CAS	Chemical	Type of Observation	vol	mutagen	GIABS	ABS	Csat (mg/kg)	RfDo (mg/kg-day)	key	RfCi (mg/m^3)	key	SFO $(mg/kg\text{-}day)^{-1}$	key	IUR $(ug/m3)^{-1}$	key	Resident Soil (mg/kg)	key	Industrial Soil (mg/kg)	key	Resident Air (ug/m^3)	key	Industrial Air (ug/m^3)	key	Tapwater (ug/L)	key	MCL (ug/L)	Risk-based SSL (mg/kg)	MCL-based SSL (mg/kg)
30560-19-1	Acephate	Spring 2016			1	0.1		0.004	I			0.0087	I			62	c**	260	c*					8.9	c**		0.002	
30560-19-1	Acephate	Spring 2017			1	0.1		0.0012	O							76	n	980	n					24	n		0.0053	
.	Acephate	Change Effect						-0.0028	X.				X.			14	XXX	720	XX.					15.1	XXX.		0.0033	
95-55-6	Aminophenol, o-	Spring 2017			1	0.1		0.004	X							250	n	3300	n					79	n		0.03	
7664-41-7	Ammonia	Spring 2016	V		1					0.1	I									100	n	440	n					
7664-41-7	Ammonia	Spring 2017	V		1					0.5	I									520	n	2200	n					
.	Ammonia	Change Effect								0.4							.		.	420		1760						
3337-71-1	Asulam	Spring 2016			1	0.1		0.05	I							3200	n	41000	n					1000	n		0.26	
3337-71-1	Asulam	Spring 2017			1	0.1		0.036	O							2300	n	30000	n					720	n		0.18	
.	Asulam	Change Effect						-0.014	X.							-900	.	-11000	.					-280			-0.08	
1861-40-1	Benfluralin	Spring 2016	V		1			0.3	I							23000	n	350000	nm					1700	n		56	
1861-40-1	Benfluralin	Spring 2017	V		1			0.005	O							390	n	5800	n					28	n		0.94	
.	Benfluralin	Change Effect						-0.295	X.							-22610	.	-344200	.X.					-1672			-55.06	
1689-84-5	Bromoxynil	Spring 2016			1	0.1		0.02	I							1300	n	16000	n					330	n		0.28	
1689-84-5	Bromoxynil	Spring 2017			1	0.1		0.015	O			0.1	O			5.3	c	22	c					0.61	c		0.00052	
.	Bromoxynil	Change Effect						-0.005	X.				X.			-1294.7	X	-15978	X					-329.39	X.		-0.27948	
1689-99-2	Bromoxynil Octanoate	Spring 2016	V		1			0.02	I							1600	n	23000	n					140	n		1.2	
1689-99-2	Bromoxynil Octanoate	Spring 2017	V		1			0.015	O							1200	n	18000	n					100	n		0.9	
.	Bromoxynil Octanoate	Change Effect						-0.005	X.							-400	.	-5000	.					-40			-0.3	
94-82-6	Butanoic acid, 4-(2,4-dichlorophenoxy)-	Spring 2017			1	0.1		0.03	O							1900	n	25000	n					450	n		0.42	
90982-32-4	Chlorimuron, Ethyl-	Spring 2016			1	0.1		0.02	I							1300	n	16000	n					390	n		0.13	
90982-32-4	Chlorimuron, Ethyl-	Spring 2017			1	0.1		0.09	O							5700	n	74000	n					1800	n		0.6	
.	Chlorimuron, Ethyl-	Change Effect						0.07	X.							4400	.	58000	.					1410			0.47	
98-66-8	Chlorobenzene sulfonic acid, p-	Spring 2017			1	0.1		0.1	X							6300	n	82000	n					2000	n		0.47	
101-21-3	Chlorpropham	Spring 2016			1	0.1		0.2	I							13000	n	160000	nm					2800	n		2.6	
101-21-3	Chlorpropham	Spring 2017			1	0.1		0.05	O							3200	n	41000	n					710	n		0.64	
.	Chlorpropham	Change Effect						-0.15	X.							-9800	.	-119000	.X.					-2090			-1.96	
64902-72-3	Chlorsulfuron	Spring 2016			1	0.1		0.05	I							3200	n	41000	n					990	n		0.83	
64902-72-3	Chlorsulfuron	Spring 2017			1	0.1		0.02	O							1300	n	16000	n					390	n		0.33	
.	Chlorsulfuron	Change Effect						-0.03	X.							-1900	.	-25000	.					-600			-0.5	
18540-29-9	Chromium(VI)	Spring 2016		M	0.025			0.003	I	0.0001	I	0.5	J	0.084	S	0.3	c	6.3	c	0.000012	c	0.00015	c	0.035	c		0.00067	
18540-29-9	Chromium(VI)	Spring 2017		M	0.025			0.003	I	0.0001	I	0.5	C	0.084	S	0.3	c	6.3	c	0.000012	c	0.00015	c	0.035	c		0.00067	
.	Chromium(VI)	Change Effect											X.				.		.									
87-84-3	Cyclohexane, 1,2,3,4,5-pentabromo-6-chloro-	Spring 2016			1	0.1						0.023	H			24	c	100	c					2.4	c		0.014	
87-84-3	Cyclohexane, 1,2,3,4,5-pentabromo-6-chloro-	Spring 2017			1	0.1		0.02	X			0.02	X			27	c*	110	c					2.8	c		0.016	
.	Cyclohexane, 1,2,3,4,5-pentabromo-6-chloro-	Change Effect							X.			-0.003	X.			3	.X.	10	.					0.4			0.002	
68085-85-8	Cyhalothrin	Spring 2016			1	0.1		0.005	I							320	n	4100	n					100	n		68	
68085-85-8	Cyhalothrin	Spring 2017			1	0.1		0.001	O							63	n	820	n					20	n		14	
.	Cyhalothrin	Change Effect						-0.004	X.							-257	.	-3280	.					-80			-54	
52315-07-8	Cypermethrin	Spring 2016			1	0.1		0.01	I							630	n	8200	n					200	n		32	
52315-07-8	Cypermethrin	Spring 2017			1	0.1		0.06	O							3800	n	49000	n					1200	n		190	
.	Cypermethrin	Change Effect						0.05	X.							3170	.	40800	.					1000			158	
66215-27-8	Cyromazine	Spring 2016			1	0.1		0.0075	I							470	n	6200	n					150	n		0.038	
66215-27-8	Cyromazine	Spring 2017			1	0.1		0.015	O							950	n	12000	n					300	n		0.076	
.	Cyromazine	Change Effect						0.0075	X.							480	.	5800	.					150			0.038	
NA	Dibutyltin Compounds	Spring 2016			1	0.1		0.0003	P							19	n	250	n					6	n			
E1790660	Dibutyltin Compounds	Spring 2017			1	0.1		0.0003	P							19	n	250	n					6	n			
XXXXXXXX.	Dibutyltin Compounds	Change Effect															.		.									
94-82-6	Dichlorophenoxy)butyric Acid, 4-(2,4-	Spring 2016			1	0.1		0.008	I							510	n	6600	n					120	n		0.11	
78-87-5	Dichloropropane, 1,2-	Spring 2016	V		1		1360	0.09	A	0.004	I	0.036	C	0.00001	C	1	c*	4.4	c*	0.28	c*	1.2	c*	0.44	c*	5	0.00015	0.0017
78-87-5	Dichloropropane, 1,2-	Spring 2017	V		1		1360	0.04	P	0.004	I	0.037	P	0.000037	P	0.28	c*	1.2	c*	0.076	c*	0.33	c*	0.14	c*	5	0.000047	0.0017
.	Dichloropropane, 1,2-	Change Effect						-0.05	X.			0.001	X.		X.	-0.72	.	-3.2	.	-0.204		-0.87		-0.3			-0.000103	
141-66-2	Dicrotophos	Spring 2016			1	0.1		0.0001	I							6.3	n	82	n					2	n		0.00047	
141-66-2	Dicrotophos	Spring 2017			1	0.1		0.00007	O							4.4	n	57	n					1.4	n		0.00033	
.	Dicrotophos	Change Effect							X.							-1.9	.	-25	.					-0.6			-0.00014	
NA	Diesel Engine Exhaust	Spring 2016			1	0.1				0.005	I			0.0003	C					0.0094	c	0.041	c					
E17136615	Diesel Engine Exhaust	Spring 2017			1	0.1				0.005	I			0.0003	C					0.0094	c	0.041	c					
XXXXXXXXX	Diesel Engine Exhaust	Change Effect															.		.									
43222-48-6	Difenzoquat	Spring 2016			1	0.1		0.08	I							5100	n	66000	n					1600	n		250	
43222-48-6	Difenzoquat	Spring 2017			1	0.1		0.083	O							5200	n	68000	n					1700	n		260	
.	Difenzoquat	Change Effect						0.003	X.							100	.	2000	.					100			10	
55290-64-7	Dimethipin	Spring 2016			1	0.1		0.02	I							1300	n	16000	n					400	n		0.088	
55290-64-7	Dimethipin	Spring 2017			1	0.1		0.022	O							1400	n	18000	n					440	n		0.096	
.	Dimethipin	Change Effect						0.002	X.							100	.	2000	.					40			0.008	
60-51-5	Dimethoate	Spring 2016			1	0.1		0.0002	I							13	n	160	n					4	n		0.0009	
60-51-5	Dimethoate	Spring 2017			1	0.1		0.0022	O							140	n	1800	n					44	n		0.0099	
.	Dimethoate	Change Effect						0.002	X.							127	.	1640	.					40			0.009	
121-69-7	Dimethylaniline, N,N-	Spring 2016	V		1		830	0.002	I							160	n	2300	ns					35	n		0.013	

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121-69-7	Dimethylaniline, N,N-	Spring 2017	V		1		830	0.002	I			0.027	P			26	c**	120	c*					2.5	c*		0.0009	
.	Dimethylaniline, N,N-	Change Effect											X.			-134	XXX	-2180	XX.					-32.5	XX		-0.0121	
NA	Dinitrotoluene Mixture, 2,4/2,6-	Spring 2016			1	0.1						0.68	I			0.8	c	3.4	c					0.11	c		0.00015	
E1615210	Dinitrotoluene Mixture, 2,4/2,6-	Spring 2017			1	0.1						0.68	I			0.8	c	3.4	c					0.11	c		0.00015	
XXXXXXXX.	Dinitrotoluene Mixture, 2,4/2,6-	Change Effect															.		.									
122-39-4	Diphenylamine	Spring 2016			1	0.1		0.025	I							1600	n	21000	n					310	n		0.58	
122-39-4	Diphenylamine	Spring 2017			1	0.1		0.1	O							6300	n	82000	n					1300	n		2.3	
.	Diphenylamine	Change Effect						0.075	X.							4700	.	61000	.					990			1.72	
2439-10-3	Dodine	Spring 2016			1	0.1		0.004	I							250	n	3300	n					80	n		0.41	
2439-10-3	Dodine	Spring 2017			1	0.1		0.02	O							1300	n	16000	n					400	n		2.1	
.	Dodine	Change Effect						0.016	X.							1050	.	12700	.					320			1.69	
759-94-4	EPTC	Spring 2016	V		1			0.025	I							2000	n	29000	n					380	n		0.2	
759-94-4	EPTC	Spring 2017	V		1			0.05	O							3900	n	58000	n					750	n		0.4	
.	EPTC	Change Effect						0.025	X.							1900	.	29000	.					370			0.2	
75-21-8	Ethylene Oxide	Spring 2016	V		1		121000			0.03	C	0.31	C	0.000088	C	0.18	c	0.79	c	0.032	c	0.14	c	0.051	c		0.000011	
75-21-8	Ethylene Oxide	Spring 2017	V	M	1		121000			0.03	C	0.31	C	0.003	I	0.002	c	0.025	c	0.00034	c	0.0041	c	0.00067	c		0.00000014	
.	Ethylene Oxide	Change Effect		X.										0.002912	X.	-0.178	.	-0.765	.	-0.03166		-0.1359		-0.05033				
56425-91-3	Flurprimidol	Spring 2016			1	0.1		0.02	I							1300	n	16000	n					340	n		1.6	
56425-91-3	Flurprimidol	Spring 2017			1	0.1		0.015	O							950	n	12000	n					260	n		1.2	
.	Flurprimidol	Change Effect						-0.005	X.							-350	.	-4000	.					-80			-0.4	
85509-19-9	Flusilazole	Spring 2016			1	0.1		0.0007	I							44	n	570	n					11	n		1.8	
85509-19-9	Flusilazole	Spring 2017			1	0.1		0.002	O							130	n	1600	n					31	n		5.1	
.	Flusilazole	Change Effect						0.0013	X.							86	.	1030	.					20			3.3	
66332-96-5	Flutolanil	Spring 2016			1	0.1		0.06	I							3800	n	49000	n					950	n		5	
66332-96-5	Flutolanil	Spring 2017			1	0.1		0.5	O							32000	n	410000	nm					7900	n		42	
.	Flutolanil	Change Effect						0.44	X.							28200	.	361000	.X.					6950			37	
133-07-3	Folpet	Spring 2016			1	0.1		0.1	I			0.0035	I			160	c*	660	c					20	c*		0.0047	
133-07-3	Folpet	Spring 2017			1	0.1		0.09	O							5700	n	74000	n					1600	n		0.39	
.	Folpet	Change Effect						-0.01	X.				X.			5540	XX.	73340	X					1580	XX		0.3853	
72178-02-0	Fomesafen	Spring 2016			1	0.1						0.19	I			2.9	c	12	c					0.39	c		0.0013	
72178-02-0	Fomesafen	Spring 2017			1	0.1		0.0025	O							160	n	2100	n					48	n		0.16	
.	Fomesafen	Change Effect							X.				X.			157.1	X	2088	X					47.61	X.		0.1587	
39148-24-8	Fosetyl-AL	Spring 2016			1	0.1		3	I							190000	nm	2500000	nm					60000	n		790	
39148-24-8	Fosetyl-AL	Spring 2017			1	0.1		2.5	O							160000	nm	2100000	nm					50000	n		660	
.	Fosetyl-AL	Change Effect						-0.5	X.							-30000	.	-400000	.					-10000			-130	
77182-82-2	Glufosinate, Ammonium	Spring 2016			1	0.1		0.0004	I							25	n	330	n					8	n		0.0018	
77182-82-2	Glufosinate, Ammonium	Spring 2017			1	0.1		0.006	O							380	n	4900	n					120	n		0.026	
.	Glufosinate, Ammonium	Change Effect						0.0056	X.							355	.	4570	.					112			0.0242	
506-93-4	Guanidine Nitrate	Spring 2017			1	0.1		0.03	X							1900	n	25000	n					600	n		0.15	
142-82-5	Heptane, N-	Spring 2017	V		1		57.9	0.0003	X	0.4	P					22	n	290	ns	420	n	1800	n	6	n		0.048	
67485-29-4	Hydramethylnon	Spring 2016			1	0.1		0.0003	I							19	n	250	n					5.9	n		2100	
67485-29-4	Hydramethylnon	Spring 2017			1	0.1		0.017	O							1100	n	14000	n					340	n		120000	
.	Hydramethylnon	Change Effect						0.0167	X.							1081	.	13750	.					334.1			117900	
35554-44-0	Imazalil	Spring 2016			1	0.1		0.013	I							820	n	11000	n					190	n		3.2	
35554-44-0	Imazalil	Spring 2017			1	0.1		0.0025	O			0.061	O			8.9	c*	38	c*					0.9	c*		0.015	
.	Imazalil	Change Effect						-0.0105	X.				X.			-811.1	XX.	-10962	XX.					-189.1	XX		-3.185	
81335-77-5	Imazethapyr	Spring 2016			1	0.1		0.25	I							16000	n	210000	nm					4700	n		4.1	
81335-77-5	Imazethapyr	Spring 2017			1	0.1		2.5	O							160000	nm	2100000	nm					47000	n		41	
.	Imazethapyr	Change Effect						2.25	X.							144000	.X.	1890000	.					42300			36.9	
NA	JP-7	Spring 2016	V		1					0.3	A					430000000	nm	1800000000	nm	310	n	1300	n	630	n			
E1737665	JP-7	Spring 2017	V		1					0.3	A					430000000	nm	1800000000	nm	310	n	1300	n	630	n			
XXXXXXXX.	JP-7	Change Effect															.		.									
77501-63-4	Lactofen	Spring 2016			1	0.1		0.002	I							130	n	1600	n					25	n		1.2	
77501-63-4	Lactofen	Spring 2017			1	0.1		0.008	O							510	n	6600	n					100	n		4.6	
.	Lactofen	Change Effect						0.006	X.							380	.	5000	.					75			3.4	
330-55-2	Linuron	Spring 2016			1	0.1		0.002	I							130	n	1600	n					33	n		0.029	
330-55-2	Linuron	Spring 2017			1	0.1		0.0077	O							490	n	6300	n					130	n		0.11	
.	Linuron	Change Effect						0.0057	X.							360	.	4700	.					97			0.081	
94-81-5	MCPB	Spring 2016			1	0.1		0.01	I							630	n	8200	n					150	n		0.058	
94-81-5	MCPB	Spring 2017			1	0.1		0.0044	O							280	n	3600	n					65	n		0.026	
.	MCPB	Change Effect						-0.0056	X.							-350	.	-4600	.					-85			-0.032	
149-30-4	Mercaptobenzothiazole, 2-	Spring 2017			1	0.1		0.004	P			0.011	P			49	c**	210	c*					6.3	c*		0.018	
78-48-8	Merphos Oxide	Spring 2016			1	0.1		0.00003	I							1.9	n	25	n					0.085	n		0.00042	
78-48-8	Merphos Oxide	Spring 2017			1	0.1		0.0001	O							6.3	n	82	n					0.28	n		0.0014	
.	Merphos Oxide	Change Effect							X.							4.4	.	57	.					0.195			0.00098	
950-37-8	Methidathion	Spring 2016			1	0.1		0.001	I							63	n	820	n					19	n		0.0047	
950-37-8	Methidathion	Spring 2017			1	0.1		0.0015	O							95	n	1200	n					29	n		0.0071	
.	Methidathion	Change Effect						0.0005	X.							32	.	380	.					10			0.0024	

CAS	Chemical	Type of Observation	vol	mutagen	GIABS	ABS	Csat (mg/kg)	RfDo (mg/kg-day)	key	RfCi (mg/m^3)	key	SFO $(mg/kg\text{-}day)^{-1}$	key	IUR $(ug/m3)^{-1}$	key	Resident Soil (mg/kg)	key	Industrial Soil (mg/kg)	key	Resident Air (ug/m^3)	key	Industrial Air (ug/m^3)	key	Tapwater (ug/L)	key	MCL (ug/L)	Risk-based SSL (mg/kg)	MCL-based SSL (mg/kg)
15299-99-7	Napropamide	Spring 2016			1	0.1		0.1	I							6300	n	82000	n					1600	n		11	
15299-99-7	Napropamide	Spring 2017			1	0.1		0.12	O							7600	n	98000	n					2000	n		13	
.	Napropamide	Change Effect						0.02	X.							1300	.	16000	.					400			2	
NA	Nickel Refinery Dust	Spring 2016			0.04			0.011	C	0.000014	C			0.00024	I	820	n	11000	n	0.012	c**	0.051	c**	220	n		32	
E715532	Nickel Refinery Dust	Spring 2017			0.04			0.011	C	0.000014	C			0.00024	I	820	n	11000	n	0.012	c**	0.051	c**	220	n		32	
XXXXXXX	Nickel Refinery Dust	Change Effect															.		.									
NA	Nitrate + Nitrite (as N)	Spring 2016			1																					10000		
E701177	Nitrate + Nitrite (as N)	Spring 2017			1																					10000		
XXXXXXX	Nitrate + Nitrite (as N)	Change Effect															.		.									
27314-13-2	Norflurazon	Spring 2016			1	0.1		0.04	I							2500	n	33000	n					770	n		5	
27314-13-2	Norflurazon	Spring 2017			1	0.1		0.015	O							950	n	12000	n					290	n		1.9	
.	Norflurazon	Change Effect						-0.025	X.							-1550	.	-21000	.					-480			-3.1	
19044-88-3	Oryzalin	Spring 2016			1	0.1		0.05	I							3200	n	41000	n					810	n		1.5	
19044-88-3	Oryzalin	Spring 2017			1	0.1		0.14	O			0.0078	O			70	c	290	c					7.9	c		0.015	
.	Oryzalin	Change Effect						0.09	X.				X.			-3130	X	-40710	X					-802.1	X.		-1.485	
42874-03-3	Oxyfluorfen	Spring 2016			1	0.1		0.003	I							190	n	2500	n					32	n		2.5	
42874-03-3	Oxyfluorfen	Spring 2017			1	0.1		0.03	O			0.073	O			7.4	c	31	c					0.54	c		0.043	
.	Oxyfluorfen	Change Effect						0.027	X.				X.			-182.6	X	-2469	X					-31.46	X.		-2.457	
40487-42-1	Pendimethalin	Spring 2016			1	0.1		0.04	I							2500	n	33000	n					180	n		2.1	
40487-42-1	Pendimethalin	Spring 2017			1	0.1		0.03	O							1900	n	25000	n					140	n		1.6	
.	Pendimethalin	Change Effect						-0.01	X.							-600	.	-8000	.					-40			-0.5	
375-73-5	Perfluorobutane Sulfonate	Spring 2016	V		1			0.02	P							1600	n	23000	n					380	n		0.21	
375-73-5	Perfluorobutane sulfonic acid (PFBS)	Spring 2017			1	0.1		0.02	P							1300	n	16000	n					400	n		0.13	
45187-15-3	Perfluorobutanesulfonate	Spring 2017			1	0.1		0.02	P							1300	n	16000	n					400	n		0.13	
13684-63-4	Phenmedipham	Spring 2016			1	0.1		0.25	I							16000	n	210000	nm					4000	n		21	
13684-63-4	Phenmedipham	Spring 2017			1	0.1		0.24	O							15000	n	200000	nm					3800	n		21	
.	Phenmedipham	Change Effect						-0.01	X.							-1000	.	-10000	.					-200				
103-72-0	Phenyl Isothiocyanate	Spring 2017	V		1		129	0.0002	X							16	n	230	ns					2.6	n		0.0017	
95-54-5	Phenylenediamine, o-	Spring 2016			1	0.1						0.047	H			12	c	49	c					1.6	c		0.00044	
95-54-5	Phenylenediamine, o-	Spring 2017			1	0.1		0.004	P			0.12	P			4.5	c*	19	c					0.65	c		0.00017	
.	Phenylenediamine, o-	Change Effect							X.			0.073	X.			-7.5	.X.	-30	.					-0.95			-0.00027	
106-50-3	Phenylenediamine, p-	Spring 2016			1	0.1		0.19	H							12000	n	160000	nm					3800	n		1	
106-50-3	Phenylenediamine, p-	Spring 2017			1	0.1		0.001	X							63	n	820	n					20	n		0.0054	
.	Phenylenediamine, p-	Change Effect						-0.189	X.							-11937	.	-159180	.X.					-3780			-0.9946	
29232-93-7	Pirimiphos, Methyl	Spring 2016			1	0.1		0.01	I							630	n	8200	n					120	n		0.12	
29232-93-7	Pirimiphos, Methyl	Spring 2017			1	0.1		0.000067	O							4.2	n	55	n					0.81	n		0.00077	
.	Pirimiphos, Methyl	Change Effect						-0.009933	X.							-625.8	.	-8145	.					-119.19			-0.11923	
29420-49-3	Potassium Perfluorobutane Sulfonate	Spring 2016			1	0.1		0.02	P							1300	n	16000	n					400	n		0.22	
29420-49-3	Potassium Perfluorobutane Sulfonate	Spring 2017			1	0.1		0.02	P							1300	n	16000	n					400	n			
.	Potassium Perfluorobutane Sulfonate	Change Effect															.		.									
7287-19-6	Prometryn	Spring 2016			1	0.1		0.004	I							250	n	3300	n					60	n		0.09	
7287-19-6	Prometryn	Spring 2017			1	0.1		0.04	O							2500	n	33000	n					600	n		0.9	
.	Prometryn	Change Effect						0.036	X.							2250	.	29700	.					540			0.81	
2312-35-8	Propargite	Spring 2016			1	0.1		0.02	I							1300	n	16000	n					160	n		12	
2312-35-8	Propargite	Spring 2017			1	0.1		0.04	O			0.033	O			17	c	70	c					0.92	c		0.068	
.	Propargite	Change Effect						0.02	X.				X.			-1283	X	-15930	X					-159.08	X.		-11.932	
60207-90-1	Propiconazole	Spring 2016			1	0.1		0.013	I							820	n	11000	n					210	n		0.69	
60207-90-1	Propiconazole	Spring 2017			1	0.1		0.1	O							6300	n	82000	n					1600	n		5.3	
.	Propiconazole	Change Effect						0.087	X.							5480	.	71000	.					1390			4.61	
NA	Refractory Ceramic Fibers	Spring 2016			1					0.03	A					43000000	nm	180000000	nm	31	n	130	n					
E715557	Refractory Ceramic Fibers	Spring 2017			1					0.03	A					43000000	nm	180000000	nm	31	n	130	n					
XXXXXXX	Refractory Ceramic Fibers	Change Effect															.		.									
74051-80-2	Sethoxydim	Spring 2016			1	0.1		0.09	I							5700	n	74000	n					1000	n		9.3	
74051-80-2	Sethoxydim	Spring 2017			1	0.1		0.14	O							8800	n	110000	nm					1600	n		14	
.	Sethoxydim	Change Effect						0.05	X.							3100	.	36000	.X.					600			4.7	
NA	Styrene-Acrylonitrile (SAN) Trimer	Spring 2016			1	0.1		0.003	P							190	n	2500	n					48	n			
	Styrene-Acrylonitrile (SAN) Trimer	Spring 2017			1	0.1		0.003	P							190	n	2500	n					48	n			
XX.	Styrene-Acrylonitrile (SAN) Trimer	Change Effect															.		.									
79277-27-3	Thifensulfuron-methyl	Spring 2016			1	0.1		0.013	I							820	n	11000	n					260	n		0.078	
79277-27-3	Thifensulfuron-methyl	Spring 2017			1	0.1		0.043	O							2700	n	35000	n					860	n		0.26	
.	Thifensulfuron-methyl	Change Effect						0.03	X.							1880	.	24000	.					600			0.182	
23564-05-8	Thiophanate, Methyl	Spring 2016			1	0.1		0.08	I							5100	n	66000	n					1600	n		1.4	
23564-05-8	Thiophanate, Methyl	Spring 2017			1	0.1		0.027	O			0.012	O			47	c*	200	c					6.7	c*		0.0057	
.	Thiophanate, Methyl	Change Effect						-0.053	X.				X.			-5053	XX.	-65800	X					-1593.3	XX		-1.3943	
137-26-8	Thiram	Spring 2016			1	0.1		0.005	I							320	n	4100	n					98	n		0.14	
137-26-8	Thiram	Spring 2017			1	0.1		0.015	O							950	n	12000	n					290	n		0.42	
.	Thiram	Change Effect						0.01	X.							630	.	7900	.					192			0.28	
584-84-9	Toluene-2,4-diisocyanate	Spring 2017	V		1					0.000008	C			0.000011	C	6.4	n	27	n	0.0083	n	0.035	n	0.017	n		0.00025	

CAS	Chemical	Type of Observation	vol	mutagen	GIABS	ABS	Csat (mg/kg)	RfDo (mg/kg-day)	key	RfCi (mg/m^3)	key	SFO $(mg/kg\text{-}day)^{-1}$	key	IUR $(ug/m3)^{-1}$	key	Resident Soil (mg/kg)	key	Industrial Soil (mg/kg)	key	Resident Air (ug/m^3)	key	Industrial Air (ug/m^3)	key	Tapwater (ug/L)	key	MCL (ug/L)	Risk-based SSL (mg/kg)	MCL-based SSL (mg/kg)
584-84-9	Toluene-2,4-diisocyante	Spring 2016	V		1					0.000008	C			0.000011	C	6.4	n	27	n	0.0083	n	0.035	n	0.017	n		0.00025	
91-08-7	Toluene-2,6-diisocyanate	Spring 2017	V		1		1710			0.000008	C			0.000011	C	5.3	n	22	n	0.0083	n	0.035	n	0.017	n		0.00026	
91-08-7	Toluene-2,6-diisocyante	Spring 2016	V		1		1710			0.000008	C			0.000011	C	5.3	n	22	n	0.0083	n	0.035	n	0.017	n		0.00026	
NA	Total Petroleum Hydrocarbons (Aliphatic High)	Spring 2016	V		1		0.342	3	P							230000	nms	3500000	nms					60000	n		2400	
E1790670	Total Petroleum Hydrocarbons (Aliphatic High)	Spring 2017	V		1		0.342	3	P							230000	nms	3500000	nms					60000	n		2400	
XXXXXXXX.	Total Petroleum Hydrocarbons (Aliphatic High)	Change Effect															.		.									
NA	Total Petroleum Hydrocarbons (Aliphatic Low)	Spring 2016	V		1		141			0.6	P					520	ns	2200	ns	630	n	2600	n	1300	n		8.8	
E1790666	Total Petroleum Hydrocarbons (Aliphatic Low)	Spring 2017	V		1		141			0.6	P					520	ns	2200	ns	630	n	2600	n	1300	n		8.8	
XXXXXXXX.	Total Petroleum Hydrocarbons (Aliphatic Low)	Change Effect															.		.									
NA	Total Petroleum Hydrocarbons (Aliphatic Medium)	Spring 2016	V		1		6.86	0.01	X	0.1	P					96	ns	440	ns	100	n	440	n	100	n		1.5	
E1790668	Total Petroleum Hydrocarbons (Aliphatic Medium)	Spring 2017	V		1		6.86	0.01	X	0.1	P					96	ns	440	ns	100	n	440	n	100	n		1.5	
XXXXXXXX.	Total Petroleum Hydrocarbons (Aliphatic Medium)	Change Effect															.		.									
NA	Total Petroleum Hydrocarbons (Aromatic High)	Spring 2016			1	0.1		0.04	P							2500	n	33000	n					800	n		89	
E1790676	Total Petroleum Hydrocarbons (Aromatic High)	Spring 2017			1	0.1		0.04	P							2500	n	33000	n					800	n		89	
XXXXXXXX.	Total Petroleum Hydrocarbons (Aromatic High)	Change Effect															.		.									
NA	Total Petroleum Hydrocarbons (Aromatic Low)	Spring 2016	V		1		1820	0.004	P	0.03	P					82	n	420	n	31	n	130	n	33	n		0.017	
E1790672	Total Petroleum Hydrocarbons (Aromatic Low)	Spring 2017	V		1		1820	0.004	P	0.03	P					82	n	420	n	31	n	130	n	33	n		0.017	
XXXXXXXX.	Total Petroleum Hydrocarbons (Aromatic Low)	Change Effect															.		.									
NA	Total Petroleum Hydrocarbons (Aromatic Medium)	Spring 2016	V		1			0.004	P	0.003	P					110	n	600	n	3.1	n	13	n	5.5	n		0.023	
E1790674	Total Petroleum Hydrocarbons (Aromatic Medium)	Spring 2017	V		1			0.004	P	0.003	P					110	n	600	n	3.1	n	13	n	5.5	n		0.023	
XXXXXXXX.	Total Petroleum Hydrocarbons (Aromatic Medium)	Change Effect															.		.									
43121-43-3	Triadimefon	Spring 2016			1	0.1		0.03	I							1900	n	25000	n					550	n		0.44	
43121-43-3	Triadimefon	Spring 2017			1	0.1		0.034	O							2100	n	28000	n					630	n		0.5	
.	Triadimefon	Change Effect						0.004	X.							200	.	3000	.					80			0.06	
2303-17-5	Triallate	Spring 2016	V		1			0.013	I							1000	n	15000	n					120	n		0.26	
2303-17-5	Triallate	Spring 2017	V		1			0.025	O			0.072	O			9.7	c	46	c					0.47	c		0.001	
.	Triallate	Change Effect						0.012	X.				X.			-990.3	X	-14954	X					-119.53	X.		-0.259	
118-79-6	Tribromophenol, 2,4,6-	Spring 2017			1	0.1		0.009	X							570	n	7400	n					120	n		0.22	
NA	Tributyltin Compounds	Spring 2016			1	0.1		0.0003	P							19	n	250	n					6	n			
E1790678	Tributyltin Compounds	Spring 2017			1	0.1		0.0003	P							19	n	250	n					6	n			
XXXXXXXX.	Tributyltin Compounds	Change Effect															.		.									
76-13-1	Trichloro-1,2,2-trifluoroethane, 1,1,2-	Spring 2016	V		1		910	30	I	30	H					40000	ns	170000	nms	31000	n	130000	n	55000	n		140	
76-13-1	Trichloro-1,2,2-trifluoroethane, 1,1,2-	Spring 2017	V		1		910	30	I	5	P					6700	ns	28000	ns	5200	n	22000	n	10000	n		26	
.	Trichloro-1,2,2-trifluoroethane, 1,1,2-	Change Effect								-25	X.					-33300	.	-142000	.XX	-25800		-108000		-45000			-114	
526-73-8	Trimethylbenzene, 1,2,3-	Spring 2016	V		1		293			0.005	P					49	n	210	n	5.2	n	22	n	10	n		0.015	
526-73-8	Trimethylbenzene, 1,2,3-	Spring 2017	V		1		293	0.01	I	0.06	I					340	ns	2000	ns	63	n	260	n	55	n		0.081	
.	Trimethylbenzene, 1,2,3-	Change Effect							X.	0.055	X.					291	.X.	1790	.X.	57.8		238		45			0.066	
95-63-6	Trimethylbenzene, 1,2,4-	Spring 2016	V		1		219			0.007	P					58	n	240	ns	7.3	n	31	n	15	n		0.021	
95-63-6	Trimethylbenzene, 1,2,4-	Spring 2017	V		1		219	0.01	I	0.06	I					300	ns	1800	ns	63	n	260	n	56	n		0.081	
.	Trimethylbenzene, 1,2,4-	Change Effect							X.	0.053	X.					242	.X.	1560	.	55.7		229		41			0.06	
108-67-8	Trimethylbenzene, 1,3,5-	Spring 2016	V		1		182	0.01	X							780	ns	12000	ns					120	n		0.17	
108-67-8	Trimethylbenzene, 1,3,5-	Spring 2017	V		1		182	0.01	I	0.06	I					270	ns	1500	ns	63	n	260	n	60	n		0.087	
.	Trimethylbenzene, 1,3,5-	Change Effect							X.		X.					-510	.	-10500	.		X.		X.	-60			-0.083	
NA	Uranium (Soluble Salts)	Spring 2016			1			0.003	I	0.00004	A					230	n	3500	n	0.042	n	0.18	n	60	n	30	27	14
E715565	Uranium (Soluble Salts)	Spring 2017			1			0.0002	A	0.00004	A					16	n	230	n	0.042	n	0.18	n	4	n	30	1.8	14
XXXXXXX	Uranium (Soluble Salts)	Change Effect						-0.0028	X.							-214	.	-3270	.					-56			-25.2	
50471-44-8	Vinclozolin	Spring 2016			1	0.1		0.025	I							1600	n	21000	n					440	n		0.34	
50471-44-8	Vinclozolin	Spring 2017			1	0.1		0.0012	O							76	n	980	n					21	n		0.016	
.	Vinclozolin	Change Effect						-0.0238	X.							-1524	.	-20020	.					-419			-0.324	
56-55-3	~Benz[a]anthracene	Spring 2016	V	M	1	0.1						0.73	E	0.00011	C	0.16	c	2.9	c	0.0092	c	0.11	c	0.012	c		0.0042	
56-55-3	~Benz[a]anthracene	Spring 2017	V	M	1	0.1						0.1	E	0.00006	E	1.1	c	21	c	0.017	c	0.2	c	0.03	c		0.011	
.	~Benz[a]anthracene	Change Effect										-0.63			X.	0.94	.	18.1	.	0.0078		0.09		0.018			0.0068	
50-32-8	~Benzo[a]pyrene	Spring 2016		M	1	0.1						7.3	I	0.0011	C	0.016	c	0.29	c	0.00092	c	0.011	c	0.0034	c	0.2	0.004	0.24
50-32-8	~Benzo[a]pyrene	Spring 2017		M	1	0.1		0.0003	I	0.000002	I	1	I	0.0006	I	0.11	c	2.1	c	0.0017	c**	0.0088	n	0.025	c	0.2	0.029	0.24
.	~Benzo[a]pyrene	Change Effect							X.		X.	-6.3		-0.0005	X.	0.094	.	1.81	.	0.00078	.XX.	-0.0022	X.	0.0216			0.025	
205-99-2	~Benzo[b]fluoranthene	Spring 2016		M	1	0.1						0.73	E	0.00011	C	0.16	c	2.9	c	0.0092	c	0.11	c	0.034	c		0.041	
205-99-2	~Benzo[b]fluoranthene	Spring 2017		M	1	0.1						0.1	E	0.00006	E	1.1	c	21	c	0.017	c	0.2	c	0.25	c		0.3	
.	~Benzo[b]fluoranthene	Change Effect										-0.63			X.	0.94	.	18.1	.	0.0078		0.09		0.216			0.259	
207-08-9	~Benzo[k]fluoranthene	Spring 2016		M	1	0.1						0.073	E	0.00011	C	1.6	c	29	c	0.0092	c	0.11	c	0.34	c		0.4	
207-08-9	~Benzo[k]fluoranthene	Spring 2017		M	1	0.1						0.01	E	0.000006	E	11	c	210	c	0.17	c	2	c	2.5	c		2.9	
.	~Benzo[k]fluoranthene	Change Effect										-0.063		-0.000104	X.	9.4	.	181	.	0.1608		1.89		2.16			2.5	
218-01-9	~Chrysene	Spring 2016		M	1	0.1						0.0073	E	0.000011	C	16	c	290	c	0.092	c	1.1	c	3.4	c		1.2	
218-01-9	~Chrysene	Spring 2017		M	1	0.1						0.001	E	0.0000006	E	110	c	2100	c	1.7	c	20	c	25	c		9	
.	~Chrysene	Change Effect										-0.0063			X.	94	.	1810	.	1.608		18.9		21.6			7.8	
53-70-3	~Dibenz[a,h]anthracene	Spring 2016		M	1	0.1						7.3	E	0.0012	C	0.016	c	0.29	c	0.00084	c	0.01	c	0.0034	c		0.013	
53-70-3	~Dibenz[a,h]anthracene	Spring 2017		M	1	0.1						1	E	0.0006	E	0.11	c	2.1	c	0.0017	c	0.02	c	0.025	c		0.096	
.	~Dibenz[a,h]anthracene	Change Effect										-6.3		-0.0006	X.	0.094	.	1.81	.	0.00086		0.01		0.0216			0.083	
NA	~Hexachlorodibenzo-p-dioxin, Mixture	Spring 2016			1	0						6200	I	1.3	I	0.0001	c	0.00047	c	0.0000022	c	0.0000094	c	0.000013	c		0.000017	

CAS	Chemical	Type of Observation	vol	mutagen	GIABS	ABS	Csat (mg/kg)	RfDo (mg/kg-day)	key	RfCi (mg/m^3)	key	SFO $(mg/kg\text{-}day)^{-1}$	key	IUR $(ug/m3)^{-1}$	key	Resident Soil (mg/kg)	key	Industrial Soil (mg/kg)	key	Resident Air (ug/m^3)	key	Industrial Air (ug/m^3)	key	Tapwater (ug/L)	key	MCL (ug/L)	Risk-based SSL (mg/kg)	MCL-based SSL (mg/kg)
	~Hexachlorodibenzo-p-dioxin, Mixture	Spring 2017			1	0						6200	I	1.3	I	0.0001	c	0.00047	c	0.0000022	c	0.0000094	c	0.000013	c		0.000017	
XX.	~Hexachlorodibenzo-p-dioxin, Mixture	Change Effect															.		.									
193-39-5	~Indeno[1,2,3-cd]pyrene	Spring 2016		M	1	0.1						0.73	E	0.00011	C	0.16	c	2.9	c	0.0092	c	0.11	c	0.034	c		0.13	
193-39-5	~Indeno[1,2,3-cd]pyrene	Spring 2017		M	1	0.1						0.1	E	0.00006	E	1.1	c	21	c	0.017	c	0.2	c	0.25	c		0.98	
.	~Indeno[1,2,3-cd]pyrene	Change Effect										-0.63			X.	0.94	.	18.1	.	0.0078		0.09		0.216			0.85	
7439-92-1	~Lead and Compounds	Spring 2016			1											400	L	800	L	0.15	L			15	L	15		14
7439-92-1	~Lead and Compounds	Spring 2017			1											400		800	L	0.15	L			15	L	15		14
.	~Lead and Compounds	Change Effect															X		.									
NA	~Thiocyanates	Spring 2016			1			0.0002	P							16	n	230	n					4	n			
E1790664	~Thiocyanates	Spring 2017			1			0.0002	P							16	n	230	n					4	n			
XXXXXXXX.	~Thiocyanates	Change Effect															.		.									