	+	+	+	+	+	+	+
Valeriana collina xx	0	0	0	0	0	0	0	0	0	0	0	0	0	+	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vallisneria spiralis L.	45	+	5	+	5	+	10	+	5	+	+	+	4	+	0	0	5	+	+	+	0	0	0	5	5	0	0	0	0	0
Veronica anagallis-aquatica L.	0	0	0	0	+	0	0	+	0	+	0	0	0	+	+	+	+	0	+	0	+	0	0	0	0	+	0	+	+	+
Veronica beccabunga	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	+	0	0	+	0	0	0	0	0	0	0	0	0	0	0
Zannichellia palustris L. subsp. polycarpa	+	0	+	0	0	+	0	+	0	0	0	5	+	0	0	0	0	+	+	+	+	0	0	0	5	+	0	+	0	0
Salvinia natans (L.) All.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Amblystegium fluviatile (Hedw.) Schimp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	+	0	0	0	0	5	0	0	0	0	0	0	0
Fontinalis antipyretica Hedw.	0	0	0	0	0	0	0	0	0	0	+	0	0	+	0	0	0	+	+	+	+	+	0	0	0	0	0	0	0	0
Chaetophora incrassata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	+	+	0	0	0	0	0	0	0	0	0	0	0
Chara globularis	0	0	0	+	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	+	0	0	0	0	0	0	0	0	0
Chetophora sp. non incrassata	0	+	0	0	0	0	0	+	0	0	0	+	0	+	+	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cladophora sp.	+	5	5	5	5	5	5	5	+	5	35	40	5	45	55	60	0	70	80	45	55	0	0	+	+	+	+	+	+	0

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Hydrodictyon reticulatum	5	5	+	5	+	0	+	0	0	0	5	+	+	+	+	5	+	+	0	5	5	0	0	0	0	0	+	0	0	0
Lyngbya sp.	0	0	0	0	0	0	+	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MIcrospora sp.	+	0	0	0	+	0	+	0	0	0	0	0	+	0	0	+	0	0	0	0	0	0	+	+	0	0	+	0	0	0	0
Oedocladium sp.	0	0	0	0	0	0	0	0	0	0	0	0	+	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Oscillatoria sp.	5	5	5	+	5	+	+	+	5	5	5	5	5	5	+	5	5	5	5	5	5	5	+	5	5	5	5	5	5	5	5
Phormidium sp.	0	0	0	0	0	+	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rhizoclonium sp.	0	5	0	0	0	0	0	5	0	0	0	5	+	0	0	5	5	0	5	5	5	0	5	0	0	+	5	0	0	0	0
Spirogyra sp.	5	+	+	+	5	0	5	0	5	5	+	+	5	+	0	5	5	5	5	35	5	5	0	5	+	5	15	10	5	5	
Stigeoclonium sp.	0	0	0	0	0	0	0	0	0	+	0	0	0	0	0	0	0	0	0	0	0	0	0	5	5	+	+	+	+	+	
Tetrasporidium sp.	+	0	0	0	+	5	+	+	+	0	0	+	0	0	5	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0
Thorea hispida	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	+	0	0	0	0
Ulothrix sp.	0	0	0	0	0	+	0	0	+	0	0	0	0	0	0	+	0	0	+	0	5	0	+	0	0	0	0	0	0	0	0
Vaucheria sp.	0	0	0	0	0	0	0	0	0	+	0	0	0	0	0	0	0	0	+	+	5	0	0	0	0	0	0	0	0	0	0
Zygnema sp.	0	0	0	5	0	+	0	0	0	0	0	0	0	0	0	+	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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AZIONE 3: MONITORAGGIO BIOLOGICO

DIATOMEE –ELENCO DEI TAXA

Tabella V. Elenco dei taxa delle diatomee rinvenute durante il campionamento estivo (n° 5/10).

		stazione								
		7	8	24	26	44	53	59	63	80
TAXA		lug-10	lug-10	lug-10	lug-10	lug-10	lug-10	lug-10	lug-10	lug-10
Amphora copulata (Kütz) Schoeman & Archibald	ACOP	0	0	0	0	0	0	0	0	2
Achnanthidium biasolettianum (Grunow in Cl. & Grun.) Lange-Bertalot	ADBI	2	0	0	0	16	0	1	0	0
Achnanthidium biasolettianum(Grunow)Lange-Bertalot abnormal form	ADBT	0	0	0	0	3	0	0	0	0
Achnanthidium minutissima (Kütz.)Czarn.var. affinis(Grun.) Bukht.	ADMF	0	0	2	0	0	0	0	0	0
Achnanthidium minutissimum (Kutzing) Czarnecki	ADMI	32	46	28	102	212	9	9	0	5
Adlafia minuscula var. muralis (Grunow) Lange-Bertalot	ADMM	0	0	0	0	0	1	0	0	0
Achnanthidium minutissimum (Kütz.) Czarnecki abnormal form	ADMT	0	0	1	0	0	2	0	1	0
Amphora montana Krasske	AMMO	0	2	0	0	0	4	1	0	0
Amphora pediculus (Kützing) Grunow	APED	43	19	8	6	45	20	13	10	4
Amphora veneta Kutzing	AVEN	0	0	0	0	0	0	4	0	0
Cymbella excisa Kützing var. excisa	CAEX	0	0	1	0	25	2	0	0	0
Cyclotella atomus Hustedt	CATO	0	0	0	0	0	2	1	7	105
Caloneis bacillum (Grunow) Cleve	CBAC	0	0	0	1	0	0	0	0	0
Cymbopleura amphicephala Krammer	CBAM	0	0	0	0	0	0	0	1	0
Cyclotella comensis Grunow in Van Heurck	CCMS	21	4	14	3	0	0	0	0	0
Cymbella excisiformis Krammer var.excisiformis	CEXF	0	0	0	0	2	0	0	0	0
Cyclotella hakanssoniae Wendker	CHAK	0	1	0	0	0	0	0	0	0
Cyclotella meneghiniana Kützing	CMEN	4	0	0	3	0	6	22	37	42
Cocconeis pediculus Ehrenberg	CPED	7	11	11	5	0	1	4	0	1
Cocconeis placentula Ehrenberg var.euglypta (Ehr.) Grunow	CPLE	22	6	56	84	19	36	4	4	2
Cocconeis placentula Ehrenberg var.lineata (Ehr.)Van Heurck	CPLI	0	0	0	0	0	0	2	0	0
Cyclotella polymorpha Meyer & Hakansson	CPOL	1	0	0	0	0	0	0	0	0
Cocconeis placentula Ehrenberg var. pseudolineata Geitler	CPPL	4	0	4	0	0	0	0	0	2
Cymbella perparva Krammer	CPPV	4	0	0	0	0	0	0	0	0
Cocconeis placentula Ehrenberg abnormal form	CPTG	0	1	0	4	2	2	0	1	0
Craticula cuspidata (Kützing) Mann	CRCU	1	0	0	0	0	0	0	0	0
Cymatopleura solea (Brebisson in Breb. & Godey) W.Smith var.solea	CSOL	0	0	0	0	0	4	8	11	2
Cymbella tumida (Brebisson)Van Heurck	CTUM	0	0	0	0	0	0	0	0	4
Diadesmis contenta (Grunow ex V. Heurck) Mann	DCOT	2	0	0	0	0	0	0	0	0
Diatoma ehrenbergii Kützing	DEHR	0	2	2	0	0	0	0	0	0
Diatoma tenuis Agardh	DITE	17	21	20	11	0	0	0	0	0
Denticula tenuis Kützing	DTEN	0	0	1	0	0	0	0	0	0
Diatoma vulgaris Bory	DVUL	1	0	0	1	0	3	2	1	0
Encyonema caespitosum Kützing	ECAE	1	0	1	0	0	0	0	0	0
Encyonopsis minuta Krammer & Reichardt	ECPM	4	6	1	5	0	0	0	2	0
Encyonema lange-bertalotii Krammer morphotype 1	ENLB	0	0	0	8	4	2	3	5	0
Encyonema minutum (Hilse in Rabh.) D.G. Mann	ENMI	0	0	0	0	0	0	0	0	3
Eolimna minima(Grunow) Lange-Bertalot	EOMI	2	11	1	0	0	5	8	13	120
Eolimna minima(Grunow) Lange-Bertalot abnormal form	EOMT	0	0	0	0	1	2	2	0	4
Eolimna subminuscula (Manguin) Moser Lange-Bertalot & Metzeltin	ESBM	6	0	0	0	1	0	5	11	8
Encyonema silesiacum (Bleisch in Rabh.) D.G. Mann	ESLE	0	0	1	0	1	0	0	0	0
Encyonopsis subminuta Krammer & Reichardt	ESUM	12	5	0	1	0	0	0	0	0
Fragilaria crotonensis Kitton	FCRO	30	2	15	3	0	0	0	0	0
Fragilaria capucina Desmazieres var. rumpens (Kützing) Lange-Bertalot	FCRU	0	0	1	0	0	0	2	0	0
Fragilaria capucina Desmazieres var.vaucheriae(Kützing)Lange-Bertalot	FCVA	0	0	2	4	3	0	0	1	0
Fragilaria capucina var.vaucheriae(Kütz.)Lange-Bertalot abnormal form	FCVT	0	0	0	2	1	0	0	0	0
Fragilaria elliptica Schumann (Staurosira)	FELL	2	0	0	0	0	0	0	0	0
Fragilaria nanana Lange-Bertalot	FNAN	1	0	0	0	0	0	0	0	0
Fragilaria pseudoconstruens Marciniak	FPCO	0	4	0	0	0	0	0	0	0
Fallacia pygmaea (Kützing) Stickle & Mann ssp.pygmaea Lange-Bertalot	FPYG	0	0	0	0	0	0	0	2	0
Fistulifera saprophila (Lange-Bertalot & Bonik) Lange-Bertalot	FSAP	2	0	0	0	0	0	0	0	1
Fallacia subhamulata (Grunow in V. Heurck) D.G. Mann	FSBH	2	0	0	0	0	1	0	0	0
Fragilaria tenera (W.Smith) Lange-Bertalot	FTEN	0	0	0	0	0	0	1	0	0
Gomphonema clevei Fricke	GCLE	3	0	0	0	0	0	0	0	0
Geissleria decussis(Ostrup) Lange-Bertalot & Metzeltin	GDEC	0	0	0	0	0	0	0	1	0
Gomphonema micropus Kützing var. micropus	GMIC	0	0	1	0	0	0	0	0	0
Gomphonema minutum(Ag.)Agardh f. minutum	GMIN	3	0	12	0	0	0	0	2	0
Gyrosigma nodiferum (Grunow) Reimer	GNOD	0	2	0	0	0	8	0	0	0
Gomphonema parvulum (Kützing) Kützing var. parvulum f. parvulum	GPAR	3	0	0	2	5	10	2	3	1
Gomphonema parvulum Kützing abnormal form	GPAT	0	0	0	0	1	0	0	0	0
Gomphonema pumilum var. rigidum Reichardt & Lange-Bertalot	GPRI	0	0	0	0	2	2	0	0	0
Gyrosigma scalproides (Rabenhorst)Cleve	GSCA	0	0	0	0	0	0	0	1	1
Gyrosigma spencerii (Quekett) Griffith et Henfrey	GSPE	0	0	0	0	0	3	0	0	0
Gyrosigma strigilis (W.Smith) Cleve	GSTR	0	0	0	0	0	0	7	11	2
Gomphonema tergestinum Fricke	GTER	0	0	0	0	4	0	0	0	0
Hantzschia amphioxys (Ehr.) Grunow in Cleve et Grunow 1880	HAMP	0	0	0	0	0	0	1	0	0
Luticola goeppertiana (Bleisch in Rabenhorst) D.G. Mann	LGOE	0	0	0	0	0	2	0	1	0
Mayamaea atomus (Kutzing) Lange-Bertalot	MAAT	0	0	2	0	0	0	0	0	0
Mayamaea atomus var. permitis (Hustedt) Lange-Bertalot	MAPE	2	1	0	2	0	0	0	0	1
Melosira varians Agardh	MVAR	0	0	0	0	4	23	42	34	2
Navicula amphicerops Lange-Bertalot & Rumrich	NAAM	0	0	0	0	0	10	49	22	2

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Nitzschia acicularis(Kützing) W.M.Smith	NACI	0	0	0	0	0	0	2	0	0
Nitzschia amphibia Grunow f.amphibia	NAMP	4	2	0	0	0	0	0	0	1
Navicula antonii Lange-Bertalot	NANT	2	11	4	9	2	7	0	2	4
Nitzschia constricta (Kützing) Ralfs	NCOT	5	0	0	0	0	2	0	0	0
Nitzschia capitellata Hustedt in A.Schmidt & al.	NCPL	0	0	0	0	0	0	1	0	0
Navicula capitatoradiata Germain	NCPR	4	15	38	54	1	21	7	20	1
Navicula cryptocephala Kützing	NCRY	0	0	2	0	0	0	0	0	0
Navicula cryptotenella Lange-Bertalot	NCTE	1	19	24	5	15	41	7	9	4
Navicula cryptotenella Lange-Bertalot abnormal fo.	NCTG	0	0	0	3	0	0	0	0	2
Navicula cryptotenelloides Lange-Bertalot	NCTO	23	25	38	29	3	0	0	0	0
Navicula caterva Hohn & Hellerman	NCTV	0	24	2	2	0	0	0	0	0
Nitzschia dissipata(Kützing)Grunow var.dissipata	NDIS	21	25	14	13	1	17	3	8	1
Navicula erifuga Lange-Bertalot	NERI	0	0	0	0	0	1	1	3	2
Nitzschia fonticola Grunow in Cleve et Möller	NFON	3	59	0	19	39	4	6	1	3
Navicula germainii Wallace	NGER	0	0	0	0	0	8	10	14	11
Navicula gregaria Donkin	NGRE	1	0	0	0	0	0	1	2	0
Nitzschia archibaldii Lange-Bertalot	NIAR	0	0	1	2	0	3	0	0	1
Nitzschia lacuum Lange-Bertalot	NILA	3	13	4	4	3	0	0	0	0
Nitzschia inconspicua Grunow	NINC	0	0	2	0	0	0	0	0	4
Nitzschia intermedia Hantzsch ex Cleve & Grunow	NINT	0	0	0	0	0	0	0	0	2
Nitzschia linearis(Agardh) W.M.Smith var.linearis	NLIN	1	0	0	0	0	2	0	0	0
Nitzschia linearis(Agardh) W.M.Smith var.subtilis(Grunow) Hustedt	NLSU	0	0	0	0	0	0	0	2	0
Nitzschia palea (Kützing) W.Smith var.debilis(Kützing)Grunow in Cl. &	NPAD	21	3	3	12	1	11	50	44	40
Nitzschia paleacea (Grunow) Grunow in van Heurck	NPAE	0	0	0	0	0	0	2	0	0
Nitzschia palea (Kützing) W.Smith	NPAL	4	2	0	1	1	11	70	54	16
Navicula perminuta Grunow in Van Heurck	NPNU	0	0	0	0	4	0	0	0	0
Navicula praeterita Hustedt	NPRA	2	0	0	0	0	0	0	0	0
Nitzschia palea (Kützing) W.Smith abnormal fo.	NPTR	0	0	0	0	0	0	0	1	0
Navicula reichardtiana Lange-Bertalot abnormal form	NRCF	0	0	0	0	2	0	0	0	0
Navicula reichardtiana Lange-Bertalot var. reichardtiana	NRCH	2	0	12	3	0	0	0	0	3
Navicula rostellata Kützing	NROS	0	0	0	0	0	19	27	31	8
Nitzschia sigmoidea (Nitzsch)W. Smith	NSIG	0	0	0	0	0	0	4	0	0
Nitzschia sociabilis Hustedt	NSOC	0	0	0	0	0	41	0	1	0
Navicula tripunctata (O.F.Müller) Bory	NTPT	0	2	0	2	1	12	3	0	0
Navicula trivialis Lange-Bertalot var. trivialis	NTRV	0	0	0	0	0	1	0	0	0
Navicula tripunctata (O.F.M.) Bory forme teratogene	NTTT	0	0	0	0	0	0	2	1	0
Navicula veneta Kützing	NVEN	10	0	0	0	0	2	0	2	3
Navicula viridula (Kützing) Ehrenberg	NVIR	0	0	0	0	0	0	5	0	0
Navicula veneta Kützing abnormal fo.	NVTG	0	0	0	0	0	2	0	0	0
Nitzschia costei Tudesque, Rimet & Ector	NYCO	17	0	98	11	0	0	0	0	0
Nitzschia angustatula Lange-Bertalot	NZAG	2	0	0	0	0	0	0	0	0
Planothidium frequentissimum(Lange-Bertalot)Lange-Bertalot	PLFR	6	0	0	0	0	2	0	2	0
Pseudostaurosira brevistriata (Grun.in Van Heurck) Williams & Round	PSBR	0	0	7	2	0	0	0	0	0
Planothidium lanceolatum(Brebisson ex Kützing) Lange-Bertalot	PTLA	2	0	0	0	0	0	0	0	0
Rhoicosphenia abbreviata (C.Agardh) Lange-Bertalot	RABB	0	0	0	0	0	2	0	2	0
Reimeria sinuata (Gregory) Kociolek & Stoermer	RSIN	0	1	0	2	41	4	1	5	1
Reimeria uniseriata Sala Guerrero & Ferrario	RUNI	0	0	0	0	0	1	0	0	0
Synedra acus Kützing	SACU	1	4	2	0	0	0	0	0	3
Staurosira construens Ehrenberg	SCON	0	14	14	0	0	6	0	0	0
Surirella gracilis Grunow	SGRA	0	0	0	0	0	0	0	3	0
Surirella linearis W.M.Smith	SLIN	0	0	0	0	0	2	3	4	0
Staurosirella pinnata (Ehr.) Williams & Round	SPIN	22	12	9	5	0	1	0	1	0
Staurosirella pinnata (Ehr.) Williams & Round abnormal fo.	SPIT	0	3	0	0	0	0	0	0	0
Sellaphora pupula (Kützing) Mereschkowksy	SPUP	0	0	1	0	0	1	4	5	0
Sellaphora seminulum (Grunow) D.G. Mann	SSEM	4	0	0	0	0	3	0	0	6
Staurosira venter (Ehr.) Cleve & Moeller	SSVE	22	25	1	0	0	0	0	0	0
TABELLARIA C.G. Ehrenberg	TABE	3	2	0	2	0	1	1	0	0
Tryblionella angustata Wm Smith	TANG	0	0	0	0	0	0	6	0	1
Tabellaria flocculosa(Roth)Kützing	TFLO	0	0	1	0	0	0	0	0	0
Thalassiosira pseudonana Hasle et Heimdal	TPSN	0	0	0	0	0	0	0	0	8
Ulnaria biceps (Kützing) Compère	UBIC	0	0	0	0	0	9	17	9	0
Ulnaria ulna (Nitzsch.) Compère	UULN	1	1	3	0	0	19	25	15	0
Ulnaria ulna (Nitzsch.) Compère abnormal form	UULT	0	0	0	0	0	0	2	1	0
TOTALE		421	406	465	427	465	416	453	424	439

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Tabella VI. Elenco dei taxa delle diatomee rinvenute durante il campionamento autunnale (n° 6/10).

		stazione							
		7	**8**	**24**	**26**	**53**	**59**	**63**	**80**
TAXA		nov-10	nov-10	nov-10	nov-10	nov-10	nov-10	nov-10	nov-10
Achnanthidium lineare W.Smith	ACLI	0	0	0	0	0	0	2	0
Achnanthidium minutissimum(Kütz.)Czarnecki var.gracillima (Meist.)Buk	ACMG	0	0	0	0	0	0	2	0
Amphora copulata (Kütz) Schoeman & Archibald	ACOP	0	0	0	0	8	1	0	0
Achnanthidium biasolettianum (Grunow in Cl. & Grun.) Lange-Bertalot	ADBI	0	0	0	0	1	4	6	22
Achnanthidium biasolettianum(Grunow)Lange-Bertalot abnormal form	ADBT	2	0	0	0	0	0	0	0
Achnanthidium eutrophilum (Lange-Bertalot)Lange-Bertalot	ADEU	2	5	8	10	5	1	0	0
Achnanthidium minutissimum (Kützing) Czarnecki	ADMI	43	30	32	28	36	25	0	82
Achnanthidium minutissimum (Kütz.) Czarnecki abnormal form	ADMT	0	0	2	1	0	1	1	1
Achnanthidium straubianum (Lange-Bertalot)Lange-Bertalot	ADSB	6	0	0	0	0	0	0	0
Achnanthidium thienemannii (Hustedt) Lange-Bertalot	ADTH	0	0	0	0	0	0	1	0
Achnanthes exigua Grunow in Cl. & Grun.var. exigua	AEXG	0	0	0	0	2	0	0	0
Amphora montana Krasske	AMMO	36	11	0	0	3	50	7	6
Amphora pediculus (Kützing) Grunow	APED	76	64	13	108	38	18	27	25
Achnanthes rupestoides Hohn	ARPT	0	0	0	0	0	0	4	0
AULACOSEIRA G.H.K. Thwaites	AULA	0	0	0	0	0	0	0	2
Brachysira procera Lange-Bertalot & Moser	BPRO	0	1	0	0	0	0	0	0
Craticula ambigua (Ehrenberg) Mann	CAMB	0	0	0	0	0	0	0	1
Cyclotella atomus Hustedt	CATO	0	0	0	0	0	0	0	1
Caloneis bacillum (Grunow) Cleve	CBAC	1	2	6	18	0	7	2	1
Cyclotella cyclopuncta Hakansson & Carter	CCCP	0	0	2	0	0	0	3	0
Cyclotella comensis Grunow in Van Heurck	CCMS	15	14	2	0	16	13	8	1
Cocconeis disculus (Schumann) Cleve in Cleve & Jentzsch	CDIS	0	0	0	0	2	0	0	0
Cyclostephanos dubius (Fricke) Round	CDUB	0	0	0	0	0	2	0	4
Cyclotella meneghiniana Kützing	CMEN	1	0	0	0	0	5	2	10
Cyclotella ocellata Pantocsek	COCE	0	0	0	0	6	4	0	0
Cocconeis pseudolineata (Geitler) Lange-Bertalot	COPL	0	2	0	0	0	0	0	7
Cymbella parva(W.Sm.)Kirchner in Cohn	CPAR	0	0	1	0	0	0	0	0
Cocconeis pediculus Ehrenberg	CPED	1	2	0	0	10	4	3	5
Cocconeis placentula Ehrenberg var.euglypta (Ehr.) Grunow	CPLE	14	2	11	6	17	19	23	16
Cocconeis placentula Ehrenberg var.lineata (Ehr.)Van Heurck	CPLI	0	0	0	0	0	6	0	0
Cocconeis placentula Ehrenberg var. pseudolineata Geitler	CPPL	0	0	0	2	2	0	2	0
Cocconeis placentula Ehrenberg abnormal form	CPTG	0	0	2	0	0	0	0	0
Craticula buderi (Hustedt) Lange-Bertalot	CRBU	0	0	0	0	0	0	2	0
Cymatopleura solea (Brebisson in Breb. & Godey) W.Smith var.solea	CSOL	0	0	0	0	0	2	2	2
CYCLOTELLA F.T. Kützing ex A de Brébisson	CYCL	0	0	2	0	0	0	0	0
Diadesmis contenta (Grunow ex V. Heurck) Mann	DCOT	0	0	0	0	0	0	2	0
Diatoma ehrenbergii Kützing	DEHR	2	0	0	0	3	6	2	4
Diatoma tenuis Agardh	DITE	71	39	22	11	90	41	43	27
Diatoma mesodon (Ehrenberg) Kützing	DMES	0	0	0	0	0	1	0	0
Diploneis oblongella (Naegeli) Cleve-Euler	DOBL	0	0	0	0	0	2	0	1
Denticula tenuis Kützing	DTEN	0	0	0	0	0	0	0	1
Diatoma vulgaris Bory	DVUL	0	4	0	0	5	1	8	3
Encyonema caespitosum Kützing	ECAE	0	2	4	0	4	1	0	0
Encyonopsis krammeri Reichardt	ECKR	0	2	0	0	0	0	0	0
Encyonema lange-bertalotii Krammer morphotype 1	ENLB	0	0	0	1	0	0	0	0
Encyonema minutum (Hilse in Rabh.) D.G. Mann	ENMI	0	0	0	0	2	5	0	0
Encyonema ventricosum (Agardh) Grunow	ENVE	0	0	0	0	0	1	0	0
Eolimna comperei Ector. Coste et Iserentant	EOCO	0	2	0	15	6	11	0	2
Eolimna minima(Grunow) Lange-Bertalot	EOMI	37	11	0	18	18	22	15	6
Encyonema prostratum (Berkeley) Kützing	EPRO	0	2	0	0	0	0	0	0
Eolimna subminuscula (Manguin) Moser Lange-Bertalot & Metzeltin	ESBM	14	0	6	9	0	3	3	2
Encyonema silesiacum (Bleisch in Rabh.) D.G. Mann	ESLE	0	0	0	0	1	3	1	0
Encyonopsis subminuta Krammer & Reichardt	ESUM	0	3	1	0	0	0	0	0
Fragilaria arcus (Ehrenberg) Cleve var. arcus	FARC	0	0	0	0	0	2	0	0
Fragilaria crotonensis Kitton	FCRO	7	1	1	0	0	0	3	0
Fragilaria capucina Desmazieres var. rumpens (Kützing) Lange-Bertalot	FCRU	0	0	2	0	5	4	0	8
Fragilaria capucina Desmazieres var.vaucheriae(Kützing)Lange-Bertalot	FCVA	0	4	10	0	0	0	1	4
Fistulifera saprophila (Lange-Bertalot & Bonik) Lange-Bertalot	FSAP	0	1	0	0	0	22	8	13

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Fallacia subhamulata (Grunow in V. Heurck) D.G. Mann	FSBH	3	0	0	0	0	2	1	0
Frustulia vulgaris (Thwaites) De Toni	FVUL	0	0	0	0	0	0	0	1
Geissleria decussis(Ostrup) Lange-Bertalot & Metzeltin	GDEC	0	0	0	1	0	1	1	0
Gomphoneis olivaceum(Horn.)Daws.var.minutissimum(Hust.) Bukhtiyarova	GIOM	0	0	0	0	0	0	0	2
Gomphonema lateripunctatum Reichardt & Lange-Bertalot	GLAT	0	0	1	0	0	0	0	0
Gomphonema olivaceum (Hornemann) Brébisson var. olivaceum	GOLI	0	0	6	4	0	1	0	0
Gomphonema parvulum (Kützing) Kützing var. parvulum f. parvulum	GPAR	1	0	0	0	2	0	11	0
Gomphonema pumilum var. elegans Reichardt & Lange-Bertalot	GPEL	0	0	2	0	0	2	0	0
Gyrosigma sciotense (Sullivan et Wormley) Cleve	GSCI	0	4	1	0	1	0	0	1
Gomphonema saprophilum (Lange-Bert.& E.Reichardt) Monnier & Ector	GSPP	0	0	0	0	0	10	0	2
Gomphonema tergestinum Fricke	GTER	0	0	0	3	0	0	0	0
Gomphonema truncatum Ehr.	GTRU	2	0	0	0	0	0	0	0
Gyrosigma obtusatum (Sullivan & Wormley) Boyer	GYOB	0	0	0	0	0	4	0	0
Hantzschia amphioxys (Ehr.) Grunow in Cleve et Grunow 1880	HAMP	0	0	0	0	1	1	0	0
Karayevia clevei(Grunow) Bukhtiyarova	KCLE	0	2	0	0	0	0	0	0
Luticola mutica (Kützing) D.G. Mann	LMUT	0	2	0	0	0	0	0	0
Mayamaea atomus (Kützing) Lange-Bertalot	MAAT	8	0	0	0	0	0	0	0
Mayamaea excelsa (Krasske) Lange-Bertalot	MAEX	8	0	0	0	0	0	8	0
Mayamaea atomus var. permitis (Hustedt) Lange-Bertalot	MAPE	0	5	2	8	0	0	7	0
Melosira varians Agardh	MVAR	0	1	0	0	3	5	0	0
Navicula amphiceropsis Lange-Bertalot & Rumrich	NAAM	0	0	0	0	1	2	0	0
Nitzschia acidoclinata Lange-Bertalot	NACD	0	0	0	0	2	0	0	0
Nitzschia acicularis(Kützing) W.M.Smith	NACI	0	0	0	0	0	0	1	0
Nitzschia agnita Hustedt	NAGN	1	0	0	0	1	0	0	0
Nitzschia amphibia Grunow f.amphibia	NAMP	5	7	0	0	0	2	5	0
Navicula antonii Lange-Bertalot	NANT	12	3	0	10	2	9	3	4
Navicula aquaedurae Lange-Bertalot	NAQR	0	0	0	0	0	2	0	0
Nitzschia capitellata Hustedt in A.Schmidt & al.	NCPL	0	0	0	0	0	0	0	2
Navicula capitatoradiata Germain	NCPR	1	1	3	0	4	2	2	2
Navicula cryptocephala Kützing	NCRY	0	0	0	0	0	2	2	0
Navicula cryptotenella Lange-Bertalot	NCTE	0	6	3	11	0	13	4	8
Navicula cryptotenelloides Lange-Bertalot	NCTO	17	12	22	9	3	0	1	2
Navicula caterva Hohn & Hellerman	NCTV	7	4	2	15	0	2	2	0
Nitzschia dissipata(Kützing)Grunow var.dissipata	NDIS	34	80	104	69	5	13	15	5
Navicula erifuga Lange-Bertalot	NERI	0	0	0	0	0	0	0	1
Nitzschia fonticola Grunow in Cleve et Möller	NFON	3	13	69	23	6	16	10	13
Navicula germainii Wallace	NGER	0	0	0	0	0	4	0	8
Navicula gregaria Donkin	NGRE	0	2	0	0	0	5	3	1
Nitzschia lacuum Lange-Bertalot	NILA	7	6	4	2	0	0	0	2
Nitzschia inconspicua Grunow	NINC	5	0	0	0	0	0	5	1
Nitzschia pusilla(Kützing)Grunow	NIPU	2	0	0	0	4	3	7	1
Nitzschia linearis(Agardh) W.M.Smith var.linearis	NLIN	0	0	0	0	1	3	6	1
Nitzschia palea (Kützing) W.Smith var.debilis(Kützing)Grunow in Cl. &	NPAD	13	2	2	0	7	17	20	23
Nitzschia palea (Kützing) W.Smith	NPAL	0	0	0	0	1	5	6	6
Nitzschia paleacea (Grunow) Grunow abnormal fo.	NPTG	0	0	0	1	0	0	0	0
Nitzschia palea (Kützing) W.Smith abnormal fo.	NPTR	0	0	0	0	0	0	0	2
Navicula reichardtiana Lange-Bertalot var. reichardtiana	NRCH	3	0	4	10	1	0	0	0
Nitzschia recta Hantzsch in Rabenhorst	NREC	0	0	0	0	2	1	0	0
Navicula rostellata Kützing	NROS	0	0	0	0	1	0	0	0
Nitzschia sociabilis Hustedt	NSOC	0	1	0	0	0	0	2	1
Navicula splendicula Van Landingham	NSPD	0	0	0	2	0	0	0	0
Navicula tripunctata (O.F.Müller) Bory	NTPT	2	6	43	3	3	7	3	3
Navicula trivialis Lange-Bertalot var. trivialis	NTRV	0	0	0	0	1	2	4	0
Navicula vandamii Schoeman & Archibald var. vandamii	NVDA	0	0	0	0	0	0	2	0
Navicula veneta Kützing	NVEN	4	4	0	0	2	5	0	8
Navicula vilaplanii(Lange-Bert. & Sabater) Lange-Bertalot & Sabater	NVIP	0	0	0	0	0	23	0	2
Navicula ventraloides Hustedt	NVTO	0	1	0	0	0	0	0	0
Nitzschia costei Tudesque, Rimet & Ector	NYCO	10	0	0	0	6	5	2	0
Nitzschia inconspicua Grunow abnormal form	NZIT	1	0	0	0	0	0	0	0
Planothidium frequentissimum(Lange-Bertalot)Lange-Bertalot	PLFR	0	0	0	0	2	12	6	4
Planothidium rostratum (Oestrup) Lange-Bertalot	PRST	0	0	0	0	9	2	2	3
Pinnularia rupestris Hantzsch in Rabenhorst	PRUP	0	0	0	0	0	2	0	0
Pseudostaurosira brevistriata (Grun.in Van Heurck) Williams & Round	PSBR	3	13	3	0	0	2	0	5
Planothidium lanceolatum(Brebisson ex Kützing) Lange-Bertalot	PTLA	0	0	0	0	0	2	0	0
Rhoicosphenia abbreviata (C.Agardh) Lange-Bertalot	RABB	0	0	2	0	3	4	3	0
Reimeria sinuata (Gregory) Kociolek & Stoermer	RSIN	0	0	0	14	5	20	5	12
Synedra acus Kützing	SACU	0	0	0	0	1	0	0	0
Surirella angusta Kützing	SANG	0	0	0	0	0	3	2	0
Surirella brebissonii var.kuetzingii Krammer et Lange-Bertalot	SBKU	0	0	0	0	0	1	0	0
Staurosira construens Ehrenberg	SCON	7	0	0	0	7	20	2	2
Simonsenia delognei Lange-Bertalot	SIDE	0	5	0	0	0	0	0	0
Staurosirella pinnata (Ehr.) Williams & Round	SPIN	12	7	6	0	20	10	27	32
Sellaphora seminulum (Grunow) D.G. Mann	SSEM	0	2	2	4	5	0	1	0
Staurosira venter (Ehr.) Cleve & Moeller	SSVE	0	5	0	0	6	0	0	0
Stauroneis anceps Ehrenberg	STAN	0	0	0	0	0	0	2	0
Sellaphora verecundiae Lange-Bertalot	SVER	0	0	0	0	0	0	0	1
Tabellaria flocculosa(Roth)Kützing	TFLO	0	0	0	0	1	1	1	0
Thalassiosira pseudonana Hasle et Heimdal	TPSN	0	7	0	0	2	1	4	0
Ulnaria ulna (Nitzsch.) Compère	UULN	0	2	0	0	3	1	3	5
TOTALE		499	407	408	416	404	537	374	423

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Tabella VII. Elenco dei taxa delle diatomee rinvenute durante il campionamento estivo (n° 9/11).

Achnanthidium pyrenaicum (Hustedt) Kobayasi
Achnanthidium eutrophilum (Lange-Bertalot) Lange-Bertalot
Achnanthidium minutissimum (Kützing) Czarnecki
Adlafia minuscula var. *muralis* (Grunow) Lange-Bertalot
Amphora montana Krasske
Amphora ovalis (Kützing) Kützing
Amphora pediculus (Kützing) Grunow
Brachysira neoexilis Lange-Bertalot
Cymbella excisa Kützing
Caloneis amphisbaena (Bory) Cleve
Cyclotella atomus Hustedt
Caloneis bacillum (Grunow) Cleve
Cyclotella cyclopuncta Hakansson & Carter
Cyclotella comensis Grunow
Cyclotella distinguenda var. *distinguenda* Hustedt
Cymbella hustedtii Krasske
Cyclotella meneghiniana Kützing
Cyclotella ocellata Pantocsek
Cocconeis pediculus Ehrenberg
Cocconeis placentula Ehrenberg var. *placentula*
Cocconeis euglypta Ehrenberg
Cocconeis pseudolineata (Geitler) Lange-Bertalot
Cocconeis placentula Ehrenberg forma teratologica
Cymatopleura solea (Brebisson) W. Smith
Diatoma ehrenbergii Kützing
Diatoma ehrenbergii Kützing forme teratologica
Discostella stelligera (Cleve et Grun.) Houk & Klee
Diatoma vulgaris Bory
Encyonema caespitosum Kützing
Encyonopsis minuta Krammer & Reichardt
Encyonema lange-bertalotii Krammer morphotype 1
Encyonema minutum (Hilse in Rabh.) D.G. Mann
Encyonema ventricosum (Agardh) Grunow
Eolimna comperei Ector Coste et Iserentant
Eolimna minima (Grunow) Lange-Bertalot
EPITHEMIA F.T. Kützing
Encyonema prostratum (Berkeley) Kützing
Eolimna subminuscula (Manguin) Moser Lange-Bertalot & Metzeltin
Eolimna subminuscula (Manguin) Moser Lange-Bertalot & Metzeltin forma teratologica
Encyonema silesiacum (Bleisch in Rabh.) D.G. Mann
Encyonopsis subminuta Krammer & Reichardt
Fragilaria arcus (Ehrenberg) Cleve
Fragilaria crotonensis Kitton
Fragilaria crotonensis Kitton forma teratologica
Fragilaria capucina Desmazieres var. *rumpens* (Kützing) Lange-Bertalot
Fragilaria capucina Desmazieres var *vaucheriae* (Kützing) Lange-Bertalot
Pseudostaurosira elliptica (Schumann) Edlun et al.
Fistulifera pelliculosa (Brebisson) Lange-Bertalot
Fistulifera saprophila (Lange-Bertalot & Bonik) Lange-Bertalot
Fallacia subhamulata (Grunow) D.G. Mann
Geissleria acceptata (Hustedt) Lange-Bertalot & Metzeltin
Geissleria decussis (Ostrup) Lange-Bertalot & Metzeltin
Gomphonema italicum Kützing
Gomphonema minutum (Agardh) Agardh
Gomphonema olivaceum (Hornemann) Brébisson
GOMPHONEMA C.G. Ehrenberg
Gomphonema parvulum (Kützing) Kützing var. *parvulum* f. parvulum
Gomphonema pumilum var. *elegans* Reichardt & Lange-Bertalot
Gomphonema pumilum var. *rigidum* Reichardt & Lange-Bertalot
Gyrosigma obtusatum (Sullivan et Wormley) Boyer
Gyrosigma sciotense (Sullivan et Wormley) Cleve
Gyrosigma kuetzingii (Grunow) Cleve
Hantzschia amphioxys (Ehrenberg) Grunow
Luticola goeppertiana (Bleisch) Mann
Mayamaea atomus (Kützing) Lange-Bertalot
Mayamaea atomus var. *permitis* (Hustedt) Lange-Bertalot
Melosira varians Agardh
Nitzschia acicularis (Kützing) W.M.Smith forma teratologica
Navicula amphiceropsis Lange-Bertalot & Rumrich
Nitzschia acicularis (Kützing) W.M.Smith
Nitzschia amphibia Grunow

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Navicula antonii Lange-Bertalot
Navicula capitaloradiata Germain
Navicula cryptocephala Kützing
Navicula cryptotenella Lange-Bertalot
Navicula cryptotenella Lange-Bertalot forma teratologica
Navicula cryptotenelloides Lange-Bertalot
Navicula caterva Hohn & Hellerman
Nitzschia dissipata (Kützing) Grunow var. *dissipata*
Nitzschia dissipata (Kützing) Grunow forma teratologica
Navicula erifuga Lange-Bertalot
Nitzschia fonticola Grunow
Nitzschia fonticola Grunow forma teratologica
Navicula germainii Wallace
Nitzschia archibaldii Lange-Bertalot
Nitzschia lacuum Lange-Bertalot
Nitzschia intermedia Hantzsch ex Cleve & Grunow
Nitzschia pusilla (Kützing) Grunow
Nitzschia species forma teratologica
Navicula lanceolata (Agardh) Ehrenberg
Nitzschia linearis (Agardh) W.M. Smith var. *linearis*
Navicula notha Wallace
Nitzschia palea (Kützing) W. Smith var. *debilis* (Kützing) Grunow
Nitzschia palea (Kützing) W. Smith
Nitzschia palea (Kützing) W. Smith forma teratologica
Navicula reichardtiana Lange-Bertalot
Navicula recens (Lange-Bertalot) Lange-Bertalot
Nitzschia recta Hantzsch
Navicula rostellata Kützing
Nitzschia sigmoidea (Nitzsch)W. Smith
Nitzschia sociabilis Hustedt
Nitzschia sociabilis Hustedt forma teratologica
Navicula symmetrica Patrick
Navicula tripunctata (O.F Müller) Bory
Navicula trivialis Lange-Bertalot var. trivialis
Navicula veneta Kützing
Navicula viridula (Kützing) Ehrenberg
Navicula associata Lange-Bertalot
Nitzschia supralitorea Lange-Bertalot
Pleurosira laevis (Ehrenberg) Compere
Planothidium frequentissimum (Lange-Bertalot) Lange-Bertalot
Pseudostaurosira parasitica (W.Smith) Morales
Planothidium rostratum (Oestrup) Lange-Bertalot
Pseudostaurosira brevistriata (Grunow) Williams & Round
Rhoicosphenia abbreviata (Agardh) Lange-Bertalot
Reimeria sinuata (Gregory) Kociolek & Stoermer
Reimeria uniseriata Sala Guerrero & Ferrario
Surirella angusta Kützing
Surirella brebissonii var. *kuetzingii* Krammer et Lange-Bertalot
Staurosira construens Ehrenberg
Stephanodiscus hantzschii Grunow
Simonsenia delognei Lange-Bertalot
Sellaphora mutatoides Lange-Bertalot & Metzeltin
Staurosirella pinnata (Ehrenberg) Williams & Round
Sellaphora pupula (Kützing) Mereschkowksy
Sellaphora seminulum (Grunow) D.G. Mann
Staurosira venter (Ehrenberg) Cleve & Moeller
Surirella minuta Brebisson
Tryblionella angustata W. Smith
Tryblionella apiculata Gregory
Thalassiosira pseudonana Hasle et Heimdal
Ulnaria biceps (Kützing) Compère
Ulnaria ulna (Nitzsch.) Compère

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DIATOMEE –INDICI DIATOMICI E INDICE DI DIVERSITA' DI SHANNON

Campagna estiva (n°5/2010)

SITO: 7 DATA: 28/07/2010

IPS	SLA	DESCY	IDAP	GENRE	CEE	SHE	WAT	
14.0	11.2	15.5	12.2	11.3	12.6	14.0	12.1	
TDI	IBD	DI-CH	EPI-D	IDP	LOBO	SID	TID	IDSE/5
69.6	15.1	10.0	11.8	11.2	14.4	14.0	7.2	3.49

QUALITY NOTES / 20

Number of species	54	Diversity	4.89	Genera number	26
Population	421	Evenness	0.85		

Number	o/oo	Code	ou	Designation	* : taxon	IBD	IPS S	IPS V
43	102.14	APED	-	Amphora pediculus (Kützing) Grunow	*	4	1	
32	76.01	ADMI	-	Achnanthidium minutissimum (Kützing) Czarnecki	*	5	1	
30	71.26	FCRO	-	Fragilaria crotonensis Kitton	*	4	1	
23	54.63	NCTO	-	Navicula cryptotenelloides Lange-Bertalot	*	3.5	1	
22	52.26	CPLE	CEUG	Cocconeis placentula Ehrenberg var.euglypta (Ehr.) Grunow	*	3.6	1	
22	52.26	SPIN	-	Staurosirella pinnata (Ehr.) Williams & Round	*	4	1	
22	52.26	SSVE	-	Staurosira venter (Ehr.) Cleve & Moeller	*	4	1	
21	49.88	CCMS	-	Cyclotella comensis Grunow in Van Heurck	*	4	3	
21	49.88	NPAD	-	Nitzschia palea (Kützing) W.Smith var.debilis(Kützing)Grunow in Cl. & Gru	*	3	1	
21	49.88	NDIS	-	Nitzschia dissipata(Kützing)Grunow var.dissipata	*	4.5	3	
17	40.38	DITE	-	Diatoma tenuis Agardh	*	3	1	
17	40.38	NYCO	-	Nitzschia costei Tudesque, Rimet & Ector		4	2	
12	28.50	ESUM	-	Encyonopsis subminuta Krammer & Reichardt	*	5	1	
10	23.75	NVEN	-	Navicula veneta Kützing	*	1	2	
7	16.63	CPED	-	Cocconeis pediculus Ehrenberg	*	4	2	
6	14.25	ESBM	-	Eolimna subminuscula (Manguin) Moser Lange-Bertalot & Metzeltin	*	2	1	
6	14.25	PLFR	-	Planothidium frequentissimum(Lange-Bertalot)Lange-Bertalot	*	3.4	1	
5	11.88	NCOT	TAPI	Nitzschia constricta (Kützing) Ralfs	*	2.4	2	
4	9.50	CPPL	COPL	Cocconeis placentula Ehrenberg var. pseudolineata Geitler	*	5	1	
4	9.50	ECPM	-	Encyonopsis minuta Krammer & Reichardt	*	4	2	
4	9.50	CPPV	-	Cymbella perparva Krammer		5	3	
4	9.50	NPAL	-	Nitzschia palea (Kützing) W.Smith	*	1	3	
4	9.50	NCPR	-	Navicula capitatoradiata Germain	*	3	2	
4	9.50	SSEM	NVDS	Sellaphora seminulum (Grunow) D.G. Mann	*	1.5	2	
4	9.50	CMEN	-	Cyclotella meneghiniana Kützing	*	2	1	
4	9.50	NAMP	-	Nitzschia amphibia Grunow f.amphibia	*	2	2	
3	7.13	TABE	-	TABELLARIA C.G. Ehrenberg				
3	7.13	NILA	-	Nitzschia lacuum Lange-Bertalot	*	5	2	
3	7.13	GPAR	-	Gomphonema parvulum (Kützing) Kützing var. parvulum f. parvulum	*	2	1	
3	7.13	GCLE	-	Gomphonema clevei Fricke	*	5	3	
3	7.13	GMIN	-	Gomphonema minutum(Ag.)Agardh f. minutum	*	4	1	
3	7.13	NFON	-	Nitzschia fonticola Grunow in Cleve et Möller	*	3.5	1	
2	4.75	NPRA	-	Navicula praeterita Hustedt	*	5	1	
2	4.75	NZAG	-	Nitzschia angustatula Lange-Bertalot	*	4	1	
2	4.75	FSAP	-	Fistulifera saprophila (Lange-Bertalot & Bonik) Lange-Bertalot	*	2	1	
2	4.75	MAPE	MPMI	Mayamaea atomus var. permitis (Hustedt) Lange-Bertalot	*	2.3	1	
2	4.75	FELL	PSSE	Fragilaria elliptica Schumann (Staurosira)	*	3	1	
2	4.75	EOMI	SEMN	Eolimna minima(Grunow) Lange-Bertalot	*	3	1	
2	4.75	FSBH	-	Fallacia subhamulata (Grunow in V. Heurck) D.G. Mann	*	4	1	
2	4.75	NANT	-	Navicula antonii Lange-Bertalot	*	4	1	
2	4.75	NRCH	-	Navicula reichardtiana Lange-Bertalot var. reichardtiana	*	3.6	1	
2	4.75	PTLA	-	Planothidium lanceolatum(Brebisson ex Kützing) Lange-Bertalot	*	4.6	1	
Omnidia 5.3								2
2	4.75	DCOT	-	Diadesmis contenta (Grunow ex V. Heurck) Mann	*	3.5	1	
2	4.75	ADBI	-	Achnanthidium biasolettianum (Grunow in Cl. & Grun.) Lange-Bertalot	*	5	2	
1	2.38	CRCU	-	Craticula cuspidata (Kützing) Mann	*	2.6	3	
1	2.38	DVUL	-	Diatoma vulgaris Bory	*	4	1	
1	2.38	ECAE	-	Encyonema caespitosum Kützing	*	4	2	
1	2.38	NLIN	-	Nitzschia linearis(Agardh) W.M.Smith var.linearis	*	3	2	
1	2.38	FNAN	-	Fragilaria nanana Lange-Bertalot	*	5	2	
1	2.38	CPOL	-	Cyclotella polymorpha Meyer & Hakansson	*	2	3	
1	2.38	NCTE	-	Navicula cryptotenella Lange-Bertalot	*	4	1	
1	2.38	NGRE	-	Navicula gregaria Donkin	*	3.4	1	
1	2.38	SACU	UUAC	Synedra acus Kützing		4	1	
1	2.38	UULN	-	Ulnaria ulna (Nitzsch.) Compère	*	3	1	

IDSE/5 3.49

degradation moderate

organic pollution non-existent

anthropogenic eutrophication low

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SITO: 8 DATA: 28/07/2010

IPS	SLA	DESCY	IDAP	GENRE	CEE	SHE	WAT	
14.5	13.1	16.8	13.9	10.9	13.7	15.0	14.1	
TDI	IBD	DI-CH	EPI-D	IDP	LOBO	SID	TID	IDSE/5
62.0	15.3	11.5	12.4	14.0	13.8	14.4	8.6	3.77

QUALITY NOTES / 20

Number of species	37	Diversity	4.42	Genera number	19
Population	406	Evenness	0.85		

Number	o/oo	Code	ou	Designation	* : taxon	IBD	IPS S	IPS V
59	145.32	NFON	-	Nitzschia fonticola Grunow in Cleve et Möller	*		3.5	1
46	113.30	ADMI	-	Achnanthidium minutissimum (Kützing) Czarnecki	*		5	1
25	61.58	NDIS	-	Nitzschia dissipata(Kützing)Grunow var.dissipata	*		4.5	3
25	61.58	NCTO	-	Navicula cryptotenelloides Lange-Bertalot	*		3.5	1
25	61.58	SSVE	-	Staurosira venter (Ehr.) Cleve & Moeller	*		4	1
24	59.11	NCTV	-	Navicula caterva Hohn & Hellerman	*		3	1
21	51.72	DITE	-	Diatoma tenuis Agardh	*		3	1
19	46.80	APED	-	Amphora pediculus (Kützing) Grunow	*		4	1
19	46.80	NCTE	-	Navicula cryptotenella Lange-Bertalot	*		4	1
15	36.95	NCPR	-	Navicula capitatoradiata Germain	*		3	2
14	34.48	SCON	-	Staurosira construens Ehrenberg	*		4	1
13	32.02	NILA	-	Nitzschia lacuum Lange-Bertalot	*		5	2
12	29.56	SPIN	-	Staurosirella pinnata (Ehr.) Williams & Round	*		4	1
11	27.09	NANT	-	Navicula antonii Lange-Bertalot	*		4	1
11	27.09	CPED	-	Cocconeis pediculus Ehrenberg	*		4	2
11	27.09	EOMI	SEMN	Eolimna minima(Grunow) Lange-Bertalot	*		3	1
6	14.78	ECPM	-	Encyonopsis minuta Krammer & Reichardt	*		4	2
6	14.78	CPLE	CEUG	Cocconeis placentula Ehrenberg var.euglypta (Ehr.) Grunow	*		3.6	1
5	12.32	ESUM	-	Encyonopsis subminuta Krammer & Reichardt	*		5	1
4	9.85	CCMS	-	Cyclotella comensis Grunow in Van Heurck	*		4	3
4	9.85	SACU	UUAC	Synedra acus Kützing			4	1
4	9.85	FPCO	SPCO	Fragilaria pseudoconstruens Marciniak			4	1
3	7.39	NPAD	-	Nitzschia palea (Kützing) W.Smith var.debilis(Kützing)Grunow in Cl. & Gru	*		3	1
3	7.39	SPIT	-	Staurosirella pinnata (Ehr.) Williams & Round abnormal fo.	*		1	3
2	4.93	FCRO	-	Fragilaria crotonensis Kitton	*		4	1
2	4.93	TABE	-	TABELLARIA C.G. Ehrenberg				
2	4.93	AMMO	-	Amphora montana Krasske	*		2.8	1
2	4.93	DEHR	-	Diatoma ehrenbergii Kützing	*		4	3
2	4.93	NPAL	-	Nitzschia palea (Kützing) W.Smith	*		1	3
2	4.93	GNOD	GSCI	Gyrosigma nodiferum (Grunow) Reimer	*		4	3
2	4.93	NTPT	-	Navicula tripunctata (O.F.Müller) Bory	*		4.4	2
2	4.93	NAMP	-	Nitzschia amphibia Grunow f.amphibia	*		2	2
1	2.46	CHAK	-	Cyclotella hakanssoniae Wendker	*		2	2
1	2.46	RSIN	-	Reimeria sinuata (Gregory) Kociolek & Stoermer	*		4.8	1
1	2.46	UULN	-	Ulnaria ulna (Nitzsch.) Compère	*		3	1
1	2.46	CPTG	-	Cocconeis placentula Ehrenberg abnormal form	*		1	3
1	2.46	MAPE	MPMI	Mayamaea atomus var. permitis (Hustedt) Lange-Bertalot	*		2.3	1

IDSE/5 3.77

degradation low

organic pollution non-existent

anthropogenic eutrophication low

Omnidia 5.3

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SITO: 24 DATA: 28/07/2010

IPS	SLA	DESCY	IDAP	GENRE	CEE	SHE	WAT	
14.5	12.8	17.6	13.5	10.1	14.5	14.5	13.8	
TDI	IBD	DI-CH	EPI-D	IDP	LOBO	SID	TID	IDSE/5
63.2	15.2	12.3	12.3	12.0	14.7	14.7	7.8	3.76

QUALITY NOTES / 20

Number of species	43	Diversity	4.20	Genera number	23
Population	465	Evenness	0.77		

Number	o/oo	Code	ou	Designation	* : taxon	IBD	IPS S	IPS V
98	210.75	NYCO	-	Nitzschia costei Tudesque, Rimet & Ector			4	2
56	120.43	CPLE	CEUG	Cocconeis placentula Ehrenberg var.euglypta (Ehr.) Grunow	*		3.6	1
38	81.72	NCPR	-	Navicula capitatoradiata Germain	*		3	2
38	81.72	NCTO	-	Navicula cryptotenelloides Lange-Bertalot	*		3.5	1
28	60.22	ADMI	-	Achnanthidium minutissimum (Kützing) Czarnecki	*		5	1
24	51.61	NCTE	-	Navicula cryptotenella Lange-Bertalot	*		4	1
20	43.01	DITE	-	Diatoma tenuis Agardh	*		3	1
15	32.26	FCRO	-	Fragilaria crotonensis Kitton	*		4	1
14	30.11	SCON	-	Staurosira construens Ehrenberg	*		4	1
14	30.11	CCMS	-	Cyclotella comensis Grunow in Van Heurck	*		4	3
14	30.11	NDIS	-	Nitzschia dissipata(Kützing)Grunow var.dissipata	*		4.5	3
12	25.81	NRCH	-	Navicula reichardtiana Lange-Bertalot var. reichardtiana	*		3.6	1
12	25.81	GMIN	-	Gomphonema minutum(Ag.)Agardh f. minutum	*		4	1
11	23.66	CPED	-	Cocconeis pediculus Ehrenberg	*		4	2
9	19.35	SPIN	-	Staurosirella pinnata (Ehr.) Williams & Round	*		4	1
8	17.20	APED	-	Amphora pediculus (Kützing) Grunow	*		4	1
7	15.05	PSBR	SBRV	Pseudostaurosira brevistriata (Grun.in Van Heurck) Williams & Round	*		3	1
4	8.60	NANT	-	Navicula antonii Lange-Bertalot	*		4	1
4	8.60	NILA	-	Nitzschia lacuum Lange-Bertalot	*		5	2
4	8.60	CPPL	COPL	Cocconeis placentula Ehrenberg var. pseudolineata Geitler	*		5	1
3	6.45	UULN	-	Ulnaria ulna (Nitzsch.) Compère	*		3	1
3	6.45	NPAD	-	Nitzschia palea (Kützing) W.Smith var.debilis(Kützing)Grunow in Cl. & Gru	*		3	1
2	4.30	NCTV	-	Navicula caterva Hohn & Hellerman	*		3	1
2	4.30	NINC	-	Nitzschia inconspicua Grunow	*		2.8	1
2	4.30	SACU	UUAC	Synedra acus Kützing			4	1
2	4.30	MAAT	-	Mayamaea atomus (Kützing) Lange-Bertalot	*		2.2	1
2	4.30	NCRY	-	Navicula cryptocephala Kützing	*		3.5	2
2	4.30	FCVA	-	Fragilaria capucina Desmazieres var.vaucheriae(Kützing)Lange-Bertalot	*		3.4	1
2	4.30	DEHR	-	Diatoma ehrenbergii Kützing	*		4	3
2	4.30	ADMF	ACAF	Achnanthidium minutissima (Kütz.)Czarn.var. affinis(Grun.) Bukht.	*		5	1
1	2.15	TFLO	-	Tabellaria flocculosa(Roth)Kützing	*		5	1
1	2.15	ADMT	-	Achnanthidium minutissimum (Kütz.) Czarnecki abnormal form	*		1	3
1	2.15	CAEX	-	Cymbella excisa Kützing var. excisa	*		4	2
1	2.15	DTEN	-	Denticula tenuis Kützing	*		5	3
1	2.15	ECAE	-	Encyonema caespitosum Kützing	*		4	2
1	2.15	ESLE	-	Encyonema silesiacum (Bleisch in Rabh.) D.G. Mann	*		5	2
1	2.15	ECPM	-	Encyonopsis minuta Krammer & Reichardt	*		4	2
1	2.15	EOMI	SEMN	Eolimna minima(Grunow) Lange-Bertalot	*		3	1
1	2.15	FCRU	FRUM	Fragilaria capucina Desmazieres var. rumpens (Kützing) Lange-Bertalot	*		4	1
1	2.15	SPUP	-	Sellaphora pupula (Kützing) Mereschkowksy	*		2.6	2
1	2.15	GMIC	-	Gomphonema micropus Kützing var. micropus	*		3	1
1	2.15	NIAR	-	Nitzschia archibaldii Lange-Bertalot	*		3.8	2
Omnidia 5.3								2
1	2.15	SSVE	-	Staurosira venter (Ehr.) Cleve & Moeller	*		4	1

IDSE/5 3.76

degradation low

organic pollution non-existent

anthropogenic eutrophication low

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SITO: 26 DATA: 28/07/2010

IPS	SLA	DESCY	IDAP	GENRE	CEE	SHE	WAT	
13.8	12.2	16.5	14.4	12.8	14.7	14.6	16.5	
TDI	IBD	DI-CH	EPI-D	IDP	LOBO	SID	TID	IDSE/5
49.2	15.3	11.6	13.4	12.9	16.1	13.4	8.3	3.87

QUALITY NOTES / 20

Number of species	37	Diversity	3.83	Genera number	18
Population	427	Evenness	0.74		

Number	o/oo	Code	ou	Designation	* : taxon	IBD	IPS S	IPS V
102	238.88	ADMI	-	Achnanthidium minutissimum (Kützing) Czarnecki	*		5	1
84	196.72	CPLE	CEUG	Cocconeis placentula Ehrenberg var.euglypta (Ehr.) Grunow	*		3.6	1
54	126.46	NCPR	-	Navicula capitatoradiata Germain	*		3	2
29	67.92	NCTO	-	Navicula cryptotenelloides Lange-Bertalot	*		3.5	1
19	44.50	NFON	-	Nitzschia fonticola Grunow in Cleve et Möller	*		3.5	1
13	30.44	NDIS	-	Nitzschia dissipata(Kützing)Grunow var.dissipata	*		4.5	3
12	28.10	NPAD	-	Nitzschia palea (Kützing) W.Smith var.debilis(Kützing)Grunow in Cl. & Gru	*		3	1
11	25.76	DITE	-	Diatoma tenuis Agardh	*		3	1
11	25.76	NYCO	-	Nitzschia costei Tudesque, Rimet & Ector			4	2
9	21.08	NANT	-	Navicula antonii Lange-Bertalot	*		4	1
8	18.74	ENLB	-	Encyonema lange-bertalotii Krammer morphotype 1	*		4	1
6	14.05	APED	-	Amphora pediculus (Kützing) Grunow	*		4	1
5	11.71	CPED	-	Cocconeis pediculus Ehrenberg	*		4	2
5	11.71	NCTE	-	Navicula cryptotenella Lange-Bertalot	*		4	1
5	11.71	SPIN	-	Staurosirella pinnata (Ehr.) Williams & Round	*		4	1
5	11.71	ECPM	-	Encyonopsis minuta Krammer & Reichardt	*		4	2
4	9.37	NILA	-	Nitzschia lacuum Lange-Bertalot	*		5	2
4	9.37	FCVA	-	Fragilaria capucina Desmazieres var.vaucheriae(Kützing)Lange-Bertalot	*		3.4	1
4	9.37	CPTG	-	Cocconeis placentula Ehrenberg abnormal form	*		1	3
3	7.03	CCMS	-	Cyclotella comensis Grunow in Van Heurck	*		4	3
3	7.03	NCTG	-	Navicula cryptotenella Lange-Bertalot abnormal fo.	*		1	3
3	7.03	FCRO	-	Fragilaria crotonensis Kitton	*		4	1
3	7.03	NRCH	-	Navicula reichardtiana Lange-Bertalot var. reichardtiana	*		3.6	1
3	7.03	CMEN	-	Cyclotella meneghiniana Kützing	*		2	1
2	4.68	PSBR	SBRV	Pseudostaurosira brevistriata (Grun.in Van Heurck) Williams & Round	*		3	1
2	4.68	TABE	-	TABELLARIA C.G. Ehrenberg				
2	4.68	NCTV	-	Navicula caterva Hohn & Hellerman	*		3	1
2	4.68	MAPE	MPMI	Mayamaea atomus var. permitis (Hustedt) Lange-Bertalot	*		2.3	1
2	4.68	FCVT	-	Fragilaria capucina var.vaucheriae(Kütz.)Lange-Bertalot abnormal form	*		1	3
2	4.68	RSIN	-	Reimeria sinuata (Gregory) Kociolek & Stoermer	*		4.8	1
2	4.68	NIAR	-	Nitzschia archibaldii Lange-Bertalot	*		3.8	2
2	4.68	NTPT	-	Navicula tripunctata (O.F.Müller) Bory	*		4.4	2
2	4.68	GPAR	-	Gomphonema parvulum (Kützing) Kützing var. parvulum f. parvulum	*		2	1
1	2.34	NPAL	-	Nitzschia palea (Kützing) W.Smith	*		1	3
1	2.34	CBAC	-	Caloneis bacillum (Grunow) Cleve	*		4	2
1	2.34	ESUM	-	Encyonopsis subminuta Krammer & Reichardt	*		5	1
1	2.34	DVUL	-	Diatoma vulgaris Bory	*		4	1

IDSE/5 3.87

degradation low

organic pollution non-existent

anthropogenic eutrophication low

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SITO: 44 DATA: 28/07/2010

IPS	SLA	DESCY	IDAP	GENRE	CEE	SHE	WAT	
16.4	13.9	16.0	17.2	14.4	16.0	16.0	19.1	
TDI	IBD	DI-CH	EPI-D	IDP	LOBO	SID	TID	IDSE/5
49.1	17.3	13.4	16.1	14.2	18.8	13.8	11.3	4.20

QUALITY NOTES / 20

Number of species	32	Diversity	3.05	Genera number	13
Population	465	Evenness	0.61		

Number	o/oo	Code	ou	Designation	* : taxon	IBD	IPS S	IPS V
212	455.91	ADMI	-	Achnanthidium minutissimum (Kützing) Czarnecki	*		5	1
45	96.77	APED	-	Amphora pediculus (Kützing) Grunow	*		4	1
41	88.17	RSIN	-	Reimeria sinuata (Gregory) Kociolek & Stoermer	*		4.8	1
39	83.87	NFON	-	Nitzschia fonticola Grunow in Cleve et Möller	*		3.5	1
25	53.76	CAEX	-	Cymbella excisa Kützing var. excisa	*		4	2
19	40.86	CPLE	CEUG	Cocconeis placentula Ehrenberg var.euglypta (Ehr.) Grunow	*		3.6	1
16	34.41	ADBI	-	Achnanthidium biasolettianum (Grunow in Cl. & Grun.) Lange-Bertalot	*		5	2
15	32.26	NCTE	-	Navicula cryptotenella Lange-Bertalot	*		4	1
5	10.75	GPAR	-	Gomphonema parvulum (Kützing) Kützing var. parvulum f. parvulum	*		2	1
4	8.60	NPNU	-	Navicula perminuta Grunow in Van Heurck	*		2	2
4	8.60	GTER	-	Gomphonema tergestinum Fricke	*		4	3
4	8.60	MVAR	-	Melosira varians Agardh	*		4	1
4	8.60	ENLB	-	Encyonema lange-bertalotii Krammer morphotype 1	*		4	1
3	6.45	NILA	-	Nitzschia lacuum Lange-Bertalot	*		5	2
3	6.45	ADBT	-	Achnanthidium biasolettianum(Grunow)Lange-Bertalot abnormal form	*		1	3
3	6.45	NCTO	-	Navicula cryptotenelloides Lange-Bertalot	*		3.5	1
3	6.45	FCVA	-	Fragilaria capucina Desmazieres var.vaucheriae(Kützing)Lange-Bertalot	*		3.4	1
2	4.30	NRCF	-	Navicula reichardtiana Lange-Bertalot abnormal form	*		1	3
2	4.30	CEXF	-	Cymbella excisiformis Krammer var.excisiformis			5	1
2	4.30	NANT	-	Navicula antonii Lange-Bertalot	*		4	1
2	4.30	CPTG	-	Cocconeis placentula Ehrenberg abnormal form	*		1	3
2	4.30	GPRI	-	Gomphonema pumilum var. rigidum Reichardt & Lange-Bertalot	*		3.5	1
1	2.15	EOMT	-	Eolimna minima(Grunow) Lange-Bertalot abnormal form	*		1	3
1	2.15	ESBM	-	Eolimna subminuscula (Manguin) Moser Lange-Bertalot & Metzeltin	*		2	1
1	2.15	FCVT	-	Fragilaria capucina var.vaucheriae(Kütz.)Lange-Bertalot abnormal form	*		1	3
1	2.15	NPAL	-	Nitzschia palea (Kützing) W.Smith	*		1	3
1	2.15	NPAD	-	Nitzschia palea (Kützing) W.Smith var.debilis(Kützing)Grunow in Cl. & Gru	*		3	1
1	2.15	NDIS	-	Nitzschia dissipata(Kützing)Grunow var.dissipata	*		4.5	3
1	2.15	NTPT	-	Navicula tripunctata (O.F.Müller) Bory	*		4.4	2
1	2.15	NCPR	-	Navicula capitatoradiata Germain	*		3	2
1	2.15	GPAT	-	Gomphonema parvulum Kützing abnormal form	*		1	3
1	2.15	ESLE	-	Encyonema silesiacum (Bleisch in Rabh.) D.G. Mann	*		5	2

IDSE/5 4.20

degradation low

organic pollution non-existent

anthropogenic eutrophication non-existent

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SITO: 53 DATA: 28/07/2010

IPS	SLA	DESCY	IDAP	GENRE	CEE	SHE	WAT	
11.6	10.8	14.9	12.0	10.5	11.1	12.9	12.0	
TDI	IBD	DI-CH	EPI-D	IDP	LOBO	SID	TID	IDSE/5
77.0	13.1	9.6	10.6	10.6	13.8	12.3	6.3	3.53

QUALITY NOTES / 20

Number of species	54	Diversity	4.92	Genera number	27
Population	416	Evenness	0.85		

Number	o/oo	Code	ou	Designation	* : taxon	IBD	IPS S	IPS V
41	98.56	NSOC	-	Nitzschia sociabilis Hustedt	*		3	3
41	98.56	NCTE	-	Navicula cryptotenella Lange-Bertalot	*		4	1
36	86.54	CPLE	CEUG	Cocconeis placentula Ehrenberg var.euglypta (Ehr.) Grunow	*		3.6	1
23	55.29	MVAR	-	Melosira varians Agardh	*		4	1
21	50.48	NCPR	-	Navicula capitatoradiata Germain	*		3	2
20	48.08	APED	-	Amphora pediculus (Kützing) Grunow	*		4	1
19	45.67	NROS	-	Navicula rostellata Kützing	*		3	3
19	45.67	UULN	-	Ulnaria ulna (Nitzsch.) Compère	*		3	1
17	40.87	NDIS	-	Nitzschia dissipata(Kützing)Grunow var.dissipata	*		4.5	3
12	28.85	NTPT	-	Navicula tripunctata (O.F.Müller) Bory	*		4.4	2
11	26.44	NPAL	-	Nitzschia palea (Kützing) W.Smith	*		1	3
11	26.44	NPAD	-	Nitzschia palea (Kützing) W.Smith var.debilis(Kützing)Grunow in Cl. & Gru	*		3	1
10	24.04	NAAM	-	Navicula amphiceropsis Lange-Bertalot & Rumrich	*		3	3
10	24.04	GPAR	-	Gomphonema parvulum (Kützing) Kützing var. parvulum f. parvulum	*		2	1
9	21.63	ADMI	-	Achnanthidium minutissimum (Kützing) Czarnecki	*		5	1
9	21.63	UBIC	-	Ulnaria biceps (Kützing) Compère	*		3	1
8	19.23	GNOD	GSCI	Gyrosigma nodiferum (Grunow) Reimer	*		4	3
8	19.23	NGER	-	Navicula germainii Wallace	*		3	2
7	16.83	NANT	-	Navicula antonii Lange-Bertalot	*		4	1
6	14.42	SCON	-	Staurosira construens Ehrenberg	*		4	1
6	14.42	CMEN	-	Cyclotella meneghiniana Kützing	*		2	1
5	12.02	EOMI	SEMN	Eolimna minima(Grunow) Lange-Bertalot	*		3	1
4	9.62	CSOL	-	Cymatopleura solea (Brebisson in Breb. & Godey) W.Smith var.solea	*		4	2
4	9.62	AMMO	-	Amphora montana Krasske	*		2.8	1
4	9.62	NFON	-	Nitzschia fonticola Grunow in Cleve et Möller	*		3.5	1
4	9.62	RSIN	-	Reimeria sinuata (Gregory) Kociolek & Stoermer	*		4.8	1
3	7.21	SSEM	NVDS	Sellaphora seminulum (Grunow) D.G. Mann	*		1.5	2
3	7.21	GSPE	-	Gyrosigma spencerii (Quekett) Griffith et Henfrey	*		4	3
3	7.21	NIAR	-	Nitzschia archibaldii Lange-Bertalot	*		3.8	2
3	7.21	DVUL	-	Diatoma vulgaris Bory	*		4	1
2	4.81	SLIN	-	Surirella linearis W.M.Smith	*		5	2
2	4.81	ENLB	-	Encyonema lange-bertalotii Krammer morphotype 1	*		4	1
2	4.81	GPRI	-	Gomphonema pumilum var. rigidum Reichardt & Lange-Bertalot	*		3.5	1
2	4.81	CATO	-	Cyclotella atomus Hustedt	*		2	1
2	4.81	NCOT	TAPI	Nitzschia constricta (Kützing) Ralfs	*		2.4	2
2	4.81	CAEX	-	Cymbella excisa Kützing var. excisa	*		4	2
2	4.81	CPTG	-	Cocconeis placentula Ehrenberg abnormal form	*		1	3
2	4.81	ADMT	-	Achnanthidium minutissimum (Kütz.) Czarnecki abnormal form	*		1	3
2	4.81	EOMT	-	Eolimna minima(Grunow) Lange-Bertalot abnormal form	*		1	3
2	4.81	NVEN	-	Navicula veneta Kützing	*		1	2
2	4.81	NVTG	-	Navicula veneta Kützing abnormal fo.	*		1	3
2	4.81	NLIN	-	Nitzschia linearis(Agardh) W.M.Smith var.linearis	*		3	2
Omnidia 5.3								
2	4.81	PLFR	-	Planothidium frequentissimum(Lange-Bertalot)Lange-Bertalot	*		3.4	1
2	4.81	LGOE	-	Luticola goeppertiana (Bleisch in Rabenhorst) D.G. Mann	*		2	2
2	4.81	RABB	-	Rhoicosphenia abbreviata (C.Agardh) Lange-Bertalot	*		4	1
1	2.40	TABE	-	TABELLARIA C.G. Ehrenberg				
1	2.40	RUNI	-	Reimeria uniseriata Sala Guerrero & Ferrario	*		5	1
1	2.40	ADMM	AMUR	Adlafia minuscula var. muralis (Grunow) Lange-Bertalot	*		2	1
1	2.40	NERI	-	Navicula erifuga Lange-Bertalot	*		2	3
1	2.40	FSBH	-	Fallacia subhamulata (Grunow in V. Heurck) D.G. Mann	*		4	1
1	2.40	CPED	-	Cocconeis pediculus Ehrenberg	*		4	2
1	2.40	SPUP	-	Sellaphora pupula (Kützing) Mereschkowksy	*		2.6	2
1	2.40	NTRV	-	Navicula trivialis Lange-Bertalot var. trivialis	*		2	3
1	2.40	SPIN	-	Staurosirella pinnata (Ehr.) Williams & Round	*		4	1

IDSE/5 3.53

degradation low

organic pollution low

anthropogenic eutrophication moderate

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SITO: 59 DATA: 28/07/2010

IPS	SLA	DESCY	IDAP	GENRE	CEE	SHE	WAT	
8.3	9.2	8.0	11.5	8.7	6.7	11.2	8.0	
TDI	IBD	DI-CH	EPI-D	IDP	LOBO	SID	TID	IDSE/5
78.3	10.8	6.9	8.8	7.8	14.8	9.8	5.4	2.80

QUALITY NOTES / 20

Number of species	48	Diversity	4.47	Genera number	22
Population	453	Evenness	0.80		

Number	o/oo	Code	ou	Designation	* : taxon	IBD	IPS S	IPS V
70	154.53	NPAL	-	Nitzschia palea (Kützing) W.Smith	*	1		3
50	110.38	NPAD	-	Nitzschia palea (Kützing) W.Smith var.debilis(Kützing)Grunow in Cl. & Gru	*	3		1
49	108.17	NAAM	-	Navicula amphiceropsis Lange-Bertalot & Rumrich	*	3		3
42	92.72	MVAR	-	Melosira varians Agardh	*	4		1
27	59.60	NROS	-	Navicula rostellata Kützing	*	3		3
25	55.19	UULN	-	Ulnaria ulna (Nitzsch.) Compère	*	3		1
22	48.57	CMEN	-	Cyclotella meneghiniana Kützing	*	2		1
17	37.53	UBIC	-	Ulnaria biceps (Kützing) Compère	*	3		1
13	28.70	APED	-	Amphora pediculus (Kützing) Grunow	*	4		1
10	22.08	NGER	-	Navicula germainii Wallace	*	3		2
9	19.87	ADMI	-	Achnanthidium minutissimum (Kützing) Czarnecki	*	5		1
8	17.66	EOMI	SEMN	Eolimna minima(Grunow) Lange-Bertalot	*	3		1
8	17.66	CSOL	-	Cymatopleura solea (Brebisson in Breb. & Godey) W.Smith var.solea	*	4		2
7	15.45	NCTE	-	Navicula cryptotenella Lange-Bertalot	*	4		1
7	15.45	NCPR	-	Navicula capitatoradiata Germain	*	3		2
7	15.45	GSTR	-	Gyrosigma strigilis (W.Smith) Cleve		2		2
6	13.25	TANG	-	Tryblionella angustata Wm Smith	*	2.3		2
6	13.25	NFON	-	Nitzschia fonticola Grunow in Cleve et Möller	*	3.5		1
5	11.04	ESBM	-	Eolimna subminuscula (Manguin) Moser Lange-Bertalot & Metzeltin	*	2		1
5	11.04	NVIR	-	Navicula viridula (Kützing) Ehrenberg	*	3		3
4	8.83	NSIO	-	Nitzschia sigmoidea (Nitzsch)W. Smith	*	3		2
4	8.83	SPUP	-	Sellaphora pupula (Kützing) Mereschkowksy	*	2.6		2
4	8.83	CPLE	CEUG	Cocconeis placentula Ehrenberg var.euglypta (Ehr.) Grunow	*	3.6		1
4	8.83	CPED	-	Cocconeis pediculus Ehrenberg	*	4		2
4	8.83	AVEN	-	Amphora veneta Kützing	*	1		2
3	6.62	ENLB	-	Encyonema lange-bertalotii Krammer morphotype 1	*	4		1
3	6.62	SLIN	-	Surirella linearis W.M.Smith	*	5		2
3	6.62	NTPT	-	Navicula tripunctata (O.F.Müller) Bory	*	4.4		2
3	6.62	NDIS	-	Nitzschia dissipata(Kützing)Grunow var.dissipata	*	4.5		3
2	4.42	UULT	-	Ulnaria ulna (Nitzsch.) Compère abnormal form	*	1		3
2	4.42	NTTT	-	Navicula tripunctata (O.F.M.) Bory forme teratogene	*	1		3
2	4.42	EOMT	-	Eolimna minima(Grunow) Lange-Bertalot abnormal form	*	1		3
2	4.42	CPLI	-	Cocconeis placentula Ehrenberg var.lineata (Ehr.)Van Heurck	*	4		1
2	4.42	DVUL	-	Diatoma vulgaris Bory	*	4		1
2	4.42	NACI	-	Nitzschia acicularis(Kützing) W.M.Smith	*	2		2
2	4.42	FCRU	FRUM	Fragilaria capucina Desmazieres var. rumpens (Kützing) Lange-Bertalot	*	4		1
2	4.42	GPAR	-	Gomphonema parvulum (Kützing) Kützing var. parvulum f. parvulum	*	2		1
2	4.42	NPAE	-	Nitzschia paleacea (Grunow) Grunow in van Heurck	*	2.5		1
1	2.21	NCPL	-	Nitzschia capitellata Hustedt in A.Schmidt & al.	*	1		3
1	2.21	AMMO	-	Amphora montana Krasske	*	2.8		1
1	2.21	FTEN	-	Fragilaria tenera (W.Smith) Lange-Bertalot	*	4		2
1	2.21	ADBI	-	Achnanthidium biasolettianum (Grunow in Cl. & Grun.) Lange-Bertalot	*	5		2
Omnidia 5.3								2
1	2.21	NERI	-	Navicula erifuga Lange-Bertalot	*	2		3
1	2.21	RSIN	-	Reimeria sinuata (Gregory) Kociolek & Stoermer	*	4.8		1
1	2.21	TABE	-	TABELLARIA C.G. Ehrenberg				
1	2.21	NGRE	-	Navicula gregaria Donkin	*	3.4		1
1	2.21	HAMP	-	Hantzschia amphioxys (Ehr.) Grunow in Cleve et Grunow 1880	*	1.5		3
1	2.21	CATO	-	Cyclotella atomus Hustedt	*	2		1

IDSE/5 2.80

degradation high
organic pollution moderate
anthropogenic eutrophication non-existent

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SITO: 63 DATA: 28/07/2010

IPS	SLA	DESCY	IDAP	GENRE	CEE	SHE	WAT	
8.6	9.0	8.6	10.5	9.6	6.5	10.8	7.6	
TDI	IBD	DI-CH	EPI-D	IDP	LOBO	SID	TID	IDSE/5
80.7	10.8	6.6	8.0	8.0	12.8	9.8	5.5	2.78

QUALITY NOTES / 20

Number of species	49	Diversity	4.61	Genera number	27
Population	424	Evenness	0.82		

Number	o/oo	Code	ou	Designation	* : taxon	IBD	IPS S	IPS V
54	127.36	NPAL	-	Nitzschia palea (Kützing) W.Smith	*		1	3
44	103.77	NPAD	-	Nitzschia palea (Kützing) W.Smith var.debilis(Kützing)Grunow in Cl. & Gru	*		3	1
37	87.26	CMEN	-	Cyclotella meneghiniana Kützing	*		2	1
34	80.19	MVAR	-	Melosira varians Agardh	*		4	1
31	73.11	NROS	-	Navicula rostellata Kützing	*		3	3
22	51.89	NAAM	-	Navicula amphiceropsis Lange-Bertalot & Rumrich	*		3	3
20	47.17	NCPR	-	Navicula capitatoradiata Germain	*		3	2
15	35.38	UULN	-	Ulnaria ulna (Nitzsch.) Compère	*		3	1
14	33.02	NGER	-	Navicula germainii Wallace	*		3	2
13	30.66	EOMI	SEMN	Eolimna minima(Grunow) Lange-Bertalot	*		3	1
11	25.94	ESBM	-	Eolimna subminuscula (Manguin) Moser Lange-Bertalot & Metzeltin	*		2	1
11	25.94	CSOL	-	Cymatopleura solea (Brebisson in Breb. & Godey) W.Smith var.solea	*		4	2
11	25.94	GSTR	-	Gyrosigma strigilis (W.Smith) Cleve			2	2
10	23.58	APED	-	Amphora pediculus (Kützing) Grunow	*		4	1
9	21.23	UBIC	-	Ulnaria biceps (Kützing) Compère	*		3	1
9	21.23	NCTE	-	Navicula cryptotenella Lange-Bertalot	*		4	1
8	18.87	NDIS	-	Nitzschia dissipata(Kützing)Grunow var.dissipata	*		4.5	3
7	16.51	CATO	-	Cyclotella atomus Hustedt	*		2	1
5	11.79	ENLB	-	Encyonema lange-bertalotii Krammer morphotype 1	*		4	1
5	11.79	RSIN	-	Reimeria sinuata (Gregory) Kociolek & Stoermer	*		4.8	1
5	11.79	SPUP	-	Sellaphora pupula (Kützing) Mereschkowksy	*		2.6	2
4	9.43	CPLE	CEUG	Cocconeis placentula Ehrenberg var.euglypta (Ehr.) Grunow	*		3.6	1
4	9.43	SLIN	-	Surirella linearis W.M.Smith	*		5	2
3	7.08	NERI	-	Navicula erifuga Lange-Bertalot	*		2	3
3	7.08	GPAR	-	Gomphonema parvulum (Kützing) Kützing var. parvulum f. parvulum	*		2	1
3	7.08	SGRA	-	Surirella gracilis Grunow				
2	4.72	FPYG	-	Fallacia pygmaea (Kützing) Stickle & Mann ssp.pygmaea Lange-Bertalot	*		2	3
2	4.72	ECPM	-	Encyonopsis minuta Krammer & Reichardt	*		4	2
2	4.72	NLSU	-	Nitzschia linearis(Agardh) W.M.Smith var.subtilis(Grunow) Hustedt	*		3	3
2	4.72	NANT	-	Navicula antonii Lange-Bertalot	*		4	1
2	4.72	NGRE	-	Navicula gregaria Donkin	*		3.4	1
2	4.72	NVEN	-	Navicula veneta Kützing	*		1	2
2	4.72	RABB	-	Rhoicosphenia abbreviata (C.Agardh) Lange-Bertalot	*		4	1
2	4.72	PLFR	-	Planothidium frequentissimum(Lange-Bertalot)Lange-Bertalot	*		3.4	1
2	4.72	GMIN	-	Gomphonema minutum(Ag.)Agardh f. minutum	*		4	1
1	2.36	CBAM	-	Cymbopleura amphicephala Krammer	*		4	1
1	2.36	ADMT	-	Achnanthidium minutissimum (Kütz.) Czarnecki abnormal form	*		1	3
1	2.36	GSCA	GYOB	Gyrosigma scalproides (Rabenhorst)Cleve	*		2.8	3
1	2.36	UULT	-	Ulnaria ulna (Nitzsch.) Compère abnormal form	*		1	3
1	2.36	NPTR	-	Nitzschia palea (Kützing) W.Smith abnormal fo.	*		1	3
1	2.36	NTTT	-	Navicula tripunctata (O.F.M.) Bory forme teratogene	*		1	3
1	2.36	SPIN	-	Staurosirella pinnata (Ehr.) Williams & Round	*		4	1
Omnidia 5.3								
1	2.36	NSOC	-	Nitzschia sociabilis Hustedt	*		3	3
1	2.36	NFON	-	Nitzschia fonticola Grunow in Cleve et Möller	*		3.5	1
1	2.36	LGOE	-	Luticola goeppertiana (Bleisch in Rabenhorst) D.G. Mann	*		2	2
1	2.36	GDEC	-	Geissleria decussis(Ostrup) Lange-Bertalot & Metzeltin	*		4.8	2
1	2.36	FCVA	-	Fragilaria capucina Desmazieres var.vaucheriae(Kützing)Lange-Bertalot	*		3.4	1
1	2.36	DVUL	-	Diatoma vulgaris Bory	*		4	1
1	2.36	CPTG	-	Cocconeis placentula Ehrenberg abnormal form	*		1	3

IDSE/5 2.78

degradation high
organic pollution moderate
anthropogenic eutrophication low

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SITO: 80 DATA: 28/07/2010

IPS	SLA	DESCY	IDAP	GENRE	CEE	SHE	WAT	
8.0	9.3	7.8	8.0	9.9	5.8	8.6	3.8	
TDI	IBD	DI-CH	EPI-D	IDP	LOBO	SID	TID	IDSE/5
89.8	9.7	5.9	6.8	5.6	4.7	10.4	6.3	2.65

QUALITY NOTES / 20

Number of species	43	Diversity	3.62	Genera number	21
Population	439	Evenness	0.67		

Number	o/oo	Code	ou	Designation	* : taxon	IBD	IPS S	IPS V
120	273.35	EOMI	SEMN	Eolimna minima(Grunow) Lange-Bertalot	*		3	1
105	239.18	CATO	-	Cyclotella atomus Hustedt	*		2	1
42	95.67	CMEN	-	Cyclotella meneghiniana Kützing	*		2	1
40	91.12	NPAD	-	Nitzschia palea (Kützing) W.Smith var.debilis(Kützing)Grunow in Cl. & Gru	*		3	1
16	36.45	NPAL	-	Nitzschia palea (Kützing) W.Smith	*		1	3
11	25.06	NGER	-	Navicula germainii Wallace	*		3	2
8	18.22	NROS	-	Navicula rostellata Kützing	*		3	3
8	18.22	TPSN	-	Thalassiosira pseudonana Hasle et Heimdal	*		2	2
8	18.22	ESBM	-	Eolimna subminuscula (Manguin) Moser Lange-Bertalot & Metzeltin	*		2	1
6	13.67	SSEM	NVDS	Sellaphora seminulum (Grunow) D.G. Mann	*		1.5	2
5	11.39	ADMI	-	Achnanthidium minutissimum (Kützing) Czarnecki	*		5	1
4	9.11	NINC	-	Nitzschia inconspicua Grunow	*		2.8	1
4	9.11	NCTE	-	Navicula cryptotenella Lange-Bertalot	*		4	1
4	9.11	NANT	-	Navicula antonii Lange-Bertalot	*		4	1
4	9.11	APED	-	Amphora pediculus (Kützing) Grunow	*		4	1
4	9.11	CTUM	-	Cymbella tumida (Brebisson)Van Heurck	*		3	3
4	9.11	EOMT	-	Eolimna minima(Grunow) Lange-Bertalot abnormal form	*		1	3
3	6.83	SACU	UUAC	Synedra acus Kützing			4	1
3	6.83	ENMI	-	Encyonema minutum (Hilse in Rabh.) D.G. Mann	*		4	2
3	6.83	NFON	-	Nitzschia fonticola Grunow in Cleve et Möller	*		3.5	1
3	6.83	NRCH	-	Navicula reichardtiana Lange-Bertalot var. reichardtiana	*		3.6	1
3	6.83	NVEN	-	Navicula veneta Kützing	*		1	2
2	4.56	NERI	-	Navicula erifuga Lange-Bertalot	*		2	3
2	4.56	ACOP	-	Amphora copulata (Kütz) Schoeman & Archibald	*		4	2
2	4.56	NAAM	-	Navicula amphiceropsis Lange-Bertalot & Rumrich	*		3	3
2	4.56	CPPL	COPL	Cocconeis placentula Ehrenberg var. pseudolineata Geitler	*		5	1
2	4.56	NINT	-	Nitzschia intermedia Hantzsch ex Cleve & Grunow	*		1	3
2	4.56	CPLE	CEUG	Cocconeis placentula Ehrenberg var.euglypta (Ehr.) Grunow	*		3.6	1
2	4.56	GSTR	-	Gyrosigma strigilis (W.Smith) Cleve			2	2
2	4.56	NCTG	-	Navicula cryptotenella Lange-Bertalot abnormal fo.	*		1	3
2	4.56	MVAR	-	Melosira varians Agardh	*		4	1
2	4.56	CSOL	-	Cymatopleura solea (Brebisson in Breb. & Godey) W.Smith var.solea	*		4	2
1	2.28	GSCA	GYOB	Gyrosigma scalproides (Rabenhorst)Cleve	*		2.8	3
1	2.28	TANG	-	Tryblionella angustata Wm Smith	*		2.3	2
1	2.28	RSIN	-	Reimeria sinuata (Gregory) Kociolek & Stoermer	*		4.8	1
1	2.28	NDIS	-	Nitzschia dissipata(Kützing)Grunow var.dissipata	*		4.5	3
1	2.28	NIAR	-	Nitzschia archibaldii Lange-Bertalot	*		3.8	2
1	2.28	NAMP	-	Nitzschia amphibia Grunow f.amphibia	*		2	2
1	2.28	NCPR	-	Navicula capitatoradiata Germain	*		3	2
1	2.28	MAPE	MPMI	Mayamaea atomus var. permitis (Hustedt) Lange-Bertalot	*		2.3	1
1	2.28	GPAR	-	Gomphonema parvulum (Kützing) Kützing var. parvulum f. parvulum	*		2	1
1	2.28	FSAP	-	Fistulifera saprophila (Lange-Bertalot & Bonik) Lange-Bertalot	*		2	1
Omnidia 5.3								
1	2.28	CPED	-	Cocconeis pediculus Ehrenberg	*		4	2

IDSE/5 2.65

degradation high
organic pollution moderate
anthropogenic eutrophication non-existent

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Campagna autunnale (n°6/2010)

SITO: 7

IPS	SLA	DESCY	IDAP	GENRE	CEE	SHE	WAT	
13.5	11.7	17.4	13.0	11.2	12.0	13.8	11.4	
TDI	IBD	DI-CH	EPI-D	IDP	LOBO	SID	TID	IDSE/5
69.2	13.6	9.5	10.7	11.7	11.0	14.8	7.2	3.57

QUALITY NOTES / 20

Number of species	41	Diversity	4.35	Genera number	17
Population	499	Evenness	0.81		

Number	o/oo	Code	ou	Designation	* : taxon	IBD	IPS S	IPS V
76	152.30	APED	-	Amphora pediculus (Kützing) Grunow	*		4	1
71	142.28	DITE	-	Diatoma tenuis Agardh	*		3	1
43	86.17	ADMI	-	Achnanthidium minutissimum (Kützing) Czarnecki	*		5	1
37	74.15	EOMI	SEMN	Eolimna minima(Grunow) Lange-Bertalot	*		3	1
36	72.14	AMMO	-	Amphora montana Krasske	*		2.8	1
34	68.14	NDIS	-	Nitzschia dissipata(Kützing)Grunow var.dissipata	*		4.5	3
17	34.07	NCTO	-	Navicula cryptotenelloides Lange-Bertalot	*		3.5	1
15	30.06	CCMS	-	Cyclotella comensis Grunow in Van Heurck	*		4	3
14	28.06	ESBM	-	Eolimna subminuscula (Manguin) Moser Lange-Bertalot & Metzeltin	*		2	1
14	28.06	CPLE	CEUG	Cocconeis placentula Ehrenberg var.euglypta (Ehr.) Grunow	*		3.6	1
13	26.05	NPAD	-	Nitzschia palea (Kützing) W.Smith var.debilis(Kützing)Grunow in Cl. & Gru	*		3	1
12	24.05	NANT	-	Navicula antonii Lange-Bertalot	*		4	1
12	24.05	SPIN	-	Staurosirella pinnata (Ehr.) Williams & Round	*		4	1
10	20.04	NYCO	-	Nitzschia costei Tudesque, Rimet & Ector			4	2
8	16.03	MAEX	-	Mayamaea excelsa (Krasske) Lange-Bertalot	*		3	1
8	16.03	MAAT	-	Mayamaea atomus (Kützing) Lange-Bertalot	*		2.2	1
7	14.03	FCRO	-	Fragilaria crotonensis Kitton	*		4	1
7	14.03	NILA	-	Nitzschia lacuum Lange-Bertalot	*		5	2
7	14.03	SCON	-	Staurosira construens Ehrenberg	*		4	1
7	14.03	NCTV	-	Navicula caterva Hohn & Hellerman	*		3	1
6	12.02	ADSB	-	Achnanthidium straubianum (Lange-Bertalot)Lange-Bertalot	*		3	2
5	10.02	NAMP	-	Nitzschia amphibia Grunow f.amphibia	*		2	2
5	10.02	NINC	-	Nitzschia inconspicua Grunow	*		2.8	1
4	8.02	NVEN	-	Navicula veneta Kützing	*		1	2
3	6.01	NFON	-	Nitzschia fonticola Grunow in Cleve et Möller	*		3.5	1
3	6.01	NRCH	-	Navicula reichardtiana Lange-Bertalot var. reichardtiana	*		3.6	1
3	6.01	FSBH	-	Fallacia subhamulata (Grunow in V. Heurck) D.G. Mann	*		4	1
3	6.01	PSBR	SBRV	Pseudostaurosira brevistriata (Grun.in Van Heurck) Williams & Round	*		3	1
2	4.01	ADBT	-	Achnanthidium biasolettianum(Grunow)Lange-Bertalot abnormal form	*		1	3
2	4.01	ADEU	-	Achnanthidium eutrophilum (Lange-Bertalot)Lange-Bertalot	*		3	1
2	4.01	GTRU	-	Gomphonema truncatum Ehr.	*		4	1
2	4.01	NIPU	-	Nitzschia pusilla(Kützing)Grunow	*		2	3
2	4.01	DEHR	-	Diatoma ehrenbergii Kützing	*		4	3
2	4.01	NTPT	-	Navicula tripunctata (O.F.Müller) Bory	*		4.4	2
1	2.00	CPED	-	Cocconeis pediculus Ehrenberg	*		4	2
1	2.00	CBAC	-	Caloneis bacillum (Grunow) Cleve	*		4	2
1	2.00	CMEN	-	Cyclotella meneghiniana Kützing	*		2	1
1	2.00	GPAR	-	Gomphonema parvulum (Kützing) Kützing var. parvulum f. parvulum	*		2	1
1	2.00	NCPR	-	Navicula capitatoradiata Germain	*		3	2
1	2.00	NZIT	-	Nitzschia inconspicua Grunow abnormal form	*		1	3
1	2.00	NAGN	-	Nitzschia agnita Hustedt	*		3.2	1

Omnidia 5.3

IDSE/5 3.57

degradation low

organic pollution non-existent

anthropogenic eutrophication low

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SITO: 8

IPS	SLA	DESCY	IDAP	GENRE	CEE	SHE	WAT	
14.8	12.7	18.3	13.7	12.2	13.4	14.2	14.3	
TDI	IBD	DI-CH	EPI-D	IDP	LOBO	SID	TID	IDSE/5
73.6	14.7	11.3	11.4	13.0	11.4	14.3	7.4	3.71

QUALITY NOTES / 20

Number of species	48	Diversity	4.39	Genera number	27
Population	407	Evenness	0.79		

Number	o/oo	Code	ou	Designation	* : taxon	IBD	IPS S	IPS V
80	196.56	NDIS	-	Nitzschia dissipata(Kützing)Grunow var.dissipata	*		4.5	3
64	157.25	APED	-	Amphora pediculus (Kützing) Grunow	*		4	1
39	95.82	DITE	-	Diatoma tenuis Agardh	*		3	1
30	73.71	ADMI	-	Achnanthidium minutissimum (Kützing) Czarnecki	*		5	1
14	34.40	CCMS	-	Cyclotella comensis Grunow in Van Heurck	*		4	3
13	31.94	PSBR	SBRV	Pseudostaurosira brevistriata (Grun.in Van Heurck) Williams & Round	*		3	1
13	31.94	NFON	-	Nitzschia fonticola Grunow in Cleve et Möller	*		3.5	1
12	29.48	NCTO	-	Navicula cryptotenelloides Lange-Bertalot	*		3.5	1
11	27.03	EOMI	SEMN	Eolimna minima(Grunow) Lange-Bertalot	*		3	1
11	27.03	AMMO	-	Amphora montana Krasske	*		2.8	1
7	17.20	TPSN	-	Thalassiosira pseudonana Hasle et Heimdal	*		2	2
7	17.20	SPIN	-	Staurosirella pinnata (Ehr.) Williams & Round	*		4	1
7	17.20	NAMP	-	Nitzschia amphibia Grunow f.amphibia	*		2	2
6	14.74	NTPT	-	Navicula tripunctata (O.F.Müller) Bory	*		4.4	2
6	14.74	NCTE	-	Navicula cryptotenella Lange-Bertalot	*		4	1
6	14.74	NILA	-	Nitzschia lacuum Lange-Bertalot	*		5	2
5	12.29	MAPE	MPMI	Mayamaea atomus var. permitis (Hustedt) Lange-Bertalot	*		2.3	1
5	12.29	SSVE	-	Staurosira venter (Ehr.) Cleve & Moeller	*		4	1
5	12.29	SIDE	-	Simonsenia delognei Lange-Bertalot	*		3	2
5	12.29	ADEU	-	Achnanthidium eutrophilum (Lange-Bertalot)Lange-Bertalot	*		3	1
4	9.83	NVEN	-	Navicula veneta Kützing	*		1	2
4	9.83	GSCI	-	Gyrosigma sciotense (Sullivan et Wormley) Cleve	*		4	3
4	9.83	FCVA	-	Fragilaria capucina Desmazieres var.vaucheriae(Kützing)Lange-Bertalot	*		3.4	1
4	9.83	DVUL	-	Diatoma vulgaris Bory	*		4	1
4	9.83	NCTV	-	Navicula caterva Hohn & Hellerman	*		3	1
3	7.37	ESUM	-	Encyonopsis subminuta Krammer & Reichardt	*		5	1
3	7.37	NANT	-	Navicula antonii Lange-Bertalot	*		4	1
2	4.91	LMUT	-	Luticola mutica (Kützing) D.G. Mann	*		2	2
2	4.91	ECKR	-	Encyonopsis krammeri Reichardt	*		5	2
2	4.91	SSEM	NVDS	Sellaphora seminulum (Grunow) D.G. Mann	*		1.5	2
2	4.91	EOCO	-	Eolimna comperei Ector. Coste et Iserentant	*		1.5	1
2	4.91	COPL	-	Cocconeis pseudolineata (Geitler) Lange-Bertalot	*		5	1
2	4.91	KCLE	-	Karayevia clevei(Grunow) Bukhtiyarova	*		4	2
2	4.91	CBAC	-	Caloneis bacillum (Grunow) Cleve	*		4	2
2	4.91	CPED	-	Cocconeis pediculus Ehrenberg	*		4	2
2	4.91	UULN	-	Ulnaria ulna (Nitzsch.) Compère	*		3	1
2	4.91	CPLE	CEUG	Cocconeis placentula Ehrenberg var.euglypta (Ehr.) Grunow	*		3.6	1
2	4.91	NPAD	-	Nitzschia palea (Kützing) W.Smith var.debilis(Kützing)Grunow in Cl. & Gru	*		3	1
2	4.91	NGRE	-	Navicula gregaria Donkin	*		3.4	1
2	4.91	ECAE	-	Encyonema caespitosum Kützing	*		4	2
2	4.91	EPRO	-	Encyonema prostratum (Berkeley) Kützing	*		4	3
1	2.46	NVTO	SSTM	Navicula ventraloides Hustedt	*		5	1
1	2.46	MVAR	-	Melosira varians Agardh	*		4	1
Omnidia 5.3								2
1	2.46	NCPR	-	Navicula capitatoradiata Germain	*		3	2
1	2.46	BPRO	-	Brachysira procera Lange-Bertalot & Moser	*		5	1
1	2.46	FSAP	-	Fistulifera saprophila (Lange-Bertalot & Bonik) Lange-Bertalot	*		2	1
1	2.46	NSOC	-	Nitzschia sociabilis Hustedt	*		3	3
1	2.46	FCRO	-	Fragilaria crotonensis Kitton	*		4	1

IDSE/5 3.71
degradation low
organic pollution non-existent
anthropogenic eutrophication low

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SITO: 24

IPS	SLA	DESCY	IDAP	GENRE	CEE	SHE	WAT	
15.8	13.3	18.3	14.4	11.8	14.1	14.2	15.9	
TDI	IBD	DI-CH	EPI-D	IDP	LOBO	SID	TID	IDSE/5
68.2	15.5	12.5	12.9	13.4	9.8	13.6	8.0	3.85

QUALITY NOTES / 20

Number of species	37	Diversity	3.83	Genera number	21
Population	408	Evenness	0.74		

Number	o/oo	Code	ou	Designation	* : taxon	IBD	IPS S	IPS V
104	254.90	NDIS	-	Nitzschia dissipata(Kützing)Grunow var.dissipata	*		4.5	3
69	169.12	NFON	-	Nitzschia fonticola Grunow in Cleve et Möller	*		3.5	1
43	105.39	NTPT	-	Navicula tripunctata (O.F.Müller) Bory	*		4.4	2
32	78.43	ADMI	-	Achnanthidium minutissimum (Kützing) Czarnecki	*		5	1
22	53.92	DITE	-	Diatoma tenuis Agardh	*		3	1
22	53.92	NCTO	-	Navicula cryptotenelloides Lange-Bertalot	*		3.5	1
13	31.86	APED	-	Amphora pediculus (Kützing) Grunow	*		4	1
11	26.96	CPLE	CEUG	Cocconeis placentula Ehrenberg var.euglypta (Ehr.) Grunow	*		3.6	1
10	24.51	FCVA	-	Fragilaria capucina Desmazieres var.vaucheriae(Kützing)Lange-Bertalot	*		3.4	1
8	19.61	ADEU	-	Achnanthidium eutrophilum (Lange-Bertalot)Lange-Bertalot	*		3	1
6	14.71	GOLI	-	Gomphonema olivaceum (Hornemann) Brébisson var. olivaceum	*		4.6	1
6	14.71	ESBM	-	Eolimna subminuscula (Manguin) Moser Lange-Bertalot & Metzeltin	*		2	1
6	14.71	CBAC	-	Caloneis bacillum (Grunow) Cleve	*		4	2
6	14.71	SPIN	-	Staurosirella pinnata (Ehr.) Williams & Round	*		4	1
4	9.80	NRCH	-	Navicula reichardtiana Lange-Bertalot var. reichardtiana	*		3.6	1
4	9.80	ECAE	-	Encyonema caespitosum Kützing	*		4	2
4	9.80	NILA	-	Nitzschia lacuum Lange-Bertalot	*		5	2
3	7.35	NCTE	-	Navicula cryptotenella Lange-Bertalot	*		4	1
3	7.35	NCPR	-	Navicula capitatoradiata Germain	*		3	2
3	7.35	PSBR	SBRV	Pseudostaurosira brevistriata (Grun.in Van Heurck) Williams & Round	*		3	1
2	4.90	CCCP	-	Cyclotella cyclopuncta Hakansson & Carter	*		5	1
2	4.90	CCMS	-	Cyclotella comensis Grunow in Van Heurck	*		4	3
2	4.90	SSEM	NVDS	Sellaphora seminulum (Grunow) D.G. Mann	*		1.5	2
2	4.90	ADMT	-	Achnanthidium minutissimum (Kütz.) Czarnecki abnormal form	*		1	3
2	4.90	NCTV	-	Navicula caterva Hohn & Hellerman	*		3	1
2	4.90	MAPE	MPMI	Mayamaea atomus var. permitis (Hustedt) Lange-Bertalot	*		2.3	1
2	4.90	CPTG	-	Cocconeis placentula Ehrenberg abnormal form	*		1	3
2	4.90	FCRU	FRUM	Fragilaria capucina Desmazieres var. rumpens (Kützing) Lange-Bertalot	*		4	1
2	4.90	GPEL	GELG	Gomphonema pumilum var. elegans Reichardt & Lange-Bertalot	*		5	1
2	4.90	NPAD	-	Nitzschia palea (Kützing) W.Smith var.debilis(Kützing)Grunow in Cl. & Gru	*		3	1
2	4.90	RABB	-	Rhoicosphenia abbreviata (C.Agardh) Lange-Bertalot	*		4	1
2	4.90	CYCL	-	CYCLOTELLA F.T. Kützing ex A de Brébisson			3.7	1
1	2.45	FCRO	-	Fragilaria crotonensis Kitton	*		4	1
1	2.45	ESUM	-	Encyonopsis subminuta Krammer & Reichardt	*		5	1
1	2.45	CPAR	-	Cymbella parva(W.Sm.)Kirchner in Cohn	*		5	3
1	2.45	GLAT	-	Gomphonema lateripunctatum Reichardt & Lange-Bertalot	*		5	3
1	2.45	GSCI	-	Gyrosigma sciotense (Sullivan et Wormley) Cleve	*		4	3

IDSE/5 3.85

degradation low

organic pollution non-existent

anthropogenic eutrophication low

-

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SITO: 26

IPS	SLA	DESCY	IDAP	GENRE	CEE	SHE	WAT	
15.1	12.2	19.2	14.4	11.7	14.7	13.0	15.4	
TDI	IBD	DI-CH	EPI-D	IDP	LOBO	SID	TID	IDSE/5
80.9	14.9	11.3	12.0	12.9	10.1	13.0	7.8	3.86

QUALITY NOTES / 20

Number of species	29	Diversity	3.86	Genera number	15
Population	416	Evenness	0.79		

Number	o/oo	Code	ou	Designation	* : taxon	IBD	IPS S	IPS V
108	259.62	APED	-	Amphora pediculus (Kützing) Grunow	*		4	1
69	165.87	NDIS	-	Nitzschia dissipata(Kützing)Grunow var.dissipata	*		4.5	3
28	67.31	ADMI	-	Achnanthidium minutissimum (Kützing) Czarnecki	*		5	1
23	55.29	NFON	-	Nitzschia fonticola Grunow in Cleve et Möller	*		3.5	1
18	43.27	CBAC	-	Caloneis bacillum (Grunow) Cleve	*		4	2
18	43.27	EOMI	SEMN	Eolimna minima(Grunow) Lange-Bertalot	*		3	1
15	36.06	EOCO	-	Eolimna comperei Ector. Coste et Iserentant	*		1.5	1
15	36.06	NCTV	-	Navicula caterva Hohn & Hellerman	*		3	1
14	33.65	RSIN	-	Reimeria sinuata (Gregory) Kociolek & Stoermer	*		4.8	1
11	26.44	DITE	-	Diatoma tenuis Agardh	*		3	1
11	26.44	NCTE	-	Navicula cryptotenella Lange-Bertalot	*		4	1
10	24.04	ADEU	-	Achnanthidium eutrophilum (Lange-Bertalot)Lange-Bertalot	*		3	1
10	24.04	NANT	-	Navicula antonii Lange-Bertalot	*		4	1
10	24.04	NRCH	-	Navicula reichardtiana Lange-Bertalot var. reichardtiana	*		3.6	1
9	21.63	ESBM	-	Eolimna subminuscula (Manguin) Moser Lange-Bertalot & Metzeltin	*		2	1
9	21.63	NCTO	-	Navicula cryptotenelloides Lange-Bertalot	*		3.5	1
8	19.23	MAPE	MPMI	Mayamaea atomus var. permitis (Hustedt) Lange-Bertalot	*		2.3	1
6	14.42	CPLE	CEUG	Cocconeis placentula Ehrenberg var.euglypta (Ehr.) Grunow	*		3.6	1
4	9.62	GOLI	-	Gomphonema olivaceum (Hornemann) Brébisson var. olivaceum	*		4.6	1
4	9.62	SSEM	NVDS	Sellaphora seminulum (Grunow) D.G. Mann	*		1.5	2
3	7.21	NTPT	-	Navicula tripunctata (O.F.Müller) Bory	*		4.4	2
3	7.21	GTER	-	Gomphonema tergestinum Fricke	*		4	3
2	4.81	NILA	-	Nitzschia lacuum Lange-Bertalot	*		5	2
2	4.81	NSPD	-	Navicula splendicula Van Landingham	*		5	2
2	4.81	CPPL	COPL	Cocconeis placentula Ehrenberg var. pseudolineata Geitler	*		5	1
1	2.40	NPTG	-	Nitzschia paleacea (Grunow) Grunow abnormal fo.	*		1	3
1	2.40	ADMT	-	Achnanthidium minutissimum (Kütz.) Czarnecki abnormal form	*		1	3
1	2.40	ENLB	-	Encyonema lange-bertalotii Krammer morphotype 1	*		4	1
1	2.40	GDEC	-	Geissleria decussis(Ostrup) Lange-Bertalot & Metzeltin	*		4.8	2

IDSE/5 3.86

degradation low

organic pollution non-existent

anthropogenic eutrophication non-existent

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SITO: 53

IPS	SLA	DESCY	IDAP	GENRE	CEE	SHE	WAT	
13.3	12.7	17.0	12.4	12.4	12.8	15.2	12.5	
TDI	IBD	DI-CH	EPI-D	IDP	LOBO	SID	TID	IDSE/5
58.3	14.3	11.2	11.5	12.5	13.2	15.8	7.9	3.56

QUALITY NOTES / 20

Number of species	57	Diversity	4.66	Genera number	26
Population	404	Evenness	0.80		

Number	o/oo	Code	ou	Designation	* : taxon	IBD	IPS S	IPS V
90	222.77	DITE	-	Diatoma tenuis Agardh	*		3	1
38	94.06	APED	-	Amphora pediculus (Kützing) Grunow	*		4	1
36	89.11	ADMI	-	Achnanthidium minutissimum (Kützing) Czarnecki	*		5	1
20	49.50	SPIN	-	Staurosirella pinnata (Ehr.) Williams & Round	*		4	1
18	44.55	EOMI	SEMN	Eolimna minima(Grunow) Lange-Bertalot	*		3	1
17	42.08	CPLE	CEUG	Cocconeis placentula Ehrenberg var.euglypta (Ehr.) Grunow	*		3.6	1
16	39.60	CCMS	-	Cyclotella comensis Grunow in Van Heurck	*		4	3
10	24.75	CPED	-	Cocconeis pediculus Ehrenberg	*		4	2
9	22.28	PRST	-	Planothidium rostratum (Oestrup) Lange-Bertalot	*		4.4	1
8	19.80	ACOP	-	Amphora copulata (Kütz) Schoeman & Archibald	*		4	2
7	17.33	NPAD	-	Nitzschia palea (Kützing) W.Smith var.debilis(Kützing)Grunow in Cl. & Gru	*		3	1
7	17.33	SCON	-	Staurosira construens Ehrenberg	*		4	1
6	14.85	NFON	-	Nitzschia fonticola Grunow in Cleve et Möller	*		3.5	1
6	14.85	EOCO	-	Eolimna comperei Ector. Coste et Iserentant	*		1.5	1
6	14.85	SSVE	-	Staurosira venter (Ehr.) Cleve & Moeller	*		4	1
6	14.85	COCE	-	Cyclotella ocellata Pantocsek	*		3	1
6	14.85	NYCO	-	Nitzschia costei Tudesque, Rimet & Ector			4	2
5	12.38	SSEM	NVDS	Sellaphora seminulum (Grunow) D.G. Mann	*		1.5	2
5	12.38	RSIN	-	Reimeria sinuata (Gregory) Kociolek & Stoermer	*		4.8	1
5	12.38	NDIS	-	Nitzschia dissipata(Kützing)Grunow var.dissipata	*		4.5	3
5	12.38	FCRU	FRUM	Fragilaria capucina Desmazieres var. rumpens (Kützing) Lange-Bertalot	*		4	1
5	12.38	ADEU	-	Achnanthidium eutrophilum (Lange-Bertalot)Lange-Bertalot	*		3	1
5	12.38	DVUL	-	Diatoma vulgaris Bory	*		4	1
4	9.90	NIPU	-	Nitzschia pusilla(Kützing)Grunow	*		2	3
4	9.90	ECAE	-	Encyonema caespitosum Kützing	*		4	2
4	9.90	NCPR	-	Navicula capitatoradiata Germain	*		3	2
3	7.43	NTPT	-	Navicula tripunctata (O.F.Müller) Bory	*		4.4	2
3	7.43	AMMO	-	Amphora montana Krasske	*		2.8	1
3	7.43	UULN	-	Ulnaria ulna (Nitzsch.) Compère	*		3	1
3	7.43	DEHR	-	Diatoma ehrenbergii Kützing	*		4	3
3	7.43	MVAR	-	Melosira varians Agardh	*		4	1
3	7.43	NCTO	-	Navicula cryptotenelloides Lange-Bertalot	*		3.5	1
3	7.43	RABB	-	Rhoicosphenia abbreviata (C.Agardh) Lange-Bertalot	*		4	1
2	4.95	CPPL	COPL	Cocconeis placentula Ehrenberg var. pseudolineata Geitler	*		5	1
2	4.95	ENMI	-	Encyonema minutum (Hilse in Rabh.) D.G. Mann	*		4	2
2	4.95	GPAR	-	Gomphonema parvulum (Kützing) Kützing var. parvulum f. parvulum	*		2	1
2	4.95	CDIS	-	Cocconeis disculus (Schumann) Cleve in Cleve & Jentzsch	*		5	2
2	4.95	AEXG	ADEG	Achnanthes exigua Grunow in Cl. & Grun.var. exigua	*		3	2
2	4.95	NVEN	-	Navicula veneta Kützing	*		1	2
2	4.95	NACD	-	Nitzschia acidoclinata Lange-Bertalot	*		5	2
2	4.95	NANT	-	Navicula antonii Lange-Bertalot	*		4	1
2	4.95	NREC	-	Nitzschia recta Hantzsch in Rabenhorst	*		3	2
2	4.95	TPSN	-	Thalassiosira pseudonana Hasle et Heimdal	*		2	2
2	4.95	PLFR	-	Planothidium frequentissimum(Lange-Bertalot)Lange-Bertalot	*		3.4	1
Omnidia 5.3								
1	2.48	NTRV	-	Navicula trivialis Lange-Bertalot var. trivialis	*		2	3
1	2.48	ADBI	-	Achnanthidium biasolettianum (Grunow in Cl. & Grun.) Lange-Bertalot	*		5	2
1	2.48	GSCI	-	Gyrosigma sciotense (Sullivan et Wormley) Cleve	*		4	3
1	2.48	NAGN	-	Nitzschia agnita Hustedt	*		3.2	1
1	2.48	TFLO	-	Tabellaria flocculosa(Roth)Kützing	*		5	1
1	2.48	SACU	UUAC	Synedra acus Kützing			4	1
1	2.48	ESLE	-	Encyonema silesiacum (Bleisch in Rabh.) D.G. Mann	*		5	2
1	2.48	NLIN	-	Nitzschia linearis(Agardh) W.M.Smith var.linearis	*		3	2
1	2.48	NPAL	-	Nitzschia palea (Kützing) W.Smith	*		1	3
1	2.48	NAAM	-	Navicula amphiceropsis Lange-Bertalot & Rumrich	*		3	3
1	2.48	NROS	-	Navicula rostellata Kützing	*		3	3
1	2.48	NRCH	-	Navicula reichardtiana Lange-Bertalot var. reichardtiana	*		3.6	1
1	2.48	HAMP	-	Hantzschia amphioxys (Ehr.) Grunow in Cleve et Grunow 1880	*		1.5	3

IDSE/5 3.56
degradation low
organic pollution non-existent
anthropogenic eutrophication moderate

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SITO: 59

IPS	SLA	DESCY	IDAP	GENRE	CEE	SHE	WAT	
12.6	11.5	15.2	12.0	11.5	11.6	13.1	10.8	
TDI	IBD	DI-CH	EPI-D	IDP	LOBO	SID	TID	IDSE/5
70.3	13.0	10.1	11.5	12.3	11.3	14.2	7.5	3.47

QUALITY NOTES / 20

Number of species 75	Diversity 5.41	Genera number 33
Population 537	Evenness 0.87	

Number	o/oo	Code	ou	Designation	* : taxon	IBD	IPS S	IPS V
50	93.11	AMMO	-	Amphora montana Krasske	*		2.8	1
41	76.35	DITE	-	Diatoma tenuis Agardh	*		3	1
25	46.55	ADMI	-	Achnanthidium minutissimum (Kützing) Czarnecki	*		5	1
23	42.83	NVIP	-	Navicula vilaplanii(Lange-Bert. & Sabater) Lange-Bertalot & Sabater	*		2.9	1
22	40.97	EOMI	SEMN	Eolimna minima(Grunow) Lange-Bertalot	*		3	1
22	40.97	FSAP	-	Fistulifera saprophila (Lange-Bertalot & Bonik) Lange-Bertalot	*		2	1
20	37.24	SCON	-	Staurosira construens Ehrenberg	*		4	1
20	37.24	RSIN	-	Reimeria sinuata (Gregory) Kociolek & Stoermer	*		4.8	1
19	35.38	CPLE	CEUG	Cocconeis placentula Ehrenberg var.euglypta (Ehr.) Grunow	*		3.6	1
18	33.52	APED	-	Amphora pediculus (Kützing) Grunow	*		4	1
17	31.66	NPAD	-	Nitzschia palea (Kützing) W.Smith var.debilis(Kützing)Grunow in Cl. & Gru	*		3	1
16	29.80	NFON	-	Nitzschia fonticola Grunow in Cleve et Möller	*		3.5	1
13	24.21	CCMS	-	Cyclotella comensis Grunow in Van Heurck	*		4	3
13	24.21	NDIS	-	Nitzschia dissipata(Kützing)Grunow var.dissipata	*		4.5	3
13	24.21	NCTE	-	Navicula cryptotenella Lange-Bertalot	*		4	1
12	22.35	PLFR	-	Planothidium frequentissimum(Lange-Bertalot)Lange-Bertalot	*		3.4	1
11	20.48	EOCO	-	Eolimna comperei Ector. Coste et Iserentant	*		1.5	1
10	18.62	SPIN	-	Staurosirella pinnata (Ehr.) Williams & Round	*		4	1
10	18.62	GSPP	-	Gomphonema saprophilum (Lange-Bert.& E.Reichardt) Monnier & Ector	*		2	1
9	16.76	NANT	-	Navicula antonii Lange-Bertalot	*		4	1
7	13.04	CBAC	-	Caloneis bacillum (Grunow) Cleve	*		4	2
7	13.04	NTPT	-	Navicula tripunctata (O.F.Müller) Bory	*		4.4	2
6	11.17	CPLI	-	Cocconeis placentula Ehrenberg var.lineata (Ehr.)Van Heurck	*		4	1
6	11.17	DEHR	-	Diatoma ehrenbergii Kützing	*		4	3
5	9.31	NVEN	-	Navicula veneta Kützing	*		1	2
5	9.31	NPAL	-	Nitzschia palea (Kützing) W.Smith	*		1	3
5	9.31	NGRE	-	Navicula gregaria Donkin	*		3.4	1
5	9.31	CMEN	-	Cyclotella meneghiniana Kützing	*		2	1
5	9.31	ENMI	-	Encyonema minutum (Hilse in Rabh.) D.G. Mann	*		4	2
5	9.31	NYCO	-	Nitzschia costei Tudesque, Rimet & Ector			4	2
5	9.31	MVAR	-	Melosira varians Agardh	*		4	1
4	7.45	COCE	-	Cyclotella ocellata Pantocsek	*		3	1
4	7.45	ADBI	-	Achnanthidium biasolettianum (Grunow in Cl. & Grun.) Lange-Bertalot	*		5	2
4	7.45	GYOB	-	Gyrosigma obtusatum (Sullivan & Wormley) Boyer	*		2.8	3
4	7.45	FCRU	FRUM	Fragilaria capucina Desmazieres var. rumpens (Kützing) Lange-Bertalot	*		4	1
4	7.45	NGER	-	Navicula germainii Wallace	*		3	2
4	7.45	RABB	-	Rhoicosphenia abbreviata (C.Agardh) Lange-Bertalot	*		4	1
4	7.45	CPED	-	Cocconeis pediculus Ehrenberg	*		4	2
3	5.59	SANG	-	Surirella angusta Kützing	*		4	1
3	5.59	ESLE	-	Encyonema silesiacum (Bleisch in Rabh.) D.G. Mann	*		5	2
3	5.59	ESBM	-	Eolimna subminuscula (Manguin) Moser Lange-Bertalot & Metzeltin	*		2	1
3	5.59	NLIN	-	Nitzschia linearis(Agardh) W.M.Smith var.linearis	*		3	2
3	5.59	NIPU	-	Nitzschia pusilla(Kützing)Grunow	*		2	3
Omnidia 5.3								
2	3.72	PSBR	SBRV	Pseudostaurosira brevistriata (Grun.in Van Heurck) Williams & Round	*		3	1
2	3.72	CSOL	-	Cymatopleura solea (Brebisson in Breb. & Godey) W.Smith var.solea	*		4	2
2	3.72	PRST	-	Planothidium rostratum (Oestrup) Lange-Bertalot	*		4.4	1
2	3.72	CDUB	-	Cyclostephanos dubius (Fricke) Round	*		3	2
2	3.72	NCTV	-	Navicula caterva Hohn & Hellerman	*		3	1
2	3.72	DOBL	-	Diploneis oblongella (Naegeli) Cleve-Euler	*		4	2
2	3.72	NAAM	-	Navicula amphiceropsis Lange-Bertalot & Rumrich	*		3	3
2	3.72	NCPR	-	Navicula capitatoradiata Germain	*		3	2
2	3.72	NCRY	-	Navicula cryptocephala Kützing	*		3.5	2
2	3.72	FARC	-	Fragilaria arcus (Ehrenberg) Cleve var. arcus	*		5	2
2	3.72	NAQR	-	Navicula aquaedurae Lange-Bertalot	*		5	1
2	3.72	NTRV	-	Navicula trivialis Lange-Bertalot var. trivialis	*		2	3
2	3.72	FSBH	-	Fallacia subhamulata (Grunow in V. Heurck) D.G. Mann	*		4	1
2	3.72	NAMP	-	Nitzschia amphibia Grunow f.amphibia	*		2	2
2	3.72	GPEL	GELG	Gomphonema pumilum var. elegans Reichardt & Lange-Bertalot	*		5	1
2	3.72	PTLA	-	Planothidium lanceolatum(Brebisson ex Kützing) Lange-Bertalot	*		4.6	1
2	3.72	PRUP	-	Pinnularia rupestris Hantzsch in Rabenhorst	*		4.2	3
1	1.86	GDEC	-	Geissleria decussis(Ostrup) Lange-Bertalot & Metzeltin	*		4.8	2
1	1.86	ADMT	-	Achnanthidium minutissimum (Kütz.) Czarnecki abnormal form	*		1	3
1	1.86	GOLI	-	Gomphonema olivaceum (Hornemann) Brébisson var. olivaceum	*		4.6	1
1	1.86	ADEU	-	Achnanthidium eutrophilum (Lange-Bertalot)Lange-Bertalot	*		3	1
1	1.86	ENVE	-	Encyonema ventricosum (Agardh) Grunow	*		4.8	1
1	1.86	ACOP	-	Amphora copulata (Kütz) Schoeman & Archibald	*		4	2
1	1.86	HAMP	-	Hantzschia amphioxys (Ehr.) Grunow in Cleve et Grunow 1880	*		1.5	3
1	1.86	ECAE	-	Encyonema caespitosum Kützing	*		4	2
1	1.86	UULN	-	Ulnaria ulna (Nitzsch.) Compère	*		3	1
1	1.86	DVUL	-	Diatoma vulgaris Bory	*		4	1
1	1.86	SBKU	-	Surirella brebissonii var.kuetzingii Krammer et Lange-Bertalot	*		3	2
1	1.86	DMES	-	Diatoma mesodon (Ehrenberg) Kützing	*		5	3
1	1.86	NREC	-	Nitzschia recta Hantzsch in Rabenhorst	*		3	2
1	1.86	TPSN	-	Thalassiosira pseudonana Hasle et Heimdal	*		2	2
1	1.86	TFLO	-	Tabellaria flocculosa(Roth)Kützing	*		5	1

IDSE/5 3.47
degradation moderate
organic pollution low
anthropogenic eutrophication low

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SITO: 63

IPS	SLA	DESCY	IDAP	GENRE	CEE	SHE	WAT	
12.2	11.0	15.3	10.6	10.5	10.7	12.7	10.7	
TDI	IBD	DI-CH	EPI-D	IDP	LOBO	SID	TID	IDSE/5
73.5	13.2	9.2	9.9	10.3	8.7	13.8	6.6	3.36

QUALITY NOTES / 20

Number of species	65	Diversity	5.25
Population	374	Evenness	0.87
Genera number	32		

Number	o/oo	Code	ou	Designation	* : taxon	IBD	IPS S	IPS V
43	114.97	DITE	-	Diatoma tenuis Agardh	*		3	1
27	72.19	APED	-	Amphora pediculus (Kützing) Grunow	*		4	1
27	72.19	SPIN	-	Staurosirella pinnata (Ehr.) Williams & Round	*		4	1
23	61.50	CPLE	CEUG	Cocconeis placentula Ehrenberg var.euglypta (Ehr.) Grunow	*		3.6	1
20	53.48	NPAD	-	Nitzschia palea (Kützing) W.Smith var.debilis(Kützing)Grunow in Cl. & Gru	*		3	1
15	40.11	NDIS	-	Nitzschia dissipata(Kützing)Grunow var.dissipata	*		4.5	3
15	40.11	EOMI	SEMN	Eolimna minima(Grunow) Lange-Bertalot	*		3	1
11	29.41	GPAR	-	Gomphonema parvulum (Kützing) Kützing var. parvulum f. parvulum	*		2	1
10	26.74	NFON	-	Nitzschia fonticola Grunow in Cleve et Möller	*		3.5	1
8	21.39	FSAP	-	Fistulifera saprophila (Lange-Bertalot & Bonik) Lange-Bertalot	*		2	1
8	21.39	CCMS	-	Cyclotella comensis Grunow in Van Heurck	*		4	3
8	21.39	DVUL	-	Diatoma vulgaris Bory	*		4	1
8	21.39	MAEX	-	Mayamaea excelsa (Krasske) Lange-Bertalot	*		3	1
7	18.72	MAPE	MPMI	Mayamaea atomus var. permitis (Hustedt) Lange-Bertalot	*		2.3	1
7	18.72	NIPU	-	Nitzschia pusilla(Kützing)Grunow	*		2	3
7	18.72	AMMO	-	Amphora montana Krasske	*		2.8	1
6	16.04	NPAL	-	Nitzschia palea (Kützing) W.Smith	*		1	3
6	16.04	NLIN	-	Nitzschia linearis(Agardh) W.M.Smith var.linearis	*		3	2
6	16.04	PLFR	-	Planothidium frequentissimum(Lange-Bertalot)Lange-Bertalot	*		3.4	1
6	16.04	ADBI	-	Achnanthidium biasolettianum (Grunow in Cl. & Grun.) Lange-Bertalot	*		5	2
5	13.37	NINC	-	Nitzschia inconspicua Grunow	*		2.8	1
5	13.37	RSIN	-	Reimeria sinuata (Gregory) Kociolek & Stoermer	*		4.8	1
5	13.37	NAMP	-	Nitzschia amphibia Grunow f.amphibia	*		2	2
4	10.70	NCTE	-	Navicula cryptotenella Lange-Bertalot	*		4	1
4	10.70	TPSN	-	Thalassiosira pseudonana Hasle et Heimdal	*		2	2
4	10.70	ARPT	-	Achnanthes rupestoides Hohn	*		4.8	1
4	10.70	NTRV	-	Navicula trivialis Lange-Bertalot var. trivialis	*		2	3
3	8.02	RABB	-	Rhoicosphenia abbreviata (C.Agardh) Lange-Bertalot	*		4	1
3	8.02	CCCP	-	Cyclotella cyclopuncta Hakansson & Carter	*		5	1
3	8.02	FCRO	-	Fragilaria crotonensis Kitton	*		4	1
3	8.02	UULN	-	Ulnaria ulna (Nitzsch.) Compère	*		3	1
3	8.02	ESBM	-	Eolimna subminuscula (Manguin) Moser Lange-Bertalot & Metzeltin	*		2	1
3	8.02	NANT	-	Navicula antonii Lange-Bertalot	*		4	1
3	8.02	NTPT	-	Navicula tripunctata (O.F.Müller) Bory	*		4.4	2
3	8.02	CPED	-	Cocconeis pediculus Ehrenberg	*		4	2
3	8.02	NGRE	-	Navicula gregaria Donkin	*		3.4	1
2	5.35	CBAC	-	Caloneis bacillum (Grunow) Cleve	*		4	2
2	5.35	CPPL	COPL	Cocconeis placentula Ehrenberg var. pseudolineata Geitler	*		5	1
2	5.35	CMEN	-	Cyclotella meneghiniana Kützing	*		2	1
2	5.35	ACMG	ADGL	Achnanthidium minutissimum(Kütz.)Czarnecki var.gracillima (Meist.)Bukhtiy	*		5	1
2	5.35	DEHR	-	Diatoma ehrenbergii Kützing	*		4	3
2	5.35	CSOL	-	Cymatopleura solea (Brebisson in Breb. & Godey) W.Smith var.solea	*		4	2
2	5.35	DCOT	-	Diadesmis contenta (Grunow ex V. Heurck) Mann	*		3.5	1
Omnidia 5.3								
2	5.35	STAN	-	Stauroneis anceps Ehrenberg	*		5	3
2	5.35	ACLI	-	Achnanthidium lineare W.Smith	*		5	2
2	5.35	CRBU	-	Craticula buderi (Hustedt) Lange-Bertalot			2	3
2	5.35	NSOC	-	Nitzschia sociabilis Hustedt	*		3	3
2	5.35	NYCO	-	Nitzschia costei Tudesque, Rimet & Ector			4	2
2	5.35	SCON	-	Staurosira construens Ehrenberg	*		4	1
2	5.35	SANG	-	Surirella angusta Kützing	*		4	1
2	5.35	PRST	-	Planothidium rostratum (Oestrup) Lange-Bertalot	*		4.4	1
2	5.35	NVDA	-	Navicula vandamii Schoeman & Archibald var. vandamii	*		3	1
2	5.35	NCPR	-	Navicula capitatoradiata Germain	*		3	2
2	5.35	NCRY	-	Navicula cryptocephala Kützing	*		3.5	2
2	5.35	NCTV	-	Navicula caterva Hohn & Hellerman	*		3	1
1	2.67	ADTH	-	Achnanthidium thienemannii (Hustedt) Lange-Bertalot			4	1
1	2.67	ADMT	-	Achnanthidium minutissimum (Kütz.) Czarnecki abnormal form	*		1	3
1	2.67	NACI	-	Nitzschia acicularis(Kützing) W.M.Smith	*		2	2
1	2.67	SSEM	NVDS	Sellaphora seminulum (Grunow) D.G. Mann	*		1.5	2
1	2.67	TFLO	-	Tabellaria flocculosa(Roth)Kützing	*		5	1
1	2.67	GDEC	-	Geissleria decussis(Ostrup) Lange-Bertalot & Metzeltin	*		4.8	2
1	2.67	ESLE	-	Encyonema silesiacum (Bleisch in Rabh.) D.G. Mann	*		5	2
1	2.67	NCTO	-	Navicula cryptotenelloides Lange-Bertalot	*		3.5	1
1	2.67	FSBH	-	Fallacia subhamulata (Grunow in V. Heurck) D.G. Mann	*		4	1
1	2.67	FCVA	-	Fragilaria capucina Desmazieres var.vaucheriae(Kützing)Lange-Bertalot	*		3.4	1

IDSE/5 3.36

degradation moderate

organic pollution low

anthropogenic eutrophication moderate

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SITO: 80

IPS	SLA	DESCY	IDAP	GENRE	CEE	SHE	WAT	
13.6	11.4	15.3	13.5	12.4	13.0	14.2	12.7	
TDI	IBD	DI-CH	EPI-D	IDP	LOBO	SID	TID	IDSE/5
56.8	15.3	11.2	12.5	13.0	16.8	14.5	8.8	3.68

QUALITY NOTES / 20

Number of species 60	Diversity 4.82	Genera number 29
Population 423	Evenness 0.82	

Number	o/oo	Code	ou	Designation	* : taxon	IBD	IPS S	IPS V
82	193.85	ADMI	-	Achnanthidium minutissimum (Kützing) Czarnecki	*		5	1
32	75.65	SPIN	-	Staurosirella pinnata (Ehr.) Williams & Round	*		4	1
27	63.83	DITE	-	Diatoma tenuis Agardh	*		3	1
25	59.10	APED	-	Amphora pediculus (Kützing) Grunow	*		4	1
23	54.37	NPAD	-	Nitzschia palea (Kützing) W.Smith var.debilis(Kützing)Grunow in Cl. & Gru	*		3	1
22	52.01	ADBI	-	Achnanthidium biasolettianum (Grunow in Cl. & Grun.) Lange-Bertalot	*		5	2
16	37.83	CPLE	CEUG	Cocconeis placentula Ehrenberg var.euglypta (Ehr.) Grunow	*		3.6	1
13	30.73	FSAP	-	Fistulifera saprophila (Lange-Bertalot & Bonik) Lange-Bertalot	*		2	1
13	30.73	NFON	-	Nitzschia fonticola Grunow in Cleve et Möller	*		3.5	1
12	28.37	RSIN	-	Reimeria sinuata (Gregory) Kociolek & Stoermer	*		4.8	1
10	23.64	CMEN	-	Cyclotella meneghiniana Kützing	*		2	1
8	18.91	FCRU	FRUM	Fragilaria capucina Desmazieres var. rumpens (Kützing) Lange-Bertalot	*		4	1
8	18.91	NVEN	-	Navicula veneta Kützing	*		1	2
8	18.91	NCTE	-	Navicula cryptotenella Lange-Bertalot	*		4	1
8	18.91	NGER	-	Navicula germainii Wallace	*		3	2
7	16.55	COPL	-	Cocconeis pseudolineata (Geitler) Lange-Bertalot	*		5	1
6	14.18	EOMI	SEMN	Eolimna minima(Grunow) Lange-Bertalot	*		3	1
6	14.18	NPAL	-	Nitzschia palea (Kützing) W.Smith	*		1	3
6	14.18	AMMO	-	Amphora montana Krasske	*		2.8	1
5	11.82	NDIS	-	Nitzschia dissipata(Kützing)Grunow var.dissipata	*		4.5	3
5	11.82	UULN	-	Ulnaria ulna (Nitzsch.) Compère	*		3	1
5	11.82	CPED	-	Cocconeis pediculus Ehrenberg	*		4	2
5	11.82	PSBR	SBRV	Pseudostaurosira brevistriata (Grun.in Van Heurck) Williams & Round	*		3	1
4	9.46	CDUB	-	Cyclostephanos dubius (Fricke) Round	*		3	2
4	9.46	PLFR	-	Planothidium frequentissimum(Lange-Bertalot)Lange-Bertalot	*		3.4	1
4	9.46	DEHR	-	Diatoma ehrenbergii Kützing	*		4	3
4	9.46	FCVA	-	Fragilaria capucina Desmazieres var.vaucheriae(Kützing)Lange-Bertalot	*		3.4	1
4	9.46	NANT	-	Navicula antonii Lange-Bertalot	*		4	1
3	7.09	PRST	-	Planothidium rostratum (Oestrup) Lange-Bertalot	*		4.4	1
3	7.09	DVUL	-	Diatoma vulgaris Bory	*		4	1
3	7.09	NTPT	-	Navicula tripunctata (O.F.Müller) Bory	*		4.4	2
2	4.73	AULA	-	AULACOSEIRA G.H.K. Thwaites			3.8	1
2	4.73	EOCO	-	Eolimna comperei Ector. Coste et Iserentant	*		1.5	1
2	4.73	ESBM	-	Eolimna subminuscula (Manguin) Moser Lange-Bertalot & Metzeltin	*		2	1
2	4.73	NCPL	-	Nitzschia capitellata Hustedt in A.Schmidt & al.	*		1	3
2	4.73	NILA	-	Nitzschia lacuum Lange-Bertalot	*		5	2
2	4.73	NVIP	-	Navicula vilaplanii(Lange-Bert. & Sabater) Lange-Bertalot & Sabater	*		2.9	1
2	4.73	NPTR	-	Nitzschia palea (Kützing) W.Smith abnormal fo.	*		1	3
2	4.73	NCTO	-	Navicula cryptotenelloides Lange-Bertalot	*		3.5	1
2	4.73	NCPR	-	Navicula capitatoradiata Germain	*		3	2
2	4.73	GSPP	-	Gomphonema saprophilum (Lange-Bert.& E.Reichardt) Monnier & Ector	*		2	1
2	4.73	GIOM	GCLF	Gomphoneis olivaceum(Horn.)Daws.var.minutissimum(Hust.) Bukhtiyarova	*		5	2
2	4.73	SCON	-	Staurosira construens Ehrenberg	*		4	1
Omnidia 5.3								
2	4.73	CSOL	-	Cymatopleura solea (Brebisson in Breb. & Godey) W.Smith var.solea	*		4	2
1	2.36	FVUL	-	Frustulia vulgaris (Thwaites) De Toni	*		4	3
1	2.36	NERI	-	Navicula erifuga Lange-Bertalot	*		2	3
1	2.36	CCMS	-	Cyclotella comensis Grunow in Van Heurck	*		4	3
1	2.36	CAMB	-	Craticula ambigua (Ehrenberg) Mann	*		3	3
1	2.36	DOBL	-	Diploneis oblongella (Naegeli) Cleve-Euler	*		4	2
1	2.36	DTEN	-	Denticula tenuis Kützing	*		5	3
1	2.36	NIPU	-	Nitzschia pusilla(Kützing)Grunow	*		2	3
1	2.36	NGRE	-	Navicula gregaria Donkin	*		3.4	1
1	2.36	NINC	-	Nitzschia inconspicua Grunow	*		2.8	1
1	2.36	NLIN	-	Nitzschia linearis(Agardh) W.M.Smith var.linearis	*		3	2
1	2.36	CBAC	-	Caloneis bacillum (Grunow) Cleve	*		4	2
1	2.36	CATO	-	Cyclotella atomus Hustedt	*		2	1
1	2.36	NSOC	-	Nitzschia sociabilis Hustedt	*		3	3
1	2.36	ADMT	-	Achnanthidium minutissimum (Kütz.) Czarnecki abnormal form	*		1	3
1	2.36	GSCI	-	Gyrosigma sciotense (Sullivan et Wormley) Cleve	*		4	3
1	2.36	SVER	-	Sellaphora verecundiae Lange-Bertalot			5	1

IDSE/5 3.68

degradation low

organic pollution low

anthropogenic eutrophication low

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Campagna estiva (n°9/2011)

Omnidia 5.3 1

SLIDE NUMBER	**216**
SITE NAME	7
RIVER	OGLIO
DATE	10/07/2011
Hydrologic code	7
Particularities	DMV PARMA ESTATE 2011

IPS	SLA	DESCY	IDAP	GENRE	CEE	SHE	WAT	
13.7	12.6	16.7	14.1	11.9	13.9	13.7	14.0	
TDI	IBD	DI-CH	EPI-D	IDP	LOBO	SID	TID	IDSE/5
68.0	15.2	12.2	13.6	12.1	13.8	13.7	8.4	3.80

QUALITY NOTES / 20

Number of species	50	Diversity	4.61	Genera number	21
Population	437	Evenness	0.82		

Number	o/oo	Code	ou	Designation	* : taxon	IBD	IPS S	IPS V
54	123.57	COCE	-	Cyclotella ocellata Pantocsek	*		3	1
47	107.55	APED	-	Amphora pediculus (Kützing) Grunow	*		4	1
41	93.82	ADMI	-	Achnanthidium minutissimum (Kützing) Czarnecki	*		5	1
35	80.09	CPLE	CEUG	Cocconeis placentula Ehrenberg var.euglypta (Ehr.) Grunow	*		3.6	1
26	59.50	NFON	-	Nitzschia fonticola Grunow in Cleve et Möller	*		3.5	1
26	59.50	NCTO	-	Navicula cryptotenelloides Lange-Bertalot	*		3.5	1
25	57.21	NCTE	-	Navicula cryptotenella Lange-Bertalot	*		4	1
23	52.63	FCRO	-	Fragilaria crotonensis Kitton	*		4	1
21	48.05	NDIS	-	Nitzschia dissipata(Kützing)Grunow var.dissipata	*		4.5	3
12	27.46	ADEU	-	Achnanthidium eutrophilum (Lange-Bertalot)Lange-Bertalot	*		3	1
10	22.88	EOMI	SEMN	Eolimna minima(Grunow) Lange-Bertalot	*		3	1
9	20.59	GPEL	GELG	Gomphonema pumilum var. elegans Reichardt & Lange-Bertalot	*		5	1
7	16.02	NCPR	-	Navicula capitatoradiata Germain	*		3	2
6	13.73	SPIN	-	Staurosirella pinnata (Ehr.) Williams & Round	*		4	1
5	11.44	FCVA	-	Fragilaria capucina Desmazieres var.vaucheriae(Kützing)Lange-Bertalot	*		3.4	1
5	11.44	ESUM	-	Encyonopsis subminuta Krammer & Reichardt	*		5	1
5	11.44	ESBM	-	Eolimna subminuscula (Manguin) Moser Lange-Bertalot & Metzeltin	*		2	1
5	11.44	NIAR	-	Nitzschia archibaldii Lange-Bertalot	*		3.8	2
4	9.15	ENMI	-	Encyonema minutum (Hilse in Rabh.) D.G. Mann	*		4	2
4	9.15	NPAD	-	Nitzschia palea (Kützing) W.Smith var.debilis(Kützing)Grunow in Cl. & Gru	*		3	1
4	9.15	NTPT	-	Navicula tripunctata (O.F.Müller) Bory	*		4.4	2
4	9.15	CPPL	COPL	Cocconeis placentula Ehrenberg var. pseudolineata Geitler	*		5	1
4	9.15	PSBR	SBRV	Pseudostaurosira brevistriata (Grun.in Van Heurck) Williams & Round	*		3	1
4	9.15	AMMO	-	Amphora montana Krasske	*		2.8	1
4	9.15	NAMP	-	Nitzschia amphibia Grunow f.amphibia	*		2	2
3	6.86	DSTE	-	Discostella stelligera (Cleve et Grun.) Houk & Klee	*		4.2	1
3	6.86	NANT	-	Navicula antonii Lange-Bertalot	*		4	1
3	6.86	CAEX	-	Cymbella excisa Kützing var. excisa	*		4	2
3	6.86	GPAR	-	Gomphonema parvulum (Kützing) Kützing var. parvulum f. parvulum	*		2	1
3	6.86	DEHR	-	Diatoma ehrenbergii Kützing	*		4	3
2	4.58	CHUS	-	Cymbella hustedtii Krasske var.hustedtii	*		5	2
2	4.58	RABB	-	Rhoicosphenia abbreviata (C.Agardh) Lange-Bertalot	*		4	1
2	4.58	CPLA	-	Cocconeis placentula Ehrenberg var. placentula	*		4	1
2	4.58	NVEN	-	Navicula veneta Kützing	*		1	2
2	4.58	CPTG	-	Cocconeis placentula Ehrenberg abnormal form	*		1	3
2	4.58	NPTR	-	Nitzschia palea (Kützing) W.Smith abnormal fo.	*		1	3
2	4.58	NPAL	-	Nitzschia palea (Kützing) W.Smith	*		1	3
2	4.58	NLAN	-	Navicula lanceolata (Agardh) Ehrenberg	*		3.8	1
2	4.58	ECAE	-	Encyonema caespitosum Kützing	*		4	2
2	4.58	ENLB	-	Encyonema lange-bertalotii Krammer morphotype 1	*		4	1
2	4.58	MAAT	-	Mayamaea atomus (Kützing) Lange-Bertalot	*		2.2	1

Omnidia 5.3 2

2	4.58	MVAR	-	Melosira varians Agardh	*		4	1
1	2.29	ADBI	-	Achnanthidium biasolettianum (Grunow in Cl. & Grun.) Lange-Bertalot	*		5	2
1	2.29	EOCO	-	Eolimna comperei Ector. Coste et Iserentant	*		1.5	1
1	2.29	ADMM	AMUR	Adlafia minuscula var. muralis (Grunow) Lange-Bertalot	*		2	1
1	2.29	NDTG	-	Nitzschia dissipata (Kützing) Grunow abnormal form	*		1	3
1	2.29	NCTG	-	Navicula cryptotenella Lange-Bertalot abnormal fo.	*		1	3
1	2.29	CATO	-	Cyclotella atomus Hustedt	*		2	1
1	2.29	CCMS	-	Cyclotella comensis Grunow in Van Heurck	*		4	3
1	2.29	NILA	-	Nitzschia lacuum Lange-Bertalot	*		5	2

IDSE/5 3.80
degradation low
organic pollution non-existent
anthropogenic eutrophication non-existent

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Omnidia 5.3 1

SLIDE NUMBER	**217**
SITE NAME	8
RIVER	OGLIO
DATE	10/07/2011
Hydrologic code	8
Particularities	DMV PARMA ESTATE 2011

IPS	SLA	DESCY	IDAP	GENRE	CEE	SHE	WAT	
13.8	13.3	17.8	13.4	10.7	13.4	14.5	13.2	
TDI	IBD	DI-CH	EPI-D	IDP	LOBO	SID	TID	IDSE/5
76.3	14.7	12.9	13.3	12.9	9.9	14.2	9.0	3.80

QUALITY NOTES / 20

Number of species	44	Diversity	4.57	Genera number	25
Population	433	Evenness	0.84		

Number	o/oo	Code	ou	Designation	* : taxon IBD	IPS S	IPS V
52	120.09	NFON	-	Nitzschia fonticola Grunow in Cleve et Möller	*	3.5	1
51	117.78	COCE	-	Cyclotella ocellata Pantocsek	*	3	1
49	113.16	APED	-	Amphora pediculus (Kützing) Grunow	*	4	1
32	73.90	NCTE	-	Navicula cryptotenella Lange-Bertalot	*	4	1
25	57.74	FCRO	-	Fragilaria crotonensis Kitton	*	4	1
22	50.81	NCTO	-	Navicula cryptotenelloides Lange-Bertalot	*	3.5	1
21	48.50	NDIS	-	Nitzschia dissipata(Kützing)Grunow var.dissipata	*	4.5	3
20	46.19	NCTV	-	Navicula caterva Hohn & Hellerman	*	3	1
12	27.71	SPIN	-	Staurosirella pinnata (Ehr.) Williams & Round	*	4	1
10	23.09	DSTE	-	Discostella stelligera (Cleve et Grun.) Houk & Klee	*	4.2	1
10	23.09	EOMI	SEMN	Eolimna minima(Grunow) Lange-Bertalot	*	3	1
10	23.09	CBAC	-	Caloneis bacillum (Grunow) Cleve	*	4	2
9	20.79	CPED	-	Cocconeis pediculus Ehrenberg	*	4	2
9	20.79	GMIN	-	Gomphonema minutum(Ag.)Agardh f. minutum	*	4	1
7	16.17	SSVE	-	Staurosira venter (Ehr.) Cleve & Moeller	*	4	1
7	16.17	ADMI	-	Achnanthidium minutissimum (Kützing) Czarnecki	*	5	1
6	13.86	DEHR	-	Diatoma ehrenbergii Kützing	*	4	3
6	13.86	CPLE	CEUG	Cocconeis placentula Ehrenberg var.euglypta (Ehr.) Grunow	*	3.6	1
6	13.86	SCON	-	Staurosira construens Ehrenberg	*	4	1
5	11.55	GSCI	-	Gyrosigma sciotense (Sullivan et Wormley) Cleve	*	4	3
5	11.55	NPAD	-	Nitzschia palea (Kützing) W.Smith var.debilis(Kützing)Grunow in Cl. & Gru	*	3	1
5	11.55	NCPR	-	Navicula capitatoradiata Germain	*	3	2
5	11.55	PSBR	SBRV	Pseudostaurosira brevistriata (Grun.in Van Heurck) Williams & Round	*	3	1
5	11.55	TPSN	-	Thalassiosira pseudonana Hasle et Heimdal	*	2	2
4	9.24	CCMS	-	Cyclotella comensis Grunow in Van Heurck	*	4	3
4	9.24	CHUS	-	Cymbella hustedtii Krasske var.hustedtii	*	5	2
4	9.24	NANT	-	Navicula antonii Lange-Bertalot	*	4	1
4	9.24	FSBH	-	Fallacia subhamulata (Grunow in V. Heurck) D.G. Mann	*	4	1
3	6.93	NILA	-	Nitzschia lacuum Lange-Bertalot	*	5	2
2	4.62	EPRO	-	Encyonema prostratum (Berkeley) Kützing	*	4	3
2	4.62	CKUT	CDTG	Cyclotella kuetzingiana Thwaites	*	3	1
2	4.62	ECPM	-	Encyonopsis minuta Krammer & Reichardt	*	4	2
2	4.62	DEHT	-	Diatoma ehrenbergii Kützing forme teratogene	*	1	3
2	4.62	NIPU	-	Nitzschia pusilla(Kützing)Grunow	*	2	3
2	4.62	NZSU	-	Nitzschia supralitorea Lange-Bertalot	*	1.5	2
2	4.62	FELL	PSSE	Fragilaria elliptica Schumann (Staurosira)	*	3	1
2	4.62	TANG	-	Tryblionella angustata Wm Smith	*	2.3	2
2	4.62	ECAE	-	Encyonema caespitosum Kützing	*	4	2
2	4.62	CMEN	-	Cyclotella meneghiniana Kützing	*	2	1
1	2.31	FCVA	-	Fragilaria capucina Desmazieres var.vaucheriae(Kützing)Lange-Bertalot	*	3.4	1
1	2.31	NDTG	-	Nitzschia dissipata (Kützing) Grunow abnormal form	*	1	3

Omnidia 5.3 2

1	2.31	BNEO	-	Brachysira neoexilis Lange-Bertalot	*	5	1
1	2.31	EPIT	-	EPITHEMIA F.T. Kützing		4.4	3
1	2.31	NTPT	-	Navicula tripunctata (O.F.Müller) Bory	*	4.4	2

IDSE/5 3.80

degradation low

organic pollution non-existent

anthropogenic eutrophication non-existent

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Omnidia 5.3 1

SLIDE NUMBER	**218**
SITE NAME	24
RIVER	OGLIO
DATE	10/07/2011
Hydrologic code	24
Particularities	DMV PARMA ESTATE 2011

IPS	SLA	DESCY	IDAP	GENRE	CEE	SHE	WAT	
13.7	12.3	17.0	13.5	10.8	13.2	13.1	13.8	
TDI	IBD	DI-CH	EPI-D	IDP	LOBO	SID	TID	IDSE/5
73.0	14.2	11.9	12.4	12.6	9.8	13.4	8.0	3.71

QUALITY NOTES / 20

Number of species	40	Diversity	4.52	Genera number	21
Population	417	Evenness	0.85		

Number	o/oo	Code	ou	Designation	* : taxon	IBD	IPS S	IPS V
56	134.29	NFON	-	Nitzschia fonticola Grunow in Cleve et Möller	*		3.5	1
51	122.30	NDIS	-	Nitzschia dissipata(Kützing)Grunow var.dissipata	*		4.5	3
32	76.74	COCE	-	Cyclotella ocellata Pantocsek	*		3	1
24	57.55	FCRO	-	Fragilaria crotonensis Kitton	*		4	1
22	52.76	DSTE	-	Discostella stelligera (Cleve et Grun.) Houk & Klee	*		4.2	1
22	52.76	CPLE	CEUG	Cocconeis placentula Ehrenberg var.euglypta (Ehr.) Grunow	*		3.6	1
22	52.76	NCTE	-	Navicula cryptotenella Lange-Bertalot	*		4	1
21	50.36	APED	-	Amphora pediculus (Kützing) Grunow	*		4	1
17	40.77	EOMI	SEMN	Eolimna minima(Grunow) Lange-Bertalot	*		3	1
15	35.97	ADMI	-	Achnanthidium minutissimum (Kützing) Czarnecki	*		5	1
14	33.57	NANT	-	Navicula antonii Lange-Bertalot	*		4	1
13	31.18	NCPR	-	Navicula capitatoradiata Germain	*		3	2
10	23.98	NCTO	-	Navicula cryptotenelloides Lange-Bertalot	*		3.5	1
9	21.58	NCTV	-	Navicula caterva Hohn & Hellerman	*		3	1
9	21.58	MVAR	-	Melosira varians Agardh	*		4	1
8	19.18	SPIN	-	Staurosirella pinnata (Ehr.) Williams & Round	*		4	1
8	19.18	NPAD	-	Nitzschia palea (Kützing) W.Smith var.debilis(Kützing)Grunow in Cl. & Gru	*		3	1
7	16.79	TPSN	-	Thalassiosira pseudonana Hasle et Heimdal	*		2	2
6	14.39	ADEU	-	Achnanthidium eutrophilum (Lange-Bertalot)Lange-Bertalot	*		3	1
5	11.99	NPAL	-	Nitzschia palea (Kützing) W.Smith	*		1	3
4	9.59	CCMS	-	Cyclotella comensis Grunow in Van Heurck	*		4	3
3	7.19	ESBM	-	Eolimna subminuscula (Manguin) Moser Lange-Bertalot & Metzeltin	*		2	1
3	7.19	NTPT	-	Navicula tripunctata (O.F.Müller) Bory	*		4.4	2
3	7.19	DEHR	-	Diatoma ehrenbergii Kützing	*		4	3
3	7.19	CPTG	-	Cocconeis placentula Ehrenberg abnormal form	*		1	3
3	7.19	GMIN	-	Gomphonema minutum(Ag.)Agardh f. minutum	*		4	1
2	4.80	CDTG	-	Cyclotella distinguenda var.distinguenda Hustedt	*		4	2
2	4.80	GPAR	-	Gomphonema parvulum (Kützing) Kützing var. parvulum f. parvulum	*		2	1
2	4.80	NZSU	-	Nitzschia supralitorea Lange-Bertalot	*		1.5	2
2	4.80	ECAE	-	Encyonema caespitosum Kützing	*		4	2
2	4.80	NDTG	-	Nitzschia dissipata (Kützing) Grunow abnormal form	*		1	3
2	4.80	CBAC	-	Caloneis bacillum (Grunow) Cleve	*		4	2
2	4.80	SCON	-	Staurosira construens Ehrenberg	*		4	1
2	4.80	RSIN	-	Reimeria sinuata (Gregory) Kociolek & Stoermer	*		4.8	1
2	4.80	PSBR	SBRV	Pseudostaurosira brevistriata (Grun.in Van Heurck) Williams & Round	*		3	1
2	4.80	CPED	-	Cocconeis pediculus Ehrenberg	*		4	2
2	4.80	NSOC	-	Nitzschia sociabilis Hustedt	*		3	3
2	4.80	NRCH	-	Navicula reichardtiana Lange-Bertalot var. reichardtiana	*		3.6	1
2	4.80	FCRU	FRUM	Fragilaria capucina Desmazieres var. rumpens (Kützing) Lange-Bertalot	*		4	1
1	2.40	UULN	-	Ulnaria ulna (Nitzsch.) Compère	*		3	1

Omnidia 5.3 2

IDSE/5 3.71

degradation low

organic pollution non-existent

anthropogenic eutrophication non-existent

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Omnidia 5.3 1

SLIDE NUMBER	**219**
SITE NAME	26
RIVER	OGLIO
DATE	10/07/2011
Hydrologic code	26
Particularities	DMV PARMA ESTATE 2011

IPS	SLA	DESCY	IDAP	GENRE	CEE	SHE	WAT	
11.4	12.5	15.6	14.6	9.6	12.6	14.2	16.3	
TDI	IBD	DI-CH	EPI-D	IDP	LOBO	SID	TID	IDSE/5
58.9	13.1	9.7	13.2	11.4	13.7	12.4	8.7	3.78

QUALITY NOTES / 20

Number of species	30	Diversity	3.63	Genera number	16
Population	413	Evenness	0.74		

Number	o/oo	Code	ou	Designation	* : taxon	IBD	IPS S	IPS V
109	263.92	CPLE	CEUG	Cocconeis placentula Ehrenberg var.euglypta (Ehr.) Grunow	*	3.6		1
58	140.44	ADMI	-	Achnanthidium minutissimum (Kützing) Czarnecki	*	5		1
57	138.01	NFON	-	Nitzschia fonticola Grunow in Cleve et Möller	*	3.5		1
50	121.07	NZSU	-	Nitzschia supralitorea Lange-Bertalot	*	1.5		2
19	46.00	GMIN	-	Gomphonema minutum(Ag.)Agardh f. minutum	*	4		1
12	29.06	APED	-	Amphora pediculus (Kützing) Grunow	*	4		1
11	26.63	NCTE	-	Navicula cryptotenella Lange-Bertalot	*	4		1
10	24.21	CPED	-	Cocconeis pediculus Ehrenberg	*	4		2
10	24.21	COCE	-	Cyclotella ocellata Pantocsek	*	3		1
9	21.79	FCRO	-	Fragilaria crotonensis Kitton	*	4		1
8	19.37	EOCO	-	Eolimna comperei Ector. Coste et Iserentant	*	1.5		1
8	19.37	DEHR	-	Diatoma ehrenbergii Kützing	*	4		3
8	19.37	CPTG	-	Cocconeis placentula Ehrenberg abnormal form	*	1		3
6	14.53	RSIN	-	Reimeria sinuata (Gregory) Kociolek & Stoermer	*	4.8		1
5	12.11	NDIS	-	Nitzschia dissipata(Kützing)Grunow var.dissipata	*	4.5		3
4	9.69	NRCH	-	Navicula reichardtiana Lange-Bertalot var. reichardtiana	*	3.6		1
4	9.69	SSVE	-	Staurosira venter (Ehr.) Cleve & Moeller	*	4		1
3	7.26	NILA	-	Nitzschia lacuum Lange-Bertalot	*	5		2
3	7.26	EOMI	SEMN	Eolimna minima(Grunow) Lange-Bertalot	*	3		1
3	7.26	FSAP	-	Fistulifera saprophila (Lange-Bertalot & Bonik) Lange-Bertalot	*	2		1
2	4.84	NDTG	-	Nitzschia dissipata (Kützing) Grunow abnormal form	*	1		3
2	4.84	FCRT	-	Fragilaria crotonensis Kitton forme teratogene	*	1		3
2	4.84	NPAD	-	Nitzschia palea (Kützing) W.Smith var.debilis(Kützing)Grunow in Cl. & Gru	*	3		1
2	4.84	NAMP	-	Nitzschia amphibia Grunow f.amphibia	*	2		2
2	4.84	MAPE	MPMI	Mayamaea atomus var. permitis (Hustedt) Lange-Bertalot	*	2.3		1
2	4.84	ESBM	-	Eolimna subminuscula (Manguin) Moser Lange-Bertalot & Metzeltin	*	2		1
1	2.42	NPAL	-	Nitzschia palea (Kützing) W.Smith	*	1		3
1	2.42	MVAR	-	Melosira varians Agardh	*	4		1
1	2.42	FCVA	-	Fragilaria capucina Desmazieres var.vaucheriae(Kützing)Lange-Bertalot	*	3.4		1
1	2.42	NFOT	-	Nitzschia fonticola Grunow in Cleve et Möller abnormal fo.	*	1		3

IDSE/5 3.78
degradation low
organic pollution non-existent
anthropogenic eutrophication low

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Omnidia 5.3 1

SLIDE NUMBER	**220**
SITE NAME	44
RIVER	OGLIO
DATE	10/07/2011
Hydrologic code	44
Particularities	DMV PARMA ESTATE 2011

IPS	SLA	DESCY	IDAP	GENRE	CEE	SHE	WAT	
13.9	13.5	16.1	13.0	9.0	13.4	13.8	16.7	
TDI	IBD	DI-CH	EPI-D	IDP	LOBO	SID	TID	IDSE/5
63.6	14.9	10.3	12.8	13.6	11.3	12.5	8.4	3.79

QUALITY NOTES / 20

Number of species	27	Diversity	3.73	Genera number	14
Population	410	Evenness	0.78		

Number	o/oo	Code	ou	Designation	* : taxon	IBD	IPS S	IPS V
124	302.44	NFON	-	Nitzschia fonticola Grunow in Cleve et Möller	*		3.5	1
44	107.32	ADMI	-	Achnanthidium minutissimum (Kützing) Czarnecki	*		5	1
42	102.44	APED	-	Amphora pediculus (Kützing) Grunow	*		4	1
25	60.98	RSIN	-	Reimeria sinuata (Gregory) Kociolek & Stoermer	*		4.8	1
22	53.66	FCVA	-	Fragilaria capucina Desmazieres var.vaucheriae(Kützing)Lange-Bertalot	*		3.4	1
17	41.46	ENLB	-	Encyonema lange-bertalotii Krammer morphotype 1	*		4	1
16	39.02	NZSU	-	Nitzschia supralitorea Lange-Bertalot	*		1.5	2
15	36.59	NDIS	-	Nitzschia dissipata(Kützing)Grunow var.dissipata	*		4.5	3
14	34.15	NCTE	-	Navicula cryptotenella Lange-Bertalot	*		4	1
11	26.83	EOMI	SEMN	Eolimna minima(Grunow) Lange-Bertalot	*		3	1
11	26.83	CAEX	-	Cymbella excisa Kützing var. excisa	*		4	2
10	24.39	ADEU	-	Achnanthidium eutrophilum (Lange-Bertalot)Lange-Bertalot	*		3	1
8	19.51	CPLE	CEUG	Cocconeis placentula Ehrenberg var.euglypta (Ehr.) Grunow	*		3.6	1
8	19.51	GPAR	-	Gomphonema parvulum (Kützing) Kützing var. parvulum f. parvulum	*		2	1
6	14.63	GMIN	-	Gomphonema minutum(Ag.)Agardh f. minutum	*		4	1
6	14.63	NILA	-	Nitzschia lacuum Lange-Bertalot	*		5	2
5	12.20	NANT	-	Navicula antonii Lange-Bertalot	*		4	1
4	9.76	EOCO	-	Eolimna comperei Ector. Coste et Iserentant	*		1.5	1
4	9.76	DEHR	-	Diatoma ehrenbergii Kützing	*		4	3
4	9.76	NPAD	-	Nitzschia palea (Kützing) W.Smith var.debilis(Kützing)Grunow in Cl. & Gru	*		3	1
3	7.32	NRCH	-	Navicula reichardtiana Lange-Bertalot var. reichardtiana	*		3.6	1
3	7.32	ESBM	-	Eolimna subminuscula (Manguin) Moser Lange-Bertalot & Metzeltin	*		2	1
2	4.88	NAMP	-	Nitzschia amphibia Grunow f.amphibia	*		2	2
2	4.88	FSAP	-	Fistulifera saprophila (Lange-Bertalot & Bonik) Lange-Bertalot	*		2	1
2	4.88	ESLE	-	Encyonema silesiacum (Bleisch in Rabh.) D.G. Mann	*		5	2
1	2.44	NCPR	-	Navicula capitatoradiata Germain	*		3	2
1	2.44	NFOT	-	Nitzschia fonticola Grunow in Cleve et Möller abnormal fo.	*		1	3

IDSE/5 3.79

degradation low

organic pollution non-existent

anthropogenic eutrophication low

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Omnidia 5.3 1

SLIDE NUMBER	**221**
SITE NAME	53
RIVER	OGLIO
DATE	10/07/2011
Hydrologic code	53
Particularities	DMV PARMA ESTATE 2011

IPS	SLA	DESCY	IDAP	GENRE	CEE	SHE	WAT	
11.9	10.8	15.5	12.0	9.6	11.1	11.9	11.8	
TDI	IBD	DI-CH	EPI-D	IDP	LOBO	SID	TID	IDSE/5
81.4	13.4	9.3	9.6	11.3	8.3	12.4	6.8	3.54

QUALITY NOTES / 20

Number of species	59	Diversity	5.08	Genera number	28
Population	406	Evenness	0.86		

Number	o/oo	Code	ou	Designation	* : taxon	IBD	IPS S	IPS V
46	113.30	APED	-	Amphora pediculus (Kützing) Grunow	*		4	1
37	91.13	EOMI	SEMN	Eolimna minima(Grunow) Lange-Bertalot	*		3	1
24	59.11	NFON	-	Nitzschia fonticola Grunow in Cleve et Möller	*		3.5	1
23	56.65	NCTE	-	Navicula cryptotenella Lange-Bertalot	*		4	1
22	54.19	NSOC	-	Nitzschia sociabilis Hustedt	*		3	3
20	49.26	NDIS	-	Nitzschia dissipata(Kützing)Grunow var.dissipata	*		4.5	3
18	44.33	NPAD	-	Nitzschia palea (Kützing) W.Smith var.debilis(Kützing)Grunow in Cl. & Gru	*		3	1
17	41.87	CPLE	CEUG	Cocconeis placentula Ehrenberg var.euglypta (Ehr.) Grunow	*		3.6	1
12	29.56	GMIN	-	Gomphonema minutum(Ag.)Agardh f. minutum	*		4	1
11	27.09	NPAL	-	Nitzschia palea (Kützing) W.Smith	*		1	3
10	24.63	DEHR	-	Diatoma ehrenbergii Kützing	*		4	3
10	24.63	NROS	-	Navicula rostellata Kützing	*		3	3
10	24.63	NANT	-	Navicula antonii Lange-Bertalot	*		4	1
10	24.63	FCVA	-	Fragilaria capucina Desmazieres var.vaucheriae(Kützing)Lange-Bertalot	*		3.4	1
9	22.17	NCPR	-	Navicula capitatoradiata Germain	*		3	2
9	22.17	UULN	-	Ulnaria ulna (Nitzsch.) Compère	*		3	1
7	17.24	NTPT	-	Navicula tripunctata (O.F.Müller) Bory	*		4.4	2
7	17.24	NGER	-	Navicula germainii Wallace	*		3	2
7	17.24	MAPE	MPMI	Mayamaea atomus var. permitis (Hustedt) Lange-Bertalot	*		2.3	1
6	14.78	NAAM	-	Navicula amphiceropsis Lange-Bertalot & Rumrich	*		3	3
5	12.32	CMEN	-	Cyclotella meneghiniana Kützing	*		2	1
4	9.85	EOCO	-	Eolimna comperei Ector. Coste et Iserentant	*		1.5	1
4	9.85	GPAR	-	Gomphonema parvulum (Kützing) Kützing var. parvulum f. parvulum	*		2	1
3	7.39	RABB	-	Rhoicosphenia abbreviata (C.Agardh) Lange-Bertalot	*		4	1
3	7.39	NZSU	-	Nitzschia supralitorea Lange-Bertalot	*		1.5	2
3	7.39	PSBR	SBRV	Pseudostaurosira brevistriata (Grun.in Van Heurck) Williams & Round	*		3	1
3	7.39	NVEN	-	Navicula veneta Kützing	*		1	2
3	7.39	SMTO	-	Sellaphora mutatoides Lange-Bertalot & Metzeltin	*		4	3
3	7.39	GYKU	-	Gyrosigma kuetzingii (Grunow) Cleve			4	3
3	7.39	FCRO	-	Fragilaria crotonensis Kitton	*		4	1
3	7.39	FSAP	-	Fistulifera saprophila (Lange-Bertalot & Bonik) Lange-Bertalot	*		2	1
3	7.39	GSCI	-	Gyrosigma sciotense (Sullivan et Wormley) Cleve	*		4	3
3	7.39	CCMS	-	Cyclotella comensis Grunow in Van Heurck	*		4	3
3	7.39	GPRI	-	Gomphonema pumilum var. rigidum Reichardt & Lange-Bertalot	*		3.5	1
3	7.39	MVAR	-	Melosira varians Agardh	*		4	1
3	7.39	NCTO	-	Navicula cryptotenelloides Lange-Bertalot	*		3.5	1
2	4.93	COCE	-	Cyclotella ocellata Pantocsek	*		3	1
2	4.93	CATO	-	Cyclotella atomus Hustedt	*		2	1
2	4.93	CPTG	-	Cocconeis placentula Ehrenberg abnormal form	*		1	3
2	4.93	ADEU	-	Achnanthidium eutrophilum (Lange-Bertalot)Lange-Bertalot	*		3	1
2	4.93	CAEX	-	Cymbella excisa Kützing var. excisa	*		4	2

Omnidia 5.3 2

2	4.93	ADMI	-	Achnanthidium minutissimum (Kützing) Czarnecki	*		5	1
2	4.93	PRST	-	Planothidium rostratum (Oestrup) Lange-Bertalot	*		4.4	1
2	4.93	NSOT	-	Nitzschia sociabilis Hustedt abnormal form	*		1	3
2	4.93	AOVA	-	Amphora ovalis (Kützing) Kützing	*		3	1
2	4.93	SIDE	-	Simonsenia delognei Lange-Bertalot	*		3	2
2	4.93	SSEM	NVDS	Sellaphora seminulum (Grunow) D.G. Mann	*		1.5	2
2	4.93	RUNI	-	Reimeria uniseriata Sala Guerrero & Ferrario	*		5	1
2	4.93	RSIN	-	Reimeria sinuata (Gregory) Kociolek & Stoermer	*		4.8	1
2	4.93	ENLB	-	Encyonema lange-bertalotii Krammer morphotype 1	*		4	1
2	4.93	ENMI	-	Encyonema minutum (Hilse in Rabh.) D.G. Mann	*		4	2
2	4.93	NVIR	-	Navicula viridula (Kützing) Ehrenberg	*		3	3
1	2.46	NLIN	-	Nitzschia linearis(Agardh) W.M.Smith var.linearis	*		3	2
1	2.46	NRCH	-	Navicula reichardtiana Lange-Bertalot var. reichardtiana	*		3.6	1
1	2.46	NREC	-	Nitzschia recta Hantzsch in Rabenhorst	*		3	2
1	2.46	FSBH	-	Fallacia subhamulata (Grunow in V. Heurck) D.G. Mann	*		4	1
1	2.46	TAPI	-	Tryblionella apiculata Gregory	*		2.4	2
1	2.46	SBKU	-	Surirella brebissonii var.kuetzingii Krammer et Lange-Bertalot	*		3	2
1	2.46	SPIN	-	Staurosirella pinnata (Ehr.) Williams & Round	*		4	1

IDSE/5 3.54

degradation low

organic pollution non-existent

anthropogenic eutrophication low

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Omnidia 5.3 1

SLIDE NUMBER	**222**
SITE NAME	59
RIVER	OGLIO
DATE	10/07/2011
Hydrologic code	59
Particularities	DMV PARMA ESTATE 2011

IPS	SLA	DESCY	IDAP	GENRE	CEE	SHE	WAT	
13.0	11.1	15.0	12.8	11.6	12.2	12.3	13.2	
TDI	IBD	DI-CH	EPI-D	IDP	LOBO	SID	TID	IDSE/5
69.0	14.7	10.6	12.1	11.6	13.7	12.4	7.2	3.58

QUALITY NOTES / 20

Number of species	67	Diversity	5.37	Genera number	27
Population	401	Evenness	0.89		

Number	o/oo	Code	ou	Designation	* : taxon	IBD	IPS S	IPS V
15	37.41	UULN	-	Ulnaria ulna (Nitzsch.) Compère	*		3	1
10	24.94	SPIN	-	Staurosirella pinnata (Ehr.) Williams & Round	*		4	1
9	22.44	COCE	-	Cyclotella ocellata Pantocsek	*		3	1
7	17.46	SBKU	-	Surirella brebissonii var.kuetzingii Krammer et Lange-Bertalot	*		3	2
6	14.96	RABB	-	Rhoicosphenia abbreviata (C.Agardh) Lange-Bertalot	*		4	1
5	12.47	FARC	-	Fragilaria arcus (Ehrenberg) Cleve var. arcus	*		5	2
5	12.47	GYKU	-	Gyrosigma kuetzingii (Grunow) Cleve			4	3
4	9.98	RSIN	-	Reimeria sinuata (Gregory) Kociolek & Stoermer	*		4.8	1
3	7.48	NXAS	-	Navicula associata Lange-Bertalot	*		3	1
2	4.99	GOMP	-	GOMPHONEMA C.G. Ehrenberg			3.6	2
2	4.99	PPRS	-	Pseudostaurosira parasitica (W.Smith) Morales	*		4	1
2	4.99	GOLI	-	Gomphonema olivaceum (Hornemann) Brébisson var. olivaceum	*		4.6	1
2	4.99	CAMP	-	Caloneis amphisbaena (Bory) Cleve fo.amphisbaena	*		2	3
2	4.99	NPTR	-	Nitzschia palea (Kützing) W.Smith abnormal fo.	*		1	3
2	4.99	DSTE	-	Discostella stelligera (Cleve et Grun.) Houk & Klee	*		4.2	1
2	4.99	ENVE	-	Encyonema ventricosum (Agardh) Grunow	*		4.8	1
2	4.99	GYOB	-	Gyrosigma obtusatum (Sullivan & Wormley) Boyer	*		2.8	3
2	4.99	TAPI	-	Tryblionella apiculata Gregory	*		2.4	2
2	4.99	EOCO	-	Eolimna comperei Ector. Coste et Iserentant	*		1.5	1
1	2.49	NDTG	-	Nitzschia dissipata (Kützing) Grunow abnormal form	*		1	3
1	2.49	CATO	-	Cyclotella atomus Hustedt	*		2	1
1	2.49	SPUP	-	Sellaphora pupula (Kützing) Mereschkowksy	*		2.6	2
40	99.75	ADMI	-	Achnanthidium minutissimum (Kützing) Czarnecki	*		5	1
34	84.79	NFON	-	Nitzschia fonticola Grunow in Cleve et Möller	*		3.5	1
21	52.37	APED	-	Amphora pediculus (Kützing) Grunow	*		4	1
20	49.88	ESLE	-	Encyonema silesiacum (Bleisch in Rabh.) D.G. Mann	*		5	2
19	47.38	DEHR	-	Diatoma ehrenbergii Kützing	*		4	3
14	34.91	CPLE	CEUG	Cocconeis placentula Ehrenberg var.euglypta (Ehr.) Grunow	*		3.6	1
13	32.42	NPAL	-	Nitzschia palea (Kützing) W.Smith	*		1	3
11	27.43	MAPE	MPMI	Mayamaea atomus var. permitis (Hustedt) Lange-Bertalot	*		2.3	1
11	27.43	NPAD	-	Nitzschia palea (Kützing) W.Smith var.debilis(Kützing)Grunow in Cl. & Gru	*		3	1
11	27.43	NDIS	-	Nitzschia dissipata(Kützing)Grunow var.dissipata	*		4.5	3
9	22.44	GPAR	-	Gomphonema parvulum (Kützing) Kützing var. parvulum f. parvulum	*		2	1
9	22.44	MVAR	-	Melosira varians Agardh	*		4	1
6	14.96	EOMI	SEMN	Eolimna minima(Grunow) Lange-Bertalot	*		3	1
6	14.96	NCTE	-	Navicula cryptotenella Lange-Bertalot	*		4	1
6	14.96	NCPR	-	Navicula capitatoradiata Germain	*		3	2
6	14.96	NROS	-	Navicula rostellata Kützing	*		3	3
6	14.96	RABB	-	Rhoicosphenia abbreviata (C.Agardh) Lange-Bertalot	*		4	1
5	12.47	NGRE	-	Navicula gregaria Donkin	*		3.4	1
4	9.98	FSAP	-	Fistulifera saprophila (Lange-Bertalot & Bonik) Lange-Bertalot	*		2	1

Omnidia 5.3 2

4	9.98	NANT	-	Navicula antonii Lange-Bertalot	*		4	1
4	9.98	FCRU	FRUM	Fragilaria capucina Desmazieres var. rumpens (Kützing) Lange-Bertalot	*		4	1
4	9.98	FCRO	-	Fragilaria crotonensis Kitton	*		4	1
4	9.98	NTPT	-	Navicula tripunctata (O.F.Müller) Bory	*		4.4	2
4	9.98	ESBM	-	Eolimna subminuscula (Manguin) Moser Lange-Bertalot & Metzeltin	*		2	1
4	9.98	NRCH	-	Navicula reichardtiana Lange-Bertalot var. reichardtiana	*		3.6	1
3	7.48	PSBR	SBRV	Pseudostaurosira brevistriata (Grun.in Van Heurck) Williams & Round	*		3	1
3	7.48	NTRV	-	Navicula trivialis Lange-Bertalot var. trivialis	*		2	3
3	7.48	CCMS	-	Cyclotella comensis Grunow in Van Heurck	*		4	3
2	4.99	CPED	-	Cocconeis pediculus Ehrenberg	*		4	2
2	4.99	AMMO	-	Amphora montana Krasske	*		2.8	1
2	4.99	CMEN	-	Cyclotella meneghiniana Kützing	*		2	1
2	4.99	CBAC	-	Caloneis bacillum (Grunow) Cleve	*		4	2
2	4.99	ADMT	-	Achnanthidium minutissimum (Kütz.) Czarnecki abnormal form	*		1	3
2	4.99	ENLB	-	Encyonema lange-bertalotii Krammer morphotype 1	*		4	1
2	4.99	GTER	-	Gomphonema tergestinum Fricke	*		4	3
2	4.99	GPEL	GELG	Gomphonema pumilum var. elegans Reichardt & Lange-Bertalot	*		5	1
2	4.99	NLAN	-	Navicula lanceolata (Agardh) Ehrenberg	*		3.8	1
2	4.99	NSIO	-	Nitzschia sigmoidea (Nitzsch)W. Smith	*		3	2
2	4.99	PLFR	-	Planothidium frequentissimum(Lange-Bertalot)Lange-Bertalot	*		3.4	1
2	4.99	GMIC	-	Gomphonema micropus Kützing var. micropus	*		3	1
2	4.99	FCVA	-	Fragilaria capucina Desmazieres var.vaucheriae(Kützing)Lange-Bertalot	*		3.4	1
1	2.49	CATO	-	Cyclotella atomus Hustedt	*		2	1
1	2.49	NAAM	-	Navicula amphiceropsis Lange-Bertalot & Rumrich	*		3	3
1	2.49	ENMI	-	Encyonema minutum (Hilse in Rabh.) D.G. Mann	*		4	2
1	2.49	ADBI	-	Achnanthidium biasolettianum (Grunow in Cl. & Grun.) Lange-Bertalot	*		5	2

IDSE/5 3.58
degradation low
organic pollution low
saprobiology (multiparametric) low

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Omnidia 5.3 1

SLIDE NUMBER	**223**
SITE NAME	63
RIVER	OGLIO
DATE	10/07/2011
Hydrologic code	63
Particularities	DMV PARMA ESTATE 2011

IPS	SLA	DESCY	IDAP	GENRE	CEE	SHE	WAT	
11.3	10.4	13.6	11.8	9.9	10.7	11.9	11.4	
TDI	IBD	DI-CH	EPI-D	IDP	LOBO	SID	TID	IDSE/5
78.9	12.5	8.0	10.0	10.2	12.2	11.4	6.1	3.31

QUALITY NOTES / 20

Number of species	65	Diversity	5.46	Genera number	27
Population	400	Evenness	0.91		

Number	o/oo	Code	ou	Designation	* : taxon	IBD	IPS S	IPS V
27	67.50	NFON	-	Nitzschia fonticola Grunow in Cleve et Möller	*		3.5	1
22	55.00	NDIS	-	Nitzschia dissipata(Kützing)Grunow var.dissipata	*		4.5	3
20	50.00	ADMI	-	Achnanthidium minutissimum (Kützing) Czarnecki	*		5	1
20	50.00	NPAL	-	Nitzschia palea (Kützing) W.Smith	*		1	3
19	47.50	NPAD	-	Nitzschia palea (Kützing) W.Smith var.debilis(Kützing)Grunow in Cl. & Gru	*		3	1
18	45.00	APED	-	Amphora pediculus (Kützing) Grunow	*		4	1
16	40.00	NCTE	-	Navicula cryptotenella Lange-Bertalot	*		4	1
15	37.50	CPLE	CEUG	Cocconeis placentula Ehrenberg var.euglypta (Ehr.) Grunow	*		3.6	1
15	37.50	EOMI	SEMN	Eolimna minima(Grunow) Lange-Bertalot	*		3	1
13	32.50	GPAR	-	Gomphonema parvulum (Kützing) Kützing var. parvulum f. parvulum	*		2	1
12	30.00	MVAR	-	Melosira varians Agardh	*		4	1
11	27.50	FSAP	-	Fistulifera saprophila (Lange-Bertalot & Bonik) Lange-Bertalot	*		2	1
10	25.00	NROS	-	Navicula rostellata Kützing	*		3	3
10	25.00	NGER	-	Navicula germainii Wallace	*		3	2
9	22.50	NCPR	-	Navicula capitatoradiata Germain	*		3	2
8	20.00	ESBM	-	Eolimna subminuscula (Manguin) Moser Lange-Bertalot & Metzeltin	*		2	1
7	17.50	NTPT	-	Navicula tripunctata (O.F.Müller) Bory	*		4.4	2
7	17.50	NANT	-	Navicula antonii Lange-Bertalot	*		4	1
6	15.00	RSIN	-	Reimeria sinuata (Gregory) Kociolek & Stoermer	*		4.8	1
6	15.00	NZSU	-	Nitzschia supralitorea Lange-Bertalot	*		1.5	2
6	15.00	NIAR	-	Nitzschia archibaldii Lange-Bertalot	*		3.8	2
5	12.50	DVUL	-	Diatoma vulgaris Bory	*		4	1
5	12.50	NERI	-	Navicula erifuga Lange-Bertalot	*		2	3
5	12.50	CMEN	-	Cyclotella meneghiniana Kützing	*		2	1
5	12.50	NTRV	-	Navicula trivialis Lange-Bertalot var. trivialis	*		2	3
5	12.50	NAAM	-	Navicula amphicéropsis Lange-Bertalot & Rumrich	*		3	3
5	12.50	PLFR	-	Planothidium frequentissimum(Lange-Bertalot)Lange-Bertalot	*		3.4	1
4	10.00	GYKU	-	Gyrosigma kuetzingii (Grunow) Cleve			4	3
4	10.00	CSOL	-	Cymatopleura solea (Brebisson in Breb. & Godey) W.Smith var.solea	*		4	2
4	10.00	DEHR	-	Diatoma ehrenbergii Kützing	*		4	3
4	10.00	NLIN	-	Nitzschia linearis(Agardh) W.M.Smith var.linearis	*		3	2
4	10.00	SPUP	-	Sellaphora pupula (Kützing) Mereschkowksy	*		2.6	2
4	10.00	LGOE	-	Luticola goeppertiana (Bleisch in Rabenhorst) D.G. Mann	*		2	2
4	10.00	AOVA	-	Amphora ovalis (Kützing) Kützing	*		3	1
4	10.00	NAMP	-	Nitzschia amphibia Grunow f.amphibia	*		2	2
4	10.00	EPRO	-	Encyonema prostratum (Berkeley) Kützing	*		4	3
3	7.50	NSOC	-	Nitzschia sociabilis Hustedt	*		3	3
3	7.50	SBKU	-	Surirella brebissonii var.kuetzingii Krammer et Lange-Bertalot	*		3	2
3	7.50	ENVE	-	Encyonema ventricosum (Agardh) Grunow	*		4.8	1
3	7.50	CATO	-	Cyclotella atomus Hustedt	*		2	1
3	7.50	GDEC	-	Geissleria decussis(Ostrup) Lange-Bertalot & Metzeltin	*		4.8	2

Omnidia 5.3 2

2	5.00	UBIC	-	Ulnaria biceps (Kützing) Compère	*		3	1
2	5.00	UULN	-	Ulnaria ulna (Nitzsch.) Compère	*		3	1
2	5.00	NDTG	-	Nitzschia dissipata (Kützing) Grunow abnormal form	*		1	3
2	5.00	SANG	-	Surirella angusta Kützing	*		4	1
2	5.00	ADMM	AMUR	Adlafia minuscula var. muralis (Grunow) Lange-Bertalot	*		2	1
2	5.00	GITA	-	Gomphonema italicum Kützing			5	3
2	5.00	GACC	-	Geissleria acceptata (Hust.) Lange-Bertalot & Metzeltin	*		5	2
2	5.00	NAAF	-	Nitzschia acicularis(Kützing) W.M.Smith abnormal form	*		1	3
2	5.00	SPIN	-	Staurosirella pinnata (Ehr.) Williams & Round	*		4	1
2	5.00	NCTO	-	Navicula cryptotenelloides Lange-Bertalot	*		3.5	1
2	5.00	NCTV	-	Navicula caterva Hohn & Hellerman	*		3	1
2	5.00	GPEL	GELG	Gomphonema pumilum var. elegans Reichardt & Lange-Bertalot	*		5	1
2	5.00	GSCI	-	Gyrosigma sciotense (Sullivan et Wormley) Cleve	*		4	3
2	5.00	NRCH	-	Navicula reichardtiana Lange-Bertalot var. reichardtiana	*		3.6	1
2	5.00	NCRY	-	Navicula cryptocephala Kützing	*		3.5	2
2	5.00	CBAC	-	Caloneis bacillum (Grunow) Cleve	*		4	2
2	5.00	PSBR	SBRV	Pseudostaurosira brevistriata (Grun.in Van Heurck) Williams & Round	*		3	1
2	5.00	RABB	-	Rhoicosphenia abbreviata (C.Agardh) Lange-Bertalot	*		4	1
1	2.50	GSCA	GYOB	Gyrosigma scalproides (Rabenhorst)Cleve	*		2.8	3
1	2.50	NACI	-	Nitzschia acicularis(Kützing) W.M.Smith	*		2	2
1	2.50	ESBT	-	Eolimna subminuscula (Mang.) Moser Lange-Bert.&Metzeltin abnormal form	*		1	3
1	2.50	NLAN	-	Navicula lanceolata (Agardh) Ehrenberg	*		3.8	1
1	2.50	NREC	-	Nitzschia recta Hantzsch in Rabenhorst	*		3	2
1	2.50	NSIO	-	Nitzschia sigmoidea (Nitzsch)W. Smith	*		3	2

IDSE/5 3.31
degradation moderate
organic pollution moderate
anthropogenic eutrophication low

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