

Table S1. Hall & Anderson (2022) Supplemental Sediment AVS Data

Waterbody Type	Study	Region	Sites	Sub-sites	AVS umole/g	Means
Creeks & Streams	Ankley et al (1996)	SW Missouri, USA	TC1	Mar	3.86	11.47
			TC2	Mar	9.21	
			TC3	Mar	1.93	
			TC4	Mar	4.17	
			TC5	Mar	33.20	
			TC6	Mar	16.45	
			TC1	Jun	1.40	1.70
			TC2	Jun	1.03	
			TC3	Jun	1.40	
			TC4	Jun	2.15	
			TC5	Jun	1.36	
			TC6	Jun	2.85	
Creeks & Streams	Burton et al (2007)	Sweden	ecoregion	14	0.005	0.693
		Sweden		14	0.004	
		Sweden		14	2.071	
		Denmark	ecoregion	14	0.671	0.739
		Denmark		14	1.687	
		Denmark		14	0.310	
		Denmark		14	0.058	
		Denmark		14	1.326	
		Denmark		14	0.381	
		England/Wales	ecoregion	18	7.580	4.378
		England/Wales		18	0.121	
		England/Wales		18	0.387	
		England/Wales		18	0.555	
		England/Wales		18	4.055	
		England/Wales		18	1.513	
		England/Wales		18	2.729	
		England/Wales		18	5.614	
		England/Wales		18	0.074	
		England/Wales		18	0.007	
		England/Wales		18	0.019	
		England/Wales		18	2.461	
		England/Wales		18	4.585	
		England/Wales		18	5.958	
		England/Wales		18	2.879	
		England/Wales		18	31.503	
		Finland	ecoregion	22	1.422	0.928
		Finland		22	0.004	

Waterbody Type	Study	Region	Sites	Sub-sites	AVS umole/g	Means
		Finland	ecoregion	22	0.004	
		Finland		22	0.028	
		Finland		22	3.182	
		Belgium		8	43.980	8.232
		Belgium		9	0.020	
		Belgium		9	0.627	
		Belgium		9	0.087	
		Belgium		13	3.493	
		Belgium		13	1.185	
		France		8	25.265	5.214
		France		8	0.004	
		France		8	1.104	
		France		8	2.093	
		France		13	4.148	
		France		13	23.206	
		France		13	1.416	
		France		13	0.749	
		France		13	0.099	
		France		13	0.158	
		France		13	4.304	
		France		13	0.022	
		Germany		9	0.007	0.795
		Germany		9	0.777	
		Germany		9	0.571	
		Germany		9	0.026	
		Germany		9	0.459	
		Germany		9	0.029	
		Germany		9	0.126	
		Germany		14	0.080	
		Germany		14	5.084	
		Italy		3	0.008	0.010
		Italy		3	0.012	
Creeks & Streams	Carlson et al (1991)	E Wisconsin, USA	East River		8.8	8.8
Creeks & Streams	Cervi et al 2021	S Michigan, USA	River Raisin		1.12	1.12
Creeks & Streams	Hall et al (2009)	Pittsburg, California, USA	KC1	2006	3.579	5.341
			KC1	2007	19.114	
			KC2	2006	0.855	
			KC2	2007	2.869	
			KC3	2006	0.273	
			KC3	2007	20.081	
			KC4	2006	6.810	
			KC4	2007	5.893	

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Creeks & Streams	Hall et al (2013)	Sacramento, California, USA	KC5	2006	4.189	0.751
			KC5	2007	1.964	
			KC6	2006	1.316	
			KC6	2007	0.904	
			KC7	2006	0.217	
			KC7	2007	22.919	
			KC8	2006	0.150	
			KC8	2007	5.426	
			KC9	2006	0.455	
			KC9	2007	2.495	
			KC10	2006	0.264	
			KC10	2007	6.642	
			KC11	2006	0.203	
			KC11	2007	0.187	
			KC12	2006	0.250	
			KC12	2007	9.957	
			KC13	2006	0.071	
			KC13	2007	8.295	
			KC14	2006	0.506	
			KC14	2007	23.671	
Creeks & Streams	Hall et al (2013)	Salinas, California, USA	Arcade Creek	ARC 1a	3.916	0.751
				ARC 1	3.311	
				ARC 2	0.016	
				ARC 3	0.014	
				ARC 4	0.014	
				ARC 5	0.027	
				ARC 6	0.848	
				ARC 7	0.012	
				ARC 8	0.017	
				ARC 9	0.021	
				ARC 10	0.061	
		Salinas, California, USA	Salinas streams	ALS 2	0.398	0.781
				ALS 3	0.560	
				ALS 4	0.740	
				GAB 1	2.101	
				GAB 2	1.268	
				GAB 3	1.028	
				GAB 4	1.133	
				GAB 5	0.477	
				NAT 1	0.986	
				NAT 2	0.561	
				NAT 3	0.260	

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Creeks & Streams	Hall et al (2017)	N Illinois, USA	Big Bureau Creek	NAT 4	0.019	0.458
				ALS 1	0.622	
				BC 1	0.647	
				BC 2	0.420	
				BC 3	0.244	
				BC 4	0.246	
				BC 5	0.359	
				BC 6	0.513	
				BC 7	1.192	
				BC 8	0.398	
				BC 9	0.300	
				BC 10	0.465	
				BC 11	0.481	
				BC 12	0.230	
Creeks & Streams	Hall et al (2018)	Santa Maria, California, USA	Santa Maria streams	SM 1	9.22	5.91
				SM 2	1.07	
				SM 3	1.28	
				SM 4	0.26	
				SM 5	5.43	
				SM 6	0.89	
				SM 7	21.82	
				SM 8	25.81	
				SM 9	3.00	
				SM 10	0.29	
				SM 11	1.76	
				SM 12	0.07	
Creeks & Streams	Hall et al (2021)	Pleasant Grove, California, USA	Urban	PGC 1	12.35	2.78
				PGC 2	0.28	
				PGC 3	4.27	
				PGC 4	0.30	
				PGC 8	4.04	
				PGC 9	1.13	
				PGC 10	0.69	
				PGC 11	2.57	
				PGC 12	1.90	
				PGC 14	1.58	
				PGC 15	1.21	
				PGC 16	1.31	
				PGC 17	3.16	
				PGC 18	3.65	
				PGC 19	0.62	
				PGC 20	6.70	

Waterbody Type	Study	Region	Sites	Sub-sites	AVS umole/g	Means
			Agr	PGC 21	2.20	4.65
				PGC 22	2.07	
				PGC 5	3.08	
				PGC 6	5.19	
				PGC 7	5.68	
Creeks & Streams	Poot et al (2009)	SE Netherlands	Beekloop	Liskesbrug 1	62.6	39.8
				Liskesbrug 2	49	
				Liskesbrug 3	34.5	
				Liskesbrug 4	13.1	
Creeks & Streams	Van Den Hoop et al (1997)	N Netherlands		Waterwijk Creek	3.636	2.892
				Waterwijk Creek	0.811	
				Waterwijk Creek	1.301	
				Waterwijk Creek	1.874	
				Waterwijk Creek	0.825	
				Waterwijk Creek	1.762	
				Waterwijk Creek	0.657	
				Waterwijk Creek	7.455	
				Waterwijk Creek	4.895	
				Waterwijk Creek	1.916	
				Waterwijk Creek	7.636	
Rivers/Canals	Besser et al (1995)	W Montana, USA		Rick Cr. (RC)	1.9	1.9
				Silverbow Cr. (CF1)	2.9	8.8
				Galen (CF2)	0.5	
				Deer Lodge (CF3)	7.5	
				Gold Cr. (CF4)	22.0	
				Bearmouth (CFS)	11.0	
Rivers/Canals	Brumbaugh et al (1994)	W Montana, USA	reference trib	CF 06 (ref)	6.7	6.7
			Upper Clark Fork River	CF 01	0.3	9.1
				Cf 02	19.1	
				CF 03	5.2	
				CF 04	13	
				CF 05	7.8	
Rivers/Canals	De Jong et al (2009)	N Belgium, E of Antwerp	Lowland riverine	1	34.9	76.31
				2	90.8	
				3	197	
				4	183	
				5	159	
				6	112	
				7	8.19	
				8	0.763	
				9	25.6	

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				10	5.62	
				11	85.7	
				12	44.7	
				13	50.4	
				14	1.51	
				15	86.7	
				16	205	
Rivers/Canals	De Jong et al (2010)	N Belgium, Flanders Region	Lowland riverine	17	6.47	28.279
				1	0.045	
				2	2.09	
				3	4.01	
				4	1.22	
				5	1.18	
				6	0.292	
				7	0.054	
				8	1.65	
				9	6.59	
				10	0.556	
				11	0.013	
				12	0.197	
				13	120	
				14	0.024	
				15	29.5	
				16	1.85	
				17	2.42	
				18	7.96	
				19	0.047	
				20	4.10	
				21	10.4	
				22	0.204	
				23	226	
				24	14.3	
				25	357	
				26	0.004	
				27	0.063	
				28	0.045	
Rivers/Canals	European Copper Institute (2008)	Flanders Region, N Belgium	Dender	Aalst	6.55	31.79
			Dender	Aalst	3.33	
			Dender	Aalst	12.2	
			Dender	Dendermonde	22.6	
			Dender	Geraardsbergen	25.7	
			Dender	Geraardsbergen	7.03	

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Rivers/Canals	Hall et al (2015)	Rio Vista California, USA	Dender	Geraardsbergen	12	1.13
			Dender	Geraardsbergen	16	
			IJzer	Alveringem	15.7	
			IJzer	Alveringem	32.89	
			IJzer	Diksmuide	121.72	
			IJzer	Diksmuide	52.71	
			IJzer	Diksmuide	20.42	
			IJzer	Diksmuide	14.79	
			IJzer	Diksmuide	8.78	
			IJzer	Diksmuide	13.5	
			IJzer	Diksmuide	99.72	
			IJzer	Diksmuide	17.89	
			IJzer	Lo-Reninge	44.41	
			IJzer	Lo-Reninge	23.33	
			IJzer	Lo-Reninge	103.85	
			IJzer	Lo-Reninge	48.83	
			IJzer	Lo-Reninge	91.94	
			IJzer	Lo-Reninge	25.56	
			IJzer	Nieuwpoort	10.74	
			IJzer	Nieuwpoort	105.99	
			IJzer	Roesbrugge	14.26	
			IJzer	Roesbrugge	13.79	
			IJzer	Vleteren	30.3	
			IJzer	Poperinge	24.5	
			Leie	Kortrijk	33.6	
			Leie	St Martens Latem	132	
			Schelde	Hemiksem	3.47	
			Schelde	Temse	2.28	
			Schelde (Ringvaart)	Avelgem	32.8	
			Schelde (Ringvaart)	Berlare	2.78	
			Schelde (Ringvaart)	Dendermonde	30.3	
			Schelde (Ringvaart)	Gent	18.6	
			Schelde (Ringvaart)	Kluisbergen	3.1	
			Schelde (Ringvaart)	Melle	9.4	
			Schelde (Ringvaart)	Oudenaarde	24.8	
			Schelde (Ringvaart)	Pecq	7.06	
			Schelde (Ringvaart)	Zeie	6.94	
			Schelde (Ringvaart)	Zingem	50.7	
			Cache Slough	CS-1	0.40	
				CS-2	0.72	
				CS-3	1.06	
				CS-4	0.46	

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				CS-5	1.63	
				CS-6	0.68	
				CS-7	0.58	
				CS-8	1.07	
				CS-9	1.89	
				CS-10	1.85	
				CS-11	2.14	
				CS-12	1.05	
Rivers/Canals	Mendez-Fernandeza et al (2014)	N Belgium	Nete/Scheldt Basins	SN	244.20	196.80
				KN	24.90	
				MN	321.30	
Rivers/Canals	Naylor et al (2006)	S Netherlands	Meuse & Rhine Rivers	0	7.06	5.01
				1	5.47	
				2	5.39	
				3	6.57	
				4	5.58	
				5	6.58	
				6	5.13	
				7	4.18	
				8	2.60	
Rivers/Canals	Patton & Crecelius (2001)	Washington State, USA	Hanford Reach	9	1.49	4.683
				White Bluffs Slough	9.030	
				100-F Area Slough	1.180	
				Old Hanford Townsite Slough	12.600	
				Richland Pumphouse	2.690	
				100-F Area Slough	0.320	
				Old Hanford Townsite Slough	2.200	
				Richland Pumphouse	6.610	
				White Bluffs Slough	2.250	
				Old Hanford Townsite Slough	5.270	
Rivers/Canals	Prica et al (2008)	N Serbia	Spr	Richland Pumphouse	NS	8.43
				Begej-1	4.3	
				Begej-2	7.1	
				Begej-3	6.8	
				Tisa-1	14.13	
				Tamis-1	13.85	
				Tamis-2	13.57	
				Danube-1	11.21	
				Danube-2	10.20	
				Nadela	4.8	
				Kudos	4.31	
				DTD-Canal	3.1	

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Rivers/Canals	Van Den Berg et al (1998)	SW Netherlands	Nov-95	Sava-Sabac	7.75	9.0
				Begej-1	4.5	
				Begej-2	7.4	
				Begej-3	7.1	
				Tisa-1	15.97	
				Tamis-1	14.82	
				Tamis-2	14.79	
				Danube-1	12.89	
				Nadela	4.99	
				Kudos	4.63	
				DTD-Canal	3.19	
				Sava-Sabac	8.68	
			Jun-96	A	18.0	21.9
				A	17.9	
				B	51.7	
				B	52.5	
				C	7.4	
				C	8.8	
				D	8.3	
				D	10.3	
Rivers/Canals	Van Den Hoop et al (1997)	Netherlands		A	9.5	13.6
				B	28.6	
				C	9.1	
				D	7.2	
				Kromme River	6.873	14.172
					23.155	
					20.113	
					38.423	
					14.141	
					15.099	
					22.141	
Ponds/Lakes/Reservoirs	Ankley et al (1993)	Washington State, USA	Steilacoom Lake		33.521	
					14.761	
					26.986	
					13.296	
					16.169	
				SL1	4.01	1.97
				SL2	2.89	
				SL3	0.30	
				SL4	1.94	
				SL5	2.06	
				SL6	4.16	

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Ponds/Lakes/Reservoirs	Allen et al (1993)	NE Minnesota, USA		SL7	1.48	
				SL8	1.60	
				SL9	0.39	
				SL10	2.17	
				SL11	0.65	
				Fish Lake	1.3	1.63
					1.68	
					1.87	
					1.65	
				Pike Lake	16.6	16.63
					16.51	
					16.74	
					16.65	
				Caribou L	8.4	6.40
					5.46	
					5.35	
Ponds/Lakes/Reservoirs	Besser et al (1995)	W Montana, USA	Milltown Reservoir	MR-Upper (MRI 9)	7.5	18.5
				MR-Middle (MR7)	15.0	
				MR-Lower (MR2)	19.0	
				MR-North (MRI0)	0.2	
				MR-Central (MRI 1)	22.0	
				MR-South (MR25)	47.0	
		Michigan, USA	Upper Peninsula	Carp Lk. (CL)	5.7	10.2
				Dollar Bay (DB)	0.2	
				Deer Lk. (DL)	65.0	
				Gratiot Lk. (GL)	7.8	
				Hancock Hbr. (HH)	1.3	
				Lac LaBelle (LL)	0.4	
				Round Lk. (RL)	0.9	
				Torch Lk. (TL)	0.1	
		W Michigan, USA	Lower Peninsula	Ford Lk. (FL)	35.0	127.1
				Houghton Lk. (HL)	43.0	
				Jordan Lk. (JL)	55.0	
				Lk. Orion (LO)	471.0	
				Lk. Mitchell (MI)	14.0	
				Mona Lk. (MO)	336.0	
				Monterey Lk. (MT)	40.0	
				White Lk. (WL)	23.0	
				MR 01 (ref)	0.6	9.4
				MR 02	15.6	
				MR07	9.8	
				MR 11	2.5	

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				MR 17	23.3	
				MR 19	1.5	
				MR 25	12.6	
Ponds/Lakes/Reservoirs	Carlson et al (1991)	NE Minnesota, USA		Pequaywan Lake	42	22.8
				West Bearskin Lake	3.6	
Ponds/Lakes/Reservoirs	Cervi et al 2021	S Michigan, USA		Maple Lake	1.18	1.18
Ponds/Lakes/Reservoirs	Herta-Diaz et al (1993)	S Ontario, Canada	Lake Tock (~core depth)	0.5	0.187	1.745
				1.5	0.602	
				2.5	0.685	
				3.5	2.220	
				4.5	1.691	
				5.5	12.552	
				6.5	0.560	
				7.5	0.954	
				8.5	0.560	
				9.5	0.851	
				12.5	0.062	
				15.5	0.021	
			Lake Little Wren (~core depth)	0.5	0.310	0.787
				1.5	1.952	
				2.5	2.469	
				3.5	1.818	
				4.5	1.085	
				5.5	0.465	
				6.5	0.248	
				7.5	0.351	
				8.5	0.207	
				9.5	0.165	
				12.5	0.165	
				15.5	0.207	
Ponds/Lakes/Reservoirs	Leonard et al (1993)	NE Minnesota, USA	Caribou Lake	1	2.0	3.8
				2	9.8	
				3	8.4	
				4	7.9	
				5	1.5	
				6	-	
				7	0.8	
				8	0.5	
				9	0.1	
				10	0.1	
				11	6.6	
				12	8.6	

Waterbody Type	Study	Region	Sites	Sub-sites	AVS umole/g	Means
Ponds/Lakes/Reservoirs	Matisoff et al (1981)	N Ohio Coast, USA	W central Lake Erie	13	1.3	2.6
				14	2.9	
				15	2.0	
				16	5.1	
				1	0.3	
				2	0.6	
				3	1.3	
				4	4.4	
				5	2.2	
				6	-	
				7	2.5	
				8	-	
				9	0.7	
				10	0.1	
				11	2.5	
				12	3.9	
				13	4.2	
				14	3.8	
				15	6.0	
				16	3.5	
				1	1.9	12.7
				2	24.5	
				3	16.5	
				4	3.5	
				5	1.3	
				6	11.1	
				7	2.0	
				8	1.1	
				9	1.9	
				10	1.3	
				11	12.4	
				12	10.5	
				13	18.0	
				14	36.2	
				15	33.5	
				16	27.3	
Ponds/Lakes/Reservoirs	Matisoff et al (1981)	N Ohio Coast, USA	W central Lake Erie	1	0.49	5.74
				2	0.55	
				3	1.22	
				4	2.24	
				5	1.80	
				6	5.58	

Waterbody Type	Study	Region	Sites	Sub-sites	AVS umole/g	Means
				7	9.83	
				8	10.17	
				9	10.67	
				10	14.86	
Ponds/Lakes/Reservoirs	Mendez-Fernandeza et al (2014)	NE Spain	L pool near Alava	Con	6.70	6.70
Ponds/Lakes/Reservoirs	Patton & Crecelius (2001)	Washington State, USA	Priest Rapids Dam	Near Grant County Shore	21.400	8.807
				1/3 From Grant County Shore	NS	
				2/3 From Grant County Shore	10.600	
				Near Yakima County Shore	18.500	
				Grant County Shore Near Dam	NS	
				Yakima County Shore Near Dam	NS	
				Near Grant County Shore	15.400	
				1/3 From Grant County Shore	4.620	
				2/3 From Grant County Shore	1.730	
				Near Yakima County Shore	7.600	
				Yakima County Shore Near Dam	3.640	
				Grant County Shore Near Dam	9.660	
				Near Grant County Shore	4.700	
				1/3 From Grant County Shore	2.440	
				2/3 From Grant County Shore	3.110	
				Near Yakima County Shore	8.150	
				Grant County Shore Near Dam	13.680	
				Yakima County Shore Near Dam	6.880	
			McNary Dam	Near Oregon Shore	1.640	1.107
				1/3 From Oregon Shore	2.000	
				2/3 From Oregon Shore	2.570	
				Near Washington Shore	0.075	
				Oregon Shore Near Dam	NS	
				Washington Shore Near Dam	NS	
				Near Oregon Shore	0.269	
				1/3 From Oregon Shore	1.580	
				2/3 From Oregon Shore	1.660	
				Near Washington Shore	0.131	
				Oregon Shore Near Dam	1.930	
				Washington Shore Near Dam	0.144	
				Near Oregon Shore	1.710	
				1/3 From Oregon Shore	3.220	
				2/3 From Oregon Shore	0.160	
				Near Washington Shore	0.080	
				Oregon Shore Near Dam	0.380	
				Washington Shore Near Dam	0.160	
			Ice Harbor Dam	Franklin County Shore	NS	1.157

Waterbody Type	Study	Region	Sites	Sub-sites	AVS umole/g	Means
				Mid River	NS	
				Walla Walla County Shore	NS	
				Franklin County Shore	2.430	
				Mid River	0.033	
				Walla Walla County Shore	0.697	
				Franklin County Shore	0.080	
				Mid River	1.280	
				Walla Walla County Shore	2.420	
				West Bearskin Lake	3.90	
Ponds/Lakes/Reservoirs	Sibley et al (1996)	NE Minnesota, USA				3.90
Ponds/Lakes/Reservoirs	Van Den Berg et al (2001)	N Netherlands	Lake Ketel	A	0.8	4.7
				A	1.3	
				A	2.3	
				A	4.5	
				A	8.7	
				A	7.3	
				A	8.7	
				A	10.0	
				A	14.7	
				A	13.6	
				B	0.8	
				B	0.7	
				B	1.2	
				B	2.4	
				B	4.5	
				B	3.3	
				B	4.3	
				B	2.6	
				B	1.9	
				B	1.8	
				C	1.0	
				C	1.6	
				C	4.2	
				C	5.8	
				C	5.9	
				C	4.8	
				C	6.2	
				C	6.6	
				C	8.6	
				C	8.7	
				D	4.2	
				D	3.4	
				D	2.4	

Waterbody Type	Study	Region	Sites	Sub-sites	AVS umole/g	Means
				D	1.7	
				D	1.8	
				D	3.0	
				D	6.5	
				D	5.2	
				D	4.4	
				D	5.0	
Ponds/Lakes/Reservoirs	Van Den Hoop et al (1997)	Netherlands	Freshwater Lakes	I Schoonrewoerdse wiel	52.00	25.85
				6 Oostvaarders Plassen	19.90	
				9 Ketelmeer	16.40	
				10 Leeghwaterplas	15.10	
Ponds/Lakes/Reservoirs	Van Griethuysen et al (2003)	E Netherlands	floodplain lake	Deest 4	15.3	15.3
Ponds/Lakes/Reservoirs	Van Griethuysen et al (2006)	E Netherlands	floodplain lake	Deest 3	1.81	4.73
					2.38	
					6.54	
					6.77	
					10.31	
					9.54	
					15.65	
					8.54	
					1.58	
					2.77	
					0.77	
					1.67	
					0.44	
Ponds/Lakes/Reservoirs	Yin et al (2008)	NE Coast of China	Meiliang Bay/Wuli Lake	0	1.22	0.861
					1.17	
					1.08	
					0.82	
					0.66	
					0.76	
					0.32	
					0.54	
Ponds/Lakes/Reservoirs	Zheng et al (2004)	E China	Lake Dongbu	Hypertrophic	19.50	7.53
					1.70	
					1.40	
				Eutrophic	7.60	3.57
					2.20	
					0.90	
				Mesotrophic	1.40	1.60
					0.90	

Waterbody Type	Study	Region	Sites	Sub-sites	AVS umole/g	Means
Estuarine/Marine	Alves et al (2007)	SE Coast of Brazil	Sal River		2.50	17.24
				1A	13.7	
				1B	23.7	
				1C	16.1	
				1D	15.8	
				1E	16.9	
			Sergipe River	8A	1.9	6.1625
				8B	13.6	
				8C	12.3	
				8D	7.8	
				8E	4.5	
				8F	1.9	
				8G	3.4	
				8H	3.9	
			Poxim River	19A	2.2	7.65
				19B	4.8	
				19C	5.9	
				19D	8.2	
				19E	3.8	
				19F	5.8	
				19G	18	
				19H	12.5	
Estuarine/Marine	Ankley et al (1991)	SE New York State, USA	Estuarine marsh	1	0.30	15.38
				2	0.47	
				3	3.09	
				4	0.09	
				5	5.93	
				6	8.72	
				7	14.78	
				8	14.42	
				9	75.49	
				10	23.03	
				11	55.31	
				12	2.43	
				13	2.55	
				14	28.43	
				15	21.96	
				16	1.54	
				17	2.97	
Estuarine/Marine	Arfaeinia et al (2016)	Persian Gulf Coast, Iran	Autumn	Urban	0.44	0.44
				Industrial	11.62	11.62
			Spring	Urban	0.29	0.29

Waterbody Type	Study	Region	Sites	Sub-sites	AVS umole/g	Means
Estuarine/Marine	Campana et al (2005)	SW Spain	A	Industrial	6.34	6.34
				1	0.594	1.237
				2	1.533	
				3	2.362	
				4	1.086	
				5	0.608	
			B	1	0.760	0.786
				2	0.730	
				3	1.291	
				4	0.512	
				5	0.635	
			C	1	1.136	7.886
				2	8.283	
				3	20.169	
				4	1.776	
				5	8.064	
Estuarine/Marine	Campana et al (2009)	SW Spain	Harbor/Port	G1	1.05	2.67
				G1	1.24	
				G1	1.47	
				G1	1.82	
				G1	3.49	
				G1	6.95	
			Ag & salt marsh	G2	1.02	4.40
				G2	1.03	
				G2	1.92	
				G2	3.56	
				G2	3.84	
				G2	4.29	
				G3	0.89	
				G3	1.35	
				G3	2.63	
				G3	4.28	
				G3	15.26	
				G3	22.45	
				S1	1.27	
				S1	1.41	
				S1	2.48	
				S1	6.49	
				S1	8.96	
				S1	nd	
				S2	0.86	
				S2	1.02	

Waterbody Type	Study	Region	Sites	Sub-sites	AVS umole/g	Means
				S2	1.75	3.787
				S2	4.77	
				S2	7.56	
				S2	9.84	
				S3	0.9	
				S3	1.23	
				S3	1.54	
				S3	2.06	
				S3	3.35	
				S3	5.69	
				S4	0.65	
				S4	1.06	
				S4	1.45	
				S4	3.76	
				S4	6.12	
				S4	7.16	
				S5	0.75	
				S5	1.28	
				S5	1.43	
				S5	4.37	
				S5	4.57	
				S5	5.56	
				S6	1.02	
				S6	2.82	
				S6	3.74	
				S6	4.62	
				S6	5.3	
				S6	7.71	
				S7	1.33	
				S7	1.79	
				S7	2.24	
				S7	11.24	
				S7	11.84	
				S7	17.66	
Estuarine/Marine	Chai et al (2015)	Shenzhen Bay, SE China	AVS umols 0-10 cm	1	4.220	3.787
				2	2.697	
				3	2.157	
				4	1.942	
				5	10.220	
				6	4.584	
				7	5.191	
				8	3.425	

Waterbody Type	Study	Region	Sites	Sub-sites	AVS umole/g	Means
				9	3.438	2.172
				10	3.573	
				11	0.216	
				12	2.710	
				13	5.730	
				14	0.189	
				15	1.483	
				16	8.818	
				AVS umols 10-20 cm	1	
					2	
					3	
					4	
					5	
					6	
					7	
					8	
					9	
					10	
					11	
					12	
					13	
					14	
					15	
					16	
Estuarine/Marine	Di Toro et al (1990)	S New York & S Connecticut, USA		Black Rock Harbor	175	93.8
				Hudson River	12.6	
Estuarine/Marine	Di Toro et al (1992)	S Connecticut & S Road Is., USA		Central Long Island Sound, NY	15	8.15
				Salt water pond in Ninigret, RI	1.3	
Estuarine/Marine	Fang et al (2005)	SE China Coast	Pearl River Estuary	1	0.21	1.59
				3	2.77	
				4	2.18	
				5	3.89	
				6	<0.01	
				7	0.48	
Estuarine/Marine	Gao et al (2013)	NE China Coast	industrialized	Laizhou Bay	1.22	2.99
					7.6	
			in coastal sea	Zhangzi Island	0.71	4.05
					11.03	
Estuarine/Marine	Hansen et al (1996)	NE China Coast	Jinzhou Bay	1	44.70	33.87
				2	126.00	
				3	17.80	
				4	36.60	

Waterbody Type	Study	Region	Sites	Sub-sites	AVS umole/g	Means	
				5	3.02	48.16	
				6	5.42		
				7	3.56		
				Belledune Harbor	1	27.20	48.16
				2	80.30		
				3	102.00		
				4	96.60		
				5	47.40		
				6	38.50		
				7	56.10		
				8	5.54		
				9	16.70		
				10	11.30		
				Bear Creek	1	268.00	78.87
				2	304.00		
				3	76.10		
				4	70.10		
				5	45.30		
				6	46.60		
				7	0.40		
				8	146.00		
				9	89.20		
				10	0.45		
				11	50.00		
				12	0.40		
				13	7.20		
				14	0.40		
Estuarine/Marine	Hinkey and Zaidi (2007)	S St. Thomas, US Virgin Islands	CBM Marina	1	1.30	0.67	
				2	0.39		
				3	0.24		
				OUT	0.73		
				IBY Marina	1	29.00	29.00
					2	25.00	
					OUT	33.00	
Estuarine/Marine	Li et al (2014a)	SE China Coast	Leizhou Peninsula coast	Min.	0.109	4.45	
				Max.	55.6		
Estuarine/Marine	Li et al (2014b)	SE China Coast	Bohai & Laizhou Bays	Min.	0.05	0.73	
				Max.	5.8		
Estuarine/Marine	Liu et al (2007)	SE China Coast	Jiulong River Estuary	1	0.46	4.76	
				2	0.67		
				3	1.35		
				4	3.17		

Waterbody Type	Study	Region	Sites	Sub-sites	AVS umole/g	Means
				5	6.55	
				6	6.47	
				7	8.41	
				8	5.67	
				9	4.07	
				1	0.45	
				2	0.36	
				3	0.24	
				4	1.32	
				5	4.42	
				6	2.52	
				7	2.22	
				8	1.88	
				9	1.86	
				1	0.45	
				2	0.71	
				3	2.47	
				4	5.06	
				5	8.14	
				6	6.37	
				7	6.78	
				8	3.37	
				9	4.55	
				1	0.54	
				2	0.65	
				3	2.20	
				4	8.89	
				5	10.71	
				6	12.50	
				7	8.37	
				8	5.75	
				9	5.16	
				1	0.40	
				2	0.44	
				3	0.80	
				4	1.75	
				5	4.68	
				6	6.43	
				7	9.86	
				8	8.69	
				9	7.53	
				1	0.52	

Waterbody Type	Study	Region	Sites	Sub-sites	AVS umole/g	Means
Estuarine/Marine	Liu et al (2010)	SE China Coast	Mangrove	2	2.41	1.99
				3	2.82	
				4	4.65	
				5	9.03	
				6	12.56	
				7	10.32	
				8	16.10	
				9	13.46	
			Fringe	1	4.96	3.50
				2	3.71	
				3	2.41	
				4	0.51	
				5	0.98	
				6	0.66	
				7	0.69	
Estuarine/Marine	Machado et al (2004)	SE Brazil Coast	Mudflat	1	6.44	7.13
				2	4.85	
				3	5.40	
				4	1.16	
				5	1.38	
				6	2.86	
				7	2.43	
			Iguacu River Core	0–2	11.47	182
				2–4	12.25	
				8–10	10.43	
				18–20	2.65	
				28–30	5.27	
				38–40	4.86	
					3.01	
Estuarine/Marine	Mayer and Gersberg (1997)	S San Diego, California, USA	Guanabara Bay Core	0–2	97	139
				2–4	33	
				8–10	196	
				18–20	193	
				28–30	314	
			Drain outfall	38–40	261	29.6
				0–2	187	
				2–4	245	
				8–10	179	
				18–20	110	
				28–30	48	
				38–40	65	

Waterbody Type	Study	Region	Sites	Sub-sites	AVS umole/g	Means
Estuarine/Marine	Maryland Dept. of Environ. (2021)	Baltimore, Maryland, USA	Marsh	1	22.6	37.0
				1	24.8	
				3	41.0	
				3	31.2	
				3	38.7	
				7	15.3	9.2
			Tidal stream	7	4.3	
				7	8.1	
			Middle Harbor Jul.	BH-27	0.02	121.44
				BH-36	0.13	
				BH-DC3	2.32	
				BH-25	20.31	
				BH-37	22.46	
				BH-23	23.76	
				BH-53	35.09	
				BH-39	58.58	
				BH-54	127.93	
				BH-24	133.28	
				BH-38	133.63	
				BH-DC4	163.57	
				BH-43	463.52	
				BH-41	515.62	
			Middle Harbor Sep.	BH-27	0.01	77.48
				BH-36	0.11	
				BH-25	8.26	
				BH-23	11.71	
				BH-43	18.00	
				BH-54	61.11	
				BH-DC4	77.07	
				BH-DC3	82.58	
				BH-24	94.62	
				BH-39	96.59	
				BH-53	142.15	
				BH-38	146.20	
				BH-37	160.74	
				BH-41	185.59	
			Curtis Bay Jul.	BH-DC5	106.18	502.72
				BH-47	133.64	
				BH-52	308.69	
				BH-DC6	485.48	
				BH-51	591.40	
				BH-45	615.25	

Waterbody Type	Study	Region	Sites	Sub-sites	AVS umole/g	Means
Estuarine/Marine	Mucha et al (2005)	N Portugal Coast	II	BH-49	619.52	173.94
				BH-44	804.86	
				BH-50	859.42	
				BH-47	1.54	
				BH-51	91.93	
				BH-52	131.64	
				BH-50	141.73	
				BH-45	155.63	
				BH-44	167.87	
				BH-DC5	203.85	
				BH-49	238.15	
				BH-DC6	433.10	
				Winter	2.800	2.000
				Spring	2.200	
				Summer	1.700	
				Fall	1.300	
Estuarine/Marine	Nasr et al (2014)	N Egypt Coast	III	Winter	2.000	1.173
				Spring	1.600	
				Summer	0.090	
				Fall	1.000	
			IV	Winter	0.230	0.368
				Spring	0.340	
				Summer	0.150	
				Fall	0.750	
			V	Winter	0.004	0.189
				Spring	0.310	
				Summer	0.070	
				Fall	0.370	
Estuarine/Marine	Nizoli & Silva (2012)	SE Coast of Brazil	Western Region	Min	0.015	3.307
				Max	31.326	
			Middle region	Min	0.038	0.058
				Max	0.11	
			Eastern region	Min	0.029	0.074
				Max	0.119	
Estuarine/Marine	Nizoli & Silva (2012)	SE Coast of Brazil	CA-W	0–3	1.73	1.86
				3–6	0.45	
				6–9	0.04	
				9–12	0.07	
				12–18	0.08	
				18–24	0.08	
				24–30	0.05	
				30–40	0.28	

Waterbody Type	Study	Region	Sites	Sub-sites	AVS umole/g	Means
				40–50	0.26	
				50–60	0.10	
			CA-S	0–3	0.52	
				3–6	0.94	
				6–9	0.19	
				9–12	0.20	
				12–18	0.28	
				18–24	0.44	
				24–30	0.12	
				30–40	0.15	
				40–50	0.21	
				50–60	0.31	
			MR-W	0–3	2.12	
				3–6	31.90	
				6–9	9.55	
				9–12	7.61	
				12–18	1.81	
				18–24	0.88	
				24–30	2.35	
				30–40	1.02	
				40–50	5.18	
				50–60	0.36	
				60–70	1.17	
			MR-S	0–3	0.90	
				3–6	5.79	
				6–9	1.04	
				9–12	0.41	
				12–18	0.39	
				18–24	0.89	
				24–30	0.72	
				30–40	1.27	
				40–50	0.47	
				50–60	0.43	
				60–70	4.39	
			CB-S	0–3	0.21	
				3–6	0.06	
				6–9	0.86	
				9–12	1.88	
				12–18	1.69	
				18–24	0.46	
				24–30	2.17	
				30–40	0.11	

Waterbody Type	Study	Region	Sites	Sub-sites	AVS umole/g	Means
				40–50	0.47	
Estuarine/Marine	Pignotti et al (2018)	Ravenna, NE Italy	Pialassa Piomboni	Min	0.03	3.1
				Max	8.8	
Estuarine/Marine	Remali et al (2018)	SE Coast of Australia		Lane Cove Estuary	<0.5	<0.5
Estuarine/Marine	Shyleshchandran et al (2018)	SW Coast of India	Pre-monsoon	1	1.90	1.01
				2	1.10	
				3	1.01	
				4	0.74	
				5	0.80	
				6	0.65	
				7	0.92	
				8	0.69	
				9	2.40	
				10	1.23	
				11	0.39	
				12	0.27	
			Monsoon	1	3.12	1.65
				2	1.50	
				3	1.91	
				4	2.10	
				5	0.93	
				6	3.31	
				7	0.74	
				8	1.41	
				9	1.20	
				10	1.29	
				11	1.00	
				12	1.32	
			Post-monsoon	1	3.28	0.78
				2	3.25	
				3	1.31	
				4	0.22	
				5	0.22	
				6	0.12	
				7	0.12	
				8	0.14	
				9	0.14	
				10	0.14	
				11	0.10	
				12	0.30	
Estuarine/Marine	Silva et al (2016)	SE Brazil Coast	Sao Paulo River Estuary	Jun	2.02	1.83
					1.83	

Waterbody Type	Study	Region	Sites	Sub-sites	AVS umole/g	Means
					1.95	1.63
					1.83	
					1.72	
					1.66	
					1.81	
				Sep	1.43	
					1.58	
					1.61	
					1.72	
					1.71	
					1.66	
					1.68	
				Purge and trap method	229	
					210	
					199	
Estuarine/Marine	Simpson (2001)	SE Australia Coast	sites surrounding Sydney		161	70.1
					156	
					154	
					149	
					135	
					136	
					125	
					110	
					107	
					92	
					78	
					61	
					59	
					53	
					33	
					26	
					25	
					24.7	
					23.6	
					20	
					15.7	
					14.6	
					12.3	
					10	
					9.3	
					9.1	
					5.2	

Waterbody Type	Study	Region	Sites	Sub-sites	AVS umole/g	Means
Estuarine/Marine	Van Den Hoop et al (1997)	Netherlands	Estuarine	3 Appelzak 4 Geul Zandvliet /Berendrechtsluis	5.1	54.6
					2.8	
					0.9	
					0.8	
					0.6	
					178	
					138	
					157	
					140	
					120	
					97	
					120	
					117	
					85	
					107	
					95	
					84	
					68	
					62	
					55	
					54	
					26	
					22.8	
					24.8	
					28	
					26	
					23.2	
					13.4	
					15.1	
					13.5	
					4.8	
					11.4	
					6.6	
					7	
					5.4	
					1.5	
					1.5	
					0.5	
					0.5	
					0.7	
Estuarine/Marine	Van Den Hoop et al (1997)	Netherlands	Estuarine	3 Appelzak	22.60	13.19
				4 Geul Zandvliet /Berendrechtsluis	21.20	

Waterbody Type	Study	Region	Sites	Sub-sites	AVS umole/g	Means
				5 Geul Boudewijn v Cauwelaertsluis	20.00	2.51
				8 Geul Kallosluis	18.40	
				13 Drempel van Lillo	4.70	
				14 Drempel van Zandvliet	4.10	
				16 Sluissche Hompels	1.30	
			Marine	11 Schouwen-Duiveland 1•	8.00	
				12 Schouwen-Duiveland 4•	7.40	
				15 Ter Heijden 4•	2.90	
				17 Terschelling 100•	0.60	
				18 Vlieland 70•	0.50	
				19 Vlieland 4•	0.40	
				20 Terschelling 70•	0.20	
				21 Ter Heijden 2•	<0.1	
					<0.1	
Estuarine/Marine	Wang et al (2019)	SE Coast of China	Maluan Bay	ML1	8.33	4.80
				ML2	5.03	
				ML3	7.31	
				ML4	4.80	
				ML5	4.52	
				ML6	1.76	
				ML7	3.18	
				ML8	3.52	
Estuarine/Marine	Yang et al (2014)	SE China Coast	Pearl River Spring	S1	<0.01	5.10
					<0.01	
					<0.01	
					11.23	
					27.47	
					23.05	
					19.12	
					14.84	
					7.03	
					11.01	
					12.78	
				S2	0.75	
					1.04	
					0.59	
					0.75	
					0.59	
					0.55	
					0.59	
					1.09	
					0.90	
					7.80	

Waterbody Type	Study	Region	Sites	Sub-sites	AVS umole/g	Means
					6.96	
				S3	0.39	
					0.44	
					0.44	
					0.54	
					1.67	
					1.53	
					1.50	
					0.74	
					2.69	
					2.35	
					1.67	
				S4	0.25	
					0.25	
					1.13	
					0.86	
					0.50	
					0.64	
					5.79	
					6.11	
					9.04	
					5.16	
					8.18	
				S7	1.09	
					1.32	
					4.60	
					6.30	
					9.41	
					9.70	
					10.11	
					8.59	
					12.23	
					9.39	
					7.52	
			Pearl River Winter	S1	1.00	2.65
					0.54	
					1.60	
					1.36	
					1.28	
					1.03	
					1.24	
					2.60	

Waterbody Type	Study	Region	Sites	Sub-sites	AVS umole/g	Means
					1.97	
					3.53	
					1.98	
					0.82	
				S2	1.52	
					2.32	
					4.54	
					5.73	
					6.16	
					4.36	
					5.66	
					6.14	
					6.14	
					8.80	
					4.86	
					7.14	
				S3	0.78	
					1.12	
					0.45	
					1.46	
					0.86	
					1.47	
					1.11	
					1.13	
					0.69	
					0.52	
					0.77	
				S6	<0.01	
					<0.01	
					<0.01	
					<0.01	
					3.33	
					1.80	
					2.31	
					<0.01	
					3.08	
					12.83	
					11.26	
				S7	<0.01	
					0.80	
					1.30	
					1.49	

Waterbody Type	Study	Region	Sites	Sub-sites	AVS umole/g	Means			
					1.37				
					0.53				
					2.34				
					6.50				
					3.25				
					2.34				
					3.76				
					4.19				
					4.75				
					80.8				
Estuarine/Marine	Younis et al (2014)	N Egypt Coast	Maryut Lagoon	Min	4.75	21.9			
				Max	80.8				
			Burullus Lagoon	Min	1.5	4.91			
				Max	15.5				
			Manzalah Lagoon	Min	7.95	26.1			
				Max	89.4				
Estuarine/Marine	Yu et al (2001)	W Taiwan Coast	EII-Ren River	A	42.82	29.79			
					43.86				
					43.02				
					31.78				
					28.59				
					20.32				
					14.71				
					22.17				
					25.86				
					24.78				
					B		2.42	6.41	
							2.48		
							2.09		
							2.73		
									2.87
									3.57
									5.04
									7.46
18.43									
16.99									
Estuarine/Marine	Zhuang and Gao (2013)	NE China Coast Laizhou Bay	Summer R	Min.	0.25	26.96			
				Max.	182.73				
			Summer Sea	Min.	0.86	4.98			
				Max.	20.51				
			Autumn R	Min.	0.93	21.83			
				Max.	167.05				
			Autumn Sea	Min.	0.70	3.61			
				Max.	10.00				