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APPENDIX 1. Biological composition of the communities developed at each sampling site (Site 1.- Brazo del Este, Site 2.- Puente de los Vaqueros, Site 3.- Charco de la Boca). The trophic group classification is based on stomach contents and includes several functional feeding categories.

Composición de las comunidades biológicas de cada estación de muestreo. (Estación 1.- Brazo del Este., Estación 2.- Puente de los Vaqueros, Estación 3.- Charco de la Boca).

Order	Family	Species	1	2	3	Trophic group
CLOROPHYTA						
Cladophorales	<i>Cladophoraceae</i>	<i>Cladophora</i> sp.	+	+	+	Primary producer
MONOCOTYLEDONEAE						
Gramineae	<i>Poaceae</i>	<i>Cynodon dactylon</i>		+	+	Primary producer (C4)
Gramineae	<i>Poaceae</i>	<i>Phragmites australis</i> (Cav.) Trin. ex Steud.		+	+	Primary producer (C3)
Superorder Bromeliiflorae; Typhales	<i>Typhaceae</i>	<i>Typha</i> sp	+	+	+	Primary producer (C3)
BRANCHIOPODA						
Anomopoda	<i>Daphniidae</i>	<i>Daphnia magna</i> Straus, 1820		+	+	Filter-feeder
Anomopoda	<i>Euryercidae</i>	<i>Ephemeroportus margalefi</i> Alonso, 1987			+	Filter-feeder
Anomopoda	<i>Euryercidae</i>	<i>Leydigia acanthocercoides</i> (S. Fischer, 1854)	+		+	Filter-feeder
Anomopoda	<i>Euryercidae</i>	<i>Alona costata</i> G.O.Sars, 1862		+		Filter-feeder
Anomopoda	<i>Macrotrichidae</i>	<i>Ilyocryptus sordidus</i> (Liévin, 1848)	+			Filter-feeder
COPEPODA						
Cyclopoida	<i>Cyclopidae</i>	<i>Macrocyclus albidus</i> (Jurine 1820)		+	+	Filter-feeder
Cyclopoida	<i>Cyclopidae</i>	<i>Acanthocyclops americanus</i> (Marsh, 1893)			+	Filter-feeder
Calanoida	<i>Diaptomidae</i>	<i>Eudiaptomus vulgaris</i> (Schmeil, 1896)		+		Filter-feeder
OSTRACODA						
Podocopa	<i>Ilyocyprididae</i>	<i>Ilyocypris gibba</i> (Ramdohr, 1808)	+	+		Detritivore
Podocopa	<i>Cyprididae</i>	<i>Heterocypris exigua</i> (Gauthier & Brehm, 1928)		+		Detritivore
Podocopa	<i>Cyprididae</i>	<i>Plesiocypridopsis newtoni</i> (Brady & Robertson, 1870)		+		Detritivore
Podocopa	<i>Cyprididae</i>	<i>Cypridopsis</i> sp.			+	Detritivore
Podocopa	<i>Cyprididae</i>	<i>Herpetocypris</i> sp.			+	Detritivore
MALACOSTRACA						
Decapoda	<i>Cambaridae</i>	<i>Procambarus clarkii</i> (Girard, 1852)	+	+	+	Omnivore
Decapoda	<i>Palaemonidae</i>	<i>Palaemon serratus</i> (Pennant, 1777)	+	+		Omnivore
GASTROPODA						
<i>sp</i>						
INSECTA						
Ephemeroptera	<i>Caenidae</i>			+		Herbivore
Ephemeroptera	<i>Baetidae</i>	<i>Baetis</i> spp.		+	+	Herbivore
Coleoptera		<i>sp</i>	+			Invertivore
Heteroptera	<i>Notonectidae</i>	<i>Notonecta meridionalis</i> Poisson, 1926			+	Invertivore
Heteroptera	<i>Notonectidae</i>	<i>Anisops debilis</i> Gerstaecker, 1878 ssp. <i>perplexus</i> Poisson, 1929		+	+	Invertivore
Heteroptera	<i>Notonectidae</i>	<i>Anisops sardeus</i> Herrich-Schäffer, 1850		+	+	Invertivore
Heteroptera	<i>Corixidae</i>	<i>Sigara scripta</i> (Rambur, 1842)			+	Invertivore
Heteroptera	<i>Corixidae</i>	<i>Sigara lateralis</i> (Leach, 1818)			+	Invertivore
Heteroptera		<i>sp</i>		+		Invertivore
Diptera	<i>Culicidae</i>	<i>Culex hortensis</i> Ficalbi, 1889			+	Detritivore
Diptera	<i>Chironomidae</i>		+	+	+	Detritivore
Odonata-Zygoptera	<i>Coenagrionidae</i>	<i>Ischnura elegans</i> (V.d. Lind, 1820)	+			Invertivore
OSTEICHTHYES						
Atheriniformes	<i>Poeciliidae</i>	<i>Gambusia holbrooki</i> (Agassiz, 1859)	+	+	+	Omnivore
Anguilliformes	<i>Anguillidae</i>	<i>Anguilla anguilla</i> (Linnaeus) 1758	+	+	+	Omnivore
Cypriniformes	<i>Cyprinidae</i>	<i>Cyprinus carpio</i> Linnaeus 1758	+	+	+	Omnivore
Cypriniformes	<i>Cyprinidae</i>	<i>Barbus sclateri</i> (Günther, 1868)		+		Omnivore
Perciformes	<i>Mugilidae</i>	<i>Liza ramada</i> (Risso) 1826	+	+		Omnivore

APPENDIX 2. Stable carbon and nitrogen concentrations (mean \pm S.D.) of the biological compartments of site 1 and their calculated mean trophic levels based on $\delta^{15}\text{N}$. *Concentraciones de los isótopos de carbono y nitrógeno (media \pm D.E.) de los compartimentos biológicos de la estación 1 y sus posiciones tróficas medias calculadas con los valores $\delta^{15}\text{N}$.*

Site 1 Trophic species	$\delta^{13}\text{C}$				$\delta^{15}\text{N}$				Trophic Position	
	Range	$\bar{X} \pm$	S.D.	n	Range	$\bar{X} \pm$	S.D.	n		
Primary producers										
Detritus	-25.50 to -16.80	-20.26 \pm	2.66	9	5.10 to 8.27	6.54 \pm	1.16	9	1.00	
Periphyton	-26.80 to -15.30	-19.30 \pm	0.53	8	2.10 to 5.00	3.40 \pm	0.53	8	1.00	
Phytoplankton	-34.70 to -23.70	-29.07 \pm	3.29	9	4.30 to 7.92	5.85 \pm	1.19	9	1.00	
Helophytes (<i>Typha</i> sp.)	-28.20 to -26.80	-27.54 \pm	0.37	9	5.20 to 8.42	7.38 \pm	1.05	9	1.00	
Invertebrates										
Copepoda	-34.40 to -31.40	-32.32 \pm	1.21	9	5.10 to 6.57	5.73 \pm	0.64	9	1.42	
Cladocera	-34.00 to -28.50	-31.13 \pm	2.53	6	5.80 to 6.00	5.90 \pm	0.10	6	1.47	
Microcrustaceans (All)	-30.62 to -28.67	-29.56 \pm	4.10	22	5.40 to 6.57	5.78 \pm	0.55	22	1.31	
Diptera	-28.90 to -25.60	-27.27 \pm	1.79	6	6.09 to 10.00	7.86 \pm	1.95	6	1.39	
Heteroptera	-30.70 to -30.30	-28.73 \pm	1.94	6	5.10 to 6.60	12.44 \pm	1.01	6	2.73	
<i>Palaemon serratus</i>	-30.3 to -28.00	-29.5 \pm	1.3	3	8.7 to 10.17	9.39 \pm	0.74	3	1.84	
<i>Procambarus clarkii</i> ($\leq 7\text{cm}$)	-29.00 to -27.80	-28.23 \pm	0.40	6	6.70 to 8.61	7.57 \pm	0.20	6	1.30	
<i>Procambarus clarkii</i> ($\geq 7\text{cm}$)	-29.05 to -26.40	-28.11 \pm	0.63	15	7.30 to 10.85	8.53 \pm	1.18	15	1.58	
Fish										
<i>Liza ramada</i>	-31.10 to -28.53	-29.52 \pm	0.93	6	9.00 to 9.60	9.39 \pm	0.23	6	1.83	
<i>Cyprinus carpio</i>	-31.61 to -31.47	-31.54 \pm	0.07	3	10.65 to 10.74	10.70 \pm	0.05	3	2.22	
<i>Gambusia holbrooki</i>	-30.20 to -29.20	-29.84 \pm	0.34	6	11.00 to 12.30	11.59 \pm	0.47	6	2.48	
<i>Anguilla anguilla</i>	-31.70 to -23.85	-27.47 \pm	3.81	6	10.20 to 17.08	13.72 \pm	3.60	6	3.11	
Fishes (All)	-30.28 to -28.83	-29.32 \pm	2.39	21	10.42 to 12.10	11.44 \pm	2.50	21	2.44	

APPENDIX 3. Stable carbon and nitrogen concentrations (mean \pm S.D.) of the biological compartments of site 2 and their calculated mean trophic levels based on $\delta^{15}\text{N}$. *Concentraciones de los isótopos de carbono y nitrógeno (media \pm D.E.) de los compartimentos biológicos de la estación 2 y sus posiciones tróficas medias calculadas con los valores $\delta^{15}\text{N}$.*

Site 2 Trophic species	$\delta^{13}\text{C}$				$\delta^{15}\text{N}$				Trophic Position	
	Range	$\bar{X} \pm$	S.D.	n	Range	$\bar{X} \pm$	S.D.	n		
Primary producers										
Detritus	-14.40 to -13.00	-13.4 \pm	0.4	9	7.50 to 10.76	9.4 \pm	1.2	9	1.00	
Phytoplankton	-31.68 to -23.90	-27.0 \pm	2.9	9	6.70 to 20.18	13.4 \pm	5.1	9	1.00	
Periphyton	-26.71 to -20.34	-23.5 \pm	2.2	9	4.10 to 13.33	8.4 \pm	3.2	9	1.00	
Helophytes(<i>Typha</i> sp. & <i>Phragmites australis</i>)	-26.90 to -25.05	-26.2 \pm	0.7	9	11.20 to 14.85	13.0 \pm	1.3	9	1.00	
<i>Cynodon dactylon</i>	-14.50 to -14.20	-14.4 \pm	0.2	3	15.20 to 17.40	16.0 \pm	1.2	3	1.00	
Invertebrates										
Copepoda	-32.65 to -28.60	-29.9 \pm	1.7	9	10.40 to 13.34	12.10 \pm	1.1	9	2.59	
Cladocera	-31.90 to -27.90	-29.7 \pm	1.9	6				0		
Microcrustaceans (All)	-31.81 to -28.36	-29.8 \pm	1.7	15	3.00 to 13.30	12.1 \pm	0.0	15	2.59	
Diptera	-24.00 to -23.20	-23.7 \pm	0.4	4	9.60 to 10.30	9.8 \pm	0.4	4	1.13	
Heteroptera	-30.20 to -25.00	-28.7 \pm	1.9	9	11.49 to 13.74	10.2 \pm	1.5	9	1.23	
<i>Palaemon serratus</i>	-23.80 to -23.10	-23.4 \pm	0.4	3	13.88 to 14.61	14.4 \pm	0.4	3	2.5	
<i>Procambarus clarkii</i> ($\leq 7\text{cm}$)	-25.70 to -22.36	-23.3 \pm	1.4	9	14.45 to 17.20	15.2 \pm	1.1	9	2.72	
<i>Procambarus clarkii</i> ($\geq 7\text{cm}$)	-25.25 to -22.68	-24.0 \pm	0.7	15	13.11 to 18.60	15.8 \pm	2.0	15	2.88	
Fish										
<i>Liza ramada</i>	-24.80 to -21.23	-23.0 \pm	1.6	6	12.30 to 12.98	12.6 \pm	0.3	6	1.96	
<i>Cyprinus carpio</i>	-24.70 to -24.13	-24.5 \pm	0.3	3	15.63 to 15.78	15.7 \pm	0.1	3	2.85	
<i>Gambusia holbrooki</i>	-25.90 to -24.50	-24.9 \pm	0.5	6	15.75 to 16.70	16.2 \pm	0.4	6	3.00	
<i>Barbus sclateri</i>	-26.12 to -26.12	-26.1 \pm	0.1	3	16.40 to 16.40	16.4 \pm	0.1	3	3.06	
<i>Anguilla anguilla</i>	-27.30 to -25.30	-26.4 \pm	1.0	3	17.00 to 17.40	17.2 \pm	0.2	3	3.28	
Fishes (All)	-28.20 to -20.07	-24.4 \pm	1.9	9	15.22 to 17.00	14.7 \pm	2.2	9	2.57	

APPENDIX 4. Stable carbon and nitrogen concentrations (mean \pm S.D.) of the biological compartments of site 3 and their calculated mean trophic levels based on $\delta^{15}\text{N}$. *Concentraciones de los isótopos de carbono y nitrógeno (media \pm D.E.) de los compartimentos biológicos de la estación 3 y sus posiciones tróficas medias calculadas con los valores $\delta^{15}\text{N}$.*

Site 3 Trophic species	$\delta^{13}\text{C}$				$\delta^{15}\text{N}$				Trophic Position
	Range	$\bar{X} \pm$	S.D.	n	Range	$\bar{X} \pm$	S.D.	n	
Primary producers									
Detritus	-27.00 to -25.40	-26.27 \pm	0.70	9	5.2 to 8.87	6.61 \pm	1.42	9	1.00
Phytoplankton	-35.67 to -26.70	-30.44 \pm	3.14	9	10.40 to 13.50	11.76 \pm	1.01	9	1.00
Periphyton	-28.30 to -22.80	-25.27 \pm	1.98	9	10.60 to 14.60	13.00 \pm	1.35	9	1.00
Helophytes (<i>Typha</i> sp. & <i>Phragmites australis</i>)	-30.20 to -22.40	-26.33 \pm	2.51	9	9.30 to 12.97	10.89 \pm	1.31	9	1.00
<i>Cynodon dactylon</i>	-26.70 to -13.10	-16.22 \pm	5.20	6	12.00 to 13.20	12.60 \pm	0.49	6	1.00
Invertebrates									
Cladocera	-35.77 to -32.05	-33.92 \pm	1.46	8	9.20 to 15.44	11.73 \pm	2.50	8	1.39
Copepoda	-31.90 to -25.60	-28.69 \pm	2.34	8	13.10 to 15.27	13.94 \pm	1.01	8	2.02
Microcrustaceans (All)	-33.48 to -29.56	-31.31 \pm	3.29	16	11.48 to 14.92	12.83 \pm	2.17	16	1.72
Diptera	-34.10 to -25.25	-28.74 \pm	2.85	9	11.00 to 14.44	12.62 \pm	1.47	7	2.76
Heteroptera	-32.70 to -27.10	-28.73 \pm	1.79	9	8.62 to 12.28	10.18 \pm	1.37	9	2.05
Coleoptera	-29.30 to -24.90	-26.95 \pm	1.79	7	8.60 to 12.13	9.84 \pm	1.16	7	1.95
<i>Procambarus clarkii</i> ($\leq 3\text{cm}$)	-23.00 to -22.50	-22.79 \pm	0.28	3	12.40 to 12.50	12.46 \pm	0.08	3	2.71
<i>Procambarus clarkii</i> ($\leq 7\text{cm}$)	-26.40 to -22.29	-23.51 \pm	1.67	9	12.44 to 14.20	13.20 \pm	0.70	9	2.93
<i>Procambarus clarkii</i> ($\geq 7\text{cm}$)	-27.00 to -20.87	-22.93 \pm	1.69	15	13.16 to 15.80	13.93 \pm	0.67	15	3.15
Fish									
<i>Gambusia holbrooki</i>	-24.00 to -23.37	-23.69 \pm	0.32	3	13.44 to 13.83	13.69 \pm	0.22	3	3.08
Fishes (All)	-25.60 to -23.37	-24.43 \pm	1.04	5	13.44 to 15.40	14.35 \pm	0.91	5	3.2