

Table 3. Current status of CECs in the tiered risk and management action framework for San Francisco Bay. (See Section 2.2 for framework details)

Management Tier	Compound(s)	Rationale
Tier III: Moderate Concern	PFOS	Bird egg concentrations greater than PNEC, high concentrations in seal blood, high volume use of precursors
	Fipronil	May be above toxicity thresholds at some sites for calculated porewater concentrations, need better ambient data and/or toxicity thresholds for sediment matrices to better assess risk
	Nonylphenol, Nonylphenoethoxylates	Bay concentrations below most toxicity thresholds, possible impacts on larval barnacle settlement, possible synergistic effects with pyrethroids, high volume use, estrogenic activity
Tier II: Low Concern	PBDEs	Detected in Bay wildlife, toxicity in mammalian models, bird egg concentrations below toxicity threshold, sport fish concentrations below CA fish contaminant goal, possible immune system and behavioral impacts on fish, use declining
	Pyrethroids	Detected infrequently and in low concentrations in Bay sediments, of concern in watersheds, tributary sediment concentrations comparable or higher than toxicity thresholds, toxic at low concentrations, high volume use
	Pharmaceuticals, Personal care product ingredients*	Concentrations below toxicity thresholds, toxicity to aquatic species sufficiently characterized
	HBCD	Concentrations are low; possible reduction in use

Tier I: Possible Concern	Alternative Flame Retardants (TBPH, TBB, DBDPE, PBEB, BTBPE, HBB, DP, TDCPP, TCEP, TCPP, TBEP, TPP other organophosphates)	Detection of some in sediments or bird eggs, toxicity for some in mammalian models, limited toxicity data for aquatic species, high volume use or PBDE replacements
	Bisphenol A	Analyzed but not detected in surface waters (<2500 ng/L) or sediments (<2600 ng/g), PNEC=60 ng/L
	Bis(2-ethylhexyl) phthalate (BEHP or DEHP)	Sediment concentrations comparable to high apparent effects threshold (but threshold not directly linked to specific chemicals)
	Butylbenzyl phthalate	Sediment concentrations greater than low apparent effects threshold (but threshold not directly linked to specific chemicals or effects in macrobenthos)
	PFCs other than PFOS	Detection of some compounds, possible impacts to marine mammals from PFOA, toxicity to aquatic species not sufficiently characterized
	Short-chain chlorinated paraffins	Concentrations below toxicity thresholds, uncertainties in toxicity data, high volume use
	Other pesticides**	Concentrations below toxicity thresholds, uncertainty in toxicity to Bay wildlife
	Single-walled carbon nanotubes	Not detected, toxicity information not available, high volume use

*For full list of PPCPs considered to be in this classification see Klosterhaus et al. 2013, Appendix Tables B1 and B2

**For full list of pesticides considered to be in this classification see Klosterhaus et al. 2013, Appendix Table B6. RMP will convene a workshop in 2013 to address current use pesticides.