

Supplemental Information

Occurrence of contaminants of emerging concern along the California coast (2009-10) using passive sampling devices

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Table SI-1. Target analytes for passive sampling devices (PSDs). POCIS-polar chemical integrated sampler. PED – polyethylene device. SPME – solid phase microextraction.

	POCIS	PED	SPME
1,4-Dichlorobenzene	N,N-diethyltoluamide (DEET)	Aldrin	Acenaphthene
1,7-Dimethylxanthine	Napropamide	BDE-100	Aldrin
3,4-DCA	N-butyl benzenesulfonamide	BDE-119	Anthracene
3,5-DCA	Norfluoxetine	BDE-15	BDE-100
4-Octylphenol	Norsertaline	BDE-153	BDE-119
Acetaminophen	Oxyfluorfen	BDE-154	BDE-15
Acetophenone	p,p'-DDD	BDE-155	BDE-153
Alachlor	p,p'-DDE	BDE-183	BDE-154
Albuterol	p,p'-DDT	BDE-28	BDE-155
Allethrin	Parathion, methyl	BDE-33	BDE-183
Anthraquinone	Paroxetine	BDE-47	BDE-28
Atrazine	PCA	BDE-49	BDE-33
Azinphos methyl	PCNB	BDE-66	BDE-47
Azinphos, methyl oxon	Pebulate	BDE-75	BDE-49
Azithromycin	Pendimethalin	BDE-99	BDE-66
Azoxystrobin	Permethrin	Benzo[a]pyrene	BDE-75
Benzophenone	Phantolide (AHMI)	Benzo[g,h,i]perylene	BDE-99
Bifenthrin	Phenol	Bifenthrin	Benz[a]anthracene
Boscalid	Phenothrin	Chlordane, alpha	Benzo[a]pyrene
Bromacil	Phosmet	Chlordane, gamma	Benzo[b]fluoranthene
Bromoform	Piperonyl butoxide	Chlordene	Benzo[g,h,i]perylene
Bromuconazole	Prometon	Chrysene	Benzo[k]fluoranthene
Bupropion	POCIS	Cyfluthrin	Bifenthrin
Butylate	Prometryn	Cyhalothrin, lambda	Chlordane, alpha
Caffeine	Propanil	Cypermethrin	Chlordane, gamma
Camphor	Propiconazole	DDMU	Chlordene
Captan	Propyzamide	Deltamethrin	Chlorpyrifos
Carbamazepine	p-tert-Octylphenol	Dibenzo[a,h]anthracene +	Chrysene
Carbaryl	Pyraclostrobin	Indeno[1,2,3-cd]pyrene	Cyfluthrin
Carbazole	Pyrimethanil	Dieldrin	Cyhalothrin, lambda
Carbofuran	Ranitidine	Endrin	Cypermethrin
Celestolide (ADBI)	Resmethrin	Esfenvalerate	DDMU
Chlorothalonil	Salicylate, methyl	Fenpropathrin	Deltamethrin
Chlorpyrifos	Sertraline	Heptachlor Epoxide B	Diazinon
Chlorpyrifos, oxon	Simazine	Nonachlor, cis	Dibenzo[a,h]anthracene +
Cimetidine	Sulfamethoxazole	Nonchlor, trans	Indeno[1,2,3-cd]pyrene
Citalopram	Tebuconazole	o,p'-DDD	Dieldrin
Clomazome	Tefluthrin	o,p'-DDE	Endrin
Codeine	Tetraconazole	o,p'-DDT	Esfenvalerate
Cotinine	Tetramethrin	Oxychlordane	Fenpropathrin
Cycloate	Thiabendazole	p,p'-DDD	Fipronil
Cyfluthrin	Thiobencarb	p,p'-DDE	Fipronil desulfinyl
Cyhalothrin	Tonalide (AHTN)	p,p'-DDT	Fipronil sulfide
Cypermethrin	Traseolide (ATII)	PCB-101	Fipronil sulfone
Cyproconazole	Triadimefon	PCB-105	Fluoranthene
Cyprodinil	Triadimenol	PCB-110	Fluorene

DCPA	Tributyl phosphate	PCB-114	Heptachlor Epoxide B
Dehydronifedipine	Triclosan	PCB-118	Nonachlor, cis
Deltamethrin	Triclosan, methyl	PCB-119	Nonchlor, trans
Diazinon	Trifloxystrobin	PCB-123	o,p'-DDD
Diazinon, oxon	Triflumizole	PCB-126	o,p'-DDE
Dichlorvos	Trifluralin	PCB-128	o,p'-DDT
Diethyl phthalate	Trimethoprim	PCB-138	Oxychlorthane
Diethylhexylphthalate (DEHP)	Triphenyl phosphate	PCB-149	p,p'-DDD
Difenoconazole	Tris(1,3-dichloro-2-propyl)phosphate (TDCPP)	PCB-151	p,p'-DDE
Diltiazem	Tris(1-chloro-2-propyl)phosphate (TCPP)	PCB-153/168	p,p'-DDT
Dimethomorph	Tris(1-chloro-2-propyl)phosphate isomer (TCPP isomer)	PCB-156	PCB-101
Diphenhydramine	Tris(2-butoxyethyl)phosphate (TBEP)	PCB-157	PCB-105
Disulfoton	Tris(2-chloroethyl)phosphate (TCEP)	PCB-158	PCB-110
d-Limonene	Tris(2-ethylhexyl)phosphate (TEHP)	PCB-167	PCB-114
Duloxetine	Triticonazole	PCB-169	PCB-118
EPTC	Venlafaxine	PCB-170	PCB-119
Erythromycin	Vinclozolin	PCB-177	PCB-123
Esfenvalerate	Warfarin	PCB-18	PCB-126
Ethalfuralin	Zoxamide	PCB-180	PCB-128
Ethyl citrate		PCB-183	PCB-138
Etofenprox		PCB-187	PCB-149
Famoxadone		PCB-189	PCB-151
Fenarimol		PCB-194	PCB-153/168
Fenbuconazole		PCB-200	PCB-156
Fenhexamide		PCB-201	PCB-157
Fenpropathrin		PCB-206	PCB-158
Fipronil		PCB-28	PCB-167
Fipronil desulfinyl		PCB-37	PCB-169
Fipronil sulfide		PCB-44	PCB-170
Fipronil sulfone		PCB-49	PCB-177
Fludioxinil		PCB-52	PCB-18
Fluoxastrobin		PCB-66	PCB-180
Fluoxetine		PCB-70	PCB-183
Flusilazole		PCB-74	PCB-187
Flutriafol		PCB-77	PCB-189
Fluvalinate, tau		PCB-81	PCB-194
Fluvoxamine		PCB-87	PCB-200
Galaxolide (HHCB)		PCB-99	PCB-201
Hexazinone		Permethrin, cis	PCB-206
Imazalil		Permethrin, trans	PCB-28
Indole			PCB-37
Iprodione			PCB-44
Isophorone			PCB-44
Isopropylbenzene (cumene)			PCB-49

Isoquinoline	PCB-52
Kresoxim, methyl	PCB-66
Malathion	PCB-70
Menthol	PCB-74
Metalaxyl	PCB-77
Metconazole	PCB-81
Methidathion	PCB-87
Methoprene	PCB-99
Metolachlor	Permethrin, cis
Miconazole	Permethrin, trans
Molinate	Phenanthrene
Myclobutanil	Pyrene

Table SI-2. Summary of chemical detections and range of chemical concentrations from the polar organic chemical integrative sampler (POCIS).

Target Analyte	stations	detections	mean	Min	quantile.25	quantile.50	quantile.75	max	Units
Tris(1-chloro-2-propyl)phosphate isomer (TCPP isomer)	10	5	930	nd	nd	22.5	106	8900	ng/L
Tris(1-chloro-2-propyl)phosphate (TCPP)	10	9	410	nd	65	93.5	197.5	3100	ng/L
Galaxolide (HHCb)	10	8	150	nd	2.9375	7.175	15.5	1300	ng/L
Diethylhexylphthalate (DEHP)	10	8	400	nd	82	200	737.5	1105	ng/L
Diethyl phthalate	10	9	150	nd	18.125	44.75	192.75	600	ng/L
Tris(1,3-dichloro-2-propyl)phosphate (TDCPP)	10	3	43	nd	nd	nd	24.75	340	ng/L
Boscalid	10	2	34	nd	nd	nd	nd	335	ng/POCIS
Menthol	10	2	26	nd	nd	nd	nd	230	ng/L
Metalaxyl	10	1	14	nd	nd	nd	nd	140	ng/L
Tris(2-butoxyethyl)phosphate (TBEP)	10	1	11	nd	nd	nd	nd	110	ng/L
Camphor	10	5	30	nd	nd	7.5	65.5	92	ng/L
Bromoform	10	10	32	5.3	14.375	31.5	43.5	77	ng/L
N,N-diethyltoluamide (DEET)	10	6	10	nd	nd	4.25	7.6625	69	ng/L
Ethyl citrate	10	4	8.9	nd	nd	nd	3.05	66	ng/L
Propiconazole	10	2	7.6	nd	nd	nd	nd	63.5	ng/POCIS
Tris(2-chloroethyl)phosphate (TCEP)	10	6	7.6	nd	nd	1.125	5.175	56	ng/L
Pyrimethanil	10	2	9.4	nd	nd	nd	nd	56	ng/POCIS
1,4-Dichlorobenzene	10	3	8.3	nd	nd	nd	6.6	53	ng/L
Indole	10	2	8.8	nd	nd	nd	nd	48	ng/L
Acetophenone	10	8	11	nd	3.375	7	8.5375	47	ng/L
d-Limonene	10	7	15	nd	0.1325	11.4	24.125	46	ng/L
Phenol	10	3	5.9	nd	nd	nd	6	39	ng/L
Tonalide (AHTN)	10	1	3.9	nd	nd	nd	nd	39	ng/L
Caffeine	10	7	10	nd	0.375	6.6	14	32	ng/L
Myclobutanil	10	2	4.8	nd	nd	nd	nd	32	ng/POCIS
N-butyl benzenesulfonamide	10	2	3.8	nd	nd	nd	nd	27	ng/L
Tributyl phosphate	10	7	6.6	nd	0.4875	2	5.925	25	ng/L
Carbamazepine	10	7	2.6	nd	0.09875	0.705	0.98	21	ng/L
PCNB	10	1	1.9	nd	nd	nd	nd	19	ng/POCIS
Venlafaxine	10	4	1.6	nd	nd	nd	0.5725	14	ng/L
Triphenyl phosphate	10	1	1.2	nd	nd	nd	nd	11.5	ng/L
Dehydronifedipine	10	1	0.91	nd	nd	nd	nd	9.1	ng/L
Cyprodinil	10	1	0.84	nd	nd	nd	nd	8.45	ng/POCIS
Diltiazem	10	1	0.64	nd	nd	nd	nd	6.4	ng/L
Cotinine	10	8	2.7	nd	1.45	2.475	3.65	6.3	ng/L
Benzophenone	10	5	0.89	nd	nd	0.165	0.9125	5.1	ng/L
Salicylate, methyl	10	1	0.41	nd	nd	nd	nd	4.1	ng/L
Citalopram	10	1	0.39	nd	nd	nd	nd	3.9	ng/L
p-tert-Octylphenol	10	2	0.68	nd	nd	nd	nd	3.8	ng/L
Trimethoprim	10	7	0.3	nd	0.001	0.045	0.31	2	ng/L

Isophorone	10	2	0.28	nd	nd	nd	nd	1.6	ng/L
Sulfamethoxazole	10	4	0.19	nd	nd	nd	0.18625	1.3	ng/L
Diphenhydramine	10	4	0.065	nd	nd	nd	0.03	0.51	ng/L
Thiabendazole	10	1	0.003	nd	nd	nd	nd	0.03	ng/L
1,7-Dimethylxanthine	10	0	nd	nd	nd	nd	nd	nd	ng/L
3,4-DCA	10	0	nd	nd	nd	nd	nd	nd	ng/POCIS
3,5-DCA	10	0	nd	nd	nd	nd	nd	nd	ng/POCIS
4-Octylphenol	10	0	nd	nd	nd	nd	nd	nd	ng/L
Acetaminophen	10	0	nd	nd	nd	nd	nd	nd	ng/L
Alachlor	10	0	nd	nd	nd	nd	nd	nd	ng/POCIS
Albuterol	10	0	nd	nd	nd	nd	nd	nd	ng/L
Allethrin	10	0	nd	nd	nd	nd	nd	nd	ng/POCIS
Anthraquinone	10	0	nd	nd	nd	nd	nd	nd	ng/L
Atrazine	10	0	nd	nd	nd	nd	nd	nd	ng/POCIS
Azinphos methyl	10	0	nd	nd	nd	nd	nd	nd	ng/POCIS
Azinphos, methyl oxon	10	0	nd	nd	nd	nd	nd	nd	ng/POCIS
Azithromycin	10	0	nd	nd	nd	nd	nd	nd	ng/L
Azoxystrobin	10	0	nd	nd	nd	nd	nd	nd	ng/POCIS
Bifenthrin	10	0	nd	nd	nd	nd	nd	nd	ng/POCIS
Bromacil	10	0	nd	nd	nd	nd	nd	nd	ng/L
Bromuconazole	10	0	nd	nd	nd	nd	nd	nd	ng/POCIS
Bupropion	10	0	nd	nd	nd	nd	nd	nd	ng/L
Butylate	10	0	nd	nd	nd	nd	nd	nd	ng/POCIS
Captan	10	0	nd	nd	nd	nd	nd	nd	ng/POCIS
Carbaryl	10	0	nd	nd	nd	nd	nd	nd	ng/L
Carbazole	10	0	nd	nd	nd	nd	nd	nd	ng/L
Carbofuran	10	0	nd	nd	nd	nd	nd	nd	ng/POCIS
Celestolide (ADBI)	10	0	nd	nd	nd	nd	nd	nd	ng/L
Chlorothalonil	10	0	nd	nd	nd	nd	nd	nd	ng/POCIS
Chlorpyrifos	10	0	nd	nd	nd	nd	nd	nd	ng/L
Chlorpyrifos, oxon	10	0	nd	nd	nd	nd	nd	nd	ng/POCIS
Cimetidine	10	0	nd	nd	nd	nd	nd	nd	ng/L
Clomazome	10	0	nd	nd	nd	nd	nd	nd	ng/POCIS
Codeine	10	0	nd	nd	nd	nd	nd	nd	ng/L
Cycloate	10	0	nd	nd	nd	nd	nd	nd	ng/POCIS
Cyfluthrin	10	0	nd	nd	nd	nd	nd	nd	ng/POCIS
Cyhalothrin	10	0	nd	nd	nd	nd	nd	nd	ng/POCIS
Cypermethrin	10	0	nd	nd	nd	nd	nd	nd	ng/POCIS
Cyproconazole	10	0	nd	nd	nd	nd	nd	nd	ng/POCIS
DCPA	10	0	nd	nd	nd	nd	nd	nd	ng/POCIS
Deltamethrin	10	0	nd	nd	nd	nd	nd	nd	ng/POCIS
Diazinon	10	0	nd	nd	nd	nd	nd	nd	ng/L
Diazinon, oxon	10	0	nd	nd	nd	nd	nd	nd	ng/POCIS

Dichlorvos	10	0	nd	nd	nd	nd	nd	nd	ng/L
Difenoconazole	10	0	nd	nd	nd	nd	nd	nd	ng/POCIS
Dimethomorph	10	0	nd	nd	nd	nd	nd	nd	ng/POCIS
Disulfoton	10	0	nd	nd	nd	nd	nd	nd	ng/POCIS
Duloxetine	10	0	nd	nd	nd	nd	nd	nd	ng/L
EPTC	10	0	nd	nd	nd	nd	nd	nd	ng/POCIS
Erythromycin	10	0	nd	nd	nd	nd	nd	nd	ng/L
Esfenvalerate	10	0	nd	nd	nd	nd	nd	nd	ng/POCIS
Ethalfluralin	10	0	nd	nd	nd	nd	nd	nd	ng/POCIS
Etofenprox	10	0	nd	nd	nd	nd	nd	nd	ng/POCIS
Famoxadone	10	0	nd	nd	nd	nd	nd	nd	ng/POCIS
Fenarimol	10	0	nd	nd	nd	nd	nd	nd	ng/POCIS
Fenbuconazole	10	0	nd	nd	nd	nd	nd	nd	ng/POCIS
Fenhexamide	10	0	nd	nd	nd	nd	nd	nd	ng/POCIS
Fenpropathrin	10	0	nd	nd	nd	nd	nd	nd	ng/POCIS
Fipronil	10	0	nd	nd	nd	nd	nd	nd	ng/POCIS
Fipronil desulfinyl	10	0	nd	nd	nd	nd	nd	nd	ng/POCIS
Fipronil sulfide	10	0	nd	nd	nd	nd	nd	nd	ng/POCIS
Fipronil sulfone	10	0	nd	nd	nd	nd	nd	nd	ng/POCIS
Fludioxinil	10	0	nd	nd	nd	nd	nd	nd	ng/POCIS
Fluoxastrobin	10	0	nd	nd	nd	nd	nd	nd	ng/POCIS
Fluoxetine	10	0	nd	nd	nd	nd	nd	nd	ng/L
Flusilazole	10	0	nd	nd	nd	nd	nd	nd	ng/POCIS
Flutriafol	10	0	nd	nd	nd	nd	nd	nd	ng/POCIS
Fluvalinate, tau	10	0	nd	nd	nd	nd	nd	nd	ng/POCIS
Fluvoxamine	10	0	nd	nd	nd	nd	nd	nd	ng/L
Hexazinone	10	0	nd	nd	nd	nd	nd	nd	ng/POCIS
Imazalil	10	0	nd	nd	nd	nd	nd	nd	ng/POCIS
Iprodione	10	0	nd	nd	nd	nd	nd	nd	ng/POCIS
Isopropylbenzene (cumene)	10	0	nd	nd	nd	nd	nd	nd	ng/L
Isoquinoline	10	0	nd	nd	nd	nd	nd	nd	ng/L
Kresoxim, methyl	10	0	nd	nd	nd	nd	nd	nd	ng/POCIS
Malathion	10	0	nd	nd	nd	nd	nd	nd	ng/POCIS
Metconazole	10	0	nd	nd	nd	nd	nd	nd	ng/POCIS
Methidathion	10	0	nd	nd	nd	nd	nd	nd	ng/POCIS
Methoprene	10	0	nd	nd	nd	nd	nd	nd	ng/POCIS
Metolachlor	10	0	nd	nd	nd	nd	nd	nd	ng/POCIS
Miconazole	10	0	nd	nd	nd	nd	nd	nd	ng/L
Molinate	10	0	nd	nd	nd	nd	nd	nd	ng/POCIS
Napropamide	10	0	nd	nd	nd	nd	nd	nd	ng/POCIS
Norfluoxetine	10	0	nd	nd	nd	nd	nd	nd	ng/L
Norsertraline	10	0	nd	nd	nd	nd	nd	nd	ng/L
Oxyflufen	10	0	nd	nd	nd	nd	nd	nd	ng/POCIS

Parathion, methyl	10	0	nd	nd	nd	nd	nd	nd	ng/POCIS
Paroxetine	10	0	nd	nd	nd	nd	nd	nd	ng/L
PCA	10	0	nd	nd	nd	nd	nd	nd	ng/POCIS
Pebulate	10	0	nd	nd	nd	nd	nd	nd	ng/POCIS
Pendimethalin	10	0	nd	nd	nd	nd	nd	nd	ng/POCIS
Permethrin	10	0	nd	nd	nd	nd	nd	nd	ng/POCIS
Phantolide (AHMI)	10	0	nd	nd	nd	nd	nd	nd	ng/L
Phenothrin	10	0	nd	nd	nd	nd	nd	nd	ng/POCIS
Phosmet	10	0	nd	nd	nd	nd	nd	nd	ng/POCIS
Piperonyl butoxide	10	0	nd	nd	nd	nd	nd	nd	ng/POCIS
p,p'-DDD	10	0	nd	nd	nd	nd	nd	nd	ng/POCIS
p,p'-DDE	10	0	nd	nd	nd	nd	nd	nd	ng/POCIS
p,p'-DDT	10	0	nd	nd	nd	nd	nd	nd	ng/POCIS
Prometon	10	0	nd	nd	nd	nd	nd	nd	ng/L
Prometryn	10	0	nd	nd	nd	nd	nd	nd	ng/POCIS
Propanil	10	0	nd	nd	nd	nd	nd	nd	ng/POCIS
Propyzamide	10	0	nd	nd	nd	nd	nd	nd	ng/POCIS
Pyraclostrobin	10	0	nd	nd	nd	nd	nd	nd	ng/POCIS
Ranitidine	10	0	nd	nd	nd	nd	nd	nd	ng/L
Resemethrin	10	0	nd	nd	nd	nd	nd	nd	ng/POCIS
Sertraline	10	0	nd	nd	nd	nd	nd	nd	ng/L
Simazine	10	0	nd	nd	nd	nd	nd	nd	ng/POCIS
Tebuconazole	10	0	nd	nd	nd	nd	nd	nd	ng/POCIS
Tefluthrin	10	0	nd	nd	nd	nd	nd	nd	ng/POCIS
Tetraconazole	10	0	nd	nd	nd	nd	nd	nd	ng/POCIS
Tetramethrin	10	0	nd	nd	nd	nd	nd	nd	ng/POCIS
Thiobencarb	10	0	nd	nd	nd	nd	nd	nd	ng/POCIS
Traseolide (ATII)	10	0	nd	nd	nd	nd	nd	nd	ng/L
Triadimefon	10	0	nd	nd	nd	nd	nd	nd	ng/POCIS
Triadimenol	10	0	nd	nd	nd	nd	nd	nd	ng/POCIS
Triclosan	10	0	nd	nd	nd	nd	nd	nd	ng/L
Triclosan, methyl	10	0	nd	nd	nd	nd	nd	nd	ng/L
Trifloxystrobin	10	0	nd	nd	nd	nd	nd	nd	ng/POCIS
Triflumizole	10	0	nd	nd	nd	nd	nd	nd	ng/POCIS
Trifluralin	10	0	nd	nd	nd	nd	nd	nd	ng/POCIS
Tris(2-ethylhexyl)phosphate (TEHP)	10	0	nd	nd	nd	nd	nd	nd	ng/L
Triticonazole	10	0	nd	nd	nd	nd	nd	nd	ng/POCIS
Vinclozolin	10	0	nd	nd	nd	nd	nd	nd	ng/POCIS
Warfarin	10	0	nd	nd	nd	nd	nd	nd	ng/L
Zoxamide	10	0	nd	nd	nd	nd	nd	nd	ng/POCIS

nd = not detected

Table SI-3. Summary of chemical detections and range of chemical concentrations from the polyethylene devices (PEDs).

Target Analytes	stations	detects	mean	min	quantile.25	quantile.50	quantile.75	max	UNIT
Chrysene	13	12	640	nd	81.1	179.67	194.85	6353.3	pg/L
Benzo[a]pyrene	13	12	54	nd	14.23	30.67	78	220.7	pg/L
p,p'-DDE	13	13	48	2.16	6.154	22.231	68.03	194.7	pg/L
p,p'-DDD	13	8	30	nd	nd	16.8	29.06	186.7	pg/L
Dibenzo[a,h]anthracene + Indeno[1,2,3-cd]pyrene	13	13	34	3	7.33	17.67	47.95	155.7	pg/L
Cypermethrin	13	4	19	nd	nd	nd	26.03	135.3	pg/L
PCB-52	13	12	26	nd	7.67	22.57	34.37	94.0	pg/L
Dieldrin	13	10	28	nd	4.12	11.47	42.15	92.0	pg/L
PCB-49	13	4	8	nd	nd	nd	2.67	88.2	pg/L
Benzo[g,h,i]perylene	13	13	13	0.9	1.93	3.6	9.67	66.7	pg/L
PCB-101	13	12	21	nd	0.52	28.37	35.93	55.3	pg/L
PCB-138	13	12	13	nd	0.127	0.35	35.42	55.3	pg/L
Endrin	13	4	13	nd	nd	nd	35.42	55.3	pg/L
PCB-169	13	4	13	nd	nd	nd	35.42	55.3	pg/L
Chlordane, alpha	13	13	14	2.48	4.91	6.02	20.9	45.1	pg/L
o,p'-DDD	13	5	5.2	nd	nd	nd	5.0585	42.0	pg/L
PCB-18	13	4	8.6	nd	nd	nd	22.33	38.0	pg/L
DDMU	13	4	6.5	nd	nd	nd	10.28	29.7	pg/L
Permethrin, cis	13	4	5.2	nd	nd	nd	10.20	26.4	pg/L
Cyfluthrin	13	4	4	nd	nd	nd	5.51	24.9	pg/L
Chlordane, gamma	13	13	6.2	1.17	1.97	3	8.62	22.3	pg/L
Heptachlor Epoxide B	13	4	4.4	nd	nd	nd	11.593	19.7	pg/L
PCB-28	13	2	1.9	nd	nd	nd	nd	17.0	pg/L
BDE-49	13	13	4.3	0.47	1.21	2.159	4.15	17.0	pg/L
o,p'-DDE	13	7	4	nd	nd	1.45	5.69	15.7	pg/L
Permethrin, trans	13	4	2.7	nd	nd	nd	4.33	15.3	pg/L
Bifenthrin	13	7	1.9	nd	nd	0.13	1.8415	12.2	pg/L
PCB-70	13	4	1.6	nd	nd	nd	2.24	11.2	pg/L
PCB-110	13	11	2	nd	0.43	1.68	2.263	10.2	pg/L
BDE-47	13	13	2	0.31	0.49	0.77	1.75	9.4	pg/L
Chlordene	13	3	1.2	nd	nd	nd	nd	9.2	pg/L
Nonchlor, trans	13	13	3	0.59	1.10	1.49	4.03	9.2	pg/L
BDE-15	13	1	0.7	nd	nd	nd	nd	9.1	pg/L
Nonachlor, cis	13	13	2.6	0.487	0.958	1.5	3.876	8.2	pg/L
PCB-149	13	12	1.4	nd	0.32	0.92	1.25	7.9	pg/L
PCB-66	13	3	1	nd	nd	nd	nd	7.3	pg/L
BDE-28	13	9	1.2	nd	nd	0.43	0.858	5.6	pg/L
PCB-99	13	7	1	nd	nd	0.66	1.28	5.5	pg/L
o,p'-DDT	13	3	0.79	nd	nd	nd	nd	4.7	pg/L
Fenpropathrin	13	3	0.8	nd	nd	nd	nd	4.6	pg/L
PCB-74	13	1	0.29	nd	nd	nd	nd	3.8	pg/L
PCB-153/168	13	13	0.68	0.035	0.177	0.411	0.577	3.3	pg/L
BDE-99	13	13	0.44	0.057	0.086	0.142	0.403	2.6	pg/L
PCB-87	13	4	0.36	nd	nd	nd	0.663	2.5	pg/L
PCB-118	13	12	0.6	nd	0.166	0.434	0.807	2.4	pg/L
PCB-151	13	11	0.3	nd	0.081	0.208	0.278	1.7	pg/L
Oxychlordane	13	3	0.37	nd	nd	nd	nd	1.7	pg/L
BDE-75	13	1	0.12	nd	nd	nd	nd	1.5	pg/L
BDE-155	13	4	0.15	nd	nd	nd	0.025	1.2	pg/L
Cyhalothrin, lambda	13	4	0.18	nd	nd	nd	0.255	1.1	pg/L
PCB-105	13	10	0.23	nd	0.086	0.186	0.366	0.9	pg/L
PCB-187	13	12	0.16	nd	0.048	0.093	0.128	0.8	pg/L
PCB-180	13	12	0.15	nd	0.049	0.089	0.157	0.7	pg/L
PCB-128	13	11	0.15	nd	0.034	0.105	0.191	0.6	pg/L

BDE-100	13	13	0.14	0.019	0.037	0.06	0.144	0.6	pg/L
PCB-177	13	11	0.11	nd	0.035	0.062	0.095	0.6	pg/L
Deltamethrin	13	1	0.044	nd	nd	nd	nd	0.6	pg/L
Esfenvalerate	13	4	0.074	nd	nd	nd	0.087	0.5	pg/L
PCB-119	13	1	0.038	nd	nd	nd	nd	0.5	pg/L
BDE-66	13	10	0.14	nd	0.034	0.094	0.16	0.5	pg/L
PCB-170	13	9	0.076	nd	nd	0.041	0.07	0.4	pg/L
PCB-123	13	11	0.099	nd	0.025	0.050	0.1305	0.4	pg/L
PCB-183	13	11	0.066	nd	0.023	0.039	0.066	0.4	pg/L
PCB-114	13	10	0.061	nd	0.012	0.052	0.066	0.3	pg/L
PCB-189	13	6	0.024	nd	nd	nd	0.012	0.2	pg/L
PCB-77	13	1	0.016	nd	nd	nd	nd	0.2	pg/L
PCB-158	13	11	0.042	nd	0.017	0.023	0.057	0.2	pg/L
PCB-156	13	10	0.046	nd	0.018	0.033	0.053	0.2	pg/L
PCB-201	13	12	0.038	nd	0.016	0.026	0.046	0.2	pg/L
PCB-167	13	5	0.016	nd	nd	nd	0.024	0.1	pg/L
PCB-194	13	11	0.013	nd	0.006	0.008	0.015	0.1	pg/L
BDE-153	13	9	0.011	nd	nd	0.006	0.01	0.0	pg/L
BDE-154	13	11	0.0082	nd	0.003	0.004	0.009	0.0	pg/L
PCB-157	13	3	0.0064	nd	nd	nd	nd	0.0	pg/L
PCB-200	13	6	0.0034	nd	nd	nd	0.004	0.0	pg/L
PCB-206	13	7	0.0033	nd	nd	0.003	0.005	0.0	pg/L
BDE-183	13	6	0.0021	nd	nd	nd	0.005	0.0	pg/L
Aldrin	13	0	nd	nd	nd	nd	nd	nd	pg/L
BDE-119	13	0	nd	nd	nd	nd	nd	nd	pg/L
BDE-33	13	0	nd	nd	nd	nd	nd	nd	pg/L
PCB-126	13	0	nd	nd	nd	nd	nd	nd	pg/L
PCB-37	13	0	nd	nd	nd	nd	nd	nd	pg/L
PCB-44	13	0	nd	nd	nd	nd	nd	nd	pg/L
PCB-81	13	0	nd	nd	nd	nd	nd	nd	pg/L
p,p'-DDT	13	0	nd	nd	nd	nd	nd	nd	pg/L

nd = not detected

Table SI-4. Summary of chemical detections and range of chemical concentrations from the solid phase microextraction devices (SPME).

Target Analyte	stations	detects	mean	min	quantile.25	quantile.50	quantile.75	max	UNIT
Fluoranthene	13	13	3000	412	822	1161	2833	14300	pg/L
Acenaphthene	13	10	1600	nd	100	517	1700	8775	pg/L
Phenanthrene	13	13	2000	8.39	818	976	2370	7778	pg/L
Anthracene	13	10	1400	nd	131	337	1933	5970	pg/L
Fluorene	13	11	1300	nd	366	1100	1911	5463	pg/L
Chlorpyrifos	14	6	350	nd	nd	nd	111.4455	4184.5	pg/L
Pyrene	13	13	1100	96	511	1310	1410	2420	pg/L
Dibenzo[a,h]anthracene + Indeno[1,2,3-cd]pyrene	13	6	130	nd	nd	nd	86	1060	pg/L
Benzo[g,h,i]perylene	13	6	100	nd	nd	nd	67	842	pg/L
Chrysene	13	9	230	nd	nd	84	334	814	pg/L
Benz[a]anthracene	13	8	160	nd	nd	85	288	590	pg/L
Benzo[b]fluoranthene	13	8	110	nd	nd	56	104	574	pg/L
Benzo[k]fluoranthene	13	9	72	nd	nd	38	93	360	pg/L
p,p'-DDE	14	11	44	nd	8.904	23.85	50.1875	253	pg/L
Dieldrin	14	8	51	nd	nd	10.79	92.1795	195.5	pg/L
Chlordane, alpha	14	14	33	2.09	7.08375	9.99	56.6875	119	pg/L
o,p'-DDT	14	1	6.5	nd	nd	nd	nd	91.67	pg/L
o,p'-DDD	14	2	8.8	nd	nd	nd	nd	91.2	pg/L
PCB-110	14	4	7.4	nd	nd	nd	8.1	63.683	pg/L
PCB-149	14	6	7.5	nd	nd	nd	7.60875	62.381	pg/L
Heptachlor Epoxide B	14	3	9.9	nd	nd	nd	nd	61.95	pg/L
PCB-101	14	5	7.2	nd	nd	nd	7.343	61.489	pg/L
Bifenthrin	14	5	6.3	nd	nd	nd	5.17	51.35	pg/L
PCB-99	14	1	2.9	nd	nd	nd	nd	40.482	pg/L
Chlordane, gamma	14	14	11	0.6735	2.3275	3.8	18.1875	39.85	pg/L
p,p'-DDD	14	3	5.3	nd	nd	nd	nd	38.8	pg/L
PCB-70	14	1	2.5	nd	nd	nd	nd	35.196	pg/L
Benzo[a]pyrene	13	5	4.6	nd	nd	nd	6	32	pg/L
PCB-138	14	8	4.5	nd	nd	2.37125	4.5325	30.521	pg/L
PCB-66	14	1	2.2	nd	nd	nd	nd	30.506	pg/L
PCB-187	14	11	4.2	nd	1.004	2.204	4.2825	26.328	pg/L
Nonchlor, trans	14	14	8	0.546	1.90775	2.8	14.68825	25.945	pg/L
o,p'-DDE	14	5	5.5	nd	nd	nd	11.72	24.2	pg/L
BDE-47	14	14	4.5	0.555	1.01875	1.7075	2.78875	21.9	pg/L
PCB-118	14	10	3.7	nd	0.366375	2.22425	4.405	19.749	pg/L
Nonachlor, cis	14	14	5.9	0.5345	1.78375	2.30975	10.7575	19.645	pg/L
Fenpropathrin	14	2	2.4	nd	nd	nd	nd	19.35	pg/L
PCB-87	14	1	1.2	nd	nd	nd	nd	17.053	pg/L
PCB-151	14	9	1.8	nd	nd	1.1555	1.56825	13.028	pg/L
Permethrin, trans	14	2	1.5	nd	nd	nd	nd	12.9	pg/L

Cypermethrin	14	3	1.5	nd	nd	nd	nd	12.24	pg/L
PCB-170	14	7	1.8	nd	nd	0.74725	2.316	11.36	pg/L
Permethrin, cis	14	2	1.1	nd	nd	nd	nd	11.005	pg/L
PCB-183	14	7	1.5	nd	nd	0.51675	1.85725	10.724	pg/L
PCB-177	14	6	1.4	nd	nd	nd	1.89425	10.509	pg/L
PCB-201	14	7	2	nd	nd	0.9385	2.748875	10.5	pg/L
PCB-206	14	2	0.93	nd	nd	nd	nd	9.3085	pg/L
PCB-153/168	14	14	1.4	0.092	0.419375	0.912	1.35275	8.444	pg/L
PCB-194	14	4	1	nd	nd	nd	1.74375	6.502	pg/L
BDE-99	14	13	0.98	nd	0.2125	0.3525	0.63875	6.18	pg/fiber
PCB-128	14	3	0.71	nd	nd	nd	nd	6.155	pg/L
PCB-105	14	2	0.61	nd	nd	nd	nd	5.986	pg/L
Fipronil sulfide	14	6	0.43	nd	nd	nd	0.04375	5.56	pg/fiber
Fipronil sulfone	14	6	0.56	nd	nd	nd	0.18875	4.93	pg/fiber
Oxychlordane	14	4	0.89	nd	nd	nd	1.473	4.824	pg/L
Cyfluthrin	14	2	0.44	nd	nd	nd	nd	4.095	pg/L
PCB-123	14	1	0.26	nd	nd	nd	nd	3.596	pg/L
PCB-158	14	3	0.31	nd	nd	nd	nd	2.997	pg/L
BDE-66	14	5	0.3	nd	nd	nd	0.2425	2.77	pg/fiber
PCB-180	14	3	0.28	nd	nd	nd	nd	2.531	pg/L
BDE-100	14	10	0.38	nd	0.0025	0.0875	0.2225	2.29	pg/fiber
BDE-155	14	2	0.22	nd	nd	nd	nd	2.29	pg/fiber
BDE-49	14	13	0.48	nd	0.1075	0.225	0.43125	2.24	pg/fiber
PCB-156	14	1	0.16	nd	nd	nd	nd	2.22	pg/L
PCB-114	14	1	0.15	nd	nd	nd	nd	2.106	pg/L
Fipronil desulfinyl	14	6	0.22	nd	nd	nd	0.08625	2.03	pg/fiber
PCB-200	14	1	0.11	nd	nd	nd	nd	1.581	pg/L
BDE-28	14	7	0.32	nd	nd	0.06	0.45125	1.42	pg/fiber
PCB-167	14	1	0.089	nd	nd	nd	nd	1.239	pg/L
Cyhalothrin, lambda	14	2	0.086	nd	nd	nd	nd	0.8435	pg/L
Fipronil	14	3	0.11	nd	nd	nd	nd	0.83	pg/fiber
Esfenvalerate	14	3	0.061	nd	nd	nd	nd	0.5	pg/L
BDE-153	14	3	0.055	nd	nd	nd	nd	0.41	pg/fiber
BDE-154	14	2	0.035	nd	nd	nd	nd	0.35	pg/fiber
BDE-75	14	2	0.036	nd	nd	nd	nd	0.33	pg/fiber
BDE-183	14	1	0.0014	nd	nd	nd	nd	0.02	pg/fiber
Aldrin	14	0	nd	nd	nd	nd	nd	nd	pg/L
BDE-119	14	0	nd	nd	nd	nd	nd	nd	pg/fiber
BDE-15	14	0	nd	nd	nd	nd	nd	nd	pg/fiber
BDE-33	14	0	nd	nd	nd	nd	nd	nd	pg/fiber
Chlordene	14	0	nd	nd	nd	nd	nd	nd	pg/L
DDMU	14	0	nd	nd	nd	nd	nd	nd	pg/L
Deltamethrin	14	0	nd	nd	nd	nd	nd	nd	pg/L

Diazinon	13	0	nd	nd	nd	nd	nd	nd	pg/L
Endrin	14	0	nd	nd	nd	nd	nd	nd	pg/L
PCB-119	14	0	nd	nd	nd	nd	nd	nd	pg/L
PCB-126	14	0	nd	nd	nd	nd	nd	nd	pg/L
PCB-157	14	0	nd	nd	nd	nd	nd	nd	pg/L
PCB-169	14	0	nd	nd	nd	nd	nd	nd	pg/L
PCB-18	13	0	nd	nd	nd	nd	nd	nd	pg/L
PCB-189	14	0	nd	nd	nd	nd	nd	nd	pg/L
PCB-28	13	0	nd	nd	nd	nd	nd	nd	pg/L
PCB-37	13	0	nd	nd	nd	nd	nd	nd	pg/L
PCB-44	13	0	nd	nd	nd	nd	nd	nd	pg/L
PCB-49	13	0	nd	nd	nd	nd	nd	nd	pg/L
PCB-52	13	0	nd	nd	nd	nd	nd	nd	pg/L
PCB-74	14	0	nd	nd	nd	nd	nd	nd	pg/L
PCB-77	14	0	nd	nd	nd	nd	nd	nd	pg/L
PCB-81	14	0	nd	nd	nd	nd	nd	nd	pg/L
p,p'-DDT	14	0	nd	nd	nd	nd	nd	nd	pg/L

nd = not detected

Figure SI-1. Expanded heat map of individual chemicals detected by each of the passive sampling devices at each site. Sites LARM and LATI are not included in this comparison due to missing data for all three sampler types.

