

Supplemental Information

Refocusing Mussel Watch on Contaminants of Emerging Concern (CECs): the California Pilot Study (2009-10)

Keith A. Maruya, Nathan G. Dodder, Rebecca A. Schaffner, Stephen B. Weisberg,
Dominic Gregorio, Susan Klosterhaus, David A. Alvarez, Edward T. Furlong, Kimani L.
Kimbrough, Gunnar G. Lauenstein and John D. Christensen

Table SI-1. Sampling stations for the California pilot study on contaminants of emerging concern (CECs) (2009-10).

STATION	LAT	LON	URBAN	MIX_DEV	LOW_DEV	AGR	POTW	STORMH20	ASBS
ABWJ/Anaheim Bay-West Jetty	33.733	-118.101	TRUE	FALSE	FALSE	FALSE	FALSE	TRUE	FALSE
AHCM/Arroyo Hondo Canyon Mouth	34.473	-120.142	FALSE	FALSE	TRUE	FALSE	FALSE	FALSE	FALSE
AHLG/Agua Hedionda Lagoon	33.144	-117.337	FALSE	TRUE	FALSE	FALSE	FALSE	TRUE	FALSE
ANAI/Ano Nuevo-Ano Nuevo Island	37.145	-122.346	FALSE	FALSE	TRUE	FALSE	FALSE	FALSE	FALSE
BBBE/Bodega Bay-Bay Entrance	38.305	-123.066	FALSE	FALSE	TRUE	FALSE	FALSE	FALSE	TRUE
CBAP/Carmel Bay-Arrowhead Point	36.561	-121.940	FALSE	TRUE	FALSE	FALSE	FALSE	FALSE	TRUE
CCSB/Crystal Cove State Beach	33.569	-117.836	FALSE	TRUE	FALSE	FALSE	FALSE	TRUE	TRUE
CDRF/Cardiff Reef	33.000	-117.279	FALSE	TRUE	FALSE	FALSE	FALSE	TRUE	FALSE
CPSB/Carpenteria State Beach ^a	34.387	-119.514	FALSE	FALSE	TRUE	FALSE	TRUE	TRUE	FALSE
DNPT/Dana Point	33.460	-117.710	FALSE	TRUE	FALSE	FALSE	FALSE	TRUE	FALSE
DRDP/Duxbury Reef-Duxbury Point	37.893	-122.707	FALSE	FALSE	TRUE	FALSE	FALSE	FALSE	TRUE
EUSB/Eureka-Samoa Bridge	40.822	-124.171	FALSE	FALSE	FALSE	TRUE	FALSE	TRUE	FALSE
FIEL/Farallon Island-East Landing	37.696	-123.000	FALSE	FALSE	TRUE	FALSE	TRUE	TRUE	TRUE
GCGC/Gerstle Cove-Gerstle Cove	38.565	-123.332	FALSE	FALSE	TRUE	FALSE	FALSE	FALSE	TRUE
HMBJ/Eureka-Humboldt Bay	40.764	-124.238	FALSE	FALSE	FALSE	TRUE	FALSE	FALSE	FALSE
IBNJ/Imperial Beach-North Jetty	32.588	-117.134	TRUE	FALSE	FALSE	FALSE	FALSE	TRUE	FALSE
KRFR/Klamath River-Flint Rock Head	41.527	-124.080	FALSE	FALSE	TRUE	FALSE	FALSE	FALSE	TRUE
LARM/LA River-Queen Mary ^a	33.755	-118.195	TRUE	FALSE	FALSE	FALSE	FALSE	TRUE	FALSE
LBBW/Long Beach-Breakwater	33.723	-118.175	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
LJLJ/La Jolla-Point La Jolla	32.851	-117.274	FALSE	TRUE	FALSE	FALSE	FALSE	TRUE	TRUE
MBES/Monterey Bay-Elkhorn Slough	36.810	-121.785	FALSE	FALSE	FALSE	TRUE	FALSE	FALSE	FALSE
MBML/Monterey Bay-Moss Landing	36.801	-121.790	FALSE	FALSE	FALSE	TRUE	FALSE	FALSE	FALSE
MBSC/Monterey Bay-Point Santa Cruz	36.954	-122.025	FALSE	TRUE	FALSE	FALSE	FALSE	TRUE	FALSE
MBSR/Monterey Bay-Salinas River	36.800	-121.787	FALSE	FALSE	FALSE	TRUE	FALSE	FALSE	FALSE
MBVB/Mission Bay-Ventura Bridge	32.768	-117.242	TRUE	FALSE	FALSE	FALSE	FALSE	TRUE	FALSE
MBVG/Morro Bay-Virg's	35.371	-120.858	FALSE	FALSE	TRUE	FALSE	FALSE	TRUE	FALSE

Table SI-1 (cont.)

STATION	LAT	LON	URBAN	MIX_DEV	LOW_DEV	AGR	POTW	STORMH20	ASBS
MDSJ/Marina Del Rey-South Jetty	33.961	-118.458	TRUE	FALSE	FALSE	FALSE	FALSE	TRUE	FALSE
MULG/Mugu Lagoon ^a	34.102	-119.104	FALSE	FALSE	FALSE	TRUE	FALSE	FALSE	FALSE
MUOS/Point Mugu-Old Stairs	34.066	-118.998	FALSE	FALSE	TRUE	FALSE	FALSE	FALSE	TRUE
NBWJ/Newport Beach-West Jetty	33.591	-117.881	FALSE	TRUE	FALSE	FALSE	FALSE	TRUE	TRUE
NHPB/Newport Harbor PCH Bridge ^a	33.617	-117.905	FALSE	TRUE	FALSE	FALSE	FALSE	TRUE	FALSE
OSBJ/Oceanside-Beach Jetty	33.202	-117.394	FALSE	TRUE	FALSE	FALSE	FALSE	TRUE	FALSE
PALH/Point Arena-Lighthouse	38.953	-123.743	FALSE	FALSE	TRUE	FALSE	FALSE	FALSE	FALSE
PCFB/Pudding Creek-Fort Bragg	39.461	-123.809	FALSE	FALSE	TRUE	FALSE	FALSE	TRUE	FALSE
PCPC/Point Conception-Point Conception	34.495	-120.497	FALSE	FALSE	TRUE	FALSE	FALSE	FALSE	FALSE
PDPD/Point Dume-Point Dume	34.000	-118.807	FALSE	FALSE	TRUE	FALSE	FALSE	TRUE	TRUE
PDSC/Pt. Delgada-Shelter Cove	40.023	-124.073	FALSE	FALSE	TRUE	FALSE	TRUE	FALSE	TRUE
PGLP/Pacific Grove-Lovers Point	36.627	-121.917	FALSE	FALSE	TRUE	FALSE	FALSE	TRUE	TRUE
PLSR/Point Lobos-Weston Beach	36.511	-121.942	FALSE	TRUE	FALSE	FALSE	TRUE	FALSE	TRUE
PPJB/Partington Point-Julia Burns	36.174	-121.696	FALSE	FALSE	TRUE	FALSE	FALSE	FALSE	TRUE
PRNS/Point Reyes-National Seashore	37.994	-122.971	FALSE	FALSE	TRUE	FALSE	FALSE	FALSE	TRUE
PVRP/Palos Verdes-Royal Palms SP	33.717	-118.323	FALSE	TRUE	FALSE	FALSE	TRUE	TRUE	FALSE
RBMJ/Redondo Beach-Municipal Jetty	33.832	-118.392	TRUE	FALSE	FALSE	FALSE	FALSE	TRUE	FALSE
SBSB/Point Santa Barbara-Santa Barbara	34.396	-119.728	FALSE	TRUE	FALSE	FALSE	FALSE	TRUE	FALSE
SCBR/Santa Catalina-Bird Rock	33.452	-118.488	FALSE	FALSE	TRUE	FALSE	FALSE	FALSE	TRUE
SCFP/Santa Cruz-Fraser Point	34.063	-119.919	FALSE	FALSE	TRUE	FALSE	FALSE	FALSE	TRUE
SCID/San Clemente Island-Darter	33.004	-118.586	FALSE	FALSE	TRUE	FALSE	FALSE	FALSE	TRUE
SCRJ/Scripps Reef	32.872	-117.253	FALSE	TRUE	FALSE	FALSE	FALSE	TRUE	TRUE
SCRJ/Santa Clara River-North Jetty	34.242	-119.269	FALSE	FALSE	FALSE	TRUE	TRUE	FALSE	FALSE
SDCB/San Diego-Coronado Bridge	32.687	-117.158	TRUE	FALSE	FALSE	FALSE	FALSE	TRUE	FALSE
SDHI/San Diego-Harbor Island ^a	32.725	-117.195	TRUE	FALSE	FALSE	FALSE	FALSE	TRUE	FALSE
SFDB/San Francisco Bay-Dumbarton Bridge	37.503	-122.121	FALSE	TRUE	FALSE	FALSE	FALSE	TRUE	FALSE

Table SI-1 (cont.)

STATION	LAT	LON	URBAN	MIX_DEV	LOW_DEV	AGR	POTW	STORMH20	ASBS
SFEM/San Francisco Bay-Emeryville	37.821	-122.330	TRUE	FALSE	FALSE	FALSE	TRUE	TRUE	FALSE
SFSM/San Francisco Bay-San Mateo Bridge	37.578	-122.254	FALSE	TRUE	FALSE	FALSE	TRUE	TRUE	FALSE
SFYB/San Francisco-Yerba Buena ^a	37.815	-122.371	TRUE	FALSE	FALSE	FALSE	TRUE	TRUE	FALSE
SGSG/Pt.St. George-Point Saint George	41.748	-124.208	FALSE	FALSE	TRUE	FALSE	TRUE	FALSE	FALSE
SLSL/San Luis Obispo-San Luis Point	35.161	-120.756	FALSE	FALSE	TRUE	FALSE	FALSE	FALSE	FALSE
SMOH/San Miguel Otter Harbor	34.050	-120.400	FALSE	FALSE	TRUE	FALSE	FALSE	FALSE	TRUE
SMPS/Santa Maria River-Point Sal	34.905	-120.670	FALSE	FALSE	FALSE	TRUE	FALSE	FALSE	FALSE
SNIF/San Nicholas Island-Freighter Dock	33.219	-119.444	FALSE	FALSE	TRUE	FALSE	FALSE	FALSE	TRUE
SPFP/San Pedro Harbor-Fishing Pier	33.707	-118.274	TRUE	FALSE	FALSE	FALSE	FALSE	TRUE	FALSE
SRDM/Sea Ranch-Del Mar	38.737	-123.494	FALSE	FALSE	TRUE	FALSE	FALSE	FALSE	FALSE
SSSS/San Simeon Point-San Simeon Point	35.635	-121.195	FALSE	FALSE	TRUE	FALSE	FALSE	FALSE	FALSE
SYRN/San Ynez River-North	34.734	-120.618	FALSE	FALSE	TRUE	FALSE	FALSE	FALSE	FALSE
TBSM/Las Tunas Beach-Santa Monica Bay	34.039	-118.597	FALSE	FALSE	TRUE	FALSE	FALSE	TRUE	FALSE
TBSR/Tomales Bay-Spenger's Residence	38.150	-122.904	FALSE	FALSE	TRUE	FALSE	FALSE	FALSE	FALSE
TJRE/Tijuana River Estuary ^a	32.570	-117.127	TRUE	FALSE	FALSE	FALSE	FALSE	TRUE	FALSE
LATI/Los Angeles Harbor Terminal Island ^{a,b}	33.722	-118.243	TRUE	FALSE	FALSE	FALSE	TRUE	TRUE	FALSE
SFSB/San Francisco Bay-South Bay ^{a,c}	37.477	-121.975	TRUE	FALSE	FALSE	FALSE	TRUE	TRUE	FALSE
SPNR/San Pablo Bay - Napa River ^{a,c}	38.299	-122.283	FALSE	FALSE	FALSE	TRUE	FALSE	TRUE	FALSE
SPPR/San Pablo Bay - Petaluma River ^{a,c}	38.133	-122.501	FALSE	FALSE	TRUE	FALSE	FALSE	TRUE	FALSE

POTW – publicly owned treatment works discharging treated municipal wastewater effluent

ASBS – areas of special biological significance

TRUE – station assigned to category; FALSE – station not assigned to category

^a stations with passive sampling devices (PSDs)

^b sampled Jun-Jul 2009

^c sampled Aug-Sep 2010

Table SI-2. Target CEC analytes for native mussel tissue (*Mytilus* spp.).

COMPOUND	CLASS	COMPOUND	CLASS
		BDE-155	ICC
		BDE-17	ICC
Atrazine	CUP	BDE-183	ICC
Chlorothalonil	CUP	BDE-194	ICC
Chlorpyrifos	CUP	BDE-196	ICC
Chlorpyrifos, methyl	CUP	BDE-197	ICC
Chlorpyrifos, oxon	CUP	BDE-198/199/203/200	ICC
Cyanazine	CUP	BDE-201	ICC
Cypermethrin (total)	CUP	BDE-206	ICC
Dacthal	CUP	BDE-207	ICC
Desethylatrazine	CUP	BDE-208	ICC
Diazinon	CUP	BDE-209	ICC
Diazinon, oxon	CUP	BDE-28	ICC
Dimethoate	CUP	BDE-33	ICC
Ethion	CUP	BDE-47	ICC
Fenitrothion	CUP	BDE-49/71	ICC
Fonofos	CUP	BDE-66	ICC
Hexazinone	CUP	BDE-75	ICC
Malathion	CUP	BDE-85	ICC
Metribuzin	CUP	BDE-99	ICC
Parathion, ethyl	CUP	Bisphenol A	ICC
Parathion, methyl	CUP	Hexabromocyclododecane (HBCD), alpha	ICC
Permethrin (total)	CUP	Hexabromocyclododecane (HBCD), beta	ICC
Phosmet	CUP	Hexabromocyclododecane (HBCD), gamma	ICC
Pirimiphos, methyl	CUP	Octachlorostyrene	ICC
Quintozene	CUP	Perfluorobutane sulfonate (PFBS)	ICC
Simazine	CUP	Perfluorodecanesulfonate (PFDS)	ICC
Tecnazene	CUP	Perfluorodecanoic acid (PFDA)	ICC
Terbufos	CUP	Perfluorododecanoic acid (PFDoDA)	ICC
1,2-Bis(2,4,6-tribromophenoxy)ethane (BTBPE)	ICC	Perfluoroheptanoic acid (PFHpA)	ICC
2-Ethylhexyl-2,3,4,5-tetrabromobenzoate (TBB)	ICC	Perfluorohexanoic acid (PFHxA)	ICC
2-Ethylhexyl-2,3,4,5-tetrabromophthalate (TBPH)	ICC	Perfluorohexansulfonate (PFHxS)	ICC
4-n-Octylphenol	ICC	Perfluorononanoic acid (PFNA)	ICC
4-Nonylphenol	ICC	Perfluorooctane sulfonate (PFOS)	ICC
4-Nonylphenol Diethoxylate	ICC	Perfluorooctanesulfonamide (PFOSA)	ICC
4-Nonylphenol Monoethoxylate	ICC	Perfluorooctanoic acid (PFOA)	ICC
BDE-100	ICC	Perfluoroundecanoic acid (PFUnDA)	ICC
BDE-118	ICC	Tris(1,3-dichloro-2-propyl)phosphate (TDCPP)	ICC
BDE-126	ICC	Tris(1-chloro-2-propyl)phosphate (TCPP)	ICC
BDE-138	ICC	Tris(2-chloroethyl)phosphate (TCEP)	ICC
BDE-153	ICC	10-Hydroxy-amitriptyline	PPCP
BDE-154	ICC	Acetaminophen	PPCP

Table SI-2 (cont.)

COMPOUND	CLASS	COMPOUND	CLASS
		Lomefloxacin	PPCP
Albuterol	PPCP	Meprobamate	PPCP
Alprazolam	PPCP	Metformin	PPCP
Amitriptyline	PPCP	Methylprednisolone	PPCP
Amlodipine	PPCP	Metoprolol	PPCP
Amphetamine	PPCP	Naproxen	PPCP
Atenolol	PPCP	Norfloxacin	PPCP
Atorvastatin	PPCP	Norfluoxetine	PPCP
Azithromycin	PPCP	Norverapamil	PPCP
Benzoylcegonine	PPCP	Ofloxacin	PPCP
Benztropine	PPCP	Ormetoprim	PPCP
Caffeine	PPCP	Oxacillin	PPCP
Carbamazepine	PPCP	Oxolinic Acid	PPCP
Cimetidine	PPCP	Oxycodone	PPCP
Clarithromycin	PPCP	Paroxetine	PPCP
Clinafloxacin	PPCP	Penicillin G	PPCP
Clonidine	PPCP	Penicillin V	PPCP
Cloxacillin	PPCP	Perthane	PPCP
Cocaine	PPCP	Prednisolone	PPCP
Codeine	PPCP	Prednisone	PPCP
Cotinine	PPCP	Promethazine	PPCP
Dehydronifedipine	PPCP	Propoxyphene	PPCP
Desmethyldiltiazem	PPCP	Propranolol	PPCP
Diazepam	PPCP	Ranitidine	PPCP
Digoxigenin	PPCP	Roxithromycin	PPCP
Digoxin	PPCP	Sarafloxacin	PPCP
Diltiazem	PPCP	Sertraline	PPCP
Diphenhydramine	PPCP	Sulfachloropyridazine	PPCP
Enalapril	PPCP	Sulfadiazine	PPCP
Enrofloxacin	PPCP	Sulfadimethoxine	PPCP
Erythromycin-H2O	PPCP	Sulfamerazine	PPCP
Flumequine	PPCP	Sulfamethazine	PPCP
Fluocinonide	PPCP	Sulfamethizole	PPCP
Fluoxetine	PPCP	Sulfamethoxazole	PPCP
Fluticasone propionate	PPCP	Sulfanilamide	PPCP
Furosemide	PPCP	Sulfathiazole	PPCP
Gemfibrozil	PPCP	Thiabendazole	PPCP
Glipizide	PPCP	Trenbolone acetate	PPCP
Glyburide	PPCP	Triamterene	PPCP
Hydrocodone	PPCP	Trimethoprim	PPCP
Hydrocortisone	PPCP	Tylosin	PPCP
Ibuprofen	PPCP	Verapamil	PPCP

Table SI-2 (cont.)

COMPOUND	CLASS	COMPOUND	CLASS
		2-Methylnaphthalene	PAH
Warfarin	PPCP	Acenaphthene	PAH
Dibutyltin	BT	Acenaphthylene	PAH
Tetrabutyltin	BT	Anthracene	PAH
Tributyltin	BT	Benz[a]anthracene	PAH
1,2,3,4-Tetrachlorobenzene	OC	Benzo[a]pyrene	PAH
1,2,4,5-Tetrachlorobenzene	OC	Benzo[b]fluoranthene	PAH
2,4'-DDD	OC	Benzo[e]pyrene	PAH
2,4'-DDE	OC	Benzo[g,h,i]perylene	PAH
2,4'-DDT	OC	Benzo[k]fluoranthene	PAH
4,4'-DDD	OC	Benzo[thiophene]	PAH
4,4'-DDE	OC	Biphenyl	PAH
4,4'-DDT	OC	C1-Benzothiophenes	PAH
Aldrin	OC	C1-Chrysenes	PAH
Chlordane, alpha	OC	C1-Decalins	PAH
Chlordane, gamma	OC	C1-Dibenzo(a,h)anthracenes	PAH
Chlordane, oxy	OC	C1-Dibenzothiophenes	PAH
DDMU	OC	C1-Fluoranthenes/Pyrenes	PAH
Dieldrin	OC	C1-Fluorenes	PAH
Endosulfan Sulfate	OC	C1-Naphthalenes	PAH
Endosulfan, alpha	OC	C1-Naphthobenzothiophenes	PAH
Endosulfan, beta	OC	C1-Phenanthrenes/Anthracenes	PAH
Endrin	OC	C29-Hopane	PAH
Endrin Ketone	OC	C2-Benzothiophenes	PAH
HCH, alpha	OC	C2-Chrysenes	PAH
HCH, beta	OC	C2-Decalins	PAH
HCH, delta	OC	C2-Dibenzo(a,h)anthracenes	PAH
HCH, gamma	OC	C2-Dibenzothiophenes	PAH
Heptachlor	OC	C2-Fluoranthenes/Pyrenes	PAH
Heptachlor Epoxide	OC	C2-Fluorenes	PAH
Hexachlorobenzene	OC	C2-Naphthalenes	PAH
Methoxychlor	OC	C2-Naphthobenzothiophenes	PAH
Mirex	OC	C2-Phenanthrenes/Anthracenes	PAH
Nonachlor, cis	OC	C30-Hopane	PAH
Nonachlor, trans	OC	C3-Benzothiophenes	PAH
Pentachloroanisole	OC	C3-Chrysenes	PAH
Pentachlorobenzene	OC	C3-Decalins	PAH
1,6,7-Trimethylnaphthalene	PAH	C3-Dibenzo(a,h)anthracenes	PAH
18a-Oleanane	PAH	C3-Dibenzothiophenes	PAH
1-Methylnaphthalene	PAH	C3-Fluoranthenes/Pyrenes	PAH
1-Methylphenanthrene	PAH	C3-Fluorenes	PAH
2,6-Dimethylnaphthalene	PAH	C3-Naphthalenes	PAH

Table SI-2 (cont.)

COMPOUND	CLASS	COMPOUND	CLASS
C3-Naphthobenzothiophenes	PAH	PCB-206	PCB
C3-Phenanthrenes/Anthracenes	PAH	PCB-209	PCB
C4-Chrysenes	PAH	PCB-28	PCB
C4-Decalins	PAH	PCB-29	PCB
C4-Naphthalenes	PAH	PCB-31	PCB
C4-Phenanthrenes/Anthracenes	PAH	PCB-44	PCB
Chrysene	PAH	PCB-45	PCB
Decalin	PAH	PCB-49	PCB
Dibenzo[a,h]anthracene	PAH	PCB-52	PCB
Dibenzofuran	PAH	PCB-56/60	PCB
Dibenzothiophene	PAH	PCB-66	PCB
Fluoranthene	PAH	PCB-70	PCB
Fluorene	PAH	PCB-74/61	PCB
Indeno[1,2,3-cd]pyrene	PAH	PCB-8/5	PCB
Naphthalene	PAH	PCB-87/115	PCB
Naphthobenzothiophene	PAH	PCB-95	PCB
Perylene	PAH	PCB-99	PCB
Phenanthrene	PAH		
Pyrene	PAH		
PCB-101/90	PCB		
PCB-105	PCB		
PCB-110/77	PCB		
PCB-118	PCB		
PCB-128	PCB		
PCB-138/160	PCB		
PCB-146	PCB		
PCB-149/123	PCB		
PCB-151	PCB		
PCB-153/132	PCB		
PCB-156/171/202	PCB		
PCB-158	PCB		
PCB-170/190	PCB		
PCB-174	PCB		
PCB-18	PCB		
PCB-180	PCB		
PCB-183	PCB		
PCB-187	PCB		
PCB-194	PCB		
PCB-195/208	PCB		
PCB-199	PCB		
PCB-201/157/173	PCB		

CUP – current use pesticide
 ICC – industrial and commercial chemical
 PPCP – pharmaceutical and personal care product
 BT – butylin
 OC – organochlorine
 PAH – polycyclic aromatic hydrocarbon
 PCB – polychlorinated biphenyl

Table SI-3. 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	Aldrin	Acenaphthene
1,7-Dimethylxanthine	BDE-100	Aldrin
3,4-DCA	BDE-119	Anthracene
3,5-DCA	BDE-15	BDE-100
4-Octylphenol	BDE-153	BDE-119
Acetaminophen	BDE-154	BDE-15
Acetophenone	BDE-155	BDE-153
Alachlor	BDE-183	BDE-154
Albuterol	BDE-28	BDE-155
Allethrin	BDE-33	BDE-183
Anthraquinone	BDE-47	BDE-28
Atrazine	BDE-49	BDE-33
Azinphos methyl	BDE-66	BDE-47
Azinphos, methyl oxon	BDE-75	BDE-49
Azithromycin	BDE-99	BDE-66
Azoxystrobin	Benzo[a]pyrene	BDE-75
Benzophenone	Benzo[g,h,i]perylene	BDE-99
Bifenthrin	Bifenthrin	Benz[a]anthracene
Boscalid	Chlordane, alpha	Benzo[a]pyrene
Bromacil	Chlordane, gamma	Benzo[b]fluoranthene
Bromoform	Chlordene	Benzo[g,h,i]perylene
Bromuconazole	Chrysene	Benzo[k]fluoranthene
Bupropion	Cyfluthrin	Bifenthrin
Butylate	Cyhalothrin, lambda	Chlordane, alpha
Caffeine	Cypermethrin	Chlordane, gamma
Camphor	DDMU	Chlordene
Captan	Deltamethrin	Chlorpyrifos
Carbamazepine	Dibenzo[a,h]anthracene +	Chrysene
Carbaryl	Indeno[1,2,3-cd]pyrene	Cyfluthrin
Carbazole	Dieldrin	Cyhalothrin, lambda
Carbofuran	Endrin	Cypermethrin
Celestolide (ADBI)	Esfenvalerate	DDMU
Chlorothalonil	Fenpropathrin	Deltamethrin
Chlorpyrifos	Heptachlor Epoxide B	Diazinon
Chlorpyrifos, oxon	Nonachlor, cis	Dibenzo[a,h]anthracene +
Cimetidine	Nonchlor, trans	Indeno[1,2,3-cd]pyrene
Citalopram	o,p'-DDD	Dieldrin
Clomazome	o,p'-DDE	Endrin
Codeine	o,p'-DDT	Esfenvalerate
Cotinine	Oxychlordane	Fenpropathrin

Table SI-3 (cont.)

POCIS	PED	SPME
Cycloate	p,p'-DDD	Fipronil
Cyfluthrin	p,p'-DDE	Fipronil desulfinyl
Cyhalothrin	p,p'-DDT	Fipronil sulfide
Cypermethrin	PCB-101	Fipronil sulfone
Cyproconazole	PCB-105	Fluoranthene
Cyprodinil	PCB-110	Fluorene
DCPA	PCB-114	Heptachlor Epoxide B
Dehydronifedipine	PCB-118	Nonachlor, cis
Deltamethrin	PCB-119	Nonchlor, trans
Diazinon	PCB-123	o,p'-DDD
Diazinon, oxon	PCB-126	o,p'-DDE
Dichlorvos	PCB-128	o,p'-DDT
Diethyl phthalate	PCB-138	Oxychlordane
Diethylhexylphthalate (DEHP)	PCB-149	p,p'-DDD
Difenoconazole	PCB-151	p,p'-DDE
Diltiazem	PCB-153/168	p,p'-DDT
Dimethomorph	PCB-156	PCB-101
Diphenhydramine	PCB-157	PCB-105
Disulfoton	PCB-158	PCB-110
d-Limonene	PCB-167	PCB-114
Duloxetine	PCB-169	PCB-118
EPTC	PCB-170	PCB-119
Erythromycin	PCB-177	PCB-123
Esfenvalerate	PCB-18	PCB-126
Ethalfuralin	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

Table SI-3 (cont.)

POCIS	PED	SPME
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-49
Isopropylbenzene (cumene)		PCB-52
Isoquinoline		PCB-66
Kresoxim, methyl		PCB-70
Malathion		PCB-74
Menthol		PCB-77
Metalaxyl		PCB-81
Metconazole		PCB-87
Methidathion		PCB-99
Methoprene		Permethrin, cis
Metolachlor		Permethrin, trans
Miconazole		Phenanthrene
Molinate		Pyrene
Myclobutanil		
N,N-diethyltoluamide (DEET)		
Napropamide		
N-butyl benzenesulfonamide		
Norfluoxetine		
Norsertraline		
Oxyfluorfen		
p,p'-DDD		
p,p'-DDE		
p,p'-DDT		
Parathion, methyl		
Paroxetine		
PCA		
PCNB		
Pebulate		
Pendimethalin		
Permethrin		
Phantolide (AHMI)		
Phenol		
Phenothrin		
Phosmet		

Table SI-3 (cont.)

POCIS	POCIS
Piperonyl butoxide	
Prometon	Warfarin
Prometryn	Zoxamide
Propanil	
Propiconazole	
Propyzamide	
p-tert-Octylphenol	
Pyraclostrobin	
Pirimethanil	
Ranitidine	
Resmethrin	
Salicylate, methyl	
Sertraline	
Simazine	
Sulfamethoxazole	
Tebuconazole	
Tefluthrin	
Tetraconazole	
Tetramethrin	
Thiabendazole	
Thiobencarb	
Tonalide (AHTN)	
Traseolide (ATII)	
Triadimefon	
Triadimenol	
Tributyl phosphate	
Triclosan	
Triclosan, methyl	
Trifloxystrobin	
Triflumizole	
Trifluralin	
Trimethoprim	
Triphenyl phosphate	
Tris(1,3-dichloro-2-propyl)phosphate (TDCPP)	
Tris(1-chloro-2-propyl)phosphate (TCPP)	
Tris(1-chloro-2-propyl)phosphate isomer (TCPP isomer)	
Tris(2-butoxyethyl)phosphate (TBEP)	
Tris(2-chloroethyl)phosphate (TCEP)	
Tris(2-ethylhexyl)phosphate (TEHP)	
Triticonazole	
Venlafaxine	
Vinclozolin	

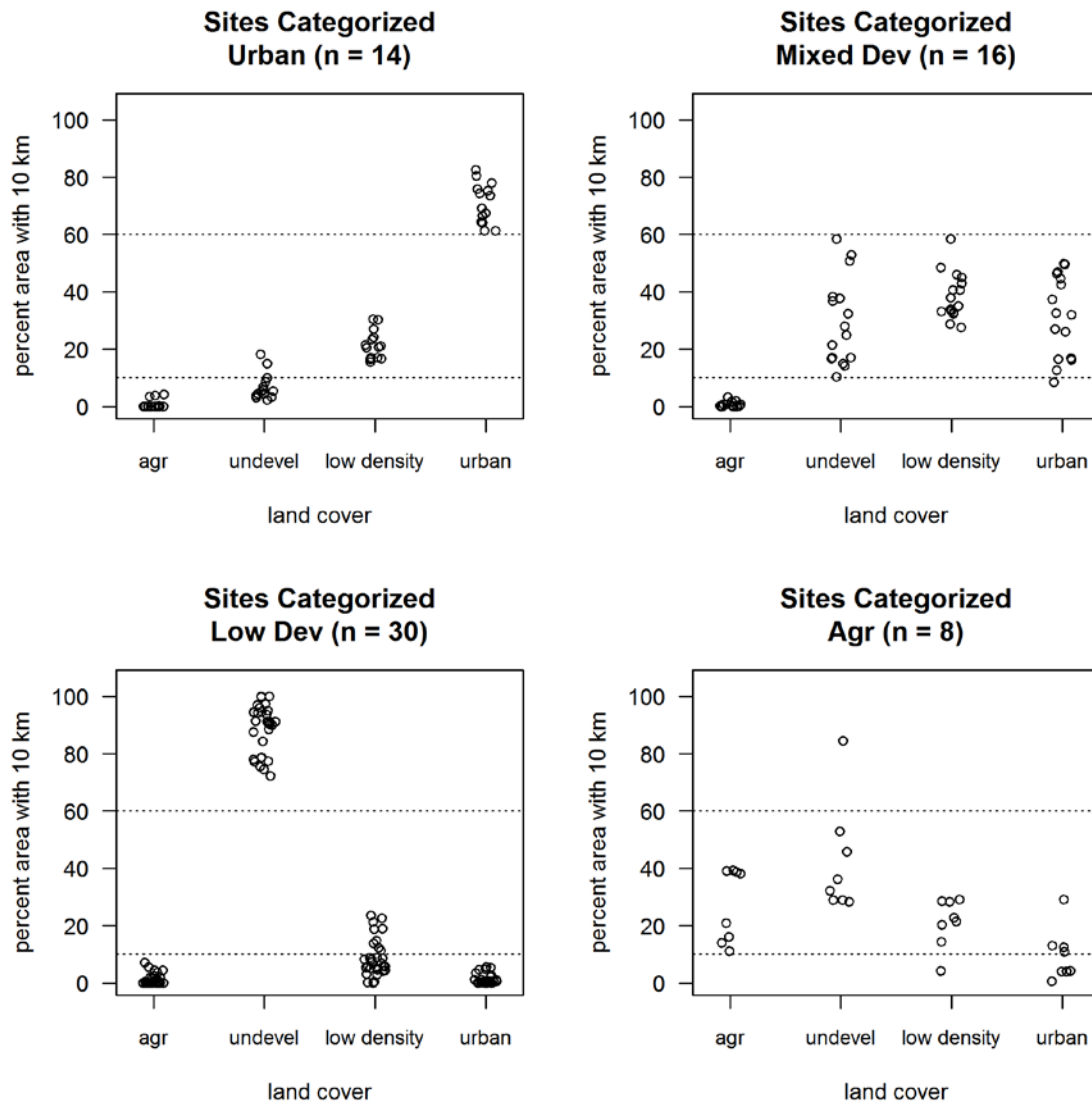


Figure SI-1. Land cover profiles within a 10 km radius from each sampling station (as percent of total land area) for each of the four land use categories (Urban, Mixed Development, Low Development, Agricultural), where n is the number of stations in each category. Reference lines are shown at 10 % and 60 % of total land area.