

CAS	Chemical	Type of Observation	CHEMTYPE	VOC	MUT_MODE	RFDOC	RFDOCREF	RFIC	RFICREF	SFO	SFOREF	IUR	IURREF
000000-01-7	Mercury, Inorganic Salts	Spring 2010	INORGANIC	0	0	0.0003	SURROGATE						
000000-05-8	Midrange Aliphatic Hydrocarbon Streams	Fall 2010	VOC	1	0	0.01	SCREEN	0.1	PPRTV			0.0045	SCREEN
000053-70-3	Dibenz[a,h]anthracene	Spring 2010	PAH	0	1					7.3	WHO/TEF		1.2 CALEPA
...	Dibenz[a,h]anthracene	Fall 2010	PAH	0	1					7.3	Surrogate, WHO/TEF		1.2 CALEPA
...	...	Change Effect	...	E	E	E	..	E	..	E	XXXXXXXXXX.XXXXXX....		E
000056-55-3	Benz[a]anthracene	Spring 2010	PAH	0	1					0.73	WHO/TEF		0.11 CALEPA
...	Benz[a]anthracene	Fall 2010	PAH	0	1					0.73	Surrogate, WHO/TEF		0.11 CALEPA
...	...	Change Effect	...	E	E	E	..	E	..	E	XXXXXXXXXX.XXXXXX....		E
000074-90-8	Hydrogen Cyanide	Spring 2010	INORGANIC	1	0	0.02	IRIS			0.003	IRIS		
...	Hydrogen Cyanide	Fall 2010	INORGANIC	1	0	0.0006	IRIS	0.0008	IRIS				
...	...	Change Effect	...	E	E	-0.0194	..	-0.0022	..	E	..		E
000075-34-3	Dichloroethane, 1,1-	Spring 2010	VOC	1	0	0.2	PPRTV				0.006	CALEPA	0.0016
...	Dichloroethane, 1,1-	Fall 2010	VOC	1	0	0.2	PPRTV				0.006	CALEPA	0.0016
...	...	Change Effect	...	E	E	E	..	E	..	E	..		E
000076-06-2	Chloropicrin	Spring 2010	VOC	0	0				0.0004	CALEPA			
...	Chloropicrin	Fall 2010	VOC	1	0				0.0004	CALEPA			
...	...	Change Effect	...	E	E	E	..	E	..	E	..		E
000079-34-5	Tetrachloroethane, 1,1,2,2	Spring 2010	VOC	1	0	0.004	PPRTV				0.2	IRIS	0.058
...	Tetrachloroethane, 1,1,2,2	Fall 2010	VOC	1	0	0.02	IRIS				0.2	IRIS	0.058
...	...	Change Effect	...	E	E	0.016	XXXXX..	E	..	E	..		E
000087-86-5	Pentachloropheno	Spring 2010	HERB	0	0	0.03	IRIS				0.12	IRIS	0.0051
...	Pentachloropheno	Fall 2010	HERB	0	0	0.005	IRIS				0.4	IRIS	0.0051
...	...	Change Effect	...	E	E	-0.025	..	E	..	E	..		E
000095-47-6	Xylene, o-	Spring 2010	VOC	1	0	0.2	IRIS				0.7	CALEPA	
...	Xylene, o-	Fall 2010	VOC	1	0	0.2	SURROGATE. See Xylene, Mixture				0.7	CALEPA	
...	...	Change Effect	...	E	E	E	XXXXXXXXXX.XXX.XXXXXX.XXXXXX	E	..	E	..		E
000106-42-3	Xylene, p-	Spring 2010	VOC	1	0	0.2	IRIS				0.7	CALEPA	
...	Xylene, p-	Fall 2010	VOC	1	0	0.2	SURROGATE. See Xylene, Mixture				0.7	CALEPA	
...	...	Change Effect	...	E	E	E	XXXXXXXXXX.XXX.XXXXXX.XXXXXX	E	..	E	..		E
000108-38-3	Xylene, m-	Spring 2010	VOC	1	0	0.2	IRIS				0.7	CALEPA	
...	Xylene, m-	Fall 2010	VOC	1	0	0.2	SURROGATE. See Xylene, Mixture				0.7	CALEPA	
...	...	Change Effect	...	E	E	E	XXXXXXXXXX.XXX.XXXXXX.XXXXXX	E	..	E	..		E
000108-86-1	Bromobenzene	Spring 2010	VOC	1	0	0.008	IRIS				0.06	IRIS	
...	Bromobenzene	Fall 2010	VOC	1	0	0.008	IRIS				0.06	IRIS	
...	...	Change Effect	...	E	E	E	..	E	..	E	..		E
000111-76-2	Ethylene Glycol Monobutyl Ethe	Spring 2010	SVOC	0	0	0.1	IRIS				1.6	IRIS	
...	Ethylene Glycol Monobutyl Ethe	Fall 2010	SVOC	0	0	0.1	IRIS				1.6	IRIS	
...	...	Change Effect	...	E	E	E	..	E	..	E	..		E
000123-91-1	Dioxane, 1,4-	Spring 2010	SVOC	0	0	0.1	ATSDR	3.603681	ATSDR	0.011	IRIS	0.0077	CALEPA
...	Dioxane, 1,4-	Fall 2010	SVOC	0	0	0.03	IRIS	3.603681	ATSDR	0.1	IRIS	0.0077	CALEPA
...	...	Change Effect	...	E	E	-0.07	XXXXX..	E	..	0.089	..		E
000126-99-8	Chloro-1,3-butadiene, 2	Spring 2010	VOC	1	0	0.02	HEAST	0.007	HEAST				
...	Chloro-1,3-butadiene, 2	Fall 2010	VOC	1	0	0.02	HEAST	0.02	IRIS				0.3
...	...	Change Effect	...	E	E	E	..	0.013	XXX.X..	E	..		XXXXX..
000156-59-2	Dichloroethylene, 1,2-cis	Spring 2010	VOC	1	0	0.01	PPRTV						
...	Dichloroethylene, 1,2-cis	Fall 2010	VOC	1	0	0.002	IRIS						
...	...	Change Effect	...	E	E	-0.008	XXXXX..	E	..	E	..		E
000193-39-5	Indeno[1,2,3-cd]pyrene	Spring 2010	PAH	0	1						0.73	WHO/TEF	0.11
...	Indeno[1,2,3-cd]pyrene	Fall 2010	PAH	0	1						0.73	Surrogate, WHO/TEF	0.11
...	...	Change Effect	...	E	E	E	..	E	..	E	XXXXXXXXXX.XXXXXX....		E
000205-99-2	Benzo[b]fluoranthene	Spring 2010	PAH	0	1						0.73	WHO/TEF	0.11
...	Benzo[b]fluoranthene	Fall 2010	PAH	0	1						0.73	Surrogate, WHO/TEF	0.11
...	...	Change Effect	...	E	E	E	..	E	..	E	XXXXXXXXXX.XXXXXX....		E
000207-08-9	Benzo[k]fluoranthene	Spring 2010	PAH	0	1						0.073	WHO/TEF	0.11
...	Benzo[k]fluoranthene	Fall 2010	PAH	0	1						0.073	Surrogate, WHO/TEF	0.11
...	...	Change Effect	...	E	E	E	..	E	..	E	XXXXXXXXXX.XXXXXX....		E
000218-01-9	Chrysene	Spring 2010	PAH	0	1						0.007	WHO/TEF	0.011
...	Chrysene	Fall 2010	PAH	0	1						0.007	Surrogate, WHO/TEF	0.011
...	...	Change Effect	...	E	E	E	..	E	..	E	XXXXXXXXXX.XXXXXX....		E
001336-36-3	Polychlorinated Biphenyls (high risk)	Spring 2010	PCB	0	0						2	IRIS	0.57
...	Polychlorinated Biphenyls (high risk)	Fall 2010	PCB	0	0						2	IRIS	0.571429
...	...	Change Effect	...	E	E	E	..	E	..	E	..		0.001429
001336-36-3	Polychlorinated Biphenyls (lowest risk)	Spring 2010	PCB	0	0						0.07	IRIS	0.02
...	Polychlorinated Biphenyls (lowest risk)	Fall 2010	PCB	0	0						0.07	IRIS	0.02
...	...	Change Effect	...	E	E	E	..	E	..	E	..		E
001344-48-5	Mercuric Sulfide	Spring 2010	INORGANIC	0	0	0.0003	SURROGATE						
007439-92-1	Lead and Compounds	Fall 2010	INORGANIC	0	0								
007439-96-5	Manganese (Non-diet)	Spring 2010	INORGANIC	0	0	0.024	IRIS			0.00005	IRIS		
...	Manganese (Non-diet)	Fall 2010	INORGANIC	0	0	0.024	SURROGATE. IRIS recommends subtr			0.00005	IRIS		
...	...	Change Effect	...	E	E	E	XXXXXXXXXX.XXXXXX.XXXXXX.XXXXXX.X	E	..	E	..		E
007440-50-8	Copper	Spring 2010	INORGANIC	0	0	0.04	HEAST						
...	Copper	Fall 2010	INORGANIC	0	0	0.04	HEAST						
...	...	Change Effect	...	E	E	E	..	E	..	E	..		E
009004-70-0	Nitrocellulose	Spring 2010	VOC	0	0	3000	PPRTV						
...	Nitrocellulose	Fall 2010	SVOC	0	0	3000	PPRTV						
...	...	Change Effect	XXXXX..	E	E	E	..	E	..	E	..		E
011096-82-5	Aroclor 1260	Spring 2010	PCB	0	0						2	IRIS	0.571429
...	Aroclor 1260	Fall 2010	PCB	0	0						2	SURROGATE. Polychlorinated Biphe	0.571429
...	...	Change Effect	...	E	E	E	..	E	..	E	XXXXXXXXXX.XXXXXX.XXXXXX.XXXXXX		E

CAS	Chemical	Type of Observation	CHEMTYPE	VOC	MUT_MODE	RFDLOC	RFDOCREF	RFCIC	RFCICREF	SFO	SFOREF	IUR	IURREF
011097-69-1	Aroclor 1254	Spring 2010	PCB	0	0	0.00002	IRIS			2	IRIS	0.571429	IRIS
	Aroclor 1254	Fall 2010	PCB	0	0	0.00002	IRIS			2	SURROGATE. Polychlorinated Biphe	0.571429	SURROGATE. Polychlorinated Biphe
	...	Change Effect	.	E	E	E	..	E ..	E ..	E	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	E	XXXXXXXXXXXXXXXXXXXXXXXXXXXX
011104-28-2	Aroclor 1221	Spring 2010	PCB	1	0					2	IRIS	0.571429	IRIS
	Aroclor 1221	Fall 2010	PCB	1	0					2	SURROGATE. Polychlorinated Biphe	0.571429	SURROGATE. Polychlorinated Biphe
	...	Change Effect	.	E	E	E	..	E ..	E ..	E	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	E	XXXXXXXXXXXXXXXXXXXXXXXXXXXX
011141-16-5	Aroclor 1232	Spring 2010	PCB	1	0					2	IRIS	0.571429	IRIS
	Aroclor 1232	Fall 2010	PCB	1	0					2	SURROGATE. Polychlorinated Biphe	0.571429	SURROGATE. Polychlorinated Biphe
	...	Change Effect	.	E	E	E	..	E ..	E ..	E	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	E	XXXXXXXXXXXXXXXXXXXXXXXXXXXX
012672-29-6	Aroclor 1248	Spring 2010	PCB	0	0					2	IRIS	0.571429	IRIS
	Aroclor 1248	Fall 2010	PCB	0	0					2	SURROGATE. Polychlorinated Biphe	0.571429	SURROGATE. Polychlorinated Biphe
	...	Change Effect	.	E	E	E	..	E ..	E ..	E	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	E	XXXXXXXXXXXXXXXXXXXXXXXXXXXX
012674-11-2	Aroclor 1016	Spring 2010	PCB	0	0	0.00007	IRIS			0.07	IRIS	0.02	IRIS
	Aroclor 1016	Fall 2010	PCB	0	0	0.00007	IRIS			0.07	SURROGATE. Polychlorinated Biphe	0.02	SURROGATE. Polychlorinated Biphe
	...	Change Effect	.	E	E	E	..	E ..	E ..	E	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	E	XXXXXXXXXXXXXXXXXXXXXXXXXXXX
018540-29-9	Chromium(VI)	Spring 2010	INORGANIC	0	1	0.003	IRIS	0.0001	IRIS	0.5	NJPEA	84	IRIS
	Chromium(VI)	Fall 2010	INORGANIC	0	1	0.003	IRIS	0.0001	IRIS	0.5	NJPEA	84	SURROGATE. Based on Total Chromi
	...	Change Effect	.	E	E	E	..	E ..	E ..	E	..	E	XXXXXXXXXXXXXXXXXXXXXXXXXXXX
019406-51-0	Dinitrotoluene, 4-Amino-2,6	Spring 2010	SVOC	0	0	0.002	SURROGATE						
	Dinitrotoluene, 4-Amino-2,6	Fall 2010	SVOC	0	0	0.002	SURROGATE. See Dinitrotoluene, 2						
	...	Change Effect	.	E	E	E	..X.XXX.XXXXXXXXXXXXXXXXXXX	E ..	E ..	E	..	E	..
031508-00-6	Pentachlorobiphenyl, 2,3,4,4',5-	Spring 2010	PCB	0	0					13	CALEPA	3.8	CALEPA
	Pentachlorobiphenyl, 2,3,4,4',5-	Fall 2010	PCB	0	0	0.0000333	WHO/TEF	0.0013333	WHO/TEF	3.9	WHO/TEF	1.14	WHO/TEF
	...	Change Effect	.	E	E	E	XXXXXXX	XXXXXXX	XXXXXXX	-9.1	XXXXXXX	-2.66	XXXXXXX
032598-13-3	Tetrachlorobiphenyl, 3,3',4,4'	Spring 2010	PCB	0	0					13	CALEPA	3.8	CALEPA
	Tetrachlorobiphenyl, 3,3',4,4'	Fall 2010	PCB	0	0	0.00001	WHO/TEF	0.0004	WHO/TEF	13	WHO/TEF	3.8	WHO/TEF
	...	Change Effect	.	E	E	E	XXXXXXX	XXXXXXX	XXXXXXX	E	XXXXXXX	E	XXXXXXX
032598-14-4	Pentachlorobiphenyl, 2,3,3',4,4'	Spring 2010	PCB	0	0					13	CALEPA	3.8	CALEPA
	Pentachlorobiphenyl, 2,3,3',4,4'	Fall 2010	PCB	0	0	0.0000333	WHO/TEF	0.0013333	WHO/TEF	3.9	WHO/TEF	1.14	WHO/TEF
	...	Change Effect	.	E	E	E	XXXXXXX	XXXXXXX	XXXXXXX	-9.1	XXXXXXX	-2.66	XXXXXXX
032774-16-6	Hexachlorobiphenyl, 3,3',4,4',5,5'	Spring 2010	PCB	0	0					1300	CALEPA	380	CALEPA
	Hexachlorobiphenyl, 3,3',4,4',5,5'	Fall 2010	PCB	0	0	3.333E-08	WHO/TEF	1.333E-06	WHO/TEF	3900	WHO/TEF	1140	WHO/TEF
	...	Change Effect	.	E	E	E	XXXXXXX	XXXXXXX	XXXXXXX	2600	XXXXXXX	760	XXXXXXX
035572-78-2	Dinitrotoluene, 2-Amino-4,6	Spring 2010	SVOC	0	0	0.002	SURROGATE						
	Dinitrotoluene, 2-Amino-4,6	Fall 2010	SVOC	0	0	0.002	SURROGATE. See Dinitrotoluene, 2						
	...	Change Effect	.	E	E	E	..X.XXX.XXXXXXXXXXXXXXXXXXX	E ..	E ..	E	..	E	..
038380-08-4	Hexachlorobiphenyl, 2,3,3',4,4',5-	Spring 2010	PCB	0	0					65	CALEPA	19	CALEPA
	Hexachlorobiphenyl, 2,3,3',4,4',5-	Fall 2010	PCB	0	0	0.0000333	WHO/TEF	0.0013333	WHO/TEF	3.9	WHO/TEF	1.14	WHO/TEF
	...	Change Effect	.	E	E	E	XXXXXXX	XXXXXXX	XXXXXXX	-61.1	XXXXXXX	-17.86	XXXXXXX
039635-31-9	Heptachlorobiphenyl, 2,3,3',4,4',5,5'	Spring 2010	PCB	0	0					13	CALEPA	3.8	CALEPA
	Heptachlorobiphenyl, 2,3,3',4,4',5,5'	Fall 2010	PCB	0	0	0.0000333	WHO/TEF	0.0013333	WHO/TEF	3.9	WHO/TEF	1.14	WHO/TEF
	...	Change Effect	.	E	E	E	XXXXXXX	XXXXXXX	XXXXXXX	-9.1	XXXXXXX	-2.66	XXXXXXX
052663-72-6	Hexachlorobiphenyl, 2,3,4,4',5,5'	Spring 2010	PCB	0	0					1.3	CALEPA	0.38	CALEPA
	Hexachlorobiphenyl, 2,3,4,4',5,5'	Fall 2010	PCB	0	0	0.0000333	WHO/TEF	0.0013333	WHO/TEF	3.9	WHO/TEF	1.14	WHO/TEF
	...	Change Effect	.	E	E	E	XXXXXXX	XXXXXXX	XXXXXXX	2.6	XXXXXXX	0.76	XXXXXXX
053469-21-9	Aroclor 1242	Spring 2010	PCB	0	0					2	IRIS	0.571429	IRIS
	Aroclor 1242	Fall 2010	PCB	0	0					2	SURROGATE. Polychlorinated Biphe	0.571429	SURROGATE. Polychlorinated Biphe
	...	Change Effect	.	E	E	E	..	E ..	E ..	E	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	E	XXXXXXXXXXXXXXXXXXXXXXXXXXXX
057465-28-8	Pentachlorobiphenyl, 3,3',4,4',5-	Spring 2010	PCB	0	0					13000	CALEPA	3800	CALEPA
	Pentachlorobiphenyl, 3,3',4,4',5-	Fall 2010	PCB	0	0	1E-08	WHO/TEF	0.0000004	WHO/TEF	13000	WHO/TEF	3800	WHO/TEF
	...	Change Effect	.	E	E	E	XXXXXXX	XXXXXXX	XXXXXXX	E	XXXXXXX	E	XXXXXXX
065510-44-3	Pentachlorobiphenyl, 2',3,4,4',5-	Spring 2010	PCB	0	0					13	CALEPA	3.8	CALEPA
	Pentachlorobiphenyl, 2',3,4,4',5-	Fall 2010	PCB	0	0	0.0000333	WHO/TEF	0.0013333	WHO/TEF	3.9	WHO/TEF	1.14	WHO/TEF
	...	Change Effect	.	E	E	E	XXXXXXX	XXXXXXX	XXXXXXX	-9.1	XXXXXXX	-2.66	XXXXXXX
067562-39-4	Heptachlorodibenzofuran, 1,2,3,4,6,7,8	Spring 2010	FURAN	0	0					13	CALEPA	380	CALEPA
069782-90-7	Hexachlorobiphenyl, 2,3,3',4,4',5-	Spring 2010	PCB	0	0					65	CALEPA	19	CALEPA
	Hexachlorobiphenyl, 2,3,3',4,4',5-	Fall 2010	PCB	0	0	0.0000333	WHO/TEF	0.0013333	WHO/TEF	3.9	WHO/TEF	1.14	WHO/TEF
	...	Change Effect	.	E	E	E	XXXXXXX	XXXXXXX	XXXXXXX	-61.1	XXXXXXX	-17.86	XXXXXXX
070362-50-4	Tetrachlorobiphenyl, 3,4,4',5-	Spring 2010	PCB	0	0					13	CALEPA	3.8	CALEPA
	Tetrachlorobiphenyl, 3,4,4',5-	Fall 2010	PCB	0	0	3.333E-06	WHO/TEF	0.0001333	WHO/TEF	39	WHO/TEF	11.4	WHO/TEF
	...	Change Effect	.	E	E	E	XXXXXXX	XXXXXXX	XXXXXXX	26	XXXXXXX	7.6	XXXXXXX
074472-37-0	Pentachlorobiphenyl, 2,3,4,4',5-	Spring 2010	PCB	0	0					650	CALEPA	19	CALEPA
	Pentachlorobiphenyl, 2,3,4,4',5-	Fall 2010	PCB	0	0	0.0000333	WHO/TEF	0.0013333	WHO/TEF	3.9	WHO/TEF	1.14	WHO/TEF
	...	Change Effect	.	E	E	E	XXXXXXX	XXXXXXX	XXXXXXX	-646.1	XXXXXXX	-17.86	XXXXXXX