												$ci_{probability}$	0.99			
	Name		Source							River		$ci_{multiplier}$	0.99	Criterion	Dilution needed	
	Plant Code	Parameter	Nsamp	Nobs	avg	Geomean or est. cent. Tend	maximum	CV	unit	mean	max	Multiplier	Est. Max	Criterion	max / Criterion +1	Cent. Tend / Criterion +1
	Meadowlark\Orego	Chloroform	1	--	NA	NA	2.59	0.6	ug/l	UNK	UNK	13.197	34.18	260	1	1
	Hazelnut 1	1,4-Dichlorobenzene	84	4	NA	NA	12.5	0.6	ug/l	UNK	UNK	1.485	18.563	16	2	1
	Hazelnut 1	Benzene	44	1	NA	NA	4.7	0.6	ug/l	UNK	UNK	1.781	8.3723	0.83	11	7
	Hazelnut 1	Bis(2-ethylhexyl)Phthalate	33	--	2.9	3.7	7.3	0.315	ug/l	UNK	UNK	1.447	10.563	0.202020202	53	19
	Hazelnut 1	Chloroform	44	--	NA	NA	2.5	0.6	ug/l	UNK	UNK	1.781	4.4533	260	1	1
	Hazelnut 1	Ethylbenzene	44	1	NA	NA	11.2	0.6	ug/l	UNK	UNK	1.781	19.951	163.5036496	1	1
	Hazelnut 1	Pentachlorophenol	44	1	NA	NA	6.03	0.6	ug/l	UNK	UNK	1.781	10.741	0.15	73	2
	Hazelnut 1	Sum PCB	1	1	NA	NA	0.00011	0.6	ug/l	UNK	UNK	13.197	0.0015	6.40791E-06	228	18
	Hazelnut 1	Toluene	44	7	NA	NA	33.4	0.6	ug/l	UNK	UNK	1.781	59.497	723	1	1
	Thunder Egg	Arsenic	33	--	1.6	1.55	2.34	0.264	ug/l	0.34		1.366	3.1961	0.004123711	776	377
	Thunder Egg	Pentachlorophenol	3	1	NA	NA	1.6	0.6	ug/l	UNK	UNK	5.622	8.9959	0.15	62	12
	Thunder Egg	Sum PCB	1	1	NA	NA	0.00018	0.6	ug/l	UNK	UNK	13.197	0.0024	6.40791E-06	372	29
	Chinook 1	4,4'-DDT	7	1	NA	NA	0.16	0.6	ug/l	UNK	UNK	3.543	0.5669	0.000022	25835	1043
	Chinook 1	Arsenic	30	--	0.77	0.71	1.1	0.26	ug/l	UNK	UNK	1.379	1.5168	0.004123711	369	173
	Chinook 1	Bis(2-ethylhexyl)Phthalate	7	1	NA	NA	11	0.6	ug/l	UNK	UNK	3.543	38.975	0.202020202	194	9
	Chinook 1	Endrin	7	1	NA	NA	0.022	0.6	ug/l	UNK	UNK	3.543	0.078	0.006027987	14	2
	Chinook 2	Arsenic	30	--	0.48	0.42	0.8	0.41	ug/l	UNK	UNK	1.641	1.3127	0.004123711	319	103
	Doug Fir	4,4'-DDT	15	1	NA	NA	0.08	0.6	ug/l	UNK	UNK	2.562	0.2049	0.000022	9340	244
	Doug Fir	Aldrin	15	1	NA	na	0.023	0.6	ug/l	UNK	UNK	2.562	0.0589	0.0000050	11724	306
	Doug Fir	Alpha-BHC	15	1	NA	NA	0.068	0.6	ug/l	UNK	UNK	2.562	0.1742	0.00045	389	11
	Doug Fir	Arsenic	50	--	0.95	0.91	2.25	0.2846	ug/l	UNK	UNK	1.312	2.9521	0.004123711	717	222
	Doug Fir	Bis(2-ethylhexyl)Phthalate	15	1	NA	NA	14	0.6	ug/l	UNK	UNK	2.562	35.864	0.202020202	179	6
	Doug Fir	Endosulfan I	15	1	NA	NA	0.029	0.6	ug/l	UNK	UNK	2.562	0.0743	8.527918782	1	1
	Doug Fir	Endrin	15	1	NA	NA	0.022	0.6	ug/l	UNK	UNK	2.562	0.0564	0.006027987	10	1
	Doug Fir	Xylene isomers (Total)	15	3	NA	NA	1.47	0.6	ug/l	UNK	UNK	2.562	3.7657			
	Windy	Arsenic	51	--	NA	0.06	1.2	0.4	ug/l	1.1	UNK	1.449	1.7388	0.004123711	423	16
	Windy	Bis(2-ethylhexyl)Phthalate	3	2	NA	NA	25.5	0.6	ug/l	UNK	UNK	5.622	143.37	0.202020202	711	43
	Windy	Chloroform (trichloromethane)	3	2	NA	NA	0.9	0.6	ug/l	UNK	UNK	5.622	5.0602	260	1	1
	Windy	Di-n-butyl-phthalate	3	1	NA	NA	5.05	0.6	ug/l	UNK	UNK	5.622	28.393	398.2930299	1	1
	Sucker	Aldrin	2	1	NA	na	0.014	0.6	ug/l	UNK	UNK	7.394	0.1035	0.0000050	20596	1394
	Sucker	Arsenic	12	--	24.95	24.27	36.2	0.248	ug/l	4.8	6.9	1.573	56.955	0.004123711	13813	5886
	Sucker	Bis(2-ethylhexyl)Phthalate	2	2	15.5	na	29	0.6	ug/l	UNK	UNK	7.394	214.42	0.202020202	1062	72
	Sucker	Bromodichloromethane	2	1	NA	na	0.61	0.6	ug/l	UNK	UNK	7.394	4.5102	0.425047438	12	2
	Sucker	Chloroform	2	1	NA	na	4.7	0.6	ug/l	UNK	UNK	7.394	34.75	260	1	1
	Sucker	Toluene	2	1	NA	na	0.87	0.6	ug/l	UNK	UNK	7.394	6.4325	723	1	1
	Grizzly	Struggling with their sample notation, clear that there was nothing in one sample, 2005, MR DDT= 0.1 ug/l													1	1
	YeeHaw	Benzo{b}fluoranthene	1	1	NA	NA	0.67	0.6	ug/l	UNK	UNK	13.197	8.8419	0.001322626	6686	508
	YeeHaw	Bis(2-ethylhexyl)Phthalate	1	1	NA	NA	0.55	0.6	ug/l	UNK	UNK	13.197	7.2583	0.202020202	37	4
	YeeHaw	Chloroform	1	1	NA	NA	1.11	0.6	ug/l	UNK	UNK	13.197	14.649	260	1	1

	YeeHaw	Dibenz[a,h]anthracene	1	1	NA	NA	0.89	0.6	ug/l	UNK	UNK	13.197	11.745	0.0013	8881	674
	YeeHaw	Indeno[1,2,3-cd]pyrene	1	1	NA	NA	1.03	0.6	ug/l	UNK	UNK	13.197	13.593	0.001322626	10278	780
	YeeHaw	Sum PCB	1	1	NA	NA	0.00016	0.6	ug/l	UNK	UNK	13.197	0.0021	6.40791E-06	331	26
	Turkey	Arsenic	1	1	NA	na	1.89	0.6	ug/l	UNK	UNK	13.197	24.942	0.004123711	6049	459
	Turkey	Bis(2-ethylhexyl)Phthalate	1	1	NA	na	7.1	0.6	ug/l	UNK	UNK	13.197	93.698	0.202020202	465	36
	Turkey	Chloroform	1	1	NA	na	0.5	0.6	ug/l	UNK	UNK	13.197	6.5984	260	1	1
	Ivory Soap	Arsenic	2	--	NA	na	1.34	0.6	ug/l	UNK	< 1	7.394	9.9075	0.004123711	2404	163
	Ivory Soap	Bis(2-ethylhexyl)Phthalate	1	1	NA	na	13	0.6	ug/l	UNK	< 5.4	13.197	171.56	0.202020202	850	65
	Ivory Soap	Chloroform	2	--	NA	na	1.89	0.6	ug/l	UNK	UNK	7.394	13.974	260	1	1
	Ivory Soap	Endrin Aldehyde	3	1	NA	na	0.144	0.6	ug/l	UNK	< RL	5.622	0.8096	0.030139935	28	3
	Ivory Soap	Gamma Chlordane	3	2	NA	na	0.307	0.6	ug/l	UNK	< RL	5.622	1.7261	8.09881E-05	21314	2224
	ReHazlenut 1 (I don	Toluene	6	1	NA	NA	2.2	0.6	ug/l	UNK	UNK	3.819	8.4008	723	1	1
	ReHazlenut 1 (I don	1,4-Dichlorobenzene	6	2	NA	NA	2.5	0.6	ug/l	UNK	UNK	3.819	9.5464	16	2	1
	ReHazlenut 1 (I don	Bis(2-ethylhexyl)Phthalate	5	2	NA	NA	4.8	0.6	ug/l	UNK	UNK	4.192	20.122	0.202020202	101	9
	Hazelnut 2	Arsenic	3	--	0.61	0.52	1.13	0.6	ug/l	UNK	UNK	5.622	6.3534	0.004123711	1542	127
	Hazelnut 2	Bis(2-ethylhexyl)Phthalate	3	1	NA	NA	52.8	0.6	ug/l	UNK	UNK	5.622	296.86	0.202020202	1470	88
	Huckleberry	4,4'-DDE	9	1	NA	0.0089	0.015	0.6	ug/l	UNK	UNK	3.159	0.0474	0.000031	1530	288
	Huckleberry	4,4'-DDT	9	1	NA	0.0089	0.017	0.6	ug/l	UNK	UNK	3.159	0.0537	0.000022	2448	407
	Huckleberry	Bromodichloromethane	9	4	NA	3.78	6.7	0.6	ug/l	UNK	UNK	3.159	21.165	0.43	50	10
	Huckleberry	Bromoform	9	2	NA	3.1	9.3	0.6	ug/l	UNK	UNK	3.159	29.378	3.5	9	2
	Huckleberry	Chloroform	9	2	NA	2.79	5.1	0.6	ug/l	UNK	UNK	3.159	16.111	260	1	1
	Huckleberry	Dibromochloromethane	9	4	NA	4.23	12	0.6	ug/l	UNK	UNK	3.159	37.908	0.31	123	15
	Huckleberry	Heptachlor	9	1	NA	0.01	0.061	0.6	ug/l	UNK	UNK	3.159	0.1927	7.92842E-06	24306	1262
	Salal	Alpha-BHC	9	1	NA	0.0084	0.011	0.6	ug/l	UNK	UNK	3.159	0.0347	0.00045	78	20
	Salal	Bis(2-ethylhexyl)Phthalate	9	1	NA	6.03	27	0.6	ug/l	UNK	UNK	3.159	85.292	0.202020202	423	31
	Salal	Bromodichloromethane	9	4	NA	4.15	11	0.6	ug/l	UNK	UNK	3.159	34.749	0.43	82	11
	Salal	Chloroform	9	4	NA	7.03	30	0.6	ug/l	UNK	UNK	3.159	94.769	260	1	1
	Salal	Endosulfane 1	9	1	NA	0.0087	0.014	0.6	ug/l	UNK	UNK	3.159	0.0442	9	1	1
	Salal	Endrin	9	1	NA	0.0085	0.012	0.6	ug/l	UNK	UNK	3.159	0.0379	0.006	7	2
	Ducks	4,4"DDD	11	1	NA	0.0064	0.014	0.6	ug/l	UNK	UNK	2.899	0.0406	0.000031	1310	207
	Ducks	Aldrin	11	2	NA	0.0083	0.057	0.6	ug/l	UNK	UNK	2.899	0.1652	0.000005	33051	1661
	Ducks	Bis(2-ethylhexyl)Phthalate	11	5	NA	8.74	46	0.6	ug/l	UNK	UNK	2.899	133.36	0.202020202	661	44
	Ducks	Chloroform	11	2	NA	2.96	6.9	0.6	ug/l	UNK	UNK	2.899	20.004	4.3	6	2
	Ducks	Delta-BHC	11	1	NA	0.0067	0.022	0.6	ug/l	UNK	UNK	2.899	0.0638			
	Swallowtail	Aldrin	10	1	NA	0.0063	0.013	0.6	ug/l	UNK	UNK	3.018	0.0392	0.0000050	7807	1254
	Neighbor	4,4"DDD	2	1	NA	NA	0.015	0.6	ug/l	UNK	UNK	7.394	0.1109	0.000031	3579	243
	Neighbor	Endosulfan Sulfate	2	1	NA	NA	0.012	0.6	ug/l	UNK	UNK	7.394	0.0887	8.527918782	1	1
	Neighbor	4,4'-DDT	2	1	NA	NA	0.017	0.6	ug/l	UNK	UNK	7.394	0.1257	0.000022	5729	388
	Neighbor	Sum PCB	1	1	NA	NA	0.00328	0.6	ug/l	UNK	UNK	13.197	0.0433	6.40791E-06	6756	513
	Neighbor	Delta-BHC	2	1	NA	NA	0.018	0.6	ug/l	UNK	UNK	7.394	0.1331			
	Note: 19 elements, one of the elements is a subset of a source evaluated in the matrix, a total of 18 sources															

Comparison				Notes			
Generalized using MAX	Generalized using Cent. Tend.	Characteristics 1 = Data < 7, RL low, 2= Data >7, RL low, 3= Data <7, RL course. 4 = Data >7, RL low	Category	Dilution Factor (lower Range	Generalization		Notes
No RPA	No RPA	3	Chlorine Byproduct	1	No RPA		Course detection level
RP unlikely	No RPA	4	Industrial	2	RP unlikely		Observation for 4 of 84 samples (0.002,0.0032,0.0025,0.0022) censo
RP unlikely	RP unlikely	4	Industrial	100	RP Probable		Observed 1 of 44
RP unlikely	RP unlikely	4	Consumer Product	150	RP Likely		Censored data, cv = 0.315
No RPA	No RPA	4	Chlorine Byproduct	1000	RP Almost Certain		observed 5 of 44
No RPA	No RPA	4	Industrial				Single Observation
RP unlikely	No RPA	4	Consumer Product				observed 1 of 44
RP Likely	RP unlikely	4	Legacy	Summary of likelihood	Count of 18 sources		
No RPA	No RPA	4	Industrial	of RP (Not Arsenic)	Max	Mean	7 of 44 observations
RP Likely	RP Likely	1	Metals	RPA Likely >	15	9	Harmonic Mean Dil = 131, effective dilution = 0 for arsenic
RP unlikely	RP unlikely	1	Consumer Product	RPA Unlikely <	3	9	only three scans as part of application, DL 0.02 ug/l for pesticides, as
RP Likely	RP unlikely	1	Legacy				
RP Almost Certain	RP Almost Certain	2	Legacy				I need to check with Barton, unclear on summary, looks like 6-7 sam
RP Likely	RP Likely	2	Metals	Note: The original dilution factor presented by RPB			Normally Distributed (not logn), CV = 0.26
RP Likely	RP unlikely	2	Consumer Product	for the lower range was:			
RP unlikely	No RPA	2	Legacy	Dilution	rational		
RP Likely	RP Probable	1	Metals	1	Effectively < 2, most plants have		No Observations 4 samples VOCs, 3 sample Organics, Arsenic Norma
RP Almost Certain	RP Likely	2	Legacy	2	2- 10 most fall in range, often < 30		single observation (see Tom re two samples, one detect, one not)
RP Almost Certain	RP Likely	2	Legacy	100	100-150, a lot, Major to Willamette witl		single observation, need to verify with Tom M., the replicate sample
RP Likely	RP unlikely	2	Legacy	150	150 -1000, very few		single observation
RP Likely	RP Likely	2	Metals	1000	Unlikely anybody has much more need than this		
RP Likely	RP unlikely	2	Consumer Product				single observation
No RPA	No RPA	2	Legacy	Note: Alternative dilution factors suggested			single observation
RP unlikely	No RPA	2	Legacy	for the lower range was:			single observation
#N/A	#N/A	2	Industrial	Dilution	rational		3 hits,1.45, 1.19, 1.47
RP Likely	RP unlikely	3	Metals	1	few have less		about 10 of 51 reported (need to verify data with plant)(censored es
RP Likely	RP unlikely	3	Consumer Product	2	most have more		two (7.05 and 25.5)
No RPA	No RPA	3	Chlorine Byproduct	30	typical range		two (0.6 and 0.9)
No RPA	No RPA	3	Consumer Product	70	Few sources within this volumetric rang		Single Observation
RP Almost Certain	RP Almost Certain	1	Legacy	150	Few sources really have more		
RP Almost Certain	RP Almost Certain	1	Metals				Effective Dilution = 0
RP Almost Certain	RP unlikely	1	Consumer Product				
RP unlikely	No RPA	1	Industrial				dichlorobromomethane same as bromodichloromethance?
No RPA	No RPA	1	Chlorine Byproduct				
No RPA	No RPA	1	Industrial				
No RPA	No RPA	3	Metals				
RP Almost Certain	RP Likely	3	Industrial				No Arsenic Data
RP unlikely	RP unlikely	3	Consumer Product				
No RPA	No RPA	3	Chlorine Byproduct				

RP Almost Certain	RP Likely	3	Industrial	
RP Almost Certain	RP Likely	3	Industrial	
RP Likely	RP unlikely	3	Legacy	
RP Almost Certain	RP Likely	3	Metals	
RP Likely	RP unlikely	3	Consumer Product	
No RPA	No RPA	3	Chlorine Byproduct	
RP Almost Certain	RP Likely	3	Metals	From priority pollutant scans, not routine effluent data
RP Likely	RP unlikely	3	Consumer Product	Method reporting limits pesticides = 0.09
No RPA	No RPA	3	Chlorine Byproduct	Only organics data received (or asked for), not metals
RP unlikely	RP unlikely	3	Legacy	(1 of three in special study - toxics reduction study)
RP Almost Certain	RP Almost Certain	3	Legacy	2 of 3 (0.307, 0.196) in toxics reduction study, used chlordane not se
No RPA	No RPA	4	Industrial	observed 1 of 6
No RPA	No RPA	4	Industrial	observed 2 of 6 (0.0025. 0.0022) est central tendency (0.0013)
RP Probable	RP unlikely	4	Consumer Product	observed 2 of 5 (4.8,2.5) ext cent tend. = 1.6
RP Almost Certain	RP Probable	3	Metals	No required monitoring pesticides etc.
RP Almost Certain	RP unlikely	3	Consumer Product	observed 1 of three
RP Almost Certain	RP Likely	2	Legacy	Did not evaluate Arsenic,1 detect, data from Raj's Review, larger dat
RP Almost Certain	RP Likely	2	Legacy	Did not evaluate Arsenic,1 detect
RP unlikely	RP unlikely	2	Chlorine Byproduct	Did not evaluate Arsenic,4 detect, not sure how Raj got 3.8
RP unlikely	No RPA	2	Chlorine Byproduct	Did not evaluate Arsenic,2 detect
No RPA	No RPA	2	Chlorine Byproduct	Did not evaluate Arsenic,2 detect
RP Probable	RP unlikely	2	Chlorine Byproduct	Did not evaluate Arsenic,4 detect
RP Almost Certain	RP Almost Certain	2	Legacy	Did not evaluate Arsenic,1 detect
RP unlikely	RP unlikely	2	Legacy	Did not evaluate Arsenic,1 detect
RP Likely	RP unlikely	2	Consumer Product	Did not evaluate Arsenic,1 detect
RP unlikely	RP unlikely	2	Chlorine Byproduct	Did not evaluate Arsenic,4 detect
No RPA	No RPA	2	Chlorine Byproduct	Did not evaluate Arsenic,4 detect
No RPA	No RPA	2	Legacy	Did not evaluate Arsenic,1 detect
RP unlikely	RP unlikely	2	Legacy	Did not evaluate Arsenic,1 detect
RP Almost Certain	RP Likely	2	Legacy	Did not evaluate Arsenic,1 detect
RP Almost Certain	RP Almost Certain	2	Legacy	Did not evaluate Arsenic,2 detect
RP Likely	RP unlikely	2	Consumer Product	Did not evaluate Arsenic,5 detect
RP unlikely	No RPA	2	Chlorine Byproduct	Did not evaluate Arsenic,2 detect
#N/A	#N/A	2	Legacy	Did not evaluate Arsenic,1 detect
RP Almost Certain	RP Almost Certain	2	Legacy	Did not evaluate Arsenic,1 detect
RP Almost Certain	RP Likely	1	Legacy	All pesticide values qualified with (P) meaning confirmation criteria v
No RPA	No RPA	1	Legacy	Not a carcinogen (Endosufan sulfate)
RP Almost Certain	RP Likely	1	Legacy	
RP Almost Certain	RP Likely	1	Legacy	
		1	Legacy	

red mean = 0.0005, no observations of DDT at MDL of 0.5 - 0.1 ug/l

sumed 1 positive for penta

bles taken, one positive

lly Distributed cv = 0.41

for a day

timated mean 0.006, CV est. 0.4), RPA reports No RP for chronic or acute, measured as inorganic parated for Gamma, censored Nth root mean =0.18

a set than Steve sent in

vas exceeded, relative difference of > 25%, all values > RP, some samples not recorded > MRL < DL