

**Tab. A.1.1: BA Twielenfleth - Faunistische Besiedlung nach Baumaßnahme**

Probenahme vom 08. Mai 2001

**Faunenspektrum der Wirbellosen & Abundanz [Individuen/m<sup>2</sup>]**

Taxon	System	L 1 Ind./m <sup>2</sup>	L 2 Ind./m <sup>2</sup>	L 3 Ind./m <sup>2</sup>	L 4 Ind./m <sup>2</sup>	L 5 Ind./m <sup>2</sup>	L 6 Ind./m <sup>2</sup>	L 7 Ind./m <sup>2</sup>	L 8 Ind./m <sup>2</sup>	L 9 Ind./m <sup>2</sup>	L 10 Ind./m <sup>2</sup>	L 11 Ind./m <sup>2</sup>	L 12 Ind./m <sup>2</sup>	L 13 Ind./m <sup>2</sup>	L 14 Ind./m <sup>2</sup>	L 15 Ind./m <sup>2</sup>	L 16 Ind./m <sup>2</sup>
Foraminifera indet.	Rhizopoda	637	0	446	7.830	0	0	0	509	0	0	0	0	0	64	509	446
<i>Hydra</i> sp.	Cnidaria	0	0	0	0	0	0	127	0	0	0	0	0	64	0	0	0
<i>Cordylophora caspia</i>	Cnidaria	0	0	64	64	0	0	255	0	318	0	0	64	64	0	700	0
Turbellaria	Scolecida	9.295	4.584	828	1.719	0	9.995	20.626	1.719	5.475	764	2.037	12.541	63.980	318	2.101	1.210
Nematoda	Scolecida	1.019	700	318	1.210	0	1.082	23.682	12.223	191	318	3.947	1.146	4.775	318	2.610	446
<i>Dreissena polymorpha</i>	Bivalvia	0	64	64	0	0	0	64	0	0	0	0	0	0	0	0	0
<i>Pisidium</i> cf. <i>annicum</i>	Bivalvia	0	0	0	0	0	0	0	0	0	0	0	0	64	0	0	0
<i>Pisidium</i> sp.	Bivalvia	0	0	64	0	0	0	0	0	0	0	0	0	0	0	0	0
Polychaeta indet.	Polychaeta	127	0	0	64	0	0	0	0	0	0	0	0	0	0	0	0
<i>Marenzelleria</i> cf. <i>viridis</i>	Polychaeta	64	0	318	64	0	0	127	0	0	0	0	0	0	64	191	0
<i>Aeolosoma</i> sp.	Aeolosomatidae	0	0	0	0	0	0	0	64	0	0	0	0	0	0	0	0
<i>Amphichaeta sannio</i>	Naididae	127	0	0	573	0	0	127	64	0	0	0	0	0	64	382	127
<i>Nais elinguis</i>	Naididae	0	0	0	0	0	0	64	0	0	0	0	0	0	0	0	0
<i>Stylaria lacustris</i>	Naididae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	64	0
<i>Vjedovskyaella intermedia</i>	Naididae	0	0	64	1.082	0	64	0	127	0	0	0	0	0	0	2.292	191
<i>Propappus volki</i>	Propappidae	0	446	0	0	0	0	64	0	0	0	0	2.483	382	0	0	0
Enchytraeidae indet.	Enchytraeidae	64	0	0	0	0	0	0	0	0	0	0	127	0	0	0	0
<i>Enchytraeus</i> sp.	Enchytraeidae	0	64	0	0	0	0	64	0	0	0	64	127	191	0	0	0
<i>Pachydrilus</i> sp.	Enchytraeidae	64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Limnodrilus claparedeanus</i>	Tubificidae	0	0	255	0	0	0	0	0	0	255	0	0	0	0	0	0
<i>Limnodrilus hoffmeisteri</i>	Tubificidae	891	0	2.546	5.284	0	0	318	0	3.756	0	0	0	0	1.337	3.310	1.655
<i>Limnodrilus profundicola</i>	Tubificidae	64	0	255	509	0	0	64	0	509	0	0	0	0	191	255	64
<i>Potamotheix hammoniensis</i>	Tubificidae	0	0	0	0	0	0	0	0	127	0	0	0	0	0	0	0
<i>Potamotheix moldaviensis</i>	Tubificidae	191	0	1.337	127	0	0	64	0	1.273	0	0	0	0	764	955	318
<i>Tubifex</i> cf. <i>tubifex</i>	Tubificidae	0	0	64	0	0	0	0	0	0	0	0	0	0	0	0	64
Tubificidae o. HB	Tubificidae	2.610	127	6.048	2.228	0	255	0	446	0	7.512	0	191	0	2.292	4.329	700
Tubificidae m. HB	Tubificidae	127	0	0	0	0	0	0	255	0	255	0	0	0	0	0	127
Oligochaeta juvenil	Oligochaeta	1.655	0	2.674	3.247	0	127	191	318	318	2.483	127	1.273	191	191	5.602	2.165
Oligochäten-Kokons	Oligochaeta	1.273	446	7.385	14.897	0	700	955	255	0	6.621	318	191	382	3.247	9.231	8.403
Eigelege (Wirbellose)	niedere Wirbellose	54.495	2.737	16.743	4.393	0	2.674	16.297	11.141	2.037	64	19.863	38.070	9.931	64	382	4.456
<i>Bathyporeia pilosa</i>	Crustacea	64	0	0	0	0	127	0	318	0	0	0	0	0	0	64	0
Chironomidae indet.	Diptera	0	64	0	64	0	0	0	0	0	0	0	0	0	0	0	0
Fischei (Laich)	Pisces	0	0	64	573	0	0	64	191	0	318	0	0	573	191	191	127
<b>Summen gesamt</b>		<b>72.766</b>	<b>9.231</b>	<b>39.534</b>	<b>43.927</b>	<b>0</b>	<b>15.024</b>	<b>62.643</b>	<b>28.139</b>	<b>8.340</b>	<b>24.255</b>	<b>26.356</b>	<b>56.214</b>	<b>80.596</b>	<b>9.104</b>	<b>33.168</b>	<b>20.499</b>
<b>Taxazahl einschl. Eistadien</b>		<b>14</b>	<b>9</b>	<b>18</b>	<b>17</b>	<b>0</b>	<b>8</b>	<b>14</b>	<b>16</b>	<b>5</b>	<b>12</b>	<b>6</b>	<b>10</b>	<b>11</b>	<b>13</b>	<b>17</b>	<b>15</b>

**Tab. A.1.2: BA Twielenfleth - Faunistische Besiedlung nach Baumaßnahme**  
**Probenahme vom 08. Mai 2001**  
**Zusammenfassung verwandter Großgruppen & Abundanzen [Individuen/m²]**

Taxon		L 1	L 2	L 3	L 4	L 5	L 6	L 7	L 8	L 9	L 10	L 11	L 12	L 13	L 14	L 15	L 16
		Ind./m²	Ind./m²	Ind./m²	Ind./m²	Ind./m²	Ind./m²	Ind./m²	Ind./m²	Ind./m²	Ind./m²	Ind./m²	Ind./m²	Ind./m²	Ind./m²	Ind./m²	Ind./m²
Summe reife Tubificidae	Oligochaeta	1.146	0	4.456	5.921	0	0	64	382	0	5.921	0	0	0	2.292	4.520	2.101
Summe unreife Tubificidae	Oligochaeta	2.737	127	6.048	2.228	0	255	0	700	0	7.767	0	191	0	2.292	4.329	828
Oligochaeta, juvenil	Oligochaeta	1.655	0	2.674	3.247	0	127	191	318	318	2.483	127	1.273	191	191	5.602	2.165
Summe Naididae	Oligochaeta	127	0	64	1.655	0	64	191	191	0	0	0	0	0	64	2.737	318
<i>Propappus volki</i>	Oligochaeta	0	446	0	0	0	0	64	0	0	0	0	2.483	382	0	0	0
Summe Enchytraeidae	Oligochaeta	127	64	0	0	0	0	64	0	0	0	64	255	191	0	0	0
Oligochäten-Kokons	Oligochaeta	1.273	446	7.385	14.897	0	700	955	255	0	6.621	318	191	382	3.247	9.231	8.403
Summe Eigelege + Fischlaich	Wirbellose	54.495	2.737	16.807	4.966	0	2.674	16.361	11.332	2.037	382	19.863	38.070	10.504	255	573	4.584
Summe Sonstige	Wirbellose	891	127	955	8.085	0	127	446	1.019	318	0	0	64	191	127	1.464	446
Turbellaria	Scolecida	9.295	4.584	828	1.719	0	9.995	20.626	1.719	5.475	764	2.037	12.541	63.980	318	2.101	1.210
Nematoda	Scolecida	1.019	700	318	1.210	0	1.082	23.682	12.223	191	318	3.947	1.146	4.775	318	2.610	446
<b>Kontrolle</b>		<b>72.766</b>	<b>9.231</b>	<b>39.534</b>	<b>43.927</b>	<b>0</b>	<b>15.024</b>	<b>62.643</b>	<b>28.139</b>	<b>8.340</b>	<b>24.255</b>	<b>26.356</b>	<b>56.214</b>	<b>80.596</b>	<b>9.104</b>	<b>33.168</b>	<b>20.499</b>

Annelida: Segmente o. Kopf	[Segment/8 StR]	19	0	39	54	0	0	0	0	0	60	0	0	0	21	96	11
<b>Schill:</b>																	
Bithynia tentaculata	[Gehäuse/8 StR]			1													
Dreissena polymorpha	[Schalen/8 StR]		3	4										3		1	
Rotatoria 1)	Nachweis	+					+	+	+				+	+			+
Cladocera 2)	Nachweis	+	+		+												+
Copepoda 3)	Nachweis	+	+	+			+	+	+		+	+	+	+	+	+	+

1) = überwiegend *Keratella* spp.  
2) = überwiegend *Bosmina* sp.  
3) = überwiegend *Eurytemora affinis*

	L 1	L 2	L 3	L 4	L 5	L 6	L 7	L 8	L 9	L 10	L 11	L 12	L 13	L 14	L 15	L 16
Foraminifera	0	0	446	7.830	0	0	0	509	0	0	0	0	0	64	509	382
Cnidaria	0	0	64	64	0	0	372	0	318	0	0	64	127	0	700	0
Turbellaria	7.576	4.584	828	1.719	0	9.995	20.626	1.719	5.475	764	2.037	12.541	63.980	318	2.101	1.210
Nematoda	955	700	318	1.210	0	1.082	23.682	12.223	191	318	3.947	1.146	4.775	318	2.610	446
Bivalvia	0	64	127	0	0	0	64	0	0	0	0	0	64	0	0	0
Polychaeta	127	0	318	127	0	0	0	127	0	0	0	0	0	64	191	0
Oligochaeta	5.793	637	13.242	13.051	0	446	573	1.655	318	16.170	191	4.202	764	4.838	17.189	5.411
Crustacea	64	0	0	0	0	127	0	318	0	0	0	0	0	0	64	0
Insecta	0	64	0	64	0	0	0	0	0	0	0	0	0	0	0	0
Kokons + Eigelege	52.457	3.183	24.128	19.290	0	3.374	17.252	11.395	2.037	6.685	20.181	38.261	10.313	3.310	9.613	10.950
Fischlaich	0	0	64	573	0	0	64	191	0	318	0	0	573	191	191	127

**Datengrundlage für Abb. 1b (=3D-Bild):**

	L 1	L 1 (RSW)	L2-L5	L2-L5 (RTWL6-L12)	L6-L12 (BAL13-L16)	L13-L16 (RTO)		
Foraminifera	0	0,0	2.759	18,2	73	0,4	239	0,9
Cnidaria	0	0,0	43	0,3	108	0,6	207	0,8
Turbellaria	7.576	64,3	2.377	15,7	7.594	43,9	16.902	63,7
Nematoda	955	8,1	743	4,9	6.084	35,1	2.037	7,7
Bivalvia	0	0,0	64	0,4	9	0,1	16	0,1
Polychaeta	127	1,1	148	1,0	18	0,1	64	0,2
Oligochaeta	3.056	25,9	8.976	59,2	3.365	19,4	7.051	26,6
Crustacea	64	0,5	0	0,0	64	0,4	16	0,1
Insecta	0	0,0	42	0,3	0	0,0	0	0,0
<b>Summen</b>	<b>11.777</b>	<b>100</b>	<b>15.151</b>	<b>100</b>	<b>17.315</b>	<b>100</b>	<b>26.531</b>	<b>100</b>
Kokons + Eigelege	52.457	82	15.534	50	14.169	45	8.547	24
Fischlaich	0	0	212	1	82	0	271	1

**Datengrundlage für Abb. 4 (= 2D):**

	L 5	L 4	L 3	L 2	L 6	L 7	L 8	L 9	L 10	L 11	L 12	L 13	L 14	L 15	L 16
Summe reife Tubificidae	0	5.921	4.456	0	64	382	0	5.921	0	0	0	2.292	4.520	1.910	
Summe unreife Tubificidae	0	2.228	6.048	127	255	700	0	7.767	0	191	0	2.292	4.329	700	
Oligochaeta, juvenil	0	3.247	2.674	0	127	191	318	318	2.483	127	1.273	191	191	5.602	2.037
Summe Naididae	0	1.655	64	0	64	191	191	0	0	0	0	64	2.737	255	
Propappus volki	0	0	0	446	0	64	0	0	0	2.483	382	0	0	0	
Summe Enchytraeidae	0	0	0	64	0	64	0	0	64	255	191	0	0	0	
Oligochäten-Kokons	0	14.897	7.385	446	700	955	255	0	6.621	318	191	382	3.247	9.231	6.494
Summe Eigelege + Fischlaich	0	4.966	16.807	2.737	2.674	16.361	11.332	2.037	382	19.863	38.070	10.504	255	573	4.584
Summe Sonstige	0	8.085	955	127	127	446	1.019	318	0	64	191	127	1.464	382	
Turbellaria	0	1.719	828	4.584	9.995	20.626	1.719	5.475	764	2.037	12.541	63.980	318	2.101	1.210
Nematoda	0	1.210	318	700	1.082	23.682	12.223	191	318	3.947	1.146	4.775	318	2.610	446

**Datengrundlage für Abb. 2 (= 2D-Bild)**

	L 5	L 4	L 3	L 2	L 6	L 7	L 8	L 9	L 10	L 11	L 12	L 13	L 14	L 15	L 16	
sonstige WBF	0	8.085		955	191	0	509	700	318	0	64	318	382	127	1.401	382
Amphipoda	0	0	0	0	0	127	0	318	0	0	0	0	0	0	64	0
Nematoda	0	1.210	318	700	1.082	23.682	12.223	191	318	3.947	1.146	4.775	318	2.610	446	
Turbellaria	0	1.719	828	4.584	9.995	20.626	1.719	5.475	764	2.037	12.541	63.980	318	2.101	1.210	
Propappidae	0	0	0	446	0	64	0	0	0	0	2.483	382	0	0	0	
Naididae	0	1.655	64	0	64	191	191	0	0	0	0	0	64	2.737	255	
Tubificidae	0	8.149	10.504	127	255	64	1.082	0	13.687	0	191	0	4.584	8.849	2.610	
Oligochaeta (juv. + Kokons)	0	18.144	10.059	446	828	1.146	573	318	9.104	446	1.464	573	3.438	14.833	8.531	

**Datengrundlage für Abb. 3 (= 2D-Bild)**

	MWges	MWWatt	MWFwz	MWTwz	MWRTW	MWBAT	MWRTO
sonstige WBF	959	350	1.613	329	3.077	273	573
Amphipoda	36	0	53	21	0	64	16
Nematoda	3.783	318	7.088	1.390	743	6.084	2.037
Turbellaria	9.135	3.342	6.568	15.374	2.377	7.594	16.902
Propappidae	241	0	424	552	149	364	95
Naididae	373	127	340	32	573	64	764
Tubificidae	3.579	1.305	3.862	2.610	6.260	2.183	4.011
Oligochaeta (juv. + Kokons)	4.993	4.425	5.146	2.801	9.549	1.983	6.844
<b>Summe</b>	<b>23.100</b>	<b>9.868</b>	<b>25.093</b>	<b>23.109</b>	<b>22.727</b>	<b>18.607</b>	<b>31.242</b>

**Datengrundlage für Abb. 1a (= 2D-Bild)**

	L 1	L 2	L 3	L 4	L 5	L 6	L 7	L 8	L 9	L 10	L 11	L 12	L 13	L 14	L 15	L 16
Individuenzahl/m <sup>2</sup> (Gesamtdicht)	64235	9231	39534	43927	0	15024	62643	28139	8340	24255	26356	56214	80596	9104	33168	18016
Taxazahl einschl. div. Eistadien/!	14	9	18	17	0	8	14	16	5	12	6	10	11	13	17	15
Individuenzahl/m <sup>2</sup> (Gesamtdichte)	L 1	L 2	L 3	L 4	L 5	L 6	L 7	L 8	L 9	L 10	L 11	L 12	L 13	L 14	L 15	L 16
Taxazahl einschl. div. Eistadien/Station		20.105	41.053	13.158	11.158	48.500	4.211	121.157	108.632	14.947	8.421	36.316	5.368	2.737	11.368	8.842
		9	10	11	15	5	7	16	8	15	10	5	5	8	14	10