

ภาคผนวก

ภาคผนวกที่ 1 ตัวแปรด้านสิ่งแวดล้อมในแต่ละสถานี

Site	A.temp (°C)	W.temp (°C)	Depth (m)	Velocity (m/sec)	pH	DO (mg/L)	TDS (mg/L)	EC (µS/cm)	Forest (%)	Cobble (gm)	Pebble (gm)	Gravel (gm)	Sand (gm)	Silt (gm)	Leaf & twig(gm)
1	24	23.3	0.44	0.48	7.5	7	294	441	D3	2453	105	960	60	12	0
1	24	22.1	0.14	0.56	7.5	6.9	295	443	D3	2020	910	870	50	12	0
1	24	22	0.06	0.48	7.5	6.8	295	443	D3	1180	1115	680	100	26	0
2	25	24.5	0.25	0.4	7.6	6.8	297	446	D3	112	1214	2236	338	94	0
2	24.5	23.2	0.25	0.16	7.7	6.8	296	444	D3	438	1534	1452	410	120	0
2	24.5	22.5	0.16	0.08	7.7	6.9	296	444	D3	0	556	2124	478	196	0
3	26	22.7	0.07	0.81	7.8	6.8	296	443	D3	252	304	170	8	5	0
3	26	22.9	0.08	0.72	7.9	6.8	296	443	D3	170	200	948	134	34	0
3	26	22.6	0.21	0.08	7.9	6.8	296	443	D3	94	218	45	158	2	0
4	25	23.1	0.13	0.32	7.7	5.5	302	454	D3	56	260	636	226	32	0
4	25	22.8	0.07	0.48	7.7	5.4	304	456	D3	524	472	1048	20	28	0
4	25	22.7	0.06	0.24	7.7	5.3	303	454	D3	0	92	640	444	36	0
5	25.5	22.5	0.1	0.56	7.9	6.3	296	444	D3	696	760	1062	58	4	0
5	25.5	22.7	0.02	0.4	7.9	6.4	297	445	D3	48	534	1858	114	16	0
5	25.5	22.6	0.24	0.24	8	6.4	297	446	D3	96	1170	1540	180	16	0
6	24.8	22.5	0.06	0.56	8	6.6	298	446	D3	0	176	1454	252	34	0
6	25	22.5	0.06	0.64	8	6.6	298	446	D3	26	410	1234	154	12	0
6	25	22.5	0.1	0.48	7.9	6.4	297	446	D3	50	314	610	610	40	0
7	25	22.3	0.1	0.4	7.9	6.4	299	448	D1	44	172	1616	380	30	0
7	24.5	22.4	0.12	0.08	7.9	6.4	298	448	D1	56	176	262	48	12	0
7	24.5	22.2	0.34	0.08	7.9	6.4	299	450	D1	0	14	924	290	691	0
8	25	22.5	0.12	0.24	7.9	6.5	298	448	D3	0	0	256	58	42	0
8	25	22.3	0.07	0.4	7.9	6.45	298	448	D3	852	582	300	10	3	0
8	24.5	22.3	0.08	0.64	7.9	6.6	299	448	D3	882	298	194	12	0	0
9	23.5	22.2	0.1	0.48	7.9	7	298	447	D3	334	704	708	104	26	0
9	23.5	22.3	0.13	1.05	7.9	7	296	445	D3	530	526	378	26	3	0
9	23.5	22	0.07	0.4	7.9	7	298	447	D3	830	696	548	50	2	0
10	24	22.2	0.1	0.08	7.9	7	296	443	D3	0	0	724	324	4	0
10	24.5	22.3	0.22	0.24	7.9	7	297	445	D3	72	526	662	54	20	0
10	24	22	0.22	0.24	7.9	7	297	445	D3	2113	464	258	22	6	0

ภาคผนวกที่ 1 ตัวแปรด้านสิ่งแวดล้อมในแต่ละสถานี (ต่อ)

Site	A.temp (°C)	W.temp (°C)	Depth (m)	Velocity (m/sec)	pH	DO (mg/L)	TDS (mg/L)	EC (µS/cm)	Forest (%)	Cobble (gm)	Pebble (gm)	Gravel (gm)	Sand (gm)	Silt (gm)	Leaf & twig(gm)
11	24.5	22.3	0.06	0.72	8	7	298	448	D3	0	0	0	0	0	28
11	24.5	22.2	0.1	0.72	8	7	298	447	D3	0	96	1220	286	46	0
11	25	22.2	0.05	0.48	8	6.8	297	446	D3	0	336	948	78	4	0
12	25	22.1	0.11	0.89	8	6.9	298	448	D2	0	82	750	158	97	0
12	25	22.2	0.31	0.24	8	6.9	298	447	D2	0	38	18	8	4	8
12	25	22.2	0.09	0.32	8	6.9	298	448	D3	0	214	200	200	7	0
13	25.4	22.3	0.1	0.44	8	6.8	299	448	D1	60	132	1154	230	108	0
13	25.5	22.4	0.1	0.72	8.1	6.8	298	446	D1	290	908	622	62	23	0
13	25.5	22.5	0.09	0.64	8.1	6.8	297	446	D1	572	48	60	16	2	0
14	25.5	22.3	0.24	0.4	8.1	6.8	298	447	D1	0	8	276	226	248	0
14	25.5	22.5	0.22	0.56	8.1	6.9	297	446	20	42	3	382	178	138	0
14	25.5	22.3	0.24	0.64	8.1	6.8	298	447	D1	0	64	538	210	18	0
15	25.2	22.5	0.07	0.64	8.1	7	297	446	D3	0	304	954	200	68	0
15	25.2	22.5	0.05	0.64	8.1	6.9	297	445	D3	238	814	768	84	8	0
15	25.2	22.5	0.09	0.81	8.1	6.9	297	445	D3	90	640	748	114	14	0
16	25	22.4	0.17	0.48	8.1	7	298	446	D3	0	0	838	446	58	0
16	25	22.5	0.22	0.32	8.1	6.9	297	446	D3	0	10	988	570	92	0
16	25	22.6	0.15	0.64	8.1	6.9	296	443	D3	512	52	372	152	48	0
17	27	23.8	0.14	0.64	7.5	7.2	247	384	T	0	20	284	358	168	0
17	27	23.8	0.43	0.4	7.5	7.2	255	378	T	0	0	122	546	316	0
17	27	23.3	0.4	0.56	7.8	7	256	381	T	0	124	430	80	14	0
18	27	22.5	0.34	0.16	7.6	7	253	368	T	0	0	30	16	32	8
18	27	22.4	0.35	0.16	7.8	7	256	369	T	0	0	42	30	12	0
18	27	22.5	0.5	0.16	7.8	7	252	375	T	0	0	12	112	502	0
19	28	22.6	0.3	0.14	7.9	7.6	253	372	T	394	364	44	2	2	0
19	28	22.5	0.5	0.16	7.9	6.8	238	352	T	0	36	132	220	126	0
19	28	22.5	0.61	0.16	8	6.7	239	356	T	0	0	60	24	28	0
20	28	23	0.06	0.4	8	6.9	239	353	D1	240	280	184	2	2	0
20	28	23	0.1	0.56	8	6.9	247	365	D1	110	370	312	20	6	0
20	28	23.2	0.21	0.56	8	7	243	365	D1	194	300	188	14	1	0

ภาคผนวกที่ 1 ตัวแปรด้านสิ่งแวดล้อมในแต่ละสถานี (ต่อ)

Site	A.temp (°C)	W.temp (°C)	Depth (m)	Velocity (m/sec)	pH	DO (mg/L)	TDS (mg/L)	EC (μs/cm)	Forest (%)	Cobble (gm)	Pebble (gm)	Gravel (gm)	Sand (gm)	Silt (gm)	Leaf & twig(gm)
21	28.2	23.2	0.16	0.4	7.9	6.8	241	362	D1	0	70	838	340	28	0
21	28.2	23	0.15	0.72	7.9	6.9	241	357	D1	70	196	312	60	4	0
21	28.5	23.2	0.15	0.45	8	7	241	360	D1	370	474	264	20	6	0
22	28.5	24	0.42	0.41	7.9	6.7	249	368	T	0	0	54	560	124	0
22	28.7	23.3	0.17	0.16	7.9	6.8	252	376	T	0	0	20	216	182	0
22	28.8	24.2	0.24	0.32	7.9	6.5	245	366	T	0	0	40	464	228	0
23	29	23.4	0.31	0.48	7.9	6.8	250	372	T	0	66	80	74	26	0
23	29	23.7	0.3	0.16	7.9	6.8	249	370	T	0	0	20	12	2	0
23	30	24.4	0.45	0.72	7.8	6.8	245	365	T	0	0	560	234	30	0
24	30.5	24.9	0.64	0.21	7.6	6.2	258	382	T	0	0	54	14	6	30
24	31	23.9	0.44	0.32	7.7	6.3	262	390	T	0	0	0	6	2	16
24	32	23.4	0.4	0.32	7.5	6.5	263	392	T	0	42	58	382	96	0
25	28	24.5	0.31	0.72	7.6	6.2	263	388	D1	0	244	314	12	3	0
25	28	24.2	0.22	0.52	7.7	6.2	261	387	D1	0	0	170	72	92	86
25	28	23.2	0.22	0.64	7.6	7	261	390	D1	0	202	208	24	4	0
26	28.5	24.2	0.32	0.56	7.8	6.4	262	392	D1	0	0	150	198	34	0
26	28.5	23	0.21	0.32	8	7	262	392	D1	0	14	198	224	144	0
26	28.5	23.2	0.45	0.32	7.9	6.2	263	395	D1	0	0	10	8	4	0
27	27	23	0.23	0.56	7.9	6.4	264	395	D1	90	66	200	40	8	0
27	27	23	0.26	0.48	8	6.4	265	395	D1	22	72	104	40	14	0
27	27	23	0.3	0.4	7.8	6.4	255	382	D1	42	300	174	24	2	0
28	27	23	0.15	0.4	8	6.4	262	391	D1	82	92	378	166	50	0
28	27	23.2	0.16	0.89	7.9	6.2	264	395	D1	0	394	642	58	6	0
28	27	23	0.2	0.4	7.9	6.6	261	390	D1	0	106	490	188	48	0
29	26	23	0.26	0.81	8	6.6	260	384	D1	0	0	6	12	5	0
29	26	23	0.19	1.24	8	6.4	264	395	D1	90	226	0	28	1	0
29	26	22.9	0.25	0.72	8	6.2	263	393	D1	0	0	116	36	42	0
30	26	23	0.35	0.4	8.1	6.8	259	383	D2	0	0	2	2	0	10
30	26	23	0.23	0.64	8	6.4	261	390	D2	0	8	36	130	256	0
30	26	22.9	0.26	0.48	8	6.4	263	394	D2	0	34	112	36	12	0

ภาคผนวกที่ 1 ตัวแปรด้านสิ่งแวดล้อมในแต่ละสถานี (ต่อ)

Site	A.temp (°C)	W.temp (°C)	Depth (m)	Velocity (m/sec)	pH	DO (mg/L)	TDS (mg/L)	EC (µs/cm)	Forest (%)	Cobble (gm)	Pebble (gm)	Gravel (gm)	Sand (gm)	Silt (gm)	Leaf & twig(gm)
31	26	22.9	0.1	0.56	8	6.4	263	395	D2	0	18	400	96	8	0
31	26	22.9	0.23	0.24	8	6.4	263	394	D2	0	14	276	252	250	0
31	26	22.9	0.12	0.97	7.9	6.4	264	394	D2	0	112	900	228	16	0
32	26	23	0.25	0.32	8.1	6.6	262	392	T	482	268	42	0	0	0
32	26	22.9	0.32	0.4	8.3	6.6	264	394	T	0	232	318	60	4	0
32	26	22.9	0.45	0.56	8.3	6	264	395	T	40	168	210	34	1	0
33	25.5	23	0.4	0.4	8	6.6	257	380	D1	0	130	100	166	40	0
33	25.5	23	0.4	0.24	8.1	6.4	261	392	D1	0	0	42	98	58	8
33	25	23.5	0.27	0.56	8.1	6.7	260	389	D1	0	0	52	20	10	0
34	24.8	23.9	0.2	0.48	8.1	6.6	258	383	D1	0	0	88	200	76	0
34	24.2	23.7	0.25	0.56	8.1	6.7	259	387	D1	0	50	102	146	202	0
34	24	23.6	0.25	0.32	8.1	6.6	260	391	D1	0	0	16	80	86	0
35	25	23.6	0.21	0.48	7.8	6.7	267	404	D1	0	0	130	240	93	0
35	25.5	23.6	0.2	0.48	7.9	6.8	269	401	D1	0	0	18	116	132	0
35	25.5	23.4	0.22	0.48	8	6.8	270	406	D1	0	0	26	126	114	0
36	26	23.3	0.12	0.64	8	6.7	257	389	T	158	464	126	14	4	0
36	26	23.3	0.18	0.24	8	6.8	257	384	T	0	0	0	18	12	0
36	26	23.2	0.4	0.24	8	6.8	264	386	T	0	0	72	102	9	0
37	26	26	0.5	0.48	8	6.6	253	377	D1	36	30	56	16	10	0
37	26	25	0.5	0.48	7.9	6.8	261	388	D1	0	60	150	16	4	0
37	26	24.8	0.47	0.32	7.9	6.7	262	386	D1	136	358	834	172	34	0
38	26.5	24.1	0.19	0.46	8	6.6	266	398	D1	0	254	658	132	26	0
38	26.7	24.1	0.35	0.64	8	6.6	264	395	D1	0	254	250	36	4	0
38	26.8	24.1	0.2	0.48	8	6.6	265	397	D1	368	469	396	64	8	0
39	27	24	0.54	0.24	8	6.6	258	382	D1	0	0	124	170	10	0
39	26.8	24.4	0.41	0.16	8.1	6.6	263	395	D1	0	0	240	8	3	2
39	27	24.5	0.48	0.32	8.2	6.6	263	392	D1	0	0	110	272	14	0
40	26.8	24.5	0.59	0.24	8.1	6.4	262	391	D1	0	0	88	106	8	0
40	26.6	23.9	0.48	0.16	8.2	6.5	266	399	D1	0	58	210	40	34	0
40	27	24	0.11	0.16	8.1	6.3	265	397	D1	0	0	0	28	1	30

ภาคผนวกที่ 1 ตัวแปรด้านสิ่งแวดล้อมในแต่ละสถานี (ต่อ)

Site	A.temp (°C)	W.temp (°C)	Depth (m)	Velocity (m/sec)	pH	DO (mg/L)	TDS (mg/L)	EC (μs/cm)	Forest (%)	Cobble (gm)	Pebble (gm)	Gravel (gm)	Sand (gm)	Silt (gm)	Leaf & twig(gm)
41	26.9	24.6	0.36	0.32	8.1	6.8	263	392	D1	52	44	266	94	32	0
41	26.5	24.4	0.31	0.24	8.1	6.4	264	394	D1	366	294	94	24	2	0
41	26	24.5	0.4	0.16	8.1	6.5	263	393	D1	0	6	188	120	46	0
42	27	26.1	0.27	0.56	8.1	6.6	257	382	D1	0	8	148	210	128	0
42	27.7	25.2	0.19	0.4	8.2	6.7	261	390	D1	0	0	34	90	210	0
42	28	24.9	0.1	0.64	8.1	6.9	262	393	D1	0	2	34	24	9	0
43	28	25.4	0.2	0.16	8.1	7	260	385	D1	0	0	484	438	48	0
43	28	25.4	0.16	0.56	8.1	7	262	397	D1	42	104	310	26	4	0
43	28	25.7	0.21	1.05	8.2	7	261	390	D1	0	74	104	26	4	0
44	28	25.5	0.15	0.24	7.9	6	260	388	D2	0	110	54	38	18	0
44	28	25.7	0.24	0.24	7.9	6.9	259	388	D2	0	178	220	36	8	0
44	28	25.7	0.5	0.16	7.9	6.7	259	386	D2	0	20	135	176	34	0
45	28	26.1	0.45	0.16	7.8	6.6	256	380	T	0	8	60	12	2	0
45	28	25.3	0.65	0.24	7.9	7	260	388	T	0	50	526	98	24	0
45	28	24.9	0.45	0.16	7.9	6.8	264	355	T	0	2	38	198	56	0
46	28	25.7	0.6	0.16	7.9	6.7	264	394	D1	28	76	34	8	2	0
46	28	25.9	0.46	0.48	7.8	6.8	259	385	D1	0	0	18	10	4	0
46	28	25.1	0.7	0.08	7.8	6.6	263	394	D1	0	0	46	62	7	0
47	29	24.9	0.1	1.05	7.8	6.8	263	393	D1	0	94	262	36	4	0
47	29	24.8	0.15	0.91	7.7	6.8	265	396	D1	100	86	70	16	14	0
47	29	24.3	0.3	0.89	7.7	7	267	400	D1	88	506	136	54	8	0
48	29.2	24.5	0.35	0.4	7.8	7	267	398	D3	0	74	130	34	4	0
48	29	24.4	0.3	0.4	8	6.8	267	400	D3	0	62	170	246	70	0
48	29	24.4	0.26	0.4	8	7	268	400	D3	110	350	34	0	0	0
49	29	25	0.4	0.24	7.8	6.8	266	393	D1	0	122	238	46	4	0
49	29	25.1	0.36	0.24	7.8	6.8	267	399	D1	8	64	106	6	8	0
49	29	25.4	0.36	0.24	7.7	6.8	267	398	D1	34	146	198	34	8	0
50	29	25.4	0.4	0.22	7.7	6.7	267	397	D1	372	36	146	124	66	0
50	29	25.2	0.4	0.22	7.9	6.8	267	395	D1	106	864	1800	272	40	0
50	29	25.1	0.45	0.22	7.9	6.8	268	398	D1	60	38	26	10	2	0

ภาคผนวกที่ 2 สัตว์ไม่มีกระดูกสันหลังหน้าดินในแต่ละสถานี

Site	Order	Family	Genus / Species	Rep1	Rep2	Rep3	total	Mean	Density
1	Coleoptera	Elmidae	<i>Cleptelmis</i> sp.1	4	6	2	12	4.00	44.44
1	Coleoptera	Psephenidae	<i>Acneus</i> sp.	0	1	0	1	0.33	3.70
1	Decapoda	Parathelphusidae	<i>Somaniathelphusa</i> sp.	1	0	0	1	0.33	3.70
1	Diptera	Chironomidae	tribe <i>Chironominae</i>	4	8	1	13	4.33	48.15
1	Diptera	Tipulidae	<i>Limnophila</i> sp.	0	1	0	1	0.33	3.70
1	Ephemeroptera	Caenidae	<i>Caenis</i> sp.	1	0	0	1	0.33	3.70
1	Ephemeroptera	Ephemerellidae	<i>Ephemerella</i> sp.	1	0	0	1	0.33	3.70
1	Ephemeroptera	Leptophlebiidae	<i>Choroterpes</i> sp.	4	1	3	8	2.67	29.63
1	Ephemeroptera	Heptageniidae	<i>Heptagenia</i> sp.1	1	0	0	1	0.33	3.70
1	Ephemeroptera	Heptageniidae	<i>Stenacron</i> sp.	0	0	6	6	2.00	22.22
1	Mesogastropoda	Thiaridae	<i>B. melanodes tuberculata</i>	0	7	45	52	17.33	192.59
1	Hemiptera	Mesoveliidae	<i>Mesovelia</i> sp.	1	0	0	1	0.33	3.70
1	Lepidoptera	Pyralidae	<i>Crambus</i> sp.	1	0	0	1	0.33	3.70
1	Megaloptera	Corydalidae	<i>Corydalidea</i> spp.	0	0	1	1	0.33	3.70
1	Odonata	Aeshnidae	<i>Aeshnophlebia</i> sp.	5	0	0	5	1.67	18.52
1	Odonata	Coenagrionidae	<i>Argriocnemis</i> sp.	0	2	0	2	0.67	7.41
1	Odonata	Gomphidae	<i>Ophiogomphus</i> sp.	1	1	0	2	0.67	7.41
1	Trichoptera	Goeridae	<i>Goera</i> sp.	1	1	0	2	0.67	7.41
1	Trichoptera	Hydroptilidae	Hydroptilidae spp.	0	1	0	1	0.33	3.70
1	Trichoptera	Limnephilidae	Limnephilidae spp.	0	2	0	2	0.67	7.41
1	Trichoptera	Polycentropodidae	<i>Pseudoneureclipsis</i> sp.	1	0	1	2	0.67	7.41
1	Trichoptera	Psychomyiidae	<i>Psychomyia</i> sp	1	9	0	10	3.33	37.04
1	Trichoptera	Psychomyiidae	<i>Tinodes</i> sp	0	0	1	1	0.33	3.70
1	Trichoptera	Phryganeidae	<i>Ptilostomis</i> sp	17	9	0	26	8.67	96.30
1	Trichoptera	Leptoceridae	<i>Leptocerus</i> sp.	0	1	0	1	0.33	3.70
1	Trichoptera	Xiphocentronidae	<i>Xiphocentron</i> sp.	0	7	1	8	2.67	29.63
2	Coleoptera	Elmidae	<i>Cleptelmis</i> sp.1	0	1	22	23	7.67	85.19
2	Coleoptera	Elmidae	<i>Cleptelmis</i> sp.2	1	0	3	4	1.33	14.81

ภาคผนวกที่ 2 สัตว์ไม่มีกระดูกสันหลังหน้าดินในแต่ละสถานี (ต่อ)

Site	Order	Family	Genus / Species	Rep1	Rep2	Rep3	total	Mean	Density
2	Coleoptera	Psephenidae	<i>Acneus</i> sp.	0	1	3	4	1.33	14.81
2	Coleoptera	Hydrophilidae	<i>Paracymus</i> sp.	0	1	0	1	0.33	3.70
2	Diptera	Athericidae	<i>Atherix</i> sp.	0	0	2	2	0.67	7.41
2	Diptera	Ceratopogonidae	<i>Bezzia</i> sp.	1	2	0	3	1.00	11.11
2	Diptera	Chironomidae	tribe Chironominae	7	9	16	32	10.67	118.52
2	Diptera	Tipulidae	<i>Limonia</i> sp.	0	1	0	1	0.33	3.70
2	Diptera	Tipulidae	<i>Hexatoma</i> sp.	0	1	0	1	0.33	3.70
2	Diptera	Tipulidae	<i>Limnophila</i> sp.	2	2	25	29	9.67	107.41
2	Diptera	Tipulidae	<i>Pseudolimnophila</i> sp.1	2	3	0	5	1.67	18.52
2	Ephemeroptera	Baetidae	<i>Baetis</i> sp.	0	0	1	1	0.33	3.70
2	Ephemeroptera	Caenidae	<i>Caenis</i> sp.	1	2	1	4	1.33	14.81
2	Ephemeroptera	Ephemeridae	<i>Ephemera</i> sp.	1	4	0	5	1.67	18.52
2	Ephemeroptera	Heptageniidae	<i>Heptagenia</i> sp.2	0	0	40	40	13.33	148.15
2	Ephemeroptera	Heptageniidae	<i>Stenacron</i> sp.	1	0	5	6	2.00	22.22
2	Ephemeroptera	Leptophlebiidae	<i>Choroterpes</i> sp.	0	0	24	24	8.00	88.89
2	Ephemeroptera	Leptophlebiidae	<i>Habrophlebiodes</i> sp.	0	0	2	2	0.67	7.41
2	Ephemeroptera	Leptophlebiidae	<i>Paraleptophlebia</i> sp.	0	2	12	14	4.67	51.85
2	Hemiptera	Veliidae	<i>Rhagovelia</i> sp.	0	0	2	2	0.67	7.41
2	Mesogastropoda	Thiaridae	<i>B. binadosa spiralis</i>	6	10	0	16	5.33	59.26
2	Odonata	Gomphidae	<i>Leptogomphus</i> sp.	0	0	2	2	0.67	7.41
2	Trichoptera	Calamoceratidae	<i>Anisocentropus</i> sp.	0	0	1	1	0.33	3.70
2	Trichoptera	Glossosomatidae	<i>Glossosoma</i> sp.	0	0	1	1	0.33	3.70
2	Trichoptera	Goeridae	<i>Goera</i> sp.	1	0	1	2	0.67	7.41
2	Trichoptera	Hydroptilidae	<i>Hydroptila</i> sp.	5	3	0	8	2.67	29.63
2	Trichoptera	Hydroptilidae	<i>Oxyethira</i> sp.	0	0	3	3	1.00	11.11
2	Trichoptera	Limnephilidae	<i>Limnephilus</i> sp.	0	0	1	1	0.33	3.70
2	Trichoptera	Polycentropodidae	<i>Pseudoneureclipsis</i> sp.	1	0	2	3	1.00	11.11
2	Trichoptera	Polycentropodidae	<i>Nyctiophylax</i> sp.	0	2	0	2	0.67	7.41

ภาคผนวกที่ 2 สัตว์ไม่มีกระดูกสันหลังหน้าดินในแต่ละสถานี (ต่อ)

Site	Order	Family	Genus / Species	Rep1	Rep2	Rep3	total	Mean	Density
2	Trichoptera	Polycentropodidae	<i>Polycentropus</i> sp.	0	1	0	1	0.33	3.70
2	Trichoptera	Psychomyiidae	<i>Psychomyia</i> sp.	0	2	60	62	20.67	229.63
2	Trichoptera	Psychomyiidae	<i>Tinodes</i> sp.	0	1	4	5	1.67	18.52
2	Trichoptera	Xiphocentronidae	<i>Xiphocentron</i> sp.	1	0	4	5	1.67	18.52
3	Coleoptera	Elmidae	<i>Cleptelmis</i> sp.1	3	12	0	15	5.00	55.56
3	Coleoptera	Elmidae	<i>Stenelmis</i> sp.1	0	2	0	2	0.67	7.41
3	Coleoptera	Dytiscidae	<i>Laccophilus</i> sp.	1	0	0	1	0.33	3.70
3	Coleoptera	Dytiscidae	<i>Hydraticus</i> sp.	0	0	1	1	0.33	3.70
3	Coleoptera	Gyrinidae	<i>Dineutus</i> sp.	1	0	0	1	0.33	3.70
3	Coleoptera	Hydrophilidae	<i>Hydrobius</i> sp.	1	0	0	1	0.33	3.70
3	Coleoptera	Psephenidae	<i>Eubrianax</i> sp.	1	0	0	1	0.33	3.70
3	Coleoptera	Scirtidae	<i>Scirtes</i> sp.	0	11	0	11	3.67	40.74
3	Decapoda	Palaemonidae	<i>M. lanchesteri</i>	0	0	6	6	2.00	22.22
3	Decapoda	Parathelphusidae	<i>Somaniathelphusa</i> sp.	1	0	0	1	0.33	3.70
3	Diptera	Athericidae	<i>Atherix</i> sp.	0	0	2	2	0.67	7.41
3	Diptera	Ceratopogonidae	<i>Bezzia</i> sp.	1	2	0	3	1.00	11.11
3	Diptera	Ceratopogonidae	tribe <i>Dasyheleinae</i>	0	0	16	16	5.33	59.26
3	Diptera	Chironomidae	tribe <i>Chironominae</i>	8	76	65	149	49.67	551.85
3	Diptera	Empididae	<i>Hemerodromia</i> sp.	0	1	0	1	0.33	3.70
3	Diptera	Tipulidae	<i>Limnophila</i> sp.	0	2	0	2	0.67	7.41
3	Diptera	Tipulidae	<i>Hexatoma</i> sp.	0	2	1	3	1.00	11.11
3	Ephemeroptera	Caenidae	<i>Caenis</i> sp.	1	0	3	4	1.33	14.81
3	Ephemeroptera	Ephemeridae	<i>Ephemer</i> sp.	0	0	4	4	1.33	14.81
3	Ephemeroptera	Heptageniidae	<i>Heptagenia</i> sp.2	1	0	0	1	0.33	3.70
3	Ephemeroptera	Leptophlebiidae	<i>Choroterpes</i> sp.	3	0	6	9	3.00	33.33
3	Ephemeroptera	Leptophlebiidae	<i>Traverella</i> sp.	0	2	0	2	0.67	7.41
3	Mesogastropoda	Thiaridae	<i>B. binadosa spiralis</i>	3	0	0	3	1.00	11.11
3	Mesogastropoda	Thiaridae	<i>T. granifera</i>	1	0	0	1	0.33	3.70

ภาคผนวกที่ 2 สัตว์ไม่มีกระดูกสันหลังหน้าดินในแต่ละสถานี (ต่อ)

Site	Order	Family	Genus / Species	Rep1	Rep2	Rep3	total	Mean	Density
3	Megaloptera	Corydalidae	<i>Protohermes</i> sp.	1	0	0	1	0.33	3.70
3	Odonata	Gomphidae	<i>Gomphus</i> sp.	0	0	1	1	0.33	3.70
3	Odonata	Gomphidae	<i>Melligomphus</i> sp.	0	3	0	3	1.00	11.11
3	Odonata	Gomphidae	<i>Ophiogomphus</i> sp.	2	2	0	4	1.33	14.81
3	Odonata	Gomphidae	<i>Progomphus</i> sp.	1	0	0	1	0.33	3.70
3	Plecoptera	Peltoperlidae	<i>Peltoperlopsis</i> sp.	1	0	0	1	0.33	3.70
3	Trichoptera	Calamoceratidae	<i>Anisocentropus</i> sp.	0	0	3	3	1.00	11.11
3	Trichoptera	Calamoceratidae	<i>Heteroplectron</i> sp.	4	0	0	4	1.33	14.81
3	Trichoptera	Glossosomatidae	<i>Glossosoma</i> sp.	0	28	0	28	9.33	103.70
3	Trichoptera	Goeridae	<i>Goera</i> sp.	0	7	0	7	2.33	25.93
3	Trichoptera	Hydropsychidae	<i>Hydropsyche</i> sp.	36	18	0	54	18.00	200.00
3	Trichoptera	Hydropsychidae	<i>Diplectrona</i> sp.	0	1	0	1	0.33	3.70
3	Trichoptera	Leptoceridae	<i>Oecetis</i> sp.	0	1	0	1	0.33	3.70
3	Trichoptera	Philopotamidae	<i>Chimarra</i> sp.	8	1	0	9	3.00	33.33
3	Trichoptera	Phryganeidae	<i>Ptilostomis</i> sp.	0	1	0	1	0.33	3.70
3	Trichoptera	Sericostomatidae	Sericostomatidae spp.	0	1	0	1	0.33	3.70
3	Trichoptera	Xiphocnemonidae	<i>Xiphocentron</i> sp.	0	1	0	1	0.33	3.70
4	Coleoptera	Hydrophilidae	Hydrophilidae spp.	0	0	1	1	0.33	3.70
4	Coleoptera	Psephenidae	<i>Alabameubria</i> sp.	0	0	1	1	0.33	3.70
4	Diptera	Ceratopogonidae	<i>Bezzia</i> sp.	0	2	0	2	0.67	7.41
4	Diptera	Chironomidae	tribe <i>Chironominae</i>	5	1	5	11	3.67	40.74
4	Diptera	Chironomidae	tribe <i>Diamesinae</i>	1	0	0	1	0.33	3.70
4	Diptera	Chironomidae	tribe <i>Orthocladinae</i>	1	1	1	3	1.00	11.11
4	Diptera	Chironomidae	Tribe <i>Tanypodinae</i>	0	6	9	15	5.00	55.56
4	Diptera	Tipulidae	<i>Limnophila</i> sp.	1	1	0	2	0.67	7.41
4	Diptera	Tipulidae	<i>Pseudolimnophila</i> sp.1	2	0	1	3	1.00	11.11
4	Hemiptera	Gerridae	<i>Ptilomera</i> sp.	1	0	0	1	0.33	3.70
4	Odonata	Gomphidae	<i>Gomphus</i> sp.	1	0	0	1	0.33	3.70

ภาคผนวกที่ 2 สัตว์ไม่มีกระดูกสันหลังหน้าดินในแต่ละสถานี (ต่อ)

Site	Order	Family	Genus / Species	Rep1	Rep2	Rep3	total	Mean	Density
4	Odonata	Gomphidae	<i>Trigomphus</i> sp.	0	0	1	1	0.33	3.70
4	Plechoptera	Nemouridae	<i>Amphinemura</i> sp.	0	0	4	4	1.33	14.81
4	Trichoptera	Calamoceratidae	<i>Anisocentropus</i> sp.	0	0	2	2	0.67	7.41
4	Trichoptera	Hydropsychidae	<i>Cheumatopsyche</i> sp.	0	0	1	1	0.33	3.70
4	Trichoptera	Hydropsychidae	<i>Cheumatopsyche</i> sp.	0	2	0	2	0.67	7.41
4	Trichoptera	Hydropsychidae	<i>Diplectrona</i> sp.	0	0	14	14	4.67	51.85
4	Trichoptera	Hydropsychidae	<i>Hydropsyche</i> sp.	0	0	1	1	0.33	3.70
4	Trichoptera	Leptoceridae	<i>Setodes</i> sp.	0	0	1	1	0.33	3.70
4	Trichoptera	Polycentropodidae	<i>Nyctiophylax</i> sp.	0	0	1	1	0.33	3.70
4	Trichoptera	Polycentropodidae	<i>Phylloicus</i> sp.	0	0	2	2	0.67	7.41
4	Trichoptera	Sericostomatidae	Sericostomatidae spp.	1	0	0	1	0.33	3.70
5	Coleoptera	Elmidae	<i>Cleptelmis</i> sp.1	6	4	0	10	3.33	37.04
5	Coleoptera	Elmidae	<i>Zaitzevia</i> sp.	0	1	0	1	0.33	3.70
5	Coleoptera	Hydrophilidae	<i>Ecnocrus</i> sp.	1	0	0	1	0.33	3.70
5	Coleoptera	Hydrophilidae	<i>Hydrobius</i> sp.	0	0	1	1	0.33	3.70
5	Coleoptera	Psephenidae	<i>Acneus</i> sp.	9	8	1	18	6.00	66.67
5	Coleoptera	Parathelphusidae	<i>Somaniathelphusa</i> sp.	3	7	0	10	3.33	37.04
5	Diptera	Canaceidae	<i>Canaceoides</i> sp.	1	0	0	1	0.33	3.70
5	Diptera	Chironomidae	tribe <i>Chironominae</i>	9	10	7	26	8.67	96.30
5	Diptera	Chironomidae	tribe <i>Orthocladiinae</i>	0	1	3	4	1.33	14.81
5	Diptera	Chironomidae	tribe <i>Tanypodinae</i>	1	9	2	12	4.00	44.44
5	Ephemeroptera	Baetidae	<i>Centroptilum</i> sp.	1	0	0	1	0.33	3.70
5	Ephemeroptera	Caenidae	<i>Caenis</i> sp.	2	3	1	6	2.00	22.22
5	Ephemeroptera	Heptageniidae	<i>Nixe</i> sp.	0	0	6	6	2.00	22.22
5	Ephemeroptera	Heptageniidae	<i>Stenacron</i> sp.	2	0	0	2	0.67	7.41
5	Ephemeroptera	Heptageniidae	<i>Stenonema</i> sp.	0	7	0	7	2.33	25.93
5	Ephemeroptera	Leptophlebiidae	<i>Choroterpes</i> sp.	7	23	3	33	11.00	122.22

ภาคผนวกที่ 2 สัตว์ไม่มีกระดูกสันหลังหน้าดินในแต่ละสถานี (ต่อ)

Site	Order	Family	Genus / Species	Rep1	Rep2	Rep3	total	Mean	Density
5	Ephemeroptera	Leptophlebiidae	<i>Paraleptophlebia</i> sp.	1	0	0	1	0.33	3.70
5	Ephemeroptera	Leptophlebiidae	<i>Thraulodes</i> sp.	0	1	0	1	0.33	3.70
5	Mesogastropoda	Thiaridae	<i>B. binadosa spiralis</i>	18	7	23	48	16.00	177.78
5	Mesogastropoda	Thiaridae	<i>T. granifera</i>	3	0	0	3	1.00	11.11
5	Mesogastropoda	Thiaridae	<i>Th. scabra</i>	0	2	0	2	0.67	7.41
5	Hemiptera	Aphelocheiridae	<i>Aphelocheirus</i> sp.	1	0	0	1	0.33	3.70
5	Hemiptera	Corixidae	<i>Micronecta</i> sp.	1	0	0	1	0.33	3.70
5	Hemiptera	Gerridae	<i>Ptilomera</i> sp.	0	1	0	1	0.33	3.70
5	Hemiptera	Gerridae	<i>Trepobates</i> sp.	0	0	5	5	1.67	18.52
5	Odonata	Aeshnidae	<i>Aeshnophlebia</i> sp.	0	2	0	2	0.67	7.41
5	Odonata	Amphipterygidae	<i>Philoganga</i> sp.	0	0	1	1	0.33	3.70
5	Odonata	Gomphidae	<i>Ophiogomphus</i> sp.	35	35	4	74	24.67	274.07
5	Plechoptera	Perlidae	<i>Neoperla</i> sp.	1	0	0	1	0.33	3.70
5	Trichoptera	Calamoceratidae	<i>Heteroplectron</i> sp.	0	0	1	1	0.33	3.70
5	Trichoptera	Glossosomatidae	<i>Agapetus</i> sp.	0	8	0	8	2.67	29.63
5	Trichoptera	Goeridae	<i>Goera</i> sp.	2	0	0	2	0.67	7.41
5	Trichoptera	Hydropsychidae	<i>Hydropsyche</i> sp.	11	7	1	19	6.33	70.37
5	Trichoptera	Hydroptilidae	<i>Oxyethira</i> sp.	0	0	8	8	2.67	29.63
5	Trichoptera	Philopotamidae	<i>Dolophilodes</i> sp.	0	0	17	17	5.67	62.96
5	Trichoptera	Polycentropodidae	<i>Pseudoneureclipsis</i> sp.	0	0	1	1	0.33	3.70
5	Trichoptera	Polycentropodidae	<i>Nyctiophylax</i> sp.	0	0	1	1	0.33	3.70
5	Trichoptera	Psychomyiidae	<i>Psychomyia</i> sp.	2	1	18	21	7.00	77.78
6	Coleoptera	Elmidae	<i>Cleptelmis</i> sp.1	8	5	1	14	4.67	51.85
6	Coleoptera	Gyrinidae	<i>Dineutus</i> sp.	0	2	0	2	0.67	7.41
6	Coleoptera	Hydrophilidae	<i>Hydrobius</i> sp.	1	3	0	4	1.33	14.81
6	Coleoptera	Psephenidae	<i>Acneus</i> sp.	0	0	1	1	0.33	3.70
6	Decapoda	Parathelphusidae	<i>Somaniathelphusa</i> sp.	1	0	0	1	0.33	3.70

ภาคผนวกที่ 2 สัตว์ไม่มีกระดูกสันหลังหน้าดินในแต่ละสถานี (ต่อ)

Site	Order	Family	Genus / Species	Rep1	Rep2	Rep3	total	Mean	Density
6	Diptera	Athericidae	<i>Atherix</i> sp.	1	2	0	3	1.00	11.11
6	Diptera	Chironomidae	tribe <i>Chironominae</i>	0	16	10	26	8.67	96.30
6	Diptera	Chironomidae	tribe <i>Orthocladiinae</i>	0	27	0	27	9.00	100.00
6	Diptera	Chironomidae	tribe <i>Tanypodinae</i>	0	12	4	16	5.33	59.26
6	Diptera	Empididae	<i>Hemerodromia</i> sp.	0	1	0	1	0.33	3.70
6	Diptera	Tipulidae	<i>Limonia</i> sp.	0	2	0	2	0.67	7.41
6	Diptera	Tipulidae	<i>Hexatoma</i> sp.	13	0	0	13	4.33	48.15
6	Diptera	Tipulidae	<i>Limnophila</i> sp.	7	6	1	14	4.67	51.85
6	Ephemeroptera	Baetidae	<i>Centroptilum</i> sp.	1	0	0	1	0.33	3.70
6	Ephemeroptera	Heptageniidae	<i>Cinygmula</i> sp.	1	0	0	1	0.33	3.70
6	Ephemeroptera	Heptageniidae	<i>Stenonema</i> sp.	0	0	2	2	0.67	7.41
6	Ephemeroptera	Leptophlebiidae	<i>Choroterpes</i> sp.	2	0	0	2	0.67	7.41
6	Ephemeroptera	Leptophlebiidae	<i>Traverella</i> sp.	1	1	0	2	0.67	7.41
6	Odonata	Gomphidae	<i>Ophiogomphus</i> sp.	1	1	10	12	4.00	44.44
6	Odonata	Gomphidae	<i>Orientogomphus</i> sp.	3	4	1	8	2.67	29.63
6	Trichoptera	Glossosomatidae	<i>Agapetus</i> sp.	38	61	5	104	34.67	385.19
6	Trichoptera	Goeridae	<i>Goera</i> sp.	1	0	0	1	0.33	3.70
6	Trichoptera	Hydropsychidae	<i>Cheumatopsyche</i> sp.	1	0	0	1	0.33	3.70
6	Trichoptera	Hydropsychidae	<i>Hydropsyche</i> sp.	18	74	3	95	31.67	351.85
6	Trichoptera	Philopotamidae	<i>Chimarra</i> sp.	0	1	0	1	0.33	3.70
6	Trichoptera	Polycentropodidae	<i>Nyctiophylax</i> sp.	0	1	0	1	0.33	3.70
6	Trichoptera	Psychomyiidae	<i>Psychomyia</i> sp.	1	0	0	1	0.33	3.70
7	Trichoptera	Xiphocentronidae	<i>Xiphocentron</i> sp.	3	0	0	3	1.00	11.11
7	Coleoptera	Elmidae	<i>Cleptelmis</i> sp.1	3	0	1	4	1.33	14.81
7	Decapoda	Palaemonidae	<i>M. lanchesteri</i>	0	1	0	1	0.33	3.70
7	Diptera	Athericidae	<i>Atherix</i> sp.	1	0	0	1	0.33	3.70
7	Diptera	Ceratopogonidae	<i>Bezzia</i> sp.	0	0	1	1	0.33	3.70

ภาคผนวกที่ 2 สัตว์ไม่มีกระดูกสันหลังหน้าดินในแต่ละสถานี (ต่อ)

Site	Order	Family	Genus / Species	Rep1	Rep2	Rep3	total	Mean	Density
7	Diptera	Chironomidae	tribe Chironominae	7	20	9	36	12.00	133.33
7	Diptera	Tipulidae	<i>Limonia</i> sp.	1	0	0	1	0.33	3.70
7	Diptera	Tipulidae	<i>Limnophila</i> sp.	7	0	22	29	9.67	107.41
7	Diptera	Tipulidae	<i>Pseudolimnophila</i> sp.1	5	5	7	17	5.67	62.96
7	Diptera	Tipulidae	<i>Tipula</i> sp.	1	0	0	1	0.33	3.70
7	Ephemeroptera	Baetidae	<i>Baetis</i> sp.	1	0	0	1	0.33	3.70
7	Ephemeroptera	Caenidae	<i>Caenis</i> sp.	1	2	0	3	1.00	11.11
7	Ephemeroptera	Ephemeridae	<i>Ephemer</i> sp.	0	10	3	13	4.33	48.15
7	Ephemeroptera	Leptophlebiidae	<i>Choroterpes</i> sp.	7	1	0	8	2.67	29.63
7	Mesogastropoda	Thiaridae	<i>B. binadosa spiralis</i>	9	14	3	26	8.67	96.30
7	Mesogastropoda	Thiaridae	<i>Th. scabra</i>	1	1	1	3	1.00	11.11
7	Hemiptera	Corixidae	<i>Micronecta</i> sp.	1	0	0	1	0.33	3.70
7	Hemiptera	Hydrometridae	Hydrometridae spp.	1	0	0	1	0.33	3.70
7	Odonata	Gomphidae	<i>Orientogomphus</i> sp.	3	2	0	5	1.67	18.52
7	Odonata	Gomphidae	<i>Stylogomphus</i> sp.	0	1	0	1	0.33	3.70
7	Odonata	Libellulidae	<i>Macrothemis</i> sp.	0	1	0	1	0.33	3.70
7	Trichoptera	Calamoceratidae	<i>Heteroplectron</i> sp.	0	1	0	1	0.33	3.70
7	Trichoptera	Glossosomatidae	<i>Agapetus</i> sp.	2	0	0	2	0.67	7.41
7	Trichoptera	Hydropsychidae	<i>Hydropsyche</i> sp.	18	0	0	18	6.00	66.67
7	Trichoptera	Leptoceridae	<i>Ceraclea</i> sp.	0	1	0	1	0.33	3.70
7	Trichoptera	Polycentropodidae	<i>Nyctiophylax</i> sp.	1	0	0	1	0.33	3.70
7	Trichoptera	Psychomyiidae	<i>Psychomyia</i> sp.	0	3	1	4	1.33	14.81
8	Decapoda	Parathelphusidae	<i>Somaniathelphusa</i> sp.	0	0	2	2	0.67	7.41
8	Coleoptera	Elmidae	<i>Cleptelmis</i> sp.1	0	2	5	7	2.33	25.93
8	Coleoptera	Hydrophilidae	<i>Hydrobius</i> sp.	0	0	1	1	0.33	3.70
8	Coleoptera	Psephenidae	<i>Acneus</i> sp.	0	4	4	8	2.67	29.63
8	Decapoda	Palaemonidae	<i>M. lanchesteri</i>	1	0	0	1	0.33	3.70

ภาคผนวกที่ 2 สัตว์ไม่มีกระดูกสันหลังหน้าดินในแต่ละสถานี (ต่อ)

Site	Order	Family	Genus / Species	Rep1	Rep2	Rep3	total	Mean	Density
8	Diptera	Athericidae	<i>Atherix</i> sp.	0	1	0	1	0.33	3.70
8	Diptera	Ceratopogonidae	<i>Bezzia</i> sp.	1	0	0	1	0.33	3.70
8	Diptera	Chironomidae	tribe <i>Chironominae</i>	3	6	29	38	12.67	140.74
8	Diptera	Tipulidae	<i>Antocha</i> sp.	0	1	0	1	0.33	3.70
8	Diptera	Tipulidae	<i>Hexatoma</i> sp.	5	0	0	5	1.67	18.52
8	Diptera	Tipulidae	<i>Tipula</i> sp.	1	0	0	1	0.33	3.70
8	Ephemeroptera	Baetidae	<i>Baetis</i> sp.	0	0	1	1	0.33	3.70
8	Ephemeroptera	Caenidae	<i>Caenis</i> sp.	0	3	0	3	1.00	11.11
8	Ephemeroptera	Ephemeridae	<i>Ephemer</i> sp.	1	0	0	1	0.33	3.70
8	Ephemeroptera	Heptageniidae	<i>Cinygma</i> sp.	0	1	0	1	0.33	3.70
8	Ephemeroptera	Heptageniidae	<i>Leucrocuta</i> sp.	0	0	1	1	0.33	3.70
8	Ephemeroptera	Heptageniidae	<i>Stenonema</i> sp.	0	1	0	1	0.33	3.70
8	Mesogastropoda	Thiaridae	<i>B. binadosa spiralis</i>	0	15	0	15	5.00	55.56
8	Mesogastropoda	Thiaridae	<i>T. granifera</i>	0	2	0	2	0.67	7.41
8	Mesogastropoda	Thiaridae	<i>Th. scabra</i>	1	0	0	1	0.33	3.70
8	Hemiptera	Gerridae	<i>Ptilomera</i> sp.	0	0	11	11	3.67	40.74
8	Odonata	Gomphidae	<i>Ophiogomphus</i> sp.	0	1	0	1	0.33	3.70
8	Odonata	Gomphidae	<i>Orientogomphus</i> sp.	0	4	3	7	2.33	25.93
8	Trichoptera	Calamoceratidae	<i>Anisocentropus</i> sp.	0	1	0	1	0.33	3.70
8	Trichoptera	Glossosomatidae	<i>Agapetus</i> sp.	0	1	0	1	0.33	3.70
8	Trichoptera	Goeridae	<i>Goera</i> sp.	0	1	2	3	1.00	11.11
8	Trichoptera	Hydropsychidae	<i>Hydropsyche</i> sp.	0	3	33	36	12.00	133.33
8	Trichoptera	Leptoceridae	<i>Oecetis</i> sp.	0	0	1	1	0.33	3.70
8	Trichoptera	Xiphocentronidae	<i>Xiphocentron</i> sp.	0	46	43	89	29.67	329.63
8	Trichoptera	Psychomyiidae	<i>Psychomyia</i> sp.	0	6	3	9	3.00	33.33
9	Coleoptera	Elmidae	<i>Cleptelmis</i> sp.1	0	5	2	7	2.33	25.93
9	Coleoptera	Psephenidae	<i>Acneus</i> sp.	1	10	1	12	4.00	44.44

ภาคผนวกที่ 2 สัตว์ไม่มีกระดูกสันหลังน้ำจืดในแต่ละสถานี (ต่อ)

Site	Order	Family	Genus / Species	Rep1	Rep2	Rep3	total	Mean	Density
9	Decapoda	Parathelphusidae	<i>Somaniathelphusa</i> sp.	1	4	1	6	2.00	22.22
9	Diptera	Chironomidae	tribe Chironominae	2	52	7	61	20.33	225.93
9	Diptera	Tipulidae	<i>Limnophila</i> sp.	11	1	1	13	4.33	48.15
9	Diptera	Tipulidae	<i>Pseudolimnophila</i> sp.1	0	1	0	1	0.33	3.70
9	Diptera	Tipulidae	<i>Pseudolimnophila</i> sp.2	0	0	1	1	0.33	3.70
9	Diptera	Tipulidae	<i>Tipula</i> sp.	1	0	10	11	3.67	40.74
9	Ephemeroptera	Caenidae	<i>Caenis</i> sp.	1	0	0	1	0.33	3.70
9	Ephemeroptera	Ephemeridae	<i>Ephemera</i> sp.	0	1	0	1	0.33	3.70
9	Ephemeroptera	Heptageniidae	<i>Cinygma</i> sp.	1	0	0	1	0.33	3.70
9	Ephemeroptera	Leptophlebiidae	<i>Choroterpes</i> sp.	2	0	0	2	0.67	7.41
9	Ephemeroptera	Leptophlebiidae	<i>Habrophlebiodes</i> sp.	1	0	11	12	4.00	44.44
9	Megaloptera	Corydalidae	Corydalidae spp.	0	0	1	1	0.33	3.70
9	Megaloptera	Corydalidae	<i>Corydalis</i> sp.	1	0	0	1	0.33	3.70
9	Mesogastropoda	Thiaridae	<i>B. binadosa spiralis</i>	2	0	0	2	0.67	7.41
9	Mesogastropoda	Thiaridae	<i>Th. scabra</i>	0	1	0	1	0.33	3.70
9	Odonata	Cordulegastridae	<i>Cordulegaster</i> sp.	0	1	0	1	0.33	3.70
9	Odonata	Gomphidae	<i>Ophiogomphus</i> sp.	3	21	7	31	10.33	114.81
9	Odonata	Gomphidae	<i>Orientogomphus</i> sp.	0	0	1	1	0.33	3.70
9	Trichoptera	Calamoceratidae	<i>Anisocentropus</i> sp.	0	1	0	1	0.33	3.70
9	Trichoptera	Glossosomatidae	<i>Glossosoma</i> sp.	1	0	0	1	0.33	3.70
9	Trichoptera	Goeridae	<i>Goera</i> sp.	47	105	11	163	54.33	603.70
9	Trichoptera	Hydropsychidae	<i>Hydropsyche</i> sp.	1	0	0	1	0.33	3.70
9	Trichoptera	Odontoceridae	<i>Nemamyia</i> sp.	0	0	1	1	0.33	3.70
9	Trichoptera	Philopotamidae	<i>Chimarra</i> sp.	2	0	0	2	0.67	7.41
9	Trichoptera	Xiphocentronidae	<i>Xiphocentron</i> sp.	0	0	1	1	0.33	3.70
10	Coleoptera	Elmidae	<i>Cleptelmis</i> sp.1	0	0	1	1	0.33	3.70
10	Coleoptera	Psephenidae	<i>Acneus</i> sp.	2	0	0	2	0.67	7.41

ภาคผนวกที่ 2 สัตว์ไม่มีกระดูกสันหลังหน้าดินในแต่ละสถานี (ต่อ)

Site	Order	Family	Genus / Species	Rep1	Rep2	Rep3	total	Mean	Density
10	Decapoda	Parathelphusidae	<i>Somaniathelphusa</i> sp.	2	9	1	12	4.00	44.44
10	Diptera	Ceratopogonidae	<i>Bezzia</i> sp.	1	6	11	18	6.00	66.67
10	Diptera	Chironomidae	tribe <i>Chironominae</i>	0	0	1	1	0.33	3.70
10	Diptera	Simuliidae	<i>Simulium</i> sp.	0	3	0	3	1.00	11.11
10	Diptera	Tipulidae	<i>Hexatoma</i> sp.	36	4	2	42	14.00	155.56
10	Diptera	Tipulidae	<i>Limnophila</i> sp.	11	0	0	11	3.67	40.74
10	Diptera	Tipulidae	<i>Molophilus</i> sp.	0	8	0	8	2.67	29.63
10	Diptera	Tipulidae	<i>Omosia</i> sp.	6	0	1	7	2.33	25.93
10	Ephemeroptera	Ephemerellidae	<i>Ephemerella</i> sp.	0	2	0	2	0.67	7.41
10	Ephemeroptera	Ephemeridae	<i>Ephemer</i> sp.	0	0	3	3	1.00	11.11
10	Mesogastropoda	Thiaridae	<i>B. binadosa spiralis</i>	2	11	1	14	4.67	51.85
10	Mesogastropoda	Thiaridae	<i>T. granifera</i>	0	1	0	1	0.33	3.70
10	Odonata	Amphipterygidae	<i>Philoganga</i> sp.	0	0	1	1	0.33	3.70
10	Odonata	Gomphidae	<i>Orientogomphus</i> sp.	0	0	2	2	0.67	7.41
10	Trichoptera	Hydropsychidae	<i>Hydropsyche</i> sp.	0	2	88	90	30.00	333.33
10	Trichoptera	Leptoceridae	<i>Oecetis</i> sp.	0	5	0	5	1.67	18.52
10	Trichoptera	Limnephilidae	<i>Homophylax</i> sp.	0	2	0	2	0.67	7.41
10	Trichoptera	Limnephilidae	<i>Halesochila</i> sp.	0	1	0	1	0.33	3.70
10	Trichoptera	Polycentropodidae	<i>Pseudoneureclipsis</i> sp.	0	1	0	1	0.33	3.70
10	Trichoptera	Polycentropodidae	<i>Polycentropus</i> sp.	0	0	1	1	0.33	3.70
10	Trichoptera	Phryganeidae	<i>Ptilostomis</i> sp.	0	1	0	1	0.33	3.70
11	Coleoptera	Dytiscidae	<i>Cybister</i> sp.	0	0	1	1	0.33	3.70
11	Coleoptera	Elmidae	<i>Cleptelmis</i> sp.1	3	4	4	11	3.67	40.74
11	Coleoptera	Gyrinidae	<i>Dineutus</i> sp.	0	0	1	1	0.33	3.70
11	Coleoptera	Psephenidae	<i>Acneus</i> sp.	0	0	4	4	1.33	14.81
11	Decapoda	Palaemonidae	<i>M. lanchesteri</i>	0	0	2	2	0.67	7.41
11	Decapoda	Parathelphusidae	<i>Somaniathelphusa</i> sp.	0	0	6	6	2.00	22.22

ภาคผนวกที่ 2 สัตว์ไม่มีกระดูกสันหลังหน้าดินในแต่ละสถานี (ต่อ)

Site	Order	Family	Genus / Species	Rep1	Rep2	Rep3	total	Mean	Density
11	Diptera	Athericidae	<i>Atherix</i> sp.	0	0	1	1	0.33	3.70
11	Diptera	Ceratopogonidae	<i>Bezzia</i> sp.	0	0	4	4	1.33	14.81
11	Diptera	Chironomidae	tribe <i>Chironominae</i>	0	15	12	27	9.00	100.00
11	Diptera	Tipulidae	<i>Hexatoma</i> sp.	4	4	5	13	4.33	48.15
11	Diptera	Tipulidae	<i>Limnophila</i> sp.	5	4	2	11	3.67	40.74
11	Ephemeroptera	Caenidae	<i>Caenis</i> sp.	0	1	16	17	5.67	62.96
11	Ephemeroptera	Ephemeridae	<i>Ephemera</i> sp.	0	0	9	9	3.00	33.33
11	Ephemeroptera	Heptageniidae	<i>Stenacron</i> sp.	0	1	2	3	1.00	11.11
11	Ephemeroptera	Leptophlebiidae	<i>Choroterpes</i> sp.	0	0	11	11	3.67	40.74
11	Mesogastropoda	Thiaridae	<i>B. binadosa spiralis</i>	0	0	2	2	0.67	7.41
11	Mesogastropoda	Thiaridae	<i>T. granifera</i>	0	0	1	1	0.33	3.70
11	Mesogastropoda	Thiaridae	<i>Th. scabra</i>	0	0	1	1	0.33	3.70
11	Odonata	Gomphidae	<i>Megalogomphus</i> sp.	0	1	0	1	0.33	3.70
11	Odonata	Gomphidae	<i>Ophiogomphus</i> sp.	1	6	0	7	2.33	25.93
11	Odonata	Gomphidae	<i>Orientogomphus</i> sp.	0	3	1	4	1.33	14.81
11	Odonata	Gomphidae	<i>Trigomphus</i> sp.	0	0	2	2	0.67	7.41
11	Trichoptera	Calamoceratidae	<i>Anisocentropus</i> sp.	0	0	1	1	0.33	3.70
11	Trichoptera	Glossosomatidae	<i>Agapetus</i> sp.	2	0	0	2	0.67	7.41
11	Trichoptera	Glossosomatidae	<i>Glossosoma</i> sp.	0	1	0	1	0.33	3.70
11	Trichoptera	Goeridae	<i>Goera</i> sp.	1	1	0	2	0.67	7.41
11	Trichoptera	Hydropsychidae	<i>Hydropsyche</i> sp.	0	0	3	3	1.00	11.11
11	Trichoptera	Leptoceridae	<i>Oecetis</i> sp.	0	2	1	3	1.00	11.11
11	Trichoptera	Polycentropodidae	<i>Pseudoneureclipsis</i> sp.	0	0	1	1	0.33	3.70
11	Trichoptera	Polycentropodidae	<i>Nyctiophylax</i> sp.	0	0	15	15	5.00	55.56
11	Trichoptera	Xiphocnemonidae	<i>Xiphocentron</i> sp.	0	0	2	2	0.67	7.41
12	Basommatophora	Planorbidae	<i>Helicorbis</i> sp.	0	2	0	2	0.67	7.41
12	Coleoptera	Elmidae	<i>Ancycronyx</i> sp.	0	1	0	1	0.33	3.70

ภาคผนวกที่ 2 สัตว์ไม่มีกระดูกสันหลังหน้าดินในแต่ละสถานี (ต่อ)

Site	Order	Family	Genus / Species	Rep1	Rep2	Rep3	total	Mean	Density
12	Coleoptera	Elmidae	<i>Cleptelmis</i> sp.1	1	0	1	2	0.67	7.41
12	Coleoptera	Elmidae	<i>Zaitzevia</i> sp.	0	1	0	1	0.33	3.70
12	Coleoptera	Gyrinidae	<i>Dineutus</i> sp.	0	1	0	1	0.33	3.70
12	Coleoptera	Psephenidae	<i>Alabameubria</i> sp.	0	1	0	1	0.33	3.70
12	Coleoptera	Psephenidae	<i>Eubrianax</i> sp.	0	4	0	4	1.33	14.81
12	Decapoda	Palaemonidae	<i>M. lanchesteri</i>	0	3	0	3	1.00	11.11
12	Decapoda	Parathelphusidae	<i>Somaniathelphusa</i> sp.	0	1	0	1	0.33	3.70
12	Diptera	Athericidae	<i>Atherix</i> sp.	1	0	0	1	0.33	3.70
12	Diptera	Athericidae	<i>Atrichop</i> sp.	0	0	2	2	0.67	7.41
12	Diptera	Ceratopogonidae	<i>Bezzia</i> sp.	0	0	8	8	2.67	29.63
12	Diptera	Chironomidae	tribe <i>Chironominae</i>	16	5	5	26	8.67	96.30
12	Diptera	Tipulidae	<i>Hexatoma</i> sp.	13	0	1	14	4.67	51.85
12	Diptera	Tipulidae	<i>Limnophila</i> sp.	16	1	3	20	6.67	74.07
12	Diptera	Tipulidae	<i>Tipula</i> sp.	1	0	0	1	0.33	3.70
12	Ephemeroptera	Caenidae	<i>Caenis</i> sp.	0	7	0	7	2.33	25.93
12	Ephemeroptera	Ephemeridae	<i>Ephemera</i> sp.	0	1	5	6	2.00	22.22
12	Ephemeroptera	Heptageniidae	<i>Stenacron</i> sp.	1	0	0	1	0.33	3.70
12	Ephemeroptera	Leptophlebiidae	<i>Paraleptophlebia</i> sp.	0	5	0	5	1.67	18.52
12	Hemiptera	Gerridae	<i>Ptilomera</i> sp.	0	0	1	1	0.33	3.70
12	Mesogastropoda	Thiaridae	<i>B. binadosa spiralis</i>	0	11	1	12	4.00	44.44
12	Mesogastropoda	Thiaridae	<i>T. granifera</i>	0	0	5	5	1.67	18.52
12	Mesogastropoda	Thiaridae	<i>Th. scabra</i>	0	1	3	4	1.33	14.81
12	Odonata	Gomphidae	<i>Orientogomphus</i> sp.	2	0	0	2	0.67	7.41
12	Trichoptera	Calamoceratidae	<i>Anisocentropus</i> sp.	0	2	0	2	0.67	7.41
12	Trichoptera	Hydropsychidae	<i>Hydropsyche</i> sp.	10	0	0	10	3.33	37.04
12	Trichoptera	Limnephilidae	<i>Homophylax</i> sp.	0	0	1	1	0.33	3.70
12	Trichoptera	Polycentropodidae	<i>Pseudoneureclipsis</i> sp.	1	0	0	1	0.33	3.70

ภาคผนวกที่ 2 สัตว์ไม่มีกระดูกสันหลังหน้าดินในแต่ละสถานี (ต่อ)

Site	Order	Family	Genus / Species	Rep1	Rep2	Rep3	total	Mean	Density
12	Trichoptera	Polycentropodidae	<i>Nyctiophylax</i> sp.	0	4	0	4	1.33	14.81
12	Trichoptera	Polycentropodidae	<i>Polycentropus</i> sp.	0	0	1	1	0.33	3.70
12	Trichoptera	Xiphocentronidae	<i>Xiphocentron</i> sp.	0	1	0	1	0.33	3.70
12	Venerioida	Corbiculidae	<i>Corbicula</i> sp.	0	2	0	2	0.67	7.41
13	Coleoptera	Elmidae	<i>Cleptelmis</i> sp.1	3	17	6	26	8.67	96.30
13	Coleoptera	Hydrophilidae	<i>Hydrobius</i> sp.	0	1	2	3	1.00	11.11
13	Coleoptera	Psephenidae	<i>Acneus</i> sp.	0	0	2	2	0.67	7.41
13	Diptera	Athericidae	<i>Atherix</i> sp.	0	1	0	1	0.33	3.70
13	Diptera	Ceratopogonidae	<i>Bezzia</i> sp.	1	0	0	1	0.33	3.70
13	Diptera	Chironomidae	tribe <i>Chironominae</i>	8	6	19	33	11.00	122.22
13	Diptera	Simuliidae	<i>Simulium</i> sp.	1	0	0	1	0.33	3.70
13	Diptera	Tipulidae	<i>Hexatoma</i> sp.	9	4	0	13	4.33	48.15
13	Diptera	Tipulidae	<i>Limnophila</i> sp.	3	3	1	7	2.33	25.93
13	Ephemeroptera	Caenidae	<i>Caenis</i> sp.	5	1	2	8	2.67	29.63
13	Ephemeroptera	Ephemerellidae	<i>Serratella</i> sp.	0	0	6	6	2.00	22.22
13	Ephemeroptera	Ephemeridae	<i>Ephemerella</i> sp.	7	0	0	7	2.33	25.93
13	Ephemeroptera	Heptageniidae	<i>Stenacron</i> sp.	1	0	0	1	0.33	3.70
13	Ephemeroptera	Leptophlebiidae	<i>Choroterpes</i> sp.	0	1	1	2	0.67	7.41
13	Ephemeroptera	Leptophlebiidae	<i>Habrophlebia</i> sp.	0	1	0	1	0.33	3.70
13	Ephemeroptera	Leptophlebiidae	<i>Paraleptophlebia</i> sp.	3	1	0	4	1.33	14.81
13	Hemiptera	Corixidae	<i>Micronecta</i> sp.	1	5	1	7	2.33	25.93
13	Mesogastropoda	Thiaridae	<i>B. binadosa spiralis</i>	1	15	19	35	11.67	129.63
13	Mesogastropoda	Thiaridae	<i>T. granifera</i>	1	0	3	4	1.33	14.81
13	Mesogastropoda	Thiaridae	<i>Th. scabra</i>	1	0	0	1	0.33	3.70
13	Odonata	Cordulegastridae	<i>Cordulegaster</i> sp.	1	0	0	1	0.33	3.70
13	Odonata	Amphipterygidae	<i>Philoganga</i> sp.	0	0	1	1	0.33	3.70
13	Odonata	Gomphidae	<i>Megalogomphus</i> sp.	1	0	0	1	0.33	3.70

ภาคผนวกที่ 2 สัตว์ไม่มีกระดูกสันหลังหน้าดินในแต่ละสถานี (ต่อ)

Site	Order	Family	Genus / Species	Rep1	Rep2	Rep3	total	Mean	Density
13	Odonata	Gomphidae	<i>Melligomphus</i> sp.	1	0	1	2	0.67	7.41
13	Odonata	Gomphidae	<i>Ophiogomphus</i> sp.	4	0	0	4	1.33	14.81
13	Odonata	Gomphidae	<i>Orientogomphus</i> sp.	0	4	1	5	1.67	18.52
13	Plecoptera	Nemouridae	<i>Amphinemula</i> sp.	0	0	1	1	0.33	3.70
13	Trichoptera	Glossosomatidae	<i>Glossosoma</i> sp.	0	0	4	4	1.33	14.81
13	Trichoptera	Goeridae	<i>Goera</i> sp.	0	4	0	4	1.33	14.81
13	Trichoptera	Hydropsychidae	<i>Hydropsyche</i> sp.	2	7	65	74	24.67	274.07
13	Trichoptera	Leptoceridae	<i>Oecetis</i> sp.	0	2	0	2	0.67	7.41
13	Trichoptera	Polycentropodidae	<i>Nyctiophylax</i> sp.	1	1	1	3	1.00	11.11
13	Trichoptera	Psychomyiidae	<i>Psychomyia</i> sp.	0	8	2	10	3.33	37.04
13	Trichoptera	Xiphocnemonidae	<i>Xiphocentron</i> sp.	0	23	8	31	10.33	114.81
14	Coleoptera	Elmidae	<i>Cleptelmis</i> sp.1	4	5	0	9	3.00	33.33
14	Diptera	Athericidae	<i>Atherix</i> sp.	1	0	0	1	0.33	3.70
14	Diptera	Ceratopogonidae	<i>Bezzia</i> sp.	3	0	0	3	1.00	11.11
14	Diptera	Chironomidae	tribe <i>Chironominae</i>	28	6	0	34	11.33	125.93
14	Diptera	Tipulidae	<i>Hexatoma</i> sp.	4	7	2	13	4.33	48.15
14	Diptera	Tipulidae	<i>Limnophila</i> sp.	2	17	3	22	7.33	81.48
14	Diptera	Tipulidae	<i>Pseudolimnophila</i> sp.1	0	0	1	1	0.33	3.70
14	Ephemeroptera	Ephemeridae	<i>Ephemera</i> sp.	2	1	0	3	1.00	11.11
14	Mesogastropoda	Thiaridae	<i>B. binadosa spiralis</i>	3	2	2	7	2.33	25.93
14	Mesogastropoda	Thiaridae	<i>T. granifera</i>	6	3	2	11	3.67	40.74
14	Mesogastropoda	Thiaridae	<i>Th. scabra</i>	3	1	0	4	1.33	14.81
14	Trichoptera	Leptoceridae	<i>Oecetis</i> sp.	0	0	1	1	0.33	3.70
14	Trichoptera	Polycentropodidae	<i>Nyctiophylax</i> sp.	1	0	0	1	0.33	3.70
14	Trichoptera	Psychomyiidae	<i>Psychomyia</i> sp.	0	0	1	1	0.33	3.70
14	Trichoptera	Xiphocnemonidae	<i>Xiphocentron</i> sp.	1	0	0	1	0.33	3.70
15	Coleoptera	Elmidae	<i>Dubiraphia</i> sp.	1	0	0	1	0.33	3.70

ภาคผนวกที่ 2 สัตว์ไม่มีกระดูกสันหลังหน้าดินในแต่ละสถานี (ต่อ)

Site	Order	Family	Genus / Species	Rep1	Rep2	Rep3	total	Mean	Density
15	Diptera	Athericidae	<i>Atherix</i> sp.	0	1	0	1	0.33	3.70
15	Diptera	Chironomidae	tribe <i>Chironominae</i>	6	0	2	8	2.67	29.63
15	Diptera	Chironomidae	tribe <i>Tanypodinae</i>	0	1	0	1	0.33	3.70
15	Diptera	Tipulidae	<i>Hexatoma</i> sp.	5	1	1	7	2.33	25.93
15	Diptera	Tipulidae	<i>Limnophila</i> sp.	5	0	3	8	2.67	29.63
15	Diptera	Tipulidae	<i>Prionocera</i> sp.	1	0	0	1	0.33	3.70
15	Diptera	Tipulidae	<i>Tipula</i> sp.	2	0	0	2	0.67	7.41
15	Ephemeroptera	Baetidae	<i>Baetis</i> sp.	1	0	2	3	1.00	11.11
15	Ephemeroptera	Caenidae	<i>Caenis</i> sp.	0	1	0	1	0.33	3.70
15	Ephemeroptera	Heptageniidae	<i>Stenacron</i> sp.	0	1	0	1	0.33	3.70
15	Ephemeroptera	Leptophlebiidae	<i>Choroterpes</i> sp.	0	0	1	1	0.33	3.70
15	Hemiptera	Corixidae	<i>Micronecta</i> sp.	0	0	3	3	1.00	11.11
15	Mesogastropoda	Thiaridae	<i>B. binadosa spiralis</i>	4	0	0	4	1.33	14.81
15	Mesogastropoda	Thiaridae	<i>T. granifera</i>	1	0	3	4	1.33	14.81
15	Mesogastropoda	Thiaridae	<i>Th. scabra</i>	0	0	1	1	0.33	3.70
15	Odonata	Gomphidae	<i>Ophiogomphus</i> sp.	0	3	2	5	1.67	18.52
15	Odonata	Gomphidae	<i>Orientogomphus</i> sp.	0	0	2	2	0.67	7.41
15	Trichoptera	Glossosomatidae	<i>Glossosoma</i> sp.	0	0	1	1	0.33	3.70
15	Trichoptera	Glossosomatidae	<i>Protoptila</i> sp.	0	4	0	4	1.33	14.81
15	Trichoptera	Hydropsychidae	<i>Hydropsyche</i> sp.	1	19	18	38	12.67	140.74
15	Trichoptera	Leptoceridae	<i>Oecetis</i> sp.	0	4	1	5	1.67	18.52
15	Trichoptera	Leptoceridae	<i>Mystacides</i> sp.	0	1	0	1	0.33	3.70
15	Trichoptera	Philopotamidae	<i>Chimarra</i> sp.	0	1	2	3	1.00	11.11
15	Trichoptera	Polycentropodidae	<i>Nyctiophylax</i> sp.	1	0	0	1	0.33	3.70
15	Trichoptera	Xiphocentronidae	<i>Xiphocentron</i> sp.	0	1	0	1	0.33	3.70
16	Coleoptera	Elmidae	<i>Cleptelmis</i> sp.1	6	0	4	10	3.33	37.04
16	Coleoptera	Elmidae	<i>Neocyloepus</i> sp.	0	0	1	1	0.33	3.70

ภาคผนวกที่ 2 สัตว์ไม่มีกระดูกสันหลังหน้าดินในแต่ละสถานี (ต่อ)

Site	Order	Family	Genus / Species	Rep1	Rep2	Rep3	total	Mean	Density
16	Coleoptera	Elmidae	<i>Cleptelmis</i> sp.2	0	0	1	1	0.33	3.70
16	Coleoptera	Hydrophilidae	<i>Hydrobius</i> sp.	0	0	2	2	0.67	7.41
16	Coleoptera	Psephenidae	<i>Acneus</i> sp.	0	0	6	6	2.00	22.22
16	Diptera	Athericidae	<i>Atherix</i> sp.	0	0	6	6	2.00	22.22
16	Diptera	Ceratopogonidae	<i>Bezzia</i> sp.	1	0	0	1	0.33	3.70
16	Diptera	Chironomidae	tribe <i>Chironominae</i>	13	4	37	54	18.00	200.00
16	Diptera	Nymphomyiidae	<i>Hexatoma</i> sp.	0	0	1	1	0.33	3.70
16	Diptera	Tipulidae	<i>Nymphomyiidae</i> sp.	0	0	3	3	1.00	11.11
16	Diptera	Tipulidae	<i>Limnophila</i> sp.	0	0	2	2	0.67	7.41
16	Diptera	Tipulidae	<i>Tipula</i> sp.	0	0	1	1	0.33	3.70
16	Ephemeroptera	Caenidae	<i>Caenis</i> sp.	0	0	1	1	0.33	3.70
16	Ephemeroptera	Heptageniidae	<i>Cinygmula</i> sp.	0	0	2	2	0.67	7.41
16	Ephemeroptera	Leptophlebiidae	<i>Thraulodes</i> sp.	0	0	1	1	0.33	3.70
16	Hemiptera	Corixidae	<i>Micronecta</i> sp.	0	0	1	1	0.33	3.70
16	Mesogastropoda	Thiaridae	<i>B. binadosa spiralis</i>	0	1	9	10	3.33	37.04
16	Odonata	Gomphidae	<i>Ophiogomphus</i> sp.	0	0	1	1	0.33	3.70
16	Odonata	Gomphidae	<i>Orientogomphus</i> sp.	0	0	1	1	0.33	3.70
16	Odonata	Gomphidae	<i>Stylogomphus</i> sp.	1	0	0	1	0.33	3.70
16	Trichoptera	Glossosomatidae	<i>Agapetus</i> sp.	0	0	9	9	3.00	33.33
16	Trichoptera	Glossosomatidae	<i>Glossosoma</i> sp.	0	0	13	13	4.33	48.15
16	Trichoptera	Goeridae	<i>Goera</i> sp.	0	0	1	1	0.33	3.70
16	Trichoptera	Hydropsychidae	<i>Hydropsyche</i> sp.	1	0	53	54	18.00	200.00
16	Trichoptera	Philopotamidae	<i>Chimarra</i> sp.	0	0	1	1	0.33	3.70
16	Trichoptera	Phryganeidae	<i>Ptilostomis</i> sp.	0	0	2	2	0.67	7.41
16	Trichoptera	Psychomyiidae	<i>Psychomyia</i> sp.	0	0	40	40	13.33	148.15
17	Coleoptera	Gyrinidae	<i>Dineutus</i> sp.	0	0	4	4	1.33	14.81
17	Diptera	Athericidae	<i>Atherix</i> sp.	1	0	0	1	0.33	3.70

ภาคผนวกที่ 2 สัตว์ไม่มีกระดูกสันหลังหน้าดินในแต่ละสถานี (ต่อ)

Site	Order	Family	Genus / Species	Rep1	Rep2	Rep3	total	Mean	Density
17	Diptera	Chironomidae	tribe Chironominae	13	0	0	13	4.33	48.15
17	Diptera	Tipulidae	<i>Hexatoma</i> sp.	1	0	3	4	1.33	14.81
17	Diptera	Tipulidae	<i>Limnophila</i> sp.	0	3	1	4	1.33	14.81
17	Diptera	Tipulidae	<i>Tipula</i> sp.	2	0	0	2	0.67	7.41
17	Mesogastropoda	Thiaridae	<i>B. binadosa spiralis</i>	2	0	4	6	2.00	22.22
17	Mesogastropoda	Thiaridae	<i>T. granifera</i>	12	1	0	13	4.33	48.15
17	Mesogastropoda	Thiaridae	<i>Th. scabra</i>	6	1	1	8	2.67	29.63
17	Odonata	Gomphidae	<i>Orientogomphus</i> sp.	0	0	1	1	0.33	3.70
17	Venerioda	Corbiculidae	<i>Corbicula</i> sp.	2	0	0	2	0.67	7.41
18	Diptera	Chironomidae	tribe Chironominae	12	3	7	22	7.33	81.48
18	Diptera	Chironomidae	tribe Diamesinae	0	1	0	1	0.33	3.70
18	Diptera	Tipulidae	<i>Pseudolimnophila</i> sp.2	0	1	0	1	0.33	3.70
18	Diptera	Tipulidae	<i>Hexatoma</i> sp.	3	3	0	6	2.00	22.22
18	Diptera	Tipulidae	<i>Limnophila</i> sp.	0	2	0	2	0.67	7.41
18	Diptera	Tipulidae	<i>Pseudolimnophila</i> sp.1	1	0	2	3	1.00	11.11
18	Mesogastropoda	Thiaridae	<i>B. binadosa spiralis</i>	0	1	0	1	0.33	3.70
18	Mesogastropoda	Thiaridae	<i>T. granifera</i>	15	0	2	17	5.67	62.96
18	Mesogastropoda	Thiaridae	<i>Th. scabra</i>	1	0	2	3	1.00	11.11
18	Venerioda	Corbiculidae	<i>Corbicula</i> sp.	26	0	1	27	9.00	100.00
19	Coleoptera	Halipidae	<i>Peltodytes</i> sp.	0	1	0	1	0.33	3.70
19	Coleoptera	Hydrophilidae	<i>Hydrobius</i> sp.	1	0	0	1	0.33	3.70
19	Diptera	Chironomidae	tribe Chironominae	2	3	6	11	3.67	40.74
19	Diptera	Chironomidae	tribe Orthoclaadiinae	0	2	0	2	0.67	7.41
19	Diptera	Chironomidae	tribe Tanypodinae	0	1	0	1	0.33	3.70
19	Diptera	Tipulidae	<i>Limnophila</i> sp.	0	1	0	1	0.33	3.70
19	Diptera	Tipulidae	<i>Pseudolimnophila</i> sp.1	0	2	1	3	1.00	11.11
19	Mesogastropoda	Thiaridae	<i>B. binadosa spiralis</i>	4	1	3	8	2.67	29.63

ภาคผนวกที่ 2 สัตว์ไม่มีกระดูกสันหลังหน้าดินในแต่ละสถานี (ต่อ)

Site	Order	Family	Genus / Species	Rep1	Rep2	Rep3	total	Mean	Density
19	Mesogastropoda	Thiaridae	<i>T. granifera</i>	7	14	0	21	7.00	77.78
19	Mesogastropoda	Thiaridae	<i>Th. scabra</i>	0	3	2	5	1.67	18.52
19	Trichoptera	Calamoceratidae	<i>Anisocentropus</i> sp.	0	1	0	1	0.33	3.70
19	Trichoptera	Polycentropodidae	<i>Polycentropus</i> sp.	0	1	0	1	0.33	3.70
19	Trichoptera	Psychomyiidae	<i>Psychomyia</i> sp.	1	0	0	1	0.33	3.70
20	Coleoptera	Elmidae	<i>Cleptelmis</i> sp.1	0	2	0	2	0.67	7.41
20	Decapoda	Parathelphusidae	<i>Somaniathelphusa</i> sp.	0	1	2	3	1.00	11.11
20	Diptera	Chironomidae	tribe <i>Chironominae</i>	3	2	2	7	2.33	25.93
20	Diptera	Tipulidae	<i>Antocha</i> sp.	0	1	0	1	0.33	3.70
20	Diptera	Tipulidae	<i>Hexatoma</i> sp.	0	2	0	2	0.67	7.41
20	Diptera	Tipulidae	<i>Limnophila</i> sp.	0	0	1	1	0.33	3.70
20	Diptera	Tipulidae	<i>Pseudolimnophila</i> sp.1	0	1	0	1	0.33	3.70
20	Ephemeroptera	Caenidae	<i>Caenis</i> sp.	1	1	0	2	0.67	7.41
20	Ephemeroptera	Ephemeridae	<i>Ephemera</i> sp.	0	0	6	6	2.00	22.22
20	Ephemeroptera	Leptophlebiidae	<i>Paraleptophlebia</i> sp.	0	0	1	1	0.33	3.70
20	Mesogastropoda	Thiaridae	<i>B. binadosa spiralis</i>	2	2	2	6	2.00	22.22
20	Mesogastropoda	Thiaridae	<i>T. granifera</i>	1	2	2	5	1.67	18.52
20	Trichoptera	Goeridae	<i>Goera</i> sp.	1	0	0	1	0.33	3.70
20	Trichoptera	Hydropsychidae	<i>Cheumatopsyche</i> sp.	1	0	0	1	0.33	3.70
20	Trichoptera	Hydropsychidae	<i>Hydropsyche</i> sp.	1	4	1	6	2.00	22.22
20	Trichoptera	Psychomyiidae	<i>Psychomyia</i> sp.	1	1	0	2	0.67	7.41
20	Trichoptera	Xiphocnemonidae	<i>Xiphocentron</i> sp.	1	1	0	2	0.67	7.41
21	Coleoptera	Elmidae	<i>Cleptelmis</i> sp.1	4	5	1	10	3.33	37.04
21	Coleoptera	Elmidae	<i>Cleptelmis</i> sp.2	2	0	1	3	1.00	11.11
21	Diptera	Ceratopogonidae	<i>Bezzia</i> sp.	1	0	0	1	0.33	3.70
21	Diptera	Chironomidae	tribe <i>Chironominae</i>	10	1	1	12	4.00	44.44
21	Diptera	Tipulidae	<i>Hexatoma</i> sp.	1	0	0	1	0.33	3.70

ภาคผนวกที่ 2 สัตว์ไม่มีกระดูกสันหลังหน้าดินในแต่ละสถานี (ต่อ)

Site	Order	Family	Genus / Species	Rep1	Rep2	Rep3	total	Mean	Density
21	Diptera	Tipulidae	<i>Limnophila</i> sp.	5	0	1	6	2.00	22.22
21	Diptera	Tipulidae	<i>Pseudolimnophila</i> sp.1	2	0	0	2	0.67	7.41
21	Ephemeroptera	Caenidae	<i>Caenis</i> sp.	1	0	0	1	0.33	3.70
21	Ephemeroptera	Ephemeridae	<i>Ephemer</i> sp.	2	0	1	3	1.00	11.11
21	Hemiptera	Corixidae	<i>Micronecta</i> sp.	0	0	1	1	0.33	3.70
21	Hemiptera	Gerridae	<i>Ptilomera</i> sp.	0	0	1	1	0.33	3.70
21	Mesogastropoda	Thiaridae	<i>B. binadosa spiralis</i>	8	1	2	11	3.67	40.74
21	Mesogastropoda	Thiaridae	<i>T. granifera</i>	10	3	0	13	4.33	48.15
21	Odonata	Gomphidae	<i>Melligomphus</i> sp.	0	0	1	1	0.33	3.70
21	Odonata	Gomphidae	<i>Ophiogomphus</i> sp.	0	1	0	1	0.33	3.70
21	Odonata	Gomphidae	<i>Stylogomphus</i> sp.	0	0	1	1	0.33	3.70
21	Trichoptera	Psychomyiidae	<i>Psychomyia</i> sp.	1	1	0	2	0.67	7.41
22	Coleoptera	Elmidae	<i>Cleptelmis</i> sp.1	1	0	0	1	0.33	3.70
22	Diptera	Chironomidae	tribe Chironominae	3	14	1	18	6.00	66.67
22	Diptera	Tipulidae	<i>Limnophila</i> sp.	1	0	0	1	0.33	3.70
22	Mesogastropoda	Thiaridae	<i>B. binadosa spiralis</i>	0	2	0	2	0.67	7.41
22	Mesogastropoda	Thiaridae	<i>T. granifera</i>	0	1	0	1	0.33	3.70
22	Mesogastropoda	Thiaridae	<i>Th. scabra</i>	0	1	0	1	0.33	3.70
22	Venerioida	Corbiculidae	<i>Corbicula</i> sp.	0	0	1	1	0.33	3.70
23	Coleoptera	Elmidae	<i>Cleptelmis</i> sp.1	1	0	0	1	0.33	3.70
23	Coleoptera	Gyrinidae	<i>Dineutus</i> sp.	0	1	0	1	0.33	3.70
23	Decapoda	Palaemonidae	<i>M. lanchesteri</i>	0	1	0	1	0.33	3.70
23	Diptera	Chironomidae	tribe Chironominae	6	5	1	12	4.00	44.44
23	Diptera	Tipulidae	<i>Hexatoma</i> sp.	0	0	1	1	0.33	3.70
23	Diptera	Tipulidae	<i>Limnophila</i> sp.	1	1	2	4	1.33	14.81
23	Diptera	Tipulidae	<i>Pseudolimnophila</i> sp.1	0	1	1	2	0.67	7.41
23	Ephemeroptera	Caenidae	<i>Caenis</i> sp.	0	1	0	1	0.33	3.70

ภาคผนวกที่ 2 สัตว์ไม่มีกระดูกสันหลังหน้าดินในแต่ละสถานี (ต่อ)

Site	Order	Family	Genus / Species	Rep1	Rep2	Rep3	total	Mean	Density
23	Ephemeroptera	Leptophlebiidae	<i>Traverella</i> sp.	1	0	0	1	0.33	3.70
23	Mesogastropoda	Thiaridae	<i>B. binadosa spiralis</i>	1	15	2	18	6.00	66.67
23	Mesogastropoda	Thiaridae	<i>T. granifera</i>	1	11	13	25	8.33	92.59
23	Mesogastropoda	Thiaridae	<i>Th. scabra</i>	0	3	1	4	1.33	14.81
23	Odonata	Gomphidae	<i>Orientogomphus</i> sp.	0	1	0	1	0.33	3.70
23	Trichoptera	Calamoceratidae	<i>Anisocentropus</i> sp.	0	1	0	1	0.33	3.70
23	Trichoptera	Polycentropodidae	<i>Polycentropus</i> sp.	0	0	1	1	0.33	3.70
24	Basommatophora	Planorbidae	<i>Helicorbis</i> sp.	1	0	0	1	0.33	3.70
24	Coleoptera	Elmidae	<i>Ancycronyx</i> sp.	0	1	0	1	0.33	3.70
24	Coleoptera	Curculionidae	<i>Curculionidae</i> sp.	1	0	0	1	0.33	3.70
24	Coleoptera	Elmidae	<i>Lara</i> sp.	0	0	1	1	0.33	3.70
24	Decapoda	Parathelphusidae	<i>M. lanchesteri</i>	0	1	1	2	0.67	7.41
24	Diptera	Ceratopogonidae	<i>Bezzia</i> sp.	0	1	0	1	0.33	3.70
24	Diptera	Chironomidae	tribe Chironominae	51	25	11	87	29.00	322.22
24	Diptera	Tipulidae	<i>Hexatoma</i> sp.	0	0	1	1	0.33	3.70
24	Mesogastropoda	Thiaridae	<i>B. binadosa spiralis</i>	0	1	15	16	5.33	59.26
24	Mesogastropoda	Thiaridae	<i>T. granifera</i>	0	1	1	2	0.67	7.41
24	Mesogastropoda	Thiaridae	<i>Th. scabra</i>	0	1	0	1	0.33	3.70
24	Odonata	Gomphidae	<i>Lamelligomphus</i> sp.	0	0	1	1	0.33	3.70
24	Odonata	Gomphidae	<i>Ophiogomphus</i> sp.	1	0	0	1	0.33	3.70
24	Odonata	Gomphidae	<i>Orientogomphus</i> sp.	1	0	1	2	0.67	7.41
25	Coleoptera	Elmidae	<i>Cleptelmis</i> sp.1	3	46	4	53	17.67	196.30
25	Coleoptera	Elmidae	<i>Neocylloepus</i> sp.	1	1	0	2	0.67	7.41
25	Coleoptera	Elmidae	<i>Cleptelmis</i> sp.2	0	0	2	2	0.67	7.41
25	Coleoptera	Psephenidae	<i>Acneus</i> sp.	1	0	0	1	0.33	3.70
25	Coleoptera	Hydrophilidae	<i>Hydrobius</i> sp.	0	0	1	1	0.33	3.70
25	Diptera	Ceratopogonidae	<i>Bezzia</i> sp.	0	1	0	1	0.33	3.70

ภาคผนวกที่ 2 สัตว์ไม่มีกระดูกสันหลังหน้าดินในแต่ละสถานี (ต่อ)

Site	Order	Family	Genus / Species	Rep1	Rep2	Rep3	total	Mean	Density
25	Diptera	Chironomidae	tribe <i>Chironominae</i>	0	71	5	76	25.33	281.48
25	Diptera	Chironomidae	tribe <i>Tanypodinae</i>	1	0	0	1	0.33	3.70
25	Diptera	Simuliidae	<i>Simulium</i> sp.	0	4	0	4	1.33	14.81
25	Diptera	Tipulidae	<i>Hexatoma</i> sp.	2	1	1	4	1.33	14.81
25	Diptera	Tipulidae	<i>Pseudolimnophila</i> sp.1	1	4	0	5	1.67	18.52
25	Ephemeroptera	Caenidae	<i>Caenis</i> sp.	0	8	0	8	2.67	29.63
25	Ephemeroptera	Leptophlebiidae	<i>Paraleptophlebia</i> sp.	0	1	0	1	0.33	3.70
25	Hemiptera	Corixidae	<i>Micronecta</i> sp.	0	0	3	3	1.00	11.11
25	Mesogastropoda	Thiaridae	<i>B. binadosa spiralis</i>	8	6	1	15	5.00	55.56
25	Mesogastropoda	Thiaridae	<i>T. granifera</i>	2	1	0	3	1.00	11.11
25	Odonata	Gomphidae	<i>Megalogomphus</i> sp.	0	1	0	1	0.33	3.70
25	Odonata	Gomphidae	<i>Ophiogomphus</i> sp.	0	1	0	1	0.33	3.70
25	Odonata	Gomphidae	<i>Orientogomphus</i> sp.	0	2	0	2	0.67	7.41
25	Trichoptera	Calamoceratidae	<i>Heteroplectron</i> sp.	0	3	0	3	1.00	11.11
25	Trichoptera	Goeridae	<i>Goera</i> sp.	0	0	2	2	0.67	7.41
25	Trichoptera	Hydropsychidae	<i>Hydropsyche</i> sp.	0	11	1	12	4.00	44.44
25	Trichoptera	Psychomyiidae	<i>Psychomyia</i> sp.	1	0	0	1	0.33	3.70
25	Trichoptera	Xiphocnemonidae	<i>Xiphocentron</i> sp.	2	8	0	10	3.33	37.04
26	Diptera	Chironomidae	tribe <i>Chironominae</i>	1	3	0	4	1.33	14.81
26	Diptera	Tipulidae	<i>Hexatoma</i> sp.	4	3	0	7	2.33	25.93
26	Diptera	Tipulidae	<i>Limnophila</i> sp.	0	0	1	1	0.33	3.70
26	Diptera	Tipulidae	<i>Pseudolimnophila</i> sp.1	0	2	0	2	0.67	7.41
26	Ephemeroptera	Ephemeridae	<i>Ephemera</i> sp.	0	1	0	1	0.33	3.70
26	Hemiptera	Gerridae	<i>Neogerris</i> sp.	0	1	0	1	0.33	3.70
26	Mesogastropoda	Thiaridae	<i>T. granifera</i>	0	1	0	1	0.33	3.70
26	Odonata	Gomphidae	<i>Megalogomphus</i> sp.	1	0	0	1	0.33	3.70
26	Trichoptera	Polycentropodidae	<i>Nyctiophylax</i> sp.	0	0	1	1	0.33	3.70

ภาคผนวกที่ 2 สัตว์ไม่มีกระดูกสันหลังหน้าดินในแต่ละสถานี (ต่อ)

Site	Order	Family	Genus / Species	Rep 1	Rep2	Rep3	total	Mean	Density
27	Diptera	Tipulidae	<i>Hexatoma</i> sp.	1	0	0	1	0.33	3.70
27	Diptera	Tipulidae	<i>Limnophila</i> sp.	0	0	1	1	0.33	3.70
27	Diptera	Tipulidae	<i>Pseudolimnophila</i> sp.1	1	0	0	1	0.33	3.70
27	Ephemeroptera	Baetidae	<i>Baetis</i> sp.	0	1	0	1	0.33	3.70
27	Ephemeroptera	Ephemeridae	<i>Ephemer</i> sp.	0	2	0	2	0.67	7.41
27	Mesogastropoda	Thiaridae	<i>B. binadosa spiralis</i>	0	1	0	1	0.33	3.70
27	Mesogastropoda	Thiaridae	<i>T. granifera</i>	4	0	0	4	1.33	14.81
27	Mesogastropoda	Thiaridae	<i>Th. scabra</i>	1	1	0	2	0.67	7.41
27	Odonata	Gomphidae	<i>Megalogomphus</i> sp.	0	1	0	1	0.33	3.70
27	Venerioda	Corbiculidae	<i>Corbicula</i> sp.	0	0	1	1	0.33	3.70
28	Coleoptera	Elmidae	<i>Cleptelmis</i> sp.1	7	5	1	13	4.33	48.15
28	Coleoptera	Elmidae	<i>Cleptelmis</i> sp.2	1	12	0	13	4.33	48.15
28	Coleoptera	Psephenidae	<i>Acneus</i> sp.	0	1	0	1	0.33	3.70
28	Diptera	Chironomidae	Tribe Chironominae	1	12	0	13	4.33	48.15
28	Diptera	Tipulidae	<i>Hexatoma</i> sp.	8	0	0	8	2.67	29.63
28	Diptera	Tipulidae	<i>Pseudolimnophila</i> sp.1	2	0	0	2	0.67	7.41
28	Ephemeroptera	Caenidae	<i>Caenis</i> sp.	0	0	1	1	0.33	3.70
28	Mesogastropoda	Thiaridae	<i>B. binadosa spiralis</i>	2	3	9	14	4.67	51.85
28	Mesogastropoda	Thiaridae	<i>T. granifera</i>	5	0	0	5	1.67	18.52
28	Trichoptera	Xiphocnemonidae	<i>Xiphocentron</i> sp.	1	1	0	2	0.67	7.41
28	Trichoptera	Psychomyiidae	<i>Psychomyia</i> sp.	0	1	0	1	0.33	3.70
29	Coleoptera	Elmidae	<i>Cleptelmis</i> sp.1	0	5	0	5	1.67	18.52
29	Coleoptera	Elmidae	<i>Cleptelmis</i> sp.2	0	12	0	12	4.00	44.44
29	Coleoptera	Gyrinidae	<i>Dineutus</i> sp.	1	0	0	1	0.33	3.70
29	Diptera	Athericidae	<i>Atherix</i> sp.	0	10	0	10	3.33	37.04
29	Diptera	Chironomidae	tribe Chironominae	3	18	3	24	8.00	88.89