Table G-2
Radionuclide Data Gaps Calculation Summary
(Residential)

EU	SU	Analyte	Residential DCGL (piC/g)	Number of Valid Samples	Number of Detects	Number of Detection Uncertain	Number of Rejected Samples	Max Detected Result (piC/g)	Average (piC/g)	Std. Dev. (piC/g)	Delta Residential	Relative Shift	Test Shift	Statistically Required Number of Samples per Area Size	SU Acreage	SU Class	Remediation Test[a]	Risk Assessment Required Samples per SU	Risk Assessment Data Gap Rural Residential	Risk Assessment Radiological Samples per SU required
EU-01	IVEU01RC203	Tritium (H-3)	2.28								1.345023403		1.5	14	0.08	2	0	1	1	
EU-01	IVEU01RC203	U-234	4.01								2.483402446		1.5	14	0.08	2	0	1	1	
EU-01	IVEU01RC203	U-235	0.195								0.098571969		1.5	14	0.08	2	0	1	1	
EU-01	IVEU01RC203	U-238	2.6								1.3		1.5	14	0.08	2	0	1	1	1
EU-01	IVEU01RC204	Ac-228	3.2								1.6		1.5	14	0.17	2	0	1	1	
EU-01	IVEU01RC204	Am-241	1.87								0.983259209		1.5	15	0.17	2	0	1	1	
EU-01	IVEU01RC204	Ba-133	0.175								0.087668644		1.5	15	0.17	2	0	1	1	
EU-01	IVEU01RC204	C-14	0.456								139.7005115		1.5	15	0.17	2	0	1	1	
EU-01	IVEU01RC204	Cm-243/244	0.349								0.175489416		1.5	15	0.17	2	0	1	1	
EU-01	IVEU01RC204	Co-60	0.0361								0.018119848		1.5	15	0.17	2	0	1	1	
EU-01	IVEU01RC204	Cs-134	0.157								0.07919429		1.5	15	0.17	2	0	1	1	
EU-01	IVEU01RC204	Cs-137	0.48								0.24		1.5	14	0.17	2	0	1	1	
EU-01	IVEU01RC204	Eu-152	0.0416								0.020814406		1.5	15	0.17	2	0	1	1	
EU-01	IVEU01RC204	Eu-154	0.0499								0.024950155		1.5	15	0.17	2	0	1	1	
EU-01	IVEU01RC204	Eu-155	3.8								1.903322648		1.5	15	0.17	2	0	1	1	
EU-01	IVEU01RC204	Fe-55	2690								1461.911262		1.5	15	0.17	2	0	1	1	
EU-01	IVEU01RC204	I-129	0.596								1.262193866		1.5	15	0.17	2	0	1	1	
EU-01	IVEU01RC204	K-40	60								30		1.5	14	0.17	2	0	1	1	
EU-01	IVEU01RC204	Na-22	0.0865								0.043308929		1.5	15	0.17	2	0	1	1	
EU-01	IVEU01RC204	Ni-59	208								541.446433		1.5	15	0.17	2	0	1	1	
EU-01	IVEU01RC204	Ni-63	94.8								246.5901147		1.5	15	0.17	2	0	1	1	
EU-01	IVEU01RC204	Np-237	0.13								0.068047461		1.5	15	0.17	2	0	1	1	
EU-01	IVEU01RC204	Pb-210	5								2.5		1.5	14	0.17	2	0	1	1	
EU-01	IVEU01RC204	Pu-238	2.97								1.635548449		1.5	14	0.17	2	0	1	1	
EU-01	IVEU01RC204	Pu-239	2.59								1.430938981		1.5	14	0.17	2	0	1	1	
EU-01	IVEU01RC204	Pu-240	2.6								1.432213109		1.5	15	0.17	2	0	1	1	
EU-01	IVEU01RC204	Pu-241	406								225.8293531		1.5	15	0.17	2	0	1	1	
EU-01	IVEU01RC204	Ra-226	5								2.5		1.5	14	0.17	2	0	1	1	
EU-01	IVEU01RC204	Ra-228	3.2								1.6		1.5	14	0.17	2	0	1	1	
EU-01	IVEU01RC204	Sb-125	0.462								0.231442714		1.5	15	0.17	2	0	1	1	
EU-01	IVEU01RC204	Sr-90	0.231								1.960528741		1.5	14	0.17	2	0	1	1	
EU-01	IVEU01RC204	Tc-99	0.25								48.16625994		1.5	15	0.17	2	0	1	1	
EU-01	IVEU01RC204	Th-228	3.2								1.6		1.5	14	0.17	2	0	1	1	
EU-01	IVEU01RC204	Th-230	3.49								1.909550267		1.5	14	0.17	2	0	1	1	
EU-01	IVEU01RC204	Th-232	3.1								1.699812707		1.5	14	0.17	2	0	1	1	
EU-01	IVEU01RC204	Tritium (H-3)	2.28								1.345023403		1.5	14	0.17	2	0	1	1	
EU-01	IVEU01RC204	U-234	4.01								2.483402446		1.5	14	0.17	2	0	1	1	
EU-01	IVEU01RC204	U-235	0.195								0.098571969		1.5	14	0.17	2	0	1	1	
EU-01	IVEU01RC204	U-238	2.6								1.3		1.5	14	0.17	2	0	1	1	1
EU-01	IVEU01RC301	Ac-228	3.2								1.6		1.5	14	13.13	3	0	11	11	
EU-01	IVEU01RC301	Am-241	1.87								0.983259209		1.5	15	13.13	3	0	12	12	
EU-01	IVEU01RC301	Ba-133	0.175								0.087668644		1.5	15	13.13	3	0	12	12	
EU-01	IVEU01RC301	C-14	0.456								139.7005115		1.5	15	13.13	3	0	12	12	
EU-01	IVEU01RC301	Cm-243/244	0.349								0.175489416		1.5	15	13.13	3	0	12	12	
EU-01	IVEU01RC301	Co-60	0.0361								0.018119848		1.5	15	13.13	3	0	12	12	
EU-01	IVEU01RC301	Cs-134	0.157								0.07919429		1.5	15	13.13	3	0	12	12	
EU-01	IVEU01RC301	Cs-137	0.48	7	2			0.17	0.0496429	0.059488	0.24	4.0344538	1.5	14	13.13	3	0	11	4	
EU-01	IVEU01RC301	Eu-152	0.0416				2				0.020814406		1.5	15	13.13	3	0	12	12	
EU-01	IVEU01RC301	Eu-154	0.0499								0.024950155		1.5	15	13.13	3	0	12	12	
EU-01	IVEU01RC301	Eu-155	3.8								1.903322648		1.5	15	13.13	3	0	12	12	
EU-01	IVEU01RC301	Fe-55	2690								1461.911262		1.5	15	13.13	3	0	12	12	
EU-01	IVEU01RC301	I-129	0.596								1.262193866		1.5	15	13.13	3	0	12	12	
EU-01	IVEU01RC301	K-40	60	5	5			22	20.6	1.67332	30	17.928429	1.5	14	13.13	3	0	11	6	
EU-01	IVEU01RC301	Na-22	0.0865								0.043308929		1.5	15	13.13	3	0	12	12	
EU-01	IVEU01RC301	Ni-59	208								541.446433		1.5	15	13.13	3	0	12	12	
EU-01	IVEU01RC301	Ni-63	94.8								246.5901147		1.5	15	13.13	3	0	12	12	
EU-01	IVEU01RC301	Np-237	0.13								0.068047461		1.5	15	13.13	3	0	12	12	

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Radionuclide Data Gaps Calculation Summary
(Residential)

EU	SU	Analyte	Residential DCGL (piC/g)	Number of Valid Samples	Number of Detects	Number of Detection Uncertain	Number of Rejected Samples	Max Detected Result (piC/g)	Average (piC/g)	Std. Dev. (piC/g)	Delta Residential	Relative Shift	Test Shift	Statistically Required Number of Samples per Area Size	SU Acreage	SU Class	Remediation Test[a]	Risk Assessment Required Samples per SU	Risk Assessment Data Gap Rural Residential	Risk Assessment Radiological Samples per SU required
EU-01	IVEU01RC301	Pb-210	5								2.5		1.5	14	13.13	3	0	11	11	
EU-01	IVEU01RC301	Pu-238	2.97	5	5			0.007	0.0028	0.00295	1.635548449	554.50286	1.5	14	13.13	3	0	11	6	
EU-01	IVEU01RC301	Pu-239	2.59								1.430938981		1.5	14	13.13	3	0	11	11	
EU-01	IVEU01RC301	Pu-240	2.6								1.432213109		1.5	15	13.13	3	0	12	12	
EU-01	IVEU01RC301	Pu-241	406								225.8293531		1.5	15	13.13	3	0	12	12	
EU-01	IVEU01RC301	Ra-226	5	5	5			1.1	0.84	0.237592	2.5	10.522236	1.5	14	13.13	3	0	11	6	
EU-01	IVEU01RC301	Ra-228	3.2								1.6		1.5	14	13.13	3	0	11	11	
EU-01	IVEU01RC301	Sb-125	0.462								0.231442714		1.5	15	13.13	3	0	12	12	
EU-01	IVEU01RC301	Sr-90	0.231	5	5			0.041	0.0248	0.01167	1.960528741	167.99048	1.5	14	13.13	3	0	11	6	
EU-01	IVEU01RC301	Tc-99	0.25								48.16625994		1.5	15	13.13	3	0	12	12	
EU-01	IVEU01RC301	Th-228	3.2	5	5			1.5	0.938	0.384734	1.6	4.158721	1.5	14	13.13	3	0	11	6	
EU-01	IVEU01RC301	Th-230	3.49	5	5			1.8	0.946	0.560785	1.909550267	3.4051369	1.5	14	13.13	3	0	11	6	
EU-01	IVEU01RC301	Th-232	3.1	5	5			1.6	1	0.475973	1.699812707	3.57124	1.5	14	13.13	3	0	11	6	
EU-01	IVEU01RC301	Tritium (H-3)	2.28	5	5			0.067	-0.0092	0.04651	1.345023403	28.918882	1.5	14	13.13	3	0	11	6	
EU-01	IVEU01RC301	U-234	4.01								2.483402446		1.5	14	13.13	3	0	11	11	
EU-01	IVEU01RC301	U-235	0.195	5	5			0.057	0.0406	0.014993	0.098571969	6.5743872	1.5	14	13.13	3	0	11	6	
EU-01	IVEU01RC301	U-238	2.6	5	5			1.4	0.816	0.383184	1.3	3.3926257	1.5	14	13.13	3	0	11	6	12
EU-02	IVEU02RC201	Ac-228	3.2								1.6		1.5	14	2.68	2	0	4	4	
EU-02	IVEU02RC201	Am-241	1.87								0.983259209		1.5	15	2.68	2	0	5	5	
EU-02	IVEU02RC201	Ba-133	0.175								0.087668644		1.5	15	2.68	2	0	5	5	
EU-02	IVEU02RC201	C-14	0.456								139.7005115		1.5	15	2.68	2	0	5	5	
EU-02	IVEU02RC201	Cm-243/244	0.349								0.175489416		1.5	15	2.68	2	0	5	5	
EU-02	IVEU02RC201	Co-60	0.0361								0.018119848		1.5	15	2.68	2	0	5	5	
EU-02	IVEU02RC201	Cs-134	0.157								0.07919429		1.5	15	2.68	2	0	5	5	
EU-02	IVEU02RC201	Cs-137	0.48	8	8			0.45	0.3	0.159553	0.24	1.5042029	1.5042029	14	2.68	2	0	4	0	
EU-02	IVEU02RC201	Eu-152	0.0416				2				0.020814406		1.5	15	2.68	2	0	5	5	
EU-02	IVEU02RC201	Eu-154	0.0499								0.024950155		1.5	15	2.68	2	0	5	5	
EU-02	IVEU02RC201	Eu-155	3.8								1.903322648		1.5	15	2.68	2	0	5	5	
EU-02	IVEU02RC201	Fe-55	2690								1461.911262		1.5	15	2.68	2	0	5	5	
EU-02	IVEU02RC201	I-129	0.596								1.262193866		1.5	15	2.68	2	0	5	5	
EU-02	IVEU02RC201	K-40	60	6	6			22	20.5	1.378405	30	21.764288	1.5	14	2.68	2	0	4	0	
EU-02	IVEU02RC201	Na-22	0.0865								0.043308929		1.5	15	2.68	2	0	5	5	
EU-02	IVEU02RC201	Ni-59	208								541.446433		1.5	15	2.68	2	0	5	5	
EU-02	IVEU02RC201	Ni-63	94.8								246.5901147		1.5	15	2.68	2	0	5	5	
EU-02	IVEU02RC201	Np-237	0.13								0.068047461		1.5	15	2.68	2	0	5	5	
EU-02	IVEU02RC201	Pb-210	5								2.5		1.5	14	2.68	2	0	4	4	
EU-02	IVEU02RC201	Pu-238	2.97	6	6			0.006	0.0005	0.002811	1.635548449	581.90202	1.5	14	2.68	2	0	4	0	
EU-02	IVEU02RC201	Pu-239	2.59								1.430938981		1.5	14	2.68	2	0	4	4	
EU-02	IVEU02RC201	Pu-240	2.6								1.432213109		1.5	15	2.68	2	0	5	5	
EU-02	IVEU02RC201	Pu-241	406								225.8293531		1.5	15	2.68	2	0	5	5	
EU-02	IVEU02RC201	Ra-226	5	6	6			0.84	0.7466667	0.162193	2.5	15.413707	1.5	14	2.68	2	0	4	0	
EU-02	IVEU02RC201	Ra-228	3.2								1.6		1.5	14	2.68	2	0	4	4	
EU-02	IVEU02RC201	Sb-125	0.462								0.231442714		1.5	15	2.68	2	0	5	5	
EU-02	IVEU02RC201	Sr-90	0.231	6	6			0.099	0.0553333	0.039993	1.960528741	49.021389	1.5	14	2.68	2	0	4	0	
EU-02	IVEU02RC201	Tc-99	0.25								48.16625994		1.5	15	2.68	2	0	5	5	
EU-02	IVEU02RC201	Th-228	3.2	6	6			0.89	0.6666667	0.127698	1.6	12.529605	1.5	14	2.68	2	0	4	0	
EU-02	IVEU02RC201	Th-230	3.49	6	6			0.69	0.5533333	0.097297	1.909550267	19.626034	1.5	14	2.68	2	0	4	0	
EU-02	IVEU02RC201	Th-232	3.1	6	6			0.82	0.6916667	0.087958	1.699812707	19.325206	1.5	14	2.68	2	0	4	0	
EU-02	IVEU02RC201	Tritium (H-3)	2.28	5	5			-0.008	-0.0208	0.014342	1.345023403	93.780533	1.5	14	2.68	2	0	4	0	
EU-02	IVEU02RC201	U-234	4.01								2.483402446		1.5	14	2.68	2	0	4	4	
EU-02	IVEU02RC201	U-235	0.195	6	6			0.038	0.0318333	0.006432	0.098571969	15.325977	1.5	14	2.68	2	0	4	0	
EU-02	IVEU02RC201	U-238	2.6	6	6			0.71	0.595	0.110589	1.3	11.755203	1.5	14	2.68	2	0	4	0	5
EU-02	IVEU02RC301	Ac-228	3.2								1.6		1.5	14	14.96	3	0	13	13	
EU-02	IVEU02RC301	Am-241	1.87								0.983259209		1.5	15	14.96	3	0	14	14	
EU-02	IVEU02RC301	Ba-133	0.175								0.087668644		1.5	15	14.96	3	0	14	14	
EU-02	IVEU02RC301	C-14	0.456								139.7005115		1.5	15	14.96	3	0	14	14	
EU-02	IVEU02RC301	Cm-243/244	0.349								0.175489416		1.5	15	14.96	3	0	14	14	

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(Residential)

EU	SU	Analyte	Residential DCGL (piC/g)	Number of Valid Samples	Number of Detects	Number of Detection Uncertain	Number of Rejected Samples	Max Detected Result (piC/g)	Average (piC/g)	Std. Dev. (piC/g)	Delta Residential	Relative Shift	Test Shift	Statistically Required Number of Samples per Area Size	SU Acreage	SU Class	Remediation Test[a]	Risk Assessment Required Samples per SU	Risk Assessment Data Gap Rural Residential	Risk Assessment Radiological Samples per SU required
EU-02	IVEU02RC301	Co-60	0.0361								0.018119848		1.5	15	14.96	3	0	14	14	
EU-02	IVEU02RC301	Cs-134	0.157								0.07919429		1.5	15	14.96	3	0	14	14	
EU-02	IVEU02RC301	Cs-137	0.48	5	4			0.15	0.0775	0.068007	0.24	3.5290302	1.5	14	14.96	3	0	13	8	
EU-02	IVEU02RC301	Eu-152	0.0416								0.020814406		1.5	15	14.96	3	0	14	14	
EU-02	IVEU02RC301	Eu-154	0.0499								0.024950155		1.5	15	14.96	3	0	14	14	
EU-02	IVEU02RC301	Eu-155	3.8								1.903322648		1.5	15	14.96	3	0	14	14	
EU-02	IVEU02RC301	Fe-55	2690								1461.911262		1.5	15	14.96	3	0	14	14	
EU-02	IVEU02RC301	I-129	0.596								1.262193866		1.5	15	14.96	3	0	14	14	
EU-02	IVEU02RC301	K-40	60	5	5			21	18.906	4.145984	30	7.2359186	1.5	14	14.96	3	0	13	8	
EU-02	IVEU02RC301	Na-22	0.0865								0.043308929		1.5	15	14.96	3	0	14	14	
EU-02	IVEU02RC301	Ni-59	208								541.446433		1.5	15	14.96	3	0	14	14	
EU-02	IVEU02RC301	Ni-63	94.8								246.5901147		1.5	15	14.96	3	0	14	14	
EU-02	IVEU02RC301	Np-237	0.13								0.068047461		1.5	15	14.96	3	0	14	14	
EU-02	IVEU02RC301	Pb-210	5								2.5		1.5	14	14.96	3	0	13	13	
EU-02	IVEU02RC301	Pu-238	2.97	4	4			0.001	0.00025	0.0005	1.635548449	3271.0969	1.5	14	14.96	3	0	13	9	
EU-02	IVEU02RC301	Pu-239	2.59								1.430938981		1.5	14	14.96	3	0	13	13	
EU-02	IVEU02RC301	Pu-240	2.6								1.432213109		1.5	15	14.96	3	0	14	14	
EU-02	IVEU02RC301	Pu-241	406								225.8293531		1.5	15	14.96	3	0	14	14	
EU-02	IVEU02RC301	Ra-226	5	4	4			0.97	0.8725	0.082614	2.5	30.261377	1.5	14	14.96	3	0	13	9	
EU-02	IVEU02RC301	Ra-228	3.2								1.6		1.5	14	14.96	3	0	13	13	
EU-02	IVEU02RC301	Sb-125	0.462								0.231442714		1.5	15	14.96	3	0	14	14	
EU-02	IVEU02RC301	Sr-90	0.231	4	4			0.053	0.0345	0.021502	1.960528741	91.179165	1.5	14	14.96	3	0	13	9	
EU-02	IVEU02RC301	Tc-99	0.25								48.16625994		1.5	15	14.96	3	0	14	14	
EU-02	IVEU02RC301	Th-228	3.2	4	4			1.1	0.985	0.136748	1.6	11.700359	1.5	14	14.96	3	0	13	9	
EU-02	IVEU02RC301	Th-230	3.49	4	4			1	0.875	0.117898	1.909550267	16.196594	1.5	14	14.96	3	0	13	9	
EU-02	IVEU02RC301	Th-232	3.1	4	4			1	0.875	0.123423	1.699812707	13.772209	1.5	14	14.96	3	0	13	9	
EU-02	IVEU02RC301	Tritium (H-3)	2.28	1	1			0.042	0.042		1.345023403		1.5	14	14.96	3	0	13	12	
EU-02	IVEU02RC301	U-234	4.01								2.483402446		1.5	14	14.96	3	0	13	13	
EU-02	IVEU02RC301	U-235	0.195	4	4			0.053	0.0485	0.004655	0.098571969	21.176656	1.5	14	14.96	3	0	13	9	
EU-02	IVEU02RC301	U-238	2.6	4	4			1.1	0.9275	0.122848	1.3	10.58217	1.5	14	14.96	3	0	13	9	14
EU-03	IVEU03RC101	Ac-228	3.2								1.6		1.5	14	3.76	1	0	27	27	
EU-03	IVEU03RC101	Am-241	1.87	1	1			-0.0149	-0.0149		0.983259209		1.5	15			0	0	0	
EU-03	IVEU03RC101	Ba-133	0.175								0.087668644		1.5	15			0	0	0	
EU-03	IVEU03RC101	C-14	0.456								139.7005115		1.5	15			0	0	0	
EU-03	IVEU03RC101	Cm-243/244	0.349								0.175489416		1.5	15			0	0	0	
EU-03	IVEU03RC101	Co-60	0.0361	1	1			0.511	0.511		0.018119848		1.5	15			0	0	0	
EU-03	IVEU03RC101	Cs-134	0.157								0.07919429		1.5	15			0	0	0	
EU-03	IVEU03RC101	Cs-137	0.48	38	15			0.329	0.066777	0.077424	0.24	3.0998135	3	8			0	0	0	
EU-03	IVEU03RC101	Eu-152	0.0416				8				0.020814406		1.5	15			0	0	0	
EU-03	IVEU03RC101	Eu-154	0.0499								0.024950155		1.5	15			0	0	0	
EU-03	IVEU03RC101	Eu-155	3.8								1.903322648		1.5	15			0	0	0	
EU-03	IVEU03RC101	Fe-55	2690								1461.911262		1.5	15			0	0	0	
EU-03	IVEU03RC101	I-129	0.596								1.262193866		1.5	15			0	0	0	
EU-03	IVEU03RC101	K-40	60	11	11			22.9	22.363636	0.54456	30	55.090361	3	8			0	0	0	
EU-03	IVEU03RC101	Na-22	0.0865								0.043308929		1.5	15			0	0	0	
EU-03	IVEU03RC101	Ni-59	208								541.446433		1.5	15			0	0	0	
EU-03	IVEU03RC101	Ni-63	94.8								246.5901147		1.5	15			0	0	0	
EU-03	IVEU03RC101	Np-237	0.13								0.068047461		1.5	15			0	0	0	
EU-03	IVEU03RC101	Pb-210	5								2.5		1.5	14			0	0	0	
EU-03	IVEU03RC101	Pu-238	2.97	2	2			0.0304	0.0147	0.022203	1.635548449	73.662892	1.5	14			0	0	0	
EU-03	IVEU03RC101	Pu-239	2.59								1.430938981		1.5	14			0	0	0	
EU-03	IVEU03RC101	Pu-240	2.6								1.432213109		1.5	15			0	0	0	
EU-03	IVEU03RC101	Pu-241	406	1	1			5.87	5.87		225.8293531		1.5	15			0	0	0	
EU-03	IVEU03RC101	Ra-226	5	22	22			1.79	1.1235455	0.326421	2.5	7.6588288	3	8			0	0	0	
EU-03	IVEU03RC101	Ra-228	3.2								1.6		1.5	14			0	0	0	
EU-03	IVEU03RC101	Sb-125	0.462								0.231442714		1.5	15			0	0	0	
EU-03	IVEU03RC101	Sr-90	0.231	2	2			-0.008	-0.298	0.410122	1.960528741	4.7803557	1.5	14			0	0	0	

Table G-2
Radionuclide Data Gaps Calculation Summary
(Residential)

EU	SU	Analyte	Residential DCGL (piC/g)	Number of Valid Samples	Number of Detects	Number of Detection Uncertain	Number of Rejected Samples	Max Detected Result (piC/g)	Average (piC/g)	Std. Dev. (piC/g)	Delta Residential	Relative Shift	Test Shift	Statistically Required Number of Samples per Area Size	SU Acreage	SU Class	Remediation Test[a]	Risk Assessment Required Samples per SU	Risk Assessment Data Gap Rural Residential	Risk Assessment Radiological Samples per SU required
EU-03	IVEU03RC101	Tc-99	0.25								48.16625994		1.5	15			0	0	0	
EU-03	IVEU03RC101	Th-228	3.2	17	17			1.54	1.2853529	0.19613	1.6	8.1578396	3	8			0	0	0	
EU-03	IVEU03RC101	Th-230	3.49	12	12			1.72	1.048	0.342178	1.909550267	5.5805836	3	8			0	0	0	
EU-03	IVEU03RC101	Th-232	3.1	28	28			2.63	1.4016786	0.437967	1.699812707	3.8811401	3	8			0	0	0	
EU-03	IVEU03RC101	Tritium (H-3)	2.28								1.345023403		1.5	14			0	0	0	
EU-03	IVEU03RC101	U-234	4.01	11	11			1.43	0.9696364	0.244678	2.483402446	10.149665	3	8			0	0	0	
EU-03	IVEU03RC101	U-235	0.195	11	11			0.095	0.0469091	0.019496	0.098571969	5.0560306	3	8			0	0	0	
EU-03	IVEU03RC101	U-238	2.6	12	12			1.44	0.9631667	0.240221	1.3	5.4116738	3	8	3.76	1	0	16	4	27
EU-03	IVEU03RC102	Ac-228	3.2								1.6		1.5	14	0.83	1	0	6	6	
EU-03	IVEU03RC102	Am-241	1.87								0.983259209		1.5	15	0.83	1	0	7	7	
EU-03	IVEU03RC102	Ba-133	0.175								0.087668644		1.5	15	0.83	1	0	7	7	
EU-03	IVEU03RC102	C-14	0.456								139.7005115		1.5	15	0.83	1	0	7	7	
EU-03	IVEU03RC102	Cm-243/244	0.349								0.175489416		1.5	15	0.83	1	0	7	7	
EU-03	IVEU03RC102	Co-60	0.0361	1	1			0.13	0.13		0.018119848		1.5	15	0.83	1	0	7	6	
EU-03	IVEU03RC102	Cs-134	0.157								0.07919429		1.5	15	0.83	1	0	7	7	
EU-03	IVEU03RC102	Cs-137	0.48	15	12			2.4	0.7649786	0.870294	0.24	0.275769	1.5	14	0.83	1	1	6	0	
EU-03	IVEU03RC102	Eu-152	0.0416								0.020814406		1.5	15	0.83	1	0	7	7	
EU-03	IVEU03RC102	Eu-154	0.0499								0.024950155		1.5	15	0.83	1	0	7	7	
EU-03	IVEU03RC102	Eu-155	3.8								1.903322648		1.5	15	0.83	1	0	7	7	
EU-03	IVEU03RC102	Fe-55	2690								1461.911262		1.5	15	0.83	1	0	7	7	
EU-03	IVEU03RC102	I-129	0.596								1.262193866		1.5	15	0.83	1	0	7	7	
EU-03	IVEU03RC102	K-40	60	6	6			21	18.516667	2.08846	30	14.364649	1.5	14	0.83	1	0	6	0	
EU-03	IVEU03RC102	Na-22	0.0865								0.043308929		1.5	15	0.83	1	0	7	7	
EU-03	IVEU03RC102	Ni-59	208								541.446433		1.5	15	0.83	1	0	7	7	
EU-03	IVEU03RC102	Ni-63	94.8								246.5901147		1.5	15	0.83	1	0	7	7	
EU-03	IVEU03RC102	Np-237	0.13								0.068047461		1.5	15	0.83	1	0	7	7	
EU-03	IVEU03RC102	Pb-210	5								2.5		1.5	14	0.83	1	0	6	6	
EU-03	IVEU03RC102	Pu-238	2.97	5	5			0.006	0.0014	0.00305	1.635548449	536.31746	1.5	14	0.83	1	0	6	1	
EU-03	IVEU03RC102	Pu-239	2.59								1.430938981		1.5	14	0.83	1	0	6	6	
EU-03	IVEU03RC102	Pu-240	2.6								1.432213109		1.5	15	0.83	1	0	7	7	
EU-03	IVEU03RC102	Pu-241	406								225.8293531		1.5	15	0.83	1	0	7	7	
EU-03	IVEU03RC102	Ra-226	5	5	5			1.3	1.002	0.205475	2.5	12.166927	1.5	14	0.83	1	0	6	1	
EU-03	IVEU03RC102	Ra-228	3.2								1.6		1.5	14	0.83	1	0	6	6	
EU-03	IVEU03RC102	Sb-125	0.462								0.231442714		1.5	15	0.83	1	0	7	7	
EU-03	IVEU03RC102	Sr-90	0.231	5	5			0.21	0.0976	0.083032	1.960528741	23.611747	1.5	14	0.83	1	0	6	1	
EU-03	IVEU03RC102	Tc-99	0.25								48.16625994		1.5	15	0.83	1	0	7	7	
EU-03	IVEU03RC102	Th-228	3.2	5	5			2.5	1.188	0.799231	1.6	2.0019246	1.5	14	0.83	1	0	6	1	
EU-03	IVEU03RC102	Th-230	3.49	5	5			2.3	1.076	0.731116	1.909550267	2.6118309	1.5	14	0.83	1	0	6	1	
EU-03	IVEU03RC102	Th-232	3.1	5	5			2.1	1.102	0.618078	1.699812707	2.7501604	1.5	14	0.83	1	0	6	1	
EU-03	IVEU03RC102	Tritium (H-3)	2.28	2	2			-0.038	-0.0385	0.000707	1.345023403	1902.1503	1.5	14	0.83	1	0	6	4	
EU-03	IVEU03RC102	U-234	4.01								2.483402446		1.5	14	0.83	1	0	6	6	
EU-03	IVEU03RC102	U-235	0.195	5	5			0.1	0.056	0.029095	0.098571969	3.3879731	1.5	14	0.83	1	0	6	1	
EU-03	IVEU03RC102	U-238	2.6	5	5			2	1.056	0.57622	1.3	2.256081	1.5	14	0.83	1	0	6	1	7
EU-03	IVEU03RC201	Ac-228	3.2								1.6		1.5	14	4.48	2	0	7	7	
EU-03	IVEU03RC201	Am-241	1.87								0.983259209		1.5	15	4.48	2	0	7	7	
EU-03	IVEU03RC201	Ba-133	0.175								0.087668644		1.5	15	4.48	2	0	7	7	
EU-03	IVEU03RC201	C-14	0.456								139.7005115		1.5	15	4.48	2	0	7	7	
EU-03	IVEU03RC201	Cm-243/244	0.349								0.175489416		1.5	15	4.48	2	0	7	7	
EU-03	IVEU03RC201	Co-60	0.0361								0.018119848		1.5	15	4.48	2	0	7	7	
EU-03	IVEU03RC201	Cs-134	0.157								0.07919429		1.5	15	4.48	2	0	7	7	
EU-03	IVEU03RC201	Cs-137	0.48	14	14			0.44	0.2045455	0.157292	0.24	1.5258277	1.5258277	14	4.48	2	0	7	0	
EU-03	IVEU03RC201	Eu-152	0.0416								0.020814406		1.5	15	4.48	2	0	7	7	
EU-03	IVEU03RC201	Eu-154	0.0499								0.024950155		1.5	15	4.48	2	0	7	7	
EU-03	IVEU03RC201	Eu-155	3.8								1.903322648		1.5	15	4.48	2	0	7	7	
EU-03	IVEU03RC201	Fe-55	2690								1461.911262		1.5	15	4.48	2	0	7	7	
EU-03	IVEU03RC201	I-129	0.596								1.262193866		1.5	15	4.48	2	0	7	7	
EU-03	IVEU03RC201	K-40	60	14	14			25.9	23.262857	1.704268	30	17.602865	3	8	4.48	2	0	4	0	

Table G-2
Radionuclide Data Gaps Calculation Summary
(Residential)

EU	SU	Analyte	Residential DCGL (piC/g)	Number of Valid Samples	Number of Detects	Number of Detection Uncertain	Number of Rejected Samples	Max Detected Result (piC/g)	Average (piC/g)	Std. Dev. (piC/g)	Delta Residential	Relative Shift	Test Shift	Statistically Required Number of Samples per Area Size	SU Acreage	SU Class	Remediation Test[a]	Risk Assessment Required Samples per SU	Risk Assessment Data Gap Rural Residential	Risk Assessment Radiological Samples per SU required
EU-03	IVEU03RC201	Na-22	0.0865								0.043308929		1.5	15	4.48	2	0	7	7	
EU-03	IVEU03RC201	Ni-59	208								541.446433		1.5	15	4.48	2	0	7	7	
EU-03	IVEU03RC201	Ni-63	94.8								246.5901147		1.5	15	4.48	2	0	7	7	
EU-03	IVEU03RC201	Np-237	0.13								0.068047461		1.5	15	4.48	2	0	7	7	
EU-03	IVEU03RC201	Pb-210	5								2.5		1.5	14	4.48	2	0	7	7	
EU-03	IVEU03RC201	Pu-238	2.97	5	5			0.001	0.0002	0.000447	1.635548449	3657.1975	1.5	14	4.48	2	0	7	2	
EU-03	IVEU03RC201	Pu-239	2.59								1.430938981		1.5	14	4.48	2	0	7	7	
EU-03	IVEU03RC201	Pu-240	2.6								1.432213109		1.5	15	4.48	2	0	7	7	
EU-03	IVEU03RC201	Pu-241	406								225.8293531		1.5	15	4.48	2	0	7	7	
EU-03	IVEU03RC201	Ra-226	5	11	11			0.989	0.8558182	0.086838	2.5	28.789382	3	8	4.48	2	0	4	0	
EU-03	IVEU03RC201	Ra-228	3.2								1.6		1.5	14	4.48	2	0	7	7	
EU-03	IVEU03RC201	Sb-125	0.462								0.231442714		1.5	15	4.48	2	0	7	7	
EU-03	IVEU03RC201	Sr-90	0.231	5	5			0.053	0.0356	0.009839	1.960528741	199.26707	1.5	14	4.48	2	0	7	2	
EU-03	IVEU03RC201	Tc-99	0.25								48.16625994		1.5	15	4.48	2	0	7	7	
EU-03	IVEU03RC201	Th-228	3.2	14	14			1.53	1.3135714	0.139041	1.6	11.507392	3	8	4.48	2	0	4	0	
EU-03	IVEU03RC201	Th-230	3.49	11	11			1.01	0.8790909	0.117555	1.909550267	16.243939	3	8	4.48	2	0	4	0	
EU-03	IVEU03RC201	Th-232	3.1	14	14			1.51	1.1758571	0.189071	1.699812707	8.9903431	3	8	4.48	2	0	4	0	
EU-03	IVEU03RC201	Tritium (H-3)	2.28								1.345023403		1.5	14	4.48	2	0	7	7	
EU-03	IVEU03RC201	U-234	4.01	6	6			0.864	0.823	0.054487	2.483402446	45.578144	1.5	14	4.48	2	0	7	1	
EU-03	IVEU03RC201	U-235	0.195	11	11			0.061	0.0452727	0.010743	0.098571969	9.1752164	3	8	4.48	2	0	4	0	
EU-03	IVEU03RC201	U-238	2.6	11	11			0.96	0.806	0.081901	1.3	15.872791	3	8	4.48	2	0	4	0	7
EU-03	IVEU03RC202	Ac-228	3.2								1.6		1.5	14	0.26	2	0	1	1	
EU-03	IVEU03RC202	Am-241	1.87								0.983259209		1.5	15	0.26	2	0	1	1	
EU-03	IVEU03RC202	Ba-133	0.175								0.087668644		1.5	15	0.26	2	0	1	1	
EU-03	IVEU03RC202	C-14	0.456								139.7005115		1.5	15	0.26	2	0	1	1	
EU-03	IVEU03RC202	Cm-243/244	0.349								0.175489416		1.5	15	0.26	2	0	1	1	
EU-03	IVEU03RC202	Co-60	0.0361								0.018119848		1.5	15	0.26	2	0	1	1	
EU-03	IVEU03RC202	Cs-134	0.157								0.07919429		1.5	15	0.26	2	0	1	1	
EU-03	IVEU03RC202	Cs-137	0.48								0.24		1.5	14	0.26	2	0	1	1	
EU-03	IVEU03RC202	Eu-152	0.0416								0.020814406		1.5	15	0.26	2	0	1	1	
EU-03	IVEU03RC202	Eu-154	0.0499								0.024950155		1.5	15	0.26	2	0	1	1	
EU-03	IVEU03RC202	Eu-155	3.8								1.903322648		1.5	15	0.26	2	0	1	1	
EU-03	IVEU03RC202	Fe-55	2690								1461.911262		1.5	15	0.26	2	0	1	1	
EU-03	IVEU03RC202	I-129	0.596								1.262193866		1.5	15	0.26	2	0	1	1	
EU-03	IVEU03RC202	K-40	60								30		1.5	14	0.26	2	0	1	1	
EU-03	IVEU03RC202	Na-22	0.0865								0.043308929		1.5	15	0.26	2	0	1	1	
EU-03	IVEU03RC202	Ni-59	208								541.446433		1.5	15	0.26	2	0	1	1	
EU-03	IVEU03RC202	Ni-63	94.8								246.5901147		1.5	15	0.26	2	0	1	1	
EU-03	IVEU03RC202	Np-237	0.13								0.068047461		1.5	15	0.26	2	0	1	1	
EU-03	IVEU03RC202	Pb-210	5								2.5		1.5	14	0.26	2	0	1	1	
EU-03	IVEU03RC202	Pu-238	2.97								1.635548449		1.5	14	0.26	2	0	1	1	
EU-03	IVEU03RC202	Pu-239	2.59								1.430938981		1.5	14	0.26	2	0	1	1	
EU-03	IVEU03RC202	Pu-240	2.6								1.432213109		1.5	15	0.26	2	0	1	1	
EU-03	IVEU03RC202	Pu-241	406								225.8293531		1.5	15	0.26	2	0	1	1	
EU-03	IVEU03RC202	Ra-226	5								2.5		1.5	14	0.26	2	0	1	1	
EU-03	IVEU03RC202	Ra-228	3.2								1.6		1.5	14	0.26	2	0	1	1	
EU-03	IVEU03RC202	Sb-125	0.462								0.231442714		1.5	15	0.26	2	0	1	1	
EU-03	IVEU03RC202	Sr-90	0.231								1.960528741		1.5	14	0.26	2	0	1	1	
EU-03	IVEU03RC202	Tc-99	0.25								48.16625994		1.5	15	0.26	2	0	1	1	
EU-03	IVEU03RC202	Th-228	3.2								1.6		1.5	14	0.26	2	0	1	1	
EU-03	IVEU03RC202	Th-230	3.49								1.909550267		1.5	14	0.26	2	0	1	1	
EU-03	IVEU03RC202	Th-232	3.1								1.699812707		1.5	14	0.26	2	0	1	1	
EU-03	IVEU03RC202	Tritium (H-3)	2.28								1.345023403		1.5	14	0.26	2	0	1	1	
EU-03	IVEU03RC202	U-234	4.01								2.483402446		1.5	14	0.26	2	0	1	1	
EU-03	IVEU03RC202	U-235	0.195								0.098571969		1.5	14	0.26	2	0	1	1	
EU-03	IVEU03RC202	U-238	2.6								1.3		1.5	14	0.26	2	0	1	1	1
EU-03	IVEU03RC301	Ac-228	3.2								1.6		1.5	14	8.80	3	0	8	8	

Table G-2
Radionuclide Data Gaps Calculation Summary
(Residential)

EU	SU	Analyte	Residential DCGL (piC/g)	Number of Valid Samples	Number of Detects	Number of Detection Uncertain	Number of Rejected Samples	Max Detected Result (piC/g)	Average (piC/g)	Std. Dev. (piC/g)	Delta Residential	Relative Shift	Test Shift	Statistically Required Number of Samples per Area Size	SU Acreage	SU Class	Remediation Test[a]	Risk Assessment Required Samples per SU	Risk Assessment Data Gap Rural Residential	Risk Assessment Radiological Samples per SU required
EU-03	IVEU03RC301	Am-241	1.87								0.983259209		1.5	15	8.80	3	0	8	8	
EU-03	IVEU03RC301	Ba-133	0.175								0.087668644		1.5	15	8.80	3	0	8	8	
EU-03	IVEU03RC301	C-14	0.456								139.7005115		1.5	15	8.80	3	0	8	8	
EU-03	IVEU03RC301	Cm-243/244	0.349								0.175489416		1.5	15	8.80	3	0	8	8	
EU-03	IVEU03RC301	Co-60	0.0361								0.018119848		1.5	15	8.80	3	0	8	8	
EU-03	IVEU03RC301	Cs-134	0.157								0.07919429		1.5	15	8.80	3	0	8	8	
EU-03	IVEU03RC301	Cs-137	0.48	1					0.0495		0.24		1.5	14	8.80	3	0	8	7	
EU-03	IVEU03RC301	Eu-152	0.0416								0.020814406		1.5	15	8.80	3	0	8	8	
EU-03	IVEU03RC301	Eu-154	0.0499								0.024950155		1.5	15	8.80	3	0	8	8	
EU-03	IVEU03RC301	Eu-155	3.8								1.903322648		1.5	15	8.80	3	0	8	8	
EU-03	IVEU03RC301	Fe-55	2690								1461.911262		1.5	15	8.80	3	0	8	8	
EU-03	IVEU03RC301	I-129	0.596								1.262193866		1.5	15	8.80	3	0	8	8	
EU-03	IVEU03RC301	K-40	60								30		1.5	14	8.80	3	0	8	8	
EU-03	IVEU03RC301	Na-22	0.0865								0.043308929		1.5	15	8.80	3	0	8	8	
EU-03	IVEU03RC301	Ni-59	208								541.446433		1.5	15	8.80	3	0	8	8	
EU-03	IVEU03RC301	Ni-63	94.8								246.5901147		1.5	15	8.80	3	0	8	8	
EU-03	IVEU03RC301	Np-237	0.13								0.068047461		1.5	15	8.80	3	0	8	8	
EU-03	IVEU03RC301	Pb-210	5								2.5		1.5	14	8.80	3	0	8	8	
EU-03	IVEU03RC301	Pu-238	2.97								1.635548449		1.5	14	8.80	3	0	8	8	
EU-03	IVEU03RC301	Pu-239	2.59								1.430938981		1.5	14	8.80	3	0	8	8	
EU-03	IVEU03RC301	Pu-240	2.6								1.432213109		1.5	15	8.80	3	0	8	8	
EU-03	IVEU03RC301	Pu-241	406								225.8293531		1.5	15	8.80	3	0	8	8	
EU-03	IVEU03RC301	Ra-226	5								2.5		1.5	14	8.80	3	0	8	8	
EU-03	IVEU03RC301	Ra-228	3.2								1.6		1.5	14	8.80	3	0	8	8	
EU-03	IVEU03RC301	Sb-125	0.462								0.231442714		1.5	15	8.80	3	0	8	8	
EU-03	IVEU03RC301	Sr-90	0.231								1.960528741		1.5	14	8.80	3	0	8	8	
EU-03	IVEU03RC301	Tc-99	0.25								48.16625994		1.5	15	8.80	3	0	8	8	
EU-03	IVEU03RC301	Th-228	3.2								1.6		1.5	14	8.80	3	0	8	8	
EU-03	IVEU03RC301	Th-230	3.49								1.909550267		1.5	14	8.80	3	0	8	8	
EU-03	IVEU03RC301	Th-232	3.1								1.699812707		1.5	14	8.80	3	0	8	8	
EU-03	IVEU03RC301	Tritium (H-3)	2.28								1.345023403		1.5	14	8.80	3	0	8	8	
EU-03	IVEU03RC301	U-234	4.01								2.483402446		1.5	14	8.80	3	0	8	8	
EU-03	IVEU03RC301	U-235	0.195								0.098571969		1.5	14	8.80	3	0	8	8	
EU-03	IVEU03RC301	U-238	2.6								1.3		1.5	14	8.80	3	0	8	8	8
EU-04	IVEU04RC101	Ac-228	3.2								1.6		1.5	14	2.53	1	0	18	18	
EU-04	IVEU04RC101	Am-241	1.87	33	21			0.204	0.0591874	0.048819	0.983259209	20.140917	3	11	2.53	1	0	14	0	
EU-04	IVEU04RC101	Ba-133	0.175								0.087668644		1.5	15	2.53	1	0	19	19	
EU-04	IVEU04RC101	C-14	0.456								139.7005115		1.5	15	2.53	1	0	19	19	
EU-04	IVEU04RC101	Cm-243/244	0.349								0.175489416		1.5	15	2.53	1	0	19	19	
EU-04	IVEU04RC101	Co-60	0.0361	99	25		13	0.095	0.0114768	0.017986	0.018119848	1.0074341	1.0074341	23	2.53	1	0	30	0	
EU-04	IVEU04RC101	Cs-134	0.157								0.07919429		1.5	15	2.53	1	0	19	19	
EU-04	IVEU04RC101	Cs-137	0.48	155	131			4.886	0.3919071	0.734989	0.24	0.3265355	0.3265355	243	2.53	1	1	308	153	
EU-04	IVEU04RC101	Eu-152	0.0416				12				0.020814406		1.5	15	2.53	1	0	19	19	
EU-04	IVEU04RC101	Eu-154	0.0499								0.024950155		1.5	15	2.53	1	0	19	19	
EU-04	IVEU04RC101	Eu-155	3.8								1.903322648		1.5	15	2.53	1	0	19	19	
EU-04	IVEU04RC101	Fe-55	2690								1461.911262		1.5	15	2.53	1	0	19	19	
EU-04	IVEU04RC101	I-129	0.596								1.262193866		1.5	15	2.53	1	0	19	19	
EU-04	IVEU04RC101	K-40	60	81	81			22	19.68284	1.141495	30	26.281327	3	8	2.53	1	0	11	0	
EU-04	IVEU04RC101	Na-22	0.0865								0.043308929		1.5	15	2.53	1	0	19	19	
EU-04	IVEU04RC101	Ni-59	208								541.446433		1.5	15	2.53	1	0	19	19	
EU-04	IVEU04RC101	Ni-63	94.8								246.5901147		1.5	15	2.53	1	0	19	19	
EU-04	IVEU04RC101	Np-237	0.13								0.068047461		1.5	15	2.53	1	0	19	19	
EU-04	IVEU04RC101	Pb-210	5								2.5		1.5	14	2.53	1	0	18	18	
EU-04	IVEU04RC101	Pu-238	2.97	26	26			0.0614	0.02055	0.020013	1.635548449	81.725879	3	8	2.53	1	0	11	0	
EU-04	IVEU04RC101	Pu-239	2.59								1.430938981		1.5	14	2.53	1	0	18	18	
EU-04	IVEU04RC101	Pu-240	2.6								1.432213109		1.5	15	2.53	1	0	19	19	
EU-04	IVEU04RC101	Pu-241	406	21	21			6.56	2.8249524	1.587545	225.8293531	142.25067	3	11	2.53	1	0	14	0	

Table G-2
Radionuclide Data Gaps Calculation Summary
(Residential)

EU	SU	Analyte	Residential DCGL (piC/g)	Number of Valid Samples	Number of Detects	Number of Detection Uncertain	Number of Rejected Samples	Max Detected Result (piC/g)	Average (piC/g)	Std. Dev. (piC/g)	Delta Residential	Relative Shift	Test Shift	Statistically Required Number of Samples per Area Size	SU Acreage	SU Class	Remediation Test[a]	Risk Assessment Required Samples per SU	Risk Assessment Data Gap Rural Residential	Risk Assessment Radiological Samples per SU required
EU-04	IVEU04RC101	Ra-226	5	94	91			1.63	0.7744681	0.228305	2.5	10.950243	3	8	2.53	1	0	11	0	
EU-04	IVEU04RC101	Ra-228	3.2								1.6		1.5	14	2.53	1	0	18	18	
EU-04	IVEU04RC101	Sb-125	0.462								0.231442714		1.5	15	2.53	1	0	19	19	
EU-04	IVEU04RC101	Sr-90	0.231	23	23			0.947	0.2794957	0.422943	1.960528741	4.6354409	1.5	14	2.53	1	1	18	0	
EU-04	IVEU04RC101	Tc-99	0.25								48.16625994		1.5	15	2.53	1	0	19	19	
EU-04	IVEU04RC101	Th-228	3.2	23	23			13.7	1.6556957	2.632156	1.6	0.6078666	0.6078666	64	2.53	1	1	81	58	
EU-04	IVEU04RC101	Th-230	3.49	23	23			1.77	1.0396087	0.278322	1.909550267	6.8609461	3	8	2.53	1	0	11	0	
EU-04	IVEU04RC101	Th-232	3.1	35	35			1.94	1.0928286	0.255768	1.699812707	6.6459106	3	8	2.53	1	0	11	0	
EU-04	IVEU04RC101	Tritium (H-3)	2.28								1.345023403		1.5	14	2.53	1	0	18	18	
EU-04	IVEU04RC101	U-234	4.01	21	21			1.26	0.8575238	0.187675	2.483402446	13.232433	3	8	2.53	1	0	11	0	
EU-04	IVEU04RC101	U-235	0.195	113	105		3	0.68	0.0628823	0.071187	0.098571969	1.3846989	1.3846989	17	2.53	1	0	22	0	
EU-04	IVEU04RC101	U-238	2.6	114	110			1.95	0.8202982	0.291045	1.3	4.4666597	3	8	2.53	1	0	11	0	19
EU-04	IVEU04RC102	Ac-228	3.2	41	41			1.4	1.1358537	0.123268	1.6	12.979901	3	8	0.64	1	0	3	0	
EU-04	IVEU04RC102	Am-241	1.87	41	41			0.105	-0.002	0.044612	0.983259209	22.04041	3	11	0.64	1	0	4	0	
EU-04	IVEU04RC102	Ba-133	0.175								0.087668644		1.5	15	0.64	1	0	5	5	
EU-04	IVEU04RC102	C-14	0.456								139.7005115		1.5	15	0.64	1	0	5	5	
EU-04	IVEU04RC102	Cm-243/244	0.349								0.175489416		1.5	15	0.64	1	0	5	5	
EU-04	IVEU04RC102	Co-60	0.0361	41	41			0.055	0.0010237	0.024158	0.018119848	0.7500449	0.7500449	40	0.64	1	1	13	0	
EU-04	IVEU04RC102	Cs-134	0.157	41	41			0.066	0.0004902	0.023172	0.07919429	3.4176485	3	11	0.64	1	0	4	0	
EU-04	IVEU04RC102	Cs-137	0.48	47	40			0.068	0.0082309	0.025306	0.24	9.4840592	3	8	0.64	1	0	3	0	
EU-04	IVEU04RC102	Eu-152	0.0416	41	41		6	0.09	-0.014244	0.047061	0.020814406	0.4422855	0.4422855	107	0.64	1	1	35	0	
EU-04	IVEU04RC102	Eu-154	0.0499	40	40		1	0.31	0.026525	0.165593	0.024950155	0.1506719	0.1506719	1620	0.64	1	1	516	476	
EU-04	IVEU04RC102	Eu-155	3.8								1.903322648		1.5	15	0.64	1	0	5	5	
EU-04	IVEU04RC102	Fe-55	2690								1461.911262		1.5	15	0.64	1	0	5	5	
EU-04	IVEU04RC102	I-129	0.596								1.262193866		1.5	15	0.64	1	0	5	5	
EU-04	IVEU04RC102	K-40	60	41	41			23.5	20.519512	1.534148	30	19.554829	3	8	0.64	1	0	3	0	
EU-04	IVEU04RC102	Na-22	0.0865								0.043308929		1.5	15	0.64	1	0	5	5	
EU-04	IVEU04RC102	Ni-59	208								541.446433		1.5	15	0.64	1	0	5	5	
EU-04	IVEU04RC102	Ni-63	94.8								246.5901147		1.5	15	0.64	1	0	5	5	
EU-04	IVEU04RC102	Np-237	0.13								0.068047461		1.5	15	0.64	1	0	5	5	
EU-04	IVEU04RC102	Pb-210	5	1	1			1.39	1.39		2.5		1.5	14	0.64	1	0	5	4	
EU-04	IVEU04RC102	Pu-238	2.97	41	41			0.049	-0.000149	0.015319	1.635548449	106.76582	3	8	0.64	1	0	3	0	
EU-04	IVEU04RC102	Pu-239	2.59								1.430938981		1.5	14	0.64	1	0	5	5	
EU-04	IVEU04RC102	Pu-240	2.6								1.432213109		1.5	15	0.64	1	0	5	5	
EU-04	IVEU04RC102	Pu-241	406	41	35			4	1.2934146	1.117581	225.8293531	202.06972	3	11	0.64	1	0	4	0	
EU-04	IVEU04RC102	Ra-226	5								2.5		1.5	14	0.64	1	0	5	5	
EU-04	IVEU04RC102	Ra-228	3.2								1.6		1.5	14	0.64	1	0	5	5	
EU-04	IVEU04RC102	Sb-125	0.462								0.231442714		1.5	15	0.64	1	0	5	5	
EU-04	IVEU04RC102	Sr-90	0.231	41	40			0.28	0.058561	0.118019	1.960528741	16.611995	3	8	0.64	1	1	3	0	
EU-04	IVEU04RC102	Tc-99	0.25								48.16625994		1.5	15	0.64	1	0	5	5	
EU-04	IVEU04RC102	Th-228	3.2								1.6		1.5	14	0.64	1	0	5	5	
EU-04	IVEU04RC102	Th-230	3.49								1.909550267		1.5	14	0.64	1	0	5	5	
EU-04	IVEU04RC102	Th-232	3.1	41	41			1.4	1.1358537	0.123268	1.699812707	13.789625	3	8	0.64	1	0	3	0	
EU-04	IVEU04RC102	Tritium (H-3)	2.28	41	40			1.4	0.2437317	0.432301	1.345023403	3.1113098	3	8	0.64	1	0	3	0	
EU-04	IVEU04RC102	U-234	4.01	47	47			1.22	0.9004255	0.144146	2.483402446	17.22838	3	8	0.64	1	0	3	0	
EU-04	IVEU04RC102	U-235	0.195	47	47			0.089	0.042	0.020632	0.098571969	4.7775344	3	8	0.64	1	0	3	0	
EU-04	IVEU04RC102	U-238	2.6	47	47			1.31	0.9655319	0.162986	1.3	7.9761529	3	8	0.64	1	0	3	0	5
EU-04	IVEU04RC103	Ac-228	3.2								1.6		1.5	14	1.15	1	0	9	9	
EU-04	IVEU04RC103	Am-241	1.87								0.983259209		1.5	15	1.15	1	0	9	9	
EU-04	IVEU04RC103	Ba-133	0.175								0.087668644		1.5	15	1.15	1	0	9	9	
EU-04	IVEU04RC103	C-14	0.456								139.7005115		1.5	15	1.15	1	0	9	9	
EU-04	IVEU04RC103	Cm-243/244	0.349								0.175489416		1.5	15	1.15	1	0	9	9	
EU-04	IVEU04RC103	Co-60	0.0361								0.018119848		1.5	15	1.15	1	0	9	9	
EU-04	IVEU04RC103	Cs-134	0.157								0.07919429		1.5	15	1.15	1	0	9	9	
EU-04	IVEU04RC103	Cs-137	0.48	14	12			2.93	0.4292857	0.746205	0.24	0.3216273	0.3216273	243	1.15	1	1	140	126	
EU-04	IVEU04RC103	Eu-152	0.0416								0.020814406		1.5	15	1.15	1	0	9	9	
EU-04	IVEU04RC103	Eu-154	0.0499								0.024950155		1.5	15	1.15	1	0	9	9	

Table G-2
Radionuclide Data Gaps Calculation Summary
(Residential)

EU	SU	Analyte	Residential DCGL (piC/g)	Number of Valid Samples	Number of Detects	Number of Detection Uncertain	Number of Rejected Samples	Max Detected Result (piC/g)	Average (piC/g)	Std. Dev. (piC/g)	Delta Residential	Relative Shift	Test Shift	Statistically Required Number of Samples per Area Size	SU Acreage	SU Class	Remediation Test[a]	Risk Assessment Required Samples per SU	Risk Assessment Data Gap Rural Residential	Risk Assessment Radiological Samples per SU required
EU-04	IVEU04RC103	Eu-155	3.8	1	1			0.06	0.06		1.903322648		1.5	15	1.15	1	0	9	8	
EU-04	IVEU04RC103	Fe-55	2690								1461.911262		1.5	15	1.15	1	0	9	9	
EU-04	IVEU04RC103	I-129	0.596								1.262193866		1.5	15	1.15	1	0	9	9	
EU-04	IVEU04RC103	K-40	60	6	6			22	20.381667	2.939132	30	10.207095	1.5	14	1.15	1	0	9	3	
EU-04	IVEU04RC103	Na-22	0.0865								0.043308929		1.5	15	1.15	1	0	9	9	
EU-04	IVEU04RC103	Ni-59	208								541.446433		1.5	15	1.15	1	0	9	9	
EU-04	IVEU04RC103	Ni-63	94.8								246.5901147		1.5	15	1.15	1	0	9	9	
EU-04	IVEU04RC103	Np-237	0.13								0.068047461		1.5	15	1.15	1	0	9	9	
EU-04	IVEU04RC103	Pb-210	5								2.5		1.5	14	1.15	1	0	9	9	
EU-04	IVEU04RC103	Pu-238	2.97	3	2			0.002	0.0013333	0.001155	1.635548449	1416.4265	1.5	14	1.15	1	0	9	6	
EU-04	IVEU04RC103	Pu-239	2.59								1.430938981		1.5	14	1.15	1	0	9	9	
EU-04	IVEU04RC103	Pu-240	2.6								1.432213109		1.5	15	1.15	1	0	9	9	
EU-04	IVEU04RC103	Pu-241	406								225.8293531		1.5	15	1.15	1	0	9	9	
EU-04	IVEU04RC103	Ra-226	5	3	3			1.1	0.9133333	0.176163	2.5	14.191418	1.5	14	1.15	1	0	9	6	
EU-04	IVEU04RC103	Ra-228	3.2								1.6		1.5	14	1.15	1	0	9	9	
EU-04	IVEU04RC103	Sb-125	0.462								0.231442714		1.5	15	1.15	1	0	9	9	
EU-04	IVEU04RC103	Sr-90	0.231	3	3			0.095	0.071	0.02506	1.960528741	78.233614	1.5	14	1.15	1	0	9	6	
EU-04	IVEU04RC103	Tc-99	0.25								48.16625994		1.5	15	1.15	1	0	9	9	
EU-04	IVEU04RC103	Th-228	3.2	3	3			1.3	0.9866667	0.289194	1.6	5.5326128	1.5	14	1.15	1	0	9	6	
EU-04	IVEU04RC103	Th-230	3.49	3	3			1.2	0.8366667	0.325935	1.909550267	5.8586923	1.5	14	1.15	1	0	9	6	
EU-04	IVEU04RC103	Th-232	3.1	3	3			1.4	1.0233333	0.365559	1.699812707	4.6499006	1.5	14	1.15	1	0	9	6	
EU-04	IVEU04RC103	Tritium (H-3)	2.28	3	3			0.02	0.007	0.014107	1.345023403	95.346181	1.5	14	1.15	1	0	9	6	
EU-04	IVEU04RC103	U-234	4.01								2.483402446		1.5	14	1.15	1	0	9	9	
EU-04	IVEU04RC103	U-235	0.195	6	6			0.06	0.0493333	0.010073	0.098571969	9.7856963	1.5	14	1.15	1	0	9	3	
EU-04	IVEU04RC103	U-238	2.6	3	3			0.86	0.78	0.13	1.3	10	1.5	14	1.15	1	0	9	6	9
EU-04	IVEU04RC104	Ac-228	3.2								1.6		1.5	14	1.98	1	0	14	14	
EU-04	IVEU04RC104	Am-241	1.87								0.983259209		1.5	15	1.98	1	0	15	15	
EU-04	IVEU04RC104	Ba-133	0.175								0.087668644		1.5	15	1.98	1	0	15	15	
EU-04	IVEU04RC104	C-14	0.456								139.7005115		1.5	15	1.98	1	0	15	15	
EU-04	IVEU04RC104	Cm-243/244	0.349								0.175489416		1.5	15	1.98	1	0	15	15	
EU-04	IVEU04RC104	Co-60	0.0361								0.018119848		1.5	15	1.98	1	0	15	15	
EU-04	IVEU04RC104	Cs-134	0.157								0.07919429		1.5	15	1.98	1	0	15	15	
EU-04	IVEU04RC104	Cs-137	0.48	14	5			0.23	0.0386821	0.060684	0.24	3.9549077	3	8	1.98	1	0	8	0	
EU-04	IVEU04RC104	Eu-152	0.0416								0.020814406		1.5	15	1.98	1	0	15	15	
EU-04	IVEU04RC104	Eu-154	0.0499								0.024950155		1.5	15	1.98	1	0	15	15	
EU-04	IVEU04RC104	Eu-155	3.8								1.903322648		1.5	15	1.98	1	0	15	15	
EU-04	IVEU04RC104	Fe-55	2690								1461.911262		1.5	15	1.98	1	0	15	15	
EU-04	IVEU04RC104	I-129	0.596								1.262193866		1.5	15	1.98	1	0	15	15	
EU-04	IVEU04RC104	K-40	60	4	4			21	20.5	1	30	30	1.5	14	1.98	1	0	14	10	
EU-04	IVEU04RC104	Na-22	0.0865								0.043308929		1.5	15	1.98	1	0	15	15	
EU-04	IVEU04RC104	Ni-59	208								541.446433		1.5	15	1.98	1	0	15	15	
EU-04	IVEU04RC104	Ni-63	94.8								246.5901147		1.5	15	1.98	1	0	15	15	
EU-04	IVEU04RC104	Np-237	0.13								0.068047461		1.5	15	1.98	1	0	15	15	
EU-04	IVEU04RC104	Pb-210	5								2.5		1.5	14	1.98	1	0	14	14	
EU-04	IVEU04RC104	Pu-238	2.97	4	4			0.007	0	0.00483	1.635548449	338.5907	1.5	14	1.98	1	0	14	10	
EU-04	IVEU04RC104	Pu-239	2.59								1.430938981		1.5	14	1.98	1	0	14	14	
EU-04	IVEU04RC104	Pu-240	2.6								1.432213109		1.5	15	1.98	1	0	15	15	
EU-04	IVEU04RC104	Pu-241	406								225.8293531		1.5	15	1.98	1	0	15	15	
EU-04	IVEU04RC104	Ra-226	5	4	4			0.83	0.755	0.050662	2.5	49.346377	1.5	14	1.98	1	0	14	10	
EU-04	IVEU04RC104	Ra-228	3.2								1.6		1.5	14	1.98	1	0	14	14	
EU-04	IVEU04RC104	Sb-125	0.462								0.231442714		1.5	15	1.98	1	0	15	15	
EU-04	IVEU04RC104	Sr-90	0.231	4	4			0.042	0.01275	0.023514	1.960528741	83.376445	1.5	14	1.98	1	0	14	10	
EU-04	IVEU04RC104	Tc-99	0.25								48.16625994		1.5	15	1.98	1	0	15	15	
EU-04	IVEU04RC104	Th-228	3.2	4	4			1.3	1.1	0.270801	1.6	5.9083916	1.5	14	1.98	1	0	14	10	
EU-04	IVEU04RC104	Th-230	3.49	4	4			1.3	0.96	0.313794	1.909550267	6.0853628	1.5	14	1.98	1	0	14	10	
EU-04	IVEU04RC104	Th-232	3.1	4	4			1.1	0.985	0.23	1.699812707	7.39049	1.5	14	1.98	1	0	14	10	
EU-04	IVEU04RC104	Tritium (H-3)	2.28	1	1			0.008	0.008		1.345023403		1.5	14	1.98	1	0	14	13	

Table G-2
Radionuclide Data Gaps Calculation Summary
(Residential)

EU	SU	Analyte	Residential DCGL (piC/g)	Number of Valid Samples	Number of Detects	Number of Detection Uncertain	Number of Rejected Samples	Max Detected Result (piC/g)	Average (piC/g)	Std. Dev. (piC/g)	Delta Residential	Relative Shift	Test Shift	Statistically Required Number of Samples per Area Size	SU Acreage	SU Class	Remediation Test[a]	Risk Assessment Required Samples per SU	Risk Assessment Data Gap Rural Residential	Risk Assessment Radiological Samples per SU required
EU-04	IVEU04RC104	U-234	4.01								2.483402446		1.5	14	1.98	1	0	14	14	
EU-04	IVEU04RC104	U-235	0.195	4	4			0.07	0.05325	0.012366	0.098571969	7.9712425	1.5	14	1.98	1	0	14	10	
EU-04	IVEU04RC104	U-238	2.6	4	4			1.3	0.94	0.277609	1.3	4.682848	1.5	14	1.98	1	0	14	10	15
EU-04	IVEU04RC301	Ac-228	3.2								1.6		1.5	14	11.97	3	0	10	10	
EU-04	IVEU04RC301	Am-241	1.87								0.983259209		1.5	15	11.97	3	0	11	11	
EU-04	IVEU04RC301	Ba-133	0.175								0.087668644		1.5	15	11.97	3	0	11	11	
EU-04	IVEU04RC301	C-14	0.456								139.7005115		1.5	15	11.97	3	0	11	11	
EU-04	IVEU04RC301	Cm-243/244	0.349								0.175489416		1.5	15	11.97	3	0	11	11	
EU-04	IVEU04RC301	Co-60	0.0361								0.018119848		1.5	15	11.97	3	0	11	11	
EU-04	IVEU04RC301	Cs-134	0.157								0.07919429		1.5	15	11.97	3	0	11	11	
EU-04	IVEU04RC301	Cs-137	0.48	2	2			0.13	0.11	0.028284	0.24	8.4852814	1.5	14	11.97	3	0	10	8	
EU-04	IVEU04RC301	Eu-152	0.0416								0.020814406		1.5	15	11.97	3	0	11	11	
EU-04	IVEU04RC301	Eu-154	0.0499								0.024950155		1.5	15	11.97	3	0	11	11	
EU-04	IVEU04RC301	Eu-155	3.8								1.903322648		1.5	15	11.97	3	0	11	11	
EU-04	IVEU04RC301	Fe-55	2690								1461.911262		1.5	15	11.97	3	0	11	11	
EU-04	IVEU04RC301	I-129	0.596								1.262193866		1.5	15	11.97	3	0	11	11	
EU-04	IVEU04RC301	K-40	60	2	2			23	21.5	2.12132	30	14.142136	1.5	14	11.97	3	0	10	8	
EU-04	IVEU04RC301	Na-22	0.0865								0.043308929		1.5	15	11.97	3	0	11	11	
EU-04	IVEU04RC301	Ni-59	208								541.446433		1.5	15	11.97	3	0	11	11	
EU-04	IVEU04RC301	Ni-63	94.8								246.5901147		1.5	15	11.97	3	0	11	11	
EU-04	IVEU04RC301	Np-237	0.13								0.068047461		1.5	15	11.97	3	0	11	11	
EU-04	IVEU04RC301	Pb-210	5								2.5		1.5	14	11.97	3	0	10	10	
EU-04	IVEU04RC301	Pu-238	2.97	2	2			0.001	0	0.001414	1.635548449	1156.5074	1.5	14	11.97	3	0	10	8	
EU-04	IVEU04RC301	Pu-239	2.59								1.430938981		1.5	14	11.97	3	0	10	10	
EU-04	IVEU04RC301	Pu-240	2.6								1.432213109		1.5	15	11.97	3	0	11	11	
EU-04	IVEU04RC301	Pu-241	406								225.8293531		1.5	15	11.97	3	0	11	11	
EU-04	IVEU04RC301	Ra-226	5	2	2			0.87	0.825	0.06364	2.5	39.28371	1.5	14	11.97	3	0	10	8	
EU-04	IVEU04RC301	Ra-228	3.2								1.6		1.5	14	11.97	3	0	10	10	
EU-04	IVEU04RC301	Sb-125	0.462								0.231442714		1.5	15	11.97	3	0	11	11	
EU-04	IVEU04RC301	Sr-90	0.231	2	2			0.049	0.036	0.018385	1.960528741	106.63871	1.5	14	11.97	3	0	10	8	
EU-04	IVEU04RC301	Tc-99	0.25								48.16625994		1.5	15	11.97	3	0	11	11	
EU-04	IVEU04RC301	Th-228	3.2	2	2			0.82	0.705	0.162635	1.6	9.8380074	1.5	14	11.97	3	0	10	8	
EU-04	IVEU04RC301	Th-230	3.49	2	2			0.65	0.64	0.014142	1.909550267	135.02559	1.5	14	11.97	3	0	10	8	
EU-04	IVEU04RC301	Th-232	3.1	2	2			0.9	0.805	0.13435	1.699812707	12.652096	1.5	14	11.97	3	0	10	8	
EU-04	IVEU04RC301	Tritium (H-3)	2.28	2	2			0.027	0.0215	0.007778	1.345023403	172.92276	1.5	14	11.97	3	0	10	8	
EU-04	IVEU04RC301	U-234	4.01								2.483402446		1.5	14	11.97	3	0	10	10	
EU-04	IVEU04RC301	U-235	0.195	2	2			0.04	0.036	0.005657	0.098571969	17.425227	1.5	14	11.97	3	0	10	8	
EU-04	IVEU04RC301	U-238	2.6	2	2			0.72	0.71	0.014142	1.3	91.923882	1.5	14	11.97	3	0	10	8	11
EU-05	IVEU05RC101	Ac-228	3.2								1.6		1.5	14	0.10	1	0	1	1	
EU-05	IVEU05RC101	Am-241	1.87								0.983259209		1.5	15	0.10	1	0	1	1	
EU-05	IVEU05RC101	Ba-133	0.175								0.087668644		1.5	15	0.10	1	0	1	1	
EU-05	IVEU05RC101	C-14	0.456								139.7005115		1.5	15	0.10	1	0	1	1	
EU-05	IVEU05RC101	Cm-243/244	0.349								0.175489416		1.5	15	0.10	1	0	1	1	
EU-05	IVEU05RC101	Co-60	0.0361								0.018119848		1.5	15	0.10	1	0	1	1	
EU-05	IVEU05RC101	Cs-134	0.157								0.07919429		1.5	15	0.10	1	0	1	1	
EU-05	IVEU05RC101	Cs-137	0.48	2	2						0.24		1.5	14	0.10	1	0	1	0	
EU-05	IVEU05RC101	Eu-152	0.0416								0.020814406		1.5	15	0.10	1	0	1	1	
EU-05	IVEU05RC101	Eu-154	0.0499								0.024950155		1.5	15	0.10	1	0	1	1	
EU-05	IVEU05RC101	Eu-155	3.8								1.903322648		1.5	15	0.10	1	0	1	1	
EU-05	IVEU05RC101	Fe-55	2690								1461.911262		1.5	15	0.10	1	0	1	1	
EU-05	IVEU05RC101	I-129	0.596								1.262193866		1.5	15	0.10	1	0	1	1	
EU-05	IVEU05RC101	K-40	60	2	2			23.6	22.9	0.989949	30	30.304576	1.5	14	0.10	1	0	1	0	
EU-05	IVEU05RC101	Na-22	0.0865								0.043308929		1.5	15	0.10	1	0	1	1	
EU-05	IVEU05RC101	Ni-59	208								541.446433		1.5	15	0.10	1	0	1	1	
EU-05	IVEU05RC101	Ni-63	94.8								246.5901147		1.5	15	0.10	1	0	1	1	
EU-05	IVEU05RC101	Np-237	0.13								0.068047461		1.5	15	0.10	1	0	1	1	
EU-05	IVEU05RC101	Pb-210	5								2.5		1.5	14	0.10	1	0	1	1	

Table G-2
Radionuclide Data Gaps Calculation Summary
(Residential)

EU	SU	Analyte	Residential DCGL (piC/g)	Number of Valid Samples	Number of Detects	Number of Detection Uncertain	Number of Rejected Samples	Max Detected Result (piC/g)	Average (piC/g)	Std. Dev. (piC/g)	Delta Residential	Relative Shift	Test Shift	Statistically Required Number of Samples per Area Size	SU Acreage	SU Class	Remediation Test[a]	Risk Assessment Required Samples per SU	Risk Assessment Data Gap Rural Residential	Risk Assessment Radiological Samples per SU required
EU-05	IVEU05RC101	Pu-238	2.97								1.635548449		1.5	14	0.10	1	0	1	1	
EU-05	IVEU05RC101	Pu-239	2.59								1.430938981		1.5	14	0.10	1	0	1	1	
EU-05	IVEU05RC101	Pu-240	2.6								1.432213109		1.5	15	0.10	1	0	1	1	
EU-05	IVEU05RC101	Pu-241	406								225.8293531		1.5	15	0.10	1	0	1	1	
EU-05	IVEU05RC101	Ra-226	5	2	2			0.82	0.82		2.5		1.5	14	0.10	1	0	1	0	
EU-05	IVEU05RC101	Ra-228	3.2								1.6		1.5	14	0.10	1	0	1	1	
EU-05	IVEU05RC101	Sb-125	0.462								0.231442714		1.5	15	0.10	1	0	1	1	
EU-05	IVEU05RC101	Sr-90	0.231								1.960528741		1.5	14	0.10	1	0	1	1	
EU-05	IVEU05RC101	Tc-99	0.25								48.16625994		1.5	15	0.10	1	0	1	1	
EU-05	IVEU05RC101	Th-228	3.2								1.6		1.5	14	0.10	1	0	1	1	
EU-05	IVEU05RC101	Th-230	3.49								1.909550267		1.5	14	0.10	1	0	1	1	
EU-05	IVEU05RC101	Th-232	3.1								1.699812707		1.5	14	0.10	1	0	1	1	
EU-05	IVEU05RC101	Tritium (H-3)	2.28								1.345023403		1.5	14	0.10	1	0	1	1	
EU-05	IVEU05RC101	U-234	4.01								2.483402446		1.5	14	0.10	1	0	1	1	
EU-05	IVEU05RC101	U-235	0.195								0.098571969		1.5	14	0.10	1	0	1	1	
EU-05	IVEU05RC101	U-238	2.6								1.3		1.5	14	0.10	1	0	1	1	1
EU-05	IVEU05RC102	Ac-228	3.2								1.6		1.5	14	0.92	1	0	7	7	
EU-05	IVEU05RC102	Am-241	1.87								0.983259209		1.5	15	0.92	1	0	7	7	
EU-05	IVEU05RC102	Ba-133	0.175								0.087668644		1.5	15	0.92	1	0	7	7	
EU-05	IVEU05RC102	C-14	0.456								139.7005115		1.5	15	0.92	1	0	7	7	
EU-05	IVEU05RC102	Cm-243/244	0.349								0.175489416		1.5	15	0.92	1	0	7	7	
EU-05	IVEU05RC102	Co-60	0.0361	1	1			0.04	0.04		0.018119848		1.5	15	0.92	1	0	7	6	
EU-05	IVEU05RC102	Cs-134	0.157								0.07919429		1.5	15	0.92	1	0	7	7	
EU-05	IVEU05RC102	Cs-137	0.48	1	1			0.53	0.53		0.24		1.5	14	0.92	1	0	7	6	
EU-05	IVEU05RC102	Eu-152	0.0416								0.020814406		1.5	15	0.92	1	0	7	7	
EU-05	IVEU05RC102	Eu-154	0.0499								0.024950155		1.5	15	0.92	1	0	7	7	
EU-05	IVEU05RC102	Eu-155	3.8								1.903322648		1.5	15	0.92	1	0	7	7	
EU-05	IVEU05RC102	Fe-55	2690								1461.911262		1.5	15	0.92	1	0	7	7	
EU-05	IVEU05RC102	I-129	0.596								1.262193866		1.5	15	0.92	1	0	7	7	
EU-05	IVEU05RC102	K-40	60	1	1			20	20		30		1.5	14	0.92	1	0	7	6	
EU-05	IVEU05RC102	Na-22	0.0865								0.043308929		1.5	15	0.92	1	0	7	7	
EU-05	IVEU05RC102	Ni-59	208								541.446433		1.5	15	0.92	1	0	7	7	
EU-05	IVEU05RC102	Ni-63	94.8								246.5901147		1.5	15	0.92	1	0	7	7	
EU-05	IVEU05RC102	Np-237	0.13								0.068047461		1.5	15	0.92	1	0	7	7	
EU-05	IVEU05RC102	Pb-210	5								2.5		1.5	14	0.92	1	0	7	7	
EU-05	IVEU05RC102	Pu-238	2.97	1	1			0	0		1.635548449		1.5	14	0.92	1	0	7	6	
EU-05	IVEU05RC102	Pu-239	2.59								1.430938981		1.5	14	0.92	1	0	7	7	
EU-05	IVEU05RC102	Pu-240	2.6								1.432213109		1.5	15	0.92	1	0	7	7	
EU-05	IVEU05RC102	Pu-241	406								225.8293531		1.5	15	0.92	1	0	7	7	
EU-05	IVEU05RC102	Ra-226	5	1	1			0.88	0.88		2.5		1.5	14	0.92	1	0	7	6	
EU-05	IVEU05RC102	Ra-228	3.2								1.6		1.5	14	0.92	1	0	7	7	
EU-05	IVEU05RC102	Sb-125	0.462								0.231442714		1.5	15	0.92	1	0	7	7	
EU-05	IVEU05RC102	Sr-90	0.231	1	1			0.056	0.056		1.960528741		1.5	14	0.92	1	0	7	6	
EU-05	IVEU05RC102	Tc-99	0.25								48.16625994		1.5	15	0.92	1	0	7	7	
EU-05	IVEU05RC102	Th-228	3.2	1	1			1.1	1.1		1.6		1.5	14	0.92	1	0	7	6	
EU-05	IVEU05RC102	Th-230	3.49	1	1			0.79	0.79		1.909550267		1.5	14	0.92	1	0	7	6	
EU-05	IVEU05RC102	Th-232	3.1	1	1			1.1	1.1		1.699812707		1.5	14	0.92	1	0	7	6	
EU-05	IVEU05RC102	Tritium (H-3)	2.28								1.345023403		1.5	14	0.92	1	0	7	7	
EU-05	IVEU05RC102	U-234	4.01								2.483402446		1.5	14	0.92	1	0	7	7	
EU-05	IVEU05RC102	U-235	0.195	1	1			0.045	0.045		0.098571969		1.5	14	0.92	1	0	7	6	
EU-05	IVEU05RC102	U-238	2.6	1	1			0.76	0.76		1.3		1.5	14	0.92	1	0	7	6	7
EU-05	IVEU05RC201	Ac-228	3.2								1.6		1.5	14	0.20	2	0	1	1	
EU-05	IVEU05RC201	Am-241	1.87								0.983259209		1.5	15	0.20	2	0	1	1	
EU-05	IVEU05RC201	Ba-133	0.175								0.087668644		1.5	15	0.20	2	0	1	1	
EU-05	IVEU05RC201	C-14	0.456								139.7005115		1.5	15	0.20	2	0	1	1	
EU-05	IVEU05RC201	Cm-243/244	0.349								0.175489416		1.5	15	0.20	2	0	1	1	
EU-05	IVEU05RC201	Co-60	0.0361								0.018119848		1.5	15	0.20	2	0	1	1	

Table G-2
Radionuclide Data Gaps Calculation Summary
(Residential)

EU	SU	Analyte	Residential DCGL (piC/g)	Number of Valid Samples	Number of Detects	Number of Detection Uncertain	Number of Rejected Samples	Max Detected Result (piC/g)	Average (piC/g)	Std. Dev. (piC/g)	Delta Residential	Relative Shift	Test Shift	Statistically Required Number of Samples per Area Size	SU Acreage	SU Class	Remediation Test[a]	Risk Assessment Required Samples per SU	Risk Assessment Data Gap Rural Residential	Risk Assessment Radiological Samples per SU required
EU-05	IVEU05RC201	Cs-134	0.157								0.07919429		1.5	15	0.20	2	0	1	1	
EU-05	IVEU05RC201	Cs-137	0.48								0.24		1.5	14	0.20	2	0	1	1	
EU-05	IVEU05RC201	Eu-152	0.0416								0.020814406		1.5	15	0.20	2	0	1	1	
EU-05	IVEU05RC201	Eu-154	0.0499								0.024950155		1.5	15	0.20	2	0	1	1	
EU-05	IVEU05RC201	Eu-155	3.8								1.903322648		1.5	15	0.20	2	0	1	1	
EU-05	IVEU05RC201	Fe-55	2690								1461.911262		1.5	15	0.20	2	0	1	1	
EU-05	IVEU05RC201	I-129	0.596								1.262193866		1.5	15	0.20	2	0	1	1	
EU-05	IVEU05RC201	K-40	60								30		1.5	14	0.20	2	0	1	1	
EU-05	IVEU05RC201	Na-22	0.0865								0.043308929		1.5	15	0.20	2	0	1	1	
EU-05	IVEU05RC201	Ni-59	208								541.446433		1.5	15	0.20	2	0	1	1	
EU-05	IVEU05RC201	Ni-63	94.8								246.5901147		1.5	15	0.20	2	0	1	1	
EU-05	IVEU05RC201	Np-237	0.13								0.068047461		1.5	15	0.20	2	0	1	1	
EU-05	IVEU05RC201	Pb-210	5								2.5		1.5	14	0.20	2	0	1	1	
EU-05	IVEU05RC201	Pu-238	2.97								1.635548449		1.5	14	0.20	2	0	1	1	
EU-05	IVEU05RC201	Pu-239	2.59								1.430938981		1.5	14	0.20	2	0	1	1	
EU-05	IVEU05RC201	Pu-240	2.6								1.432213109		1.5	15	0.20	2	0	1	1	
EU-05	IVEU05RC201	Pu-241	406								225.8293531		1.5	15	0.20	2	0	1	1	
EU-05	IVEU05RC201	Ra-226	5								2.5		1.5	14	0.20	2	0	1	1	
EU-05	IVEU05RC201	Ra-228	3.2								1.6		1.5	14	0.20	2	0	1	1	
EU-05	IVEU05RC201	Sb-125	0.462								0.231442714		1.5	15	0.20	2	0	1	1	
EU-05	IVEU05RC201	Sr-90	0.231								1.960528741		1.5	14	0.20	2	0	1	1	
EU-05	IVEU05RC201	Tc-99	0.25								48.16625994		1.5	15	0.20	2	0	1	1	
EU-05	IVEU05RC201	Th-228	3.2								1.6		1.5	14	0.20	2	0	1	1	
EU-05	IVEU05RC201	Th-230	3.49								1.909550267		1.5	14	0.20	2	0	1	1	
EU-05	IVEU05RC201	Th-232	3.1								1.699812707		1.5	14	0.20	2	0	1	1	
EU-05	IVEU05RC201	Tritium (H-3)	2.28								1.345023403		1.5	14	0.20	2	0	1	1	
EU-05	IVEU05RC201	U-234	4.01								2.483402446		1.5	14	0.20	2	0	1	1	
EU-05	IVEU05RC201	U-235	0.195								0.098571969		1.5	14	0.20	2	0	1	1	
EU-05	IVEU05RC201	U-238	2.6								1.3		1.5	14	0.20	2	0	1	1	1
EU-05	IVEU05RC301	Ac-228	3.2								1.6		1.5	14	17.66	3	0	15	15	
EU-05	IVEU05RC301	Am-241	1.87								0.983259209		1.5	15	17.66	3	0	16	16	
EU-05	IVEU05RC301	Ba-133	0.175								0.087668644		1.5	15	17.66	3	0	16	16	
EU-05	IVEU05RC301	C-14	0.456								139.7005115		1.5	15	17.66	3	0	16	16	
EU-05	IVEU05RC301	Cm-243/244	0.349								0.175489416		1.5	15	17.66	3	0	16	16	
EU-05	IVEU05RC301	Co-60	0.0361								0.018119848		1.5	15	17.66	3	0	16	16	
EU-05	IVEU05RC301	Cs-134	0.157								0.07919429		1.5	15	17.66	3	0	16	16	
EU-05	IVEU05RC301	Cs-137	0.48	4	4			0.13	0.0975	0.045735	0.24	5.2476517	1.5	14	17.66	3	0	15	11	
EU-05	IVEU05RC301	Eu-152	0.0416								0.020814406		1.5	15	17.66	3	0	16	16	
EU-05	IVEU05RC301	Eu-154	0.0499								0.024950155		1.5	15	17.66	3	0	16	16	
EU-05	IVEU05RC301	Eu-155	3.8	2	2			0.11	0.075	0.049497	1.903322648	38.452924	1.5	15	17.66	3	0	16	14	
EU-05	IVEU05RC301	Fe-55	2690								1461.911262		1.5	15	17.66	3	0	16	16	
EU-05	IVEU05RC301	I-129	0.596								1.262193866		1.5	15	17.66	3	0	16	16	
EU-05	IVEU05RC301	K-40	60	4	4			23	20.5	1.732051	30	17.320508	1.5	14	17.66	3	0	15	11	
EU-05	IVEU05RC301	Na-22	0.0865								0.043308929		1.5	15	17.66	3	0	16	16	
EU-05	IVEU05RC301	Ni-59	208								541.446433		1.5	15	17.66	3	0	16	16	
EU-05	IVEU05RC301	Ni-63	94.8								246.5901147		1.5	15	17.66	3	0	16	16	
EU-05	IVEU05RC301	Np-237	0.13								0.068047461		1.5	15	17.66	3	0	16	16	
EU-05	IVEU05RC301	Pb-210	5								2.5		1.5	14	17.66	3	0	15	15	
EU-05	IVEU05RC301	Pu-238	2.97	4	2			-0.001	0.00125	0.002872	1.635548449	569.42488	1.5	14	17.66	3	0	15	11	
EU-05	IVEU05RC301	Pu-239	2.59								1.430938981		1.5	14	17.66	3	0	15	15	
EU-05	IVEU05RC301	Pu-240	2.6								1.432213109		1.5	15	17.66	3	0	16	16	
EU-05	IVEU05RC301	Pu-241	406								225.8293531		1.5	15	17.66	3	0	16	16	
EU-05	IVEU05RC301	Ra-226	5	4	4			1.4	1.0025	0.277654	2.5	9.0040167	1.5	14	17.66	3	0	15	11	
EU-05	IVEU05RC301	Ra-228	3.2								1.6		1.5	14	17.66	3	0	15	15	
EU-05	IVEU05RC301	Sb-125	0.462								0.231442714		1.5	15	17.66	3	0	16	16	
EU-05	IVEU05RC301	Sr-90	0.231	4	4			0.059	0.0365	0.018157	1.960528741	107.9781	1.5	14	17.66	3	0	15	11	
EU-05	IVEU05RC301	Tc-99	0.25								48.16625994		1.5	15	17.66	3	0	16	16	

Table G-2
Radionuclide Data Gaps Calculation Summary
(Residential)

EU	SU	Analyte	Residential DCGL (piC/g)	Number of Valid Samples	Number of Detects	Number of Detection Uncertain	Number of Rejected Samples	Max Detected Result (piC/g)	Average (piC/g)	Std. Dev. (piC/g)	Delta Residential	Relative Shift	Test Shift	Statistically Required Number of Samples per Area Size	SU Acreage	SU Class	Remediation Test[a]	Risk Assessment Required Samples per SU	Risk Assessment Data Gap Rural Residential	Risk Assessment Radiological Samples per SU required
EU-05	IVEU05RC301	Th-228	3.2	4	4			1.2	0.7775	0.332202	1.6	4.8163431	1.5	14	17.66	3	0	15	11	
EU-05	IVEU05RC301	Th-230	3.49	4	4			0.96	0.71	0.173013	1.909550267	11.037064	1.5	14	17.66	3	0	15	11	
EU-05	IVEU05RC301	Th-232	3.1	4	4			1.1	0.765	0.287228	1.699812707	5.9179882	1.5	14	17.66	3	0	15	11	
EU-05	IVEU05RC301	Tritium (H-3)	2.28	2	2			0.057	0.027	0.042426	1.345023403	31.702506	1.5	14	17.66	3	0	15	13	
EU-05	IVEU05RC301	U-234	4.01								2.483402446		1.5	14	17.66	3	0	15	15	
EU-05	IVEU05RC301	U-235	0.195	4	4			0.082	0.0455	0.024906	0.098571969	3.9576818	1.5	14	17.66	3	0	15	11	
EU-05	IVEU05RC301	U-238	2.6	4	4			1.4	0.94	0.332165	1.3	3.9137221	1.5	14	17.66	3	0	15	11	16
EU-06	IVEU06RC101	Ac-228	3.2	222	222			2.09	1.1898649	0.226357	1.6	7.0684771	3	8	4.99	1	0	20	0	
EU-06	IVEU06RC101	Am-241	1.87	233	231			0.14	0.0103588	0.032569	0.983259209	30.190321	3	11	4.99	1	0	28	0	
EU-06	IVEU06RC101	Ba-133	0.175								0.087668644		1.5	15	4.99	1	0	38	38	
EU-06	IVEU06RC101	C-14	0.456								139.7005115		1.5	15	4.99	1	0	38	38	
EU-06	IVEU06RC101	Cm-243/244	0.349								0.175489416		1.5	15	4.99	1	0	38	38	
EU-06	IVEU06RC101	Co-60	0.0361	233	233		12	0.076	0.0011923	0.027993	0.018119848	0.6472976	0.6472976	52	4.99	1	1	130	0	
EU-06	IVEU06RC101	Cs-134	0.157	245	232			0.11	0.0035922	0.035645	0.07919429	2.2217772	2.2217772	12	4.99	1	0	30	0	
EU-06	IVEU06RC101	Cs-137	0.48	280	267			5.84	0.3643613	0.705579	0.24	0.3401461	0.3401461	243	4.99	1	1	607	327	
EU-06	IVEU06RC101	Eu-152	0.0416	230	230		3	0.62	-0.02671	0.216895	0.020814406	0.0959653	0.0959653	#N/A	4.99	1	1	#N/A	#N/A	
EU-06	IVEU06RC101	Eu-154	0.0499	231	231		2	0.63	0.006174	0.204947	0.024950155	0.1217393	0.1217393	1620	4.99	1	1	4041	3810	
EU-06	IVEU06RC101	Eu-155	3.8								1.903322648		1.5	15	4.99	1	0	38	38	
EU-06	IVEU06RC101	Fe-55	2690								1461.911262		1.5	15	4.99	1	0	38	38	
EU-06	IVEU06RC101	I-129	0.596								1.262193866		1.5	15	4.99	1	0	38	38	
EU-06	IVEU06RC101	K-40	60	253	253			27.2	20.836482	2.429071	30	12.350398	3	8	4.99	1	0	20	0	
EU-06	IVEU06RC101	Na-22	0.0865	136	136			0.087	-7.35E-06	0.037355	0.043308929	1.159376	1.159376	21	4.99	1	0	53	0	
EU-06	IVEU06RC101	Ni-59	208								541.446433		1.5	15	4.99	1	0	38	38	
EU-06	IVEU06RC101	Ni-63	94.8								246.5901147		1.5	15	4.99	1	0	38	38	
EU-06	IVEU06RC101	Np-237	0.13								0.068047461		1.5	15	4.99	1	0	38	38	
EU-06	IVEU06RC101	Pb-210	5								2.5		1.5	14	4.99	1	0	35	35	
EU-06	IVEU06RC101	Pu-238	2.97	238	238			0.077	0.0030391	0.012638	1.635548449	129.41617	3	8	4.99	1	0	20	0	
EU-06	IVEU06RC101	Pu-239	2.59								1.430938981		1.5	14	4.99	1	0	35	35	
EU-06	IVEU06RC101	Pu-240	2.6								1.432213109		1.5	15	4.99	1	0	38	38	
EU-06	IVEU06RC101	Pu-241	406	233	232			4.9	-0.209206	1.329399	225.8293531	169.87322	3	11	4.99	1	0	28	0	
EU-06	IVEU06RC101	Ra-226	5	139	134		0	7.1	1.7858273	1.197715	2.5	2.0873087	2.0873087	10	4.99	1	0	25	0	
EU-06	IVEU06RC101	Ra-228	3.2	125	125			2.09	1.20816	0.270237	1.6	5.9207287	3	8	4.99	1	0	20	0	
EU-06	IVEU06RC101	Sb-125	0.462								0.231442714		1.5	15	4.99	1	0	38	38	
EU-06	IVEU06RC101	Sr-90	0.231	237	234			28.1	0.3779916	1.843535	1.960528741	1.0634619	1.5	14	4.99	1	1	35	0	
EU-06	IVEU06RC101	Tc-99	0.25								48.16625994		1.5	15	4.99	1	0	38	38	
EU-06	IVEU06RC101	Th-228	3.2	140	140			2.53	1.2400714	0.273229	1.6	5.8558991	3	8	4.99	1	0	20	0	
EU-06	IVEU06RC101	Th-230	3.49	140	140			1.64	0.9690714	0.237735	1.909550267	8.0322706	3	8	4.99	1	0	20	0	
EU-06	IVEU06RC101	Th-232	3.1	374	374			2.36	1.1851337	0.252278	1.699812707	6.7378469	3	8	4.99	1	0	20	0	
EU-06	IVEU06RC101	Tritium (H-3)	2.28								1.345023403		1.5	14	4.99	1	0	35	35	
EU-06	IVEU06RC101	U-234	4.01	233	233			9.6	0.9987897	0.664471	2.483402446	3.7374116	3	8	4.99	1	0	20	0	
EU-06	IVEU06RC101	U-235	0.195	237	236			0.73	0.0546793	0.057508	0.098571969	1.7140704	1.7140704	12	4.99	1	0	30	0	
EU-06	IVEU06RC101	U-238	2.6	252	252			8.6	0.9189603	0.60733	1.3	2.1405184	2.1405184	10	4.99	1	0	25	0	38
EU-06	IVEU06RC102	Ac-228	3.2								1.6		1.5	14	3.00	1	0	22	22	
EU-06	IVEU06RC102	Am-241	1.87								0.983259209		1.5	15	3.00	1	0	23	23	
EU-06	IVEU06RC102	Ba-133	0.175								0.087668644		1.5	15	3.00	1	0	23	23	
EU-06	IVEU06RC102	C-14	0.456								139.7005115		1.5	15	3.00	1	0	23	23	
EU-06	IVEU06RC102	Cm-243/244	0.349								0.175489416		1.5	15	3.00	1	0	23	23	
EU-06	IVEU06RC102	Co-60	0.0361								0.018119848		1.5	15	3.00	1	0	23	23	
EU-06	IVEU06RC102	Cs-134	0.157	1	1			0.03	0.03		0.07919429		1.5	15	3.00	1	0	23	22	
EU-06	IVEU06RC102	Cs-137	0.48	25	2			0.09	0.045036	0.013549	0.24	17.713569	3	8	3.00	1	0	13	0	
EU-06	IVEU06RC102	Eu-152	0.0416	8	8		14	2.84	1.31375	0.645909	0.020814406	0.032225	1.5	15	3.00	1	1	23	15	
EU-06	IVEU06RC102	Eu-154	0.0499								0.024950155		1.5	15	3.00	1	0	23	23	
EU-06	IVEU06RC102	Eu-155	3.8								1.903322648		1.5	15	3.00	1	0	23	23	
EU-06	IVEU06RC102	Fe-55	2690								1461.911262		1.5	15	3.00	1	0	23	23	
EU-06	IVEU06RC102	I-129	0.596								1.262193866		1.5	15	3.00	1	0	23	23	
EU-06	IVEU06RC102	K-40	60	3	3			23	21	2	30	15	1.5	14	3.00	1	0	22	19	
EU-06	IVEU06RC102	Na-22	0.0865								0.043308929		1.5	15	3.00	1	0	23	23	

Table G-2
Radionuclide Data Gaps Calculation Summary
(Residential)

EU	SU	Analyte	Residential DCGL (piC/g)	Number of Valid Samples	Number of Detects	Number of Detection Uncertain	Number of Rejected Samples	Max Detected Result (piC/g)	Average (piC/g)	Std. Dev. (piC/g)	Delta Residential	Relative Shift	Test Shift	Statistically Required Number of Samples per Area Size	SU Acreage	SU Class	Remediation Test[a]	Risk Assessment Required Samples per SU	Risk Assessment Data Gap Rural Residential	Risk Assessment Radiological Samples per SU required
EU-06	IVEU06RC102	Ni-59	208								541.446433		1.5	15	3.00	1	0	23	23	
EU-06	IVEU06RC102	Ni-63	94.8								246.5901147		1.5	15	3.00	1	0	23	23	
EU-06	IVEU06RC102	Np-237	0.13								0.068047461		1.5	15	3.00	1	0	23	23	
EU-06	IVEU06RC102	Pb-210	5								2.5		1.5	14	3.00	1	0	22	22	
EU-06	IVEU06RC102	Pu-238	2.97	3	3			0	0	0	1.635548449		1.5	14	3.00	1	0	22	19	
EU-06	IVEU06RC102	Pu-239	2.59								1.430938981		1.5	14	3.00	1	0	22	22	
EU-06	IVEU06RC102	Pu-240	2.6								1.432213109		1.5	15	3.00	1	0	23	23	
EU-06	IVEU06RC102	Pu-241	406								225.8293531		1.5	15	3.00	1	0	23	23	
EU-06	IVEU06RC102	Ra-226	5	3	3			0.91	0.8766667	0.057735	2.5	43.30127	1.5	14	3.00	1	0	22	19	
EU-06	IVEU06RC102	Ra-228	3.2								1.6		1.5	14	3.00	1	0	22	22	
EU-06	IVEU06RC102	Sb-125	0.462								0.231442714		1.5	15	3.00	1	0	23	23	
EU-06	IVEU06RC102	Sr-90	0.231	3	3			0.028	0.0196667	0.009074	1.960528741	216.06547	1.5	14	3.00	1	0	22	19	
EU-06	IVEU06RC102	Tc-99	0.25								48.16625994		1.5	15	3.00	1	0	23	23	
EU-06	IVEU06RC102	Th-228	3.2	3	3			1.4	1.2233333	0.225019	1.6	7.1105259	1.5	14	3.00	1	0	22	19	
EU-06	IVEU06RC102	Th-230	3.49	3	3			1.3	1.0233333	0.24379	1.909550267	7.8327822	1.5	14	3.00	1	0	22	19	
EU-06	IVEU06RC102	Th-232	3.1	3	3			1.2	1.1266667	0.127017	1.699812707	13.382554	1.5	14	3.00	1	0	22	19	
EU-06	IVEU06RC102	Tritium (H-3)	2.28								1.345023403		1.5	14	3.00	1	0	22	22	
EU-06	IVEU06RC102	U-234	4.01								2.483402446		1.5	14	3.00	1	0	22	22	
EU-06	IVEU06RC102	U-235	0.195	3	3			0.052	0.0446667	0.011846	0.098571969	8.3209519	1.5	14	3.00	1	0	22	19	
EU-06	IVEU06RC102	U-238	2.6	3	3			0.98	0.93	0.043589	1.3	29.824045	1.5	14	3.00	1	0	22	19	23
EU-06	IVEU06RC103	Ac-228	3.2								1.6		1.5	14	3.46	1	0	25	25	
EU-06	IVEU06RC103	Am-241	1.87	19	19			0.018	-0.001263	0.007915	0.983259209	124.22543	3	11	3.46	1	0	20	1	
EU-06	IVEU06RC103	Ba-133	0.175								0.087668644		1.5	15	3.46	1	0	26	26	
EU-06	IVEU06RC103	C-14	0.456								139.7005115		1.5	15	3.46	1	0	26	26	
EU-06	IVEU06RC103	Cm-243/244	0.349	19	19			0.026	0.0022653	0.006958	0.175489416	25.220131	3	11	3.46	1	0	20	1	
EU-06	IVEU06RC103	Co-60	0.0361	37	37			0.0071	0.0004649	0.003572	0.018119848	5.0724493	3	11	3.46	1	0	20	0	
EU-06	IVEU06RC103	Cs-134	0.157	37	37			0.007	-0.020032	0.021073	0.07919429	3.7580654	3	11	3.46	1	0	20	0	
EU-06	IVEU06RC103	Cs-137	0.48	40	40			0.746	0.04685	0.140849	0.24	1.7039481	1.7039481	12	3.46	1	0	21	0	
EU-06	IVEU06RC103	Eu-152	0.0416	37	37			0.024	-0.004838	0.014739	0.020814406	1.4121583	1.4121583	16	3.46	1	0	28	0	
EU-06	IVEU06RC103	Eu-154	0.0499	37	37			0.03	0.0010541	0.017602	0.024950155	1.4174615	1.4174615	16	3.46	1	0	28	0	
EU-06	IVEU06RC103	Eu-155	3.8								1.903322648		1.5	15	3.46	1	0	26	26	
EU-06	IVEU06RC103	Fe-55	2690	19	19			6	-2.463158	2.640962	1461.911262	553.55263	3	11	3.46	1	0	20	1	
EU-06	IVEU06RC103	I-129	0.596								1.262193866		1.5	15	3.46	1	0	26	26	
EU-06	IVEU06RC103	K-40	60	39	39			27.72	22.066667	1.685452	30	17.799378	3	8	3.46	1	0	14	0	
EU-06	IVEU06RC103	Na-22	0.0865	37	37			0.014	0.0004189	0.006723	0.043308929	6.4416232	3	11	3.46	1	0	20	0	
EU-06	IVEU06RC103	Ni-59	208	19	19			720	-254.7368	480.0274	541.446433	1.127949	1.127949	21	3.46	1	1	37	18	
EU-06	IVEU06RC103	Ni-63	94.8	19	19			2.1	0.1736842	0.910337	246.5901147	270.87783	3	11	3.46	1	0	20	1	
EU-06	IVEU06RC103	Np-237	0.13								0.068047461		1.5	15	3.46	1	0	26	26	
EU-06	IVEU06RC103	Pb-210	5								2.5		1.5	14	3.46	1	0	25	25	
EU-06	IVEU06RC103	Pu-238	2.97	20	20			0.012	-0.000615	0.003267	1.635548449	500.61096	3	8	3.46	1	0	14	0	
EU-06	IVEU06RC103	Pu-239	2.59								1.430938981		1.5	14	3.46	1	0	25	25	
EU-06	IVEU06RC103	Pu-240	2.6								1.432213109		1.5	15	3.46	1	0	26	26	
EU-06	IVEU06RC103	Pu-241	406	19	19			3.2	-1.083684	2.534419	225.8293531	89.104976	3	11	3.46	1	0	20	1	
EU-06	IVEU06RC103	Ra-226	5	1	1			0.62	0.62		2.5		1.5	14	3.46	1	0	25	24	
EU-06	IVEU06RC103	Ra-228	3.2								1.6		1.5	14	3.46	1	0	25	25	
EU-06	IVEU06RC103	Sb-125	0.462								0.231442714		1.5	15	3.46	1	0	26	26	
EU-06	IVEU06RC103	Sr-90	0.231	20	20			0.039	-0.0012	0.026704	1.960528741	73.416417	3	8	3.46	1	0	14	0	
EU-06	IVEU06RC103	Tc-99	0.25								48.16625994		1.5	15	3.46	1	0	26	26	
EU-06	IVEU06RC103	Th-228	3.2	20	19			0.98	0.106	0.323458	1.6	4.946542	3	8	3.46	1	0	14	0	
EU-06	IVEU06RC103	Th-230	3.49	20	20			0.85	0.199	0.200604	1.909550267	9.5189873	3	8	3.46	1	0	14	0	
EU-06	IVEU06RC103	Th-232	3.1	20	20			1.08	0.2169	0.253824	1.699812707	6.6968274	3	8	3.46	1	0	14	0	
EU-06	IVEU06RC103	Tritium (H-3)	2.28	19	19			1	0.0736842	0.409393	1.345023403	3.2854117	3	8	3.46	1	0	14	0	
EU-06	IVEU06RC103	U-234	4.01	19	19			0.91	0.5684737	0.152542	2.483402446	16.280091	3	8	3.46	1	0	14	0	
EU-06	IVEU06RC103	U-235	0.195	20	20			0.101	0.05625	0.023697	0.098571969	4.1596148	3	8	3.46	1	0	14	0	
EU-06	IVEU06RC103	U-238	2.6	20	20			0.87	0.5534	0.161954	1.3	8.0269711	3	8	3.46	1	0	14	0	26
EU-06	IVEU06RC104	Ac-228	3.2	39	39			1.34	1.0411026	0.204488	1.6	7.8244235	3	8	0.77	1	0	4	0	
EU-06	IVEU06RC104	Am-241	1.87	39	39			0.86	0.0195256	0.147325	0.983259209	6.6740924	3	11	0.77	1	0	5	0	

Table G-2
Radionuclide Data Gaps Calculation Summary
(Residential)

EU	SU	Analyte	Residential DCGL (piC/g)	Number of Valid Samples	Number of Detects	Number of Detection Uncertain	Number of Rejected Samples	Max Detected Result (piC/g)	Average (piC/g)	Std. Dev. (piC/g)	Delta Residential	Relative Shift	Test Shift	Statistically Required Number of Samples per Area Size	SU Acreage	SU Class	Remediation Test[a]	Risk Assessment Required Samples per SU	Risk Assessment Data Gap Rural Residential	Risk Assessment Radiological Samples per SU required
EU-06	IVEU06RC104	Ba-133	0.175								0.087668644		1.5	15	0.77	1	0	6	6	
EU-06	IVEU06RC104	C-14	0.456								139.7005115		1.5	15	0.77	1	0	6	6	
EU-06	IVEU06RC104	Cm-243/244	0.349								0.175489416		1.5	15	0.77	1	0	6	6	
EU-06	IVEU06RC104	Co-60	0.0361	39	39			0.045	0.0028718	0.023998	0.018119848	0.7550565	0.7550565	40	0.77	1	1	16	0	
EU-06	IVEU06RC104	Cs-134	0.157	39	39			0.027	0.0012154	0.014679	0.07919429	5.3952336	3	11	0.77	1	0	5	0	
EU-06	IVEU06RC104	Cs-137	0.48	39	39			0.05	-0.000657	0.019644	0.24	12.217762	3	8	0.77	1	0	4	0	
EU-06	IVEU06RC104	Eu-152	0.0416	39	39			0.091	-0.016597	0.046932	0.020814406	0.4435013	0.4435013	107	0.77	1	1	42	3	
EU-06	IVEU06RC104	Eu-154	0.0499	39	39			0.23	-0.000462	0.141473	0.024950155	0.17636	0.17636	1620	0.77	1	1	626	587	
EU-06	IVEU06RC104	Eu-155	3.8								1.903322648		1.5	15	0.77	1	0	6	6	
EU-06	IVEU06RC104	Fe-55	2690								1461.911262		1.5	15	0.77	1	0	6	6	
EU-06	IVEU06RC104	I-129	0.596								1.262193866		1.5	15	0.77	1	0	6	6	
EU-06	IVEU06RC104	K-40	60	39	39			23.4	20.279487	1.423705	30	21.071778	3	8	0.77	1	0	4	0	
EU-06	IVEU06RC104	Na-22	0.0865								0.043308929		1.5	15	0.77	1	0	6	6	
EU-06	IVEU06RC104	Ni-59	208								541.446433		1.5	15	0.77	1	0	6	6	
EU-06	IVEU06RC104	Ni-63	94.8								246.5901147		1.5	15	0.77	1	0	6	6	
EU-06	IVEU06RC104	Np-237	0.13								0.068047461		1.5	15	0.77	1	0	6	6	
EU-06	IVEU06RC104	Pb-210	5								2.5		1.5	14	0.77	1	0	6	6	
EU-06	IVEU06RC104	Pu-238	2.97	39	39			0.025	0.0018538	0.010836	1.635548449	150.93826	3	8	0.77	1	0	4	0	
EU-06	IVEU06RC104	Pu-239	2.59								1.430938981		1.5	14	0.77	1	0	6	6	
EU-06	IVEU06RC104	Pu-240	2.6								1.432213109		1.5	15	0.77	1	0	6	6	
EU-06	IVEU06RC104	Pu-241	406	39	38			1.2	0.3594872	0.601533	225.8293531	375.42311	3	11	0.77	1	0	5	0	
EU-06	IVEU06RC104	Ra-226	5								2.5		1.5	14	0.77	1	0	6	6	
EU-06	IVEU06RC104	Ra-228	3.2								1.6		1.5	14	0.77	1	0	6	6	
EU-06	IVEU06RC104	Sb-125	0.462								0.231442714		1.5	15	0.77	1	0	6	6	
EU-06	IVEU06RC104	Sr-90	0.231	39	39			0.38	0.0688974	0.176257	1.960528741	11.123156	3	8	0.77	1	1	4	0	
EU-06	IVEU06RC104	Tc-99	0.25								48.16625994		1.5	15	0.77	1	0	6	6	
EU-06	IVEU06RC104	Th-228	3.2								1.6		1.5	14	0.77	1	0	6	6	
EU-06	IVEU06RC104	Th-230	3.49								1.909550267		1.5	14	0.77	1	0	6	6	
EU-06	IVEU06RC104	Th-232	3.1	39	39			1.4	1.0766667	0.126851	1.699812707	13.400052	3	8	0.77	1	0	4	0	
EU-06	IVEU06RC104	Tritium (H-3)	2.28								1.345023403		1.5	14	0.77	1	0	6	6	
EU-06	IVEU06RC104	U-234	4.01	39	39			1.81	0.8305128	0.222509	2.483402446	11.160908	3	8	0.77	1	0	4	0	
EU-06	IVEU06RC104	U-235	0.195	39	39			0.08	0.0342564	0.020997	0.098571969	4.6945426	3	8	0.77	1	0	4	0	
EU-06	IVEU06RC104	U-238	2.6	39	39			1.51	0.8361538	0.182376	1.3	7.1281172	3	8	0.77	1	0	4	0	6
EU-06	IVEU06RC301	Ac-228	3.2								1.6		1.5	14	5.86	3	0	5	5	
EU-06	IVEU06RC301	Am-241	1.87								0.983259209		1.5	15	5.86	3	0	6	6	
EU-06	IVEU06RC301	Ba-133	0.175								0.087668644		1.5	15	5.86	3	0	6	6	
EU-06	IVEU06RC301	C-14	0.456								139.7005115		1.5	15	5.86	3	0	6	6	
EU-06	IVEU06RC301	Cm-243/244	0.349								0.175489416		1.5	15	5.86	3	0	6	6	
EU-06	IVEU06RC301	Co-60	0.0361								0.018119848		1.5	15	5.86	3	0	6	6	
EU-06	IVEU06RC301	Cs-134	0.157								0.07919429		1.5	15	5.86	3	0	6	6	
EU-06	IVEU06RC301	Cs-137	0.48								0.24		1.5	14	5.86	3	0	5	5	
EU-06	IVEU06RC301	Eu-152	0.0416								0.020814406		1.5	15	5.86	3	0	6	6	
EU-06	IVEU06RC301	Eu-154	0.0499								0.024950155		1.5	15	5.86	3	0	6	6	
EU-06	IVEU06RC301	Eu-155	3.8								1.903322648		1.5	15	5.86	3	0	6	6	
EU-06	IVEU06RC301	Fe-55	2690								1461.911262		1.5	15	5.86	3	0	6	6	
EU-06	IVEU06RC301	I-129	0.596								1.262193866		1.5	15	5.86	3	0	6	6	
EU-06	IVEU06RC301	K-40	60								30		1.5	14	5.86	3	0	5	5	
EU-06	IVEU06RC301	Na-22	0.0865								0.043308929		1.5	15	5.86	3	0	6	6	
EU-06	IVEU06RC301	Ni-59	208								541.446433		1.5	15	5.86	3	0	6	6	
EU-06	IVEU06RC301	Ni-63	94.8								246.5901147		1.5	15	5.86	3	0	6	6	
EU-06	IVEU06RC301	Np-237	0.13								0.068047461		1.5	15	5.86	3	0	6	6	
EU-06	IVEU06RC301	Pb-210	5								2.5		1.5	14	5.86	3	0	5	5	
EU-06	IVEU06RC301	Pu-238	2.97								1.635548449		1.5	14	5.86	3	0	5	5	
EU-06	IVEU06RC301	Pu-239	2.59								1.430938981		1.5	14	5.86	3	0	5	5	
EU-06	IVEU06RC301	Pu-240	2.6								1.432213109		1.5	15	5.86	3	0	6	6	
EU-06	IVEU06RC301	Pu-241	406								225.8293531		1.5	15	5.86	3	0	6	6	
EU-06	IVEU06RC301	Ra-226	5								2.5		1.5	14	5.86	3	0	5	5	

Table G-2
Radionuclide Data Gaps Calculation Summary
(Residential)

EU	SU	Analyte	Residential DCGL (piC/g)	Number of Valid Samples	Number of Detects	Number of Detection Uncertain	Number of Rejected Samples	Max Detected Result (piC/g)	Average (piC/g)	Std. Dev. (piC/g)	Delta Residential	Relative Shift	Test Shift	Statistically Required Number of Samples per Area Size	SU Acreage	SU Class	Remediation Test[a]	Risk Assessment Required Samples per SU	Risk Assessment Data Gap Rural Residential	Risk Assessment Radiological Samples per SU required
EU-06	IVEU06RC301	Ra-228	3.2								1.6		1.5	14	5.86	3	0	5	5	
EU-06	IVEU06RC301	Sb-125	0.462								0.231442714		1.5	15	5.86	3	0	6	6	
EU-06	IVEU06RC301	Sr-90	0.231								1.960528741		1.5	14	5.86	3	0	5	5	
EU-06	IVEU06RC301	Tc-99	0.25								48.16625994		1.5	15	5.86	3	0	6	6	
EU-06	IVEU06RC301	Th-228	3.2								1.6		1.5	14	5.86	3	0	5	5	
EU-06	IVEU06RC301	Th-230	3.49								1.909550267		1.5	14	5.86	3	0	5	5	
EU-06	IVEU06RC301	Th-232	3.1								1.699812707		1.5	14	5.86	3	0	5	5	
EU-06	IVEU06RC301	Tritium (H-3)	2.28								1.345023403		1.5	14	5.86	3	0	5	5	
EU-06	IVEU06RC301	U-234	4.01								2.483402446		1.5	14	5.86	3	0	5	5	
EU-06	IVEU06RC301	U-235	0.195								0.098571969		1.5	14	5.86	3	0	5	5	
EU-06	IVEU06RC301	U-238	2.6								1.3		1.5	14	5.86	3	0	5	5	6
EU-07	IVEU07RC101	Ac-228	3.2								1.6		1.5	14	4.77	1	0	34	34	
EU-07	IVEU07RC101	Am-241	1.87	22	21			0.18	0.0509545	0.124486	0.983259209	7.8985658	3	11	4.77	1	0	27	5	
EU-07	IVEU07RC101	Ba-133	0.175								0.087668644		1.5	15	4.77	1	0	36	36	
EU-07	IVEU07RC101	C-14	0.456								139.7005115		1.5	15	4.77	1	0	36	36	
EU-07	IVEU07RC101	Cm-243/244	0.349								0.175489416		1.5	15	4.77	1	0	36	36	
EU-07	IVEU07RC101	Co-60	0.0361	1	1		12	0.04	0.04		0.018119848		1.5	15	4.77	1	0	36	35	
EU-07	IVEU07RC101	Cs-134	0.157	13	1			0.04	0.0723077	0.009707	0.07919429	8.1582592	3	11	4.77	1	0	27	14	
EU-07	IVEU07RC101	Cs-137	0.48	58	43			2.93	0.4364224	0.615021	0.24	0.3902307	0.3902307	243	4.77	1	1	580	522	
EU-07	IVEU07RC101	Eu-152	0.0416								0.020814406		1.5	15	4.77	1	0	36	36	
EU-07	IVEU07RC101	Eu-154	0.0499								0.024950155		1.5	15	4.77	1	0	36	36	
EU-07	IVEU07RC101	Eu-155	3.8								1.903322648		1.5	15	4.77	1	0	36	36	
EU-07	IVEU07RC101	Fe-55	2690								1461.911262		1.5	15	4.77	1	0	36	36	
EU-07	IVEU07RC101	I-129	0.596								1.262193866		1.5	15	4.77	1	0	36	36	
EU-07	IVEU07RC101	K-40	60	34	34			24.27	18.385	2.864011	30	10.47482	3	8	4.77	1	0	20	0	
EU-07	IVEU07RC101	Na-22	0.0865								0.043308929		1.5	15	4.77	1	0	36	36	
EU-07	IVEU07RC101	Ni-59	208								541.446433		1.5	15	4.77	1	0	36	36	
EU-07	IVEU07RC101	Ni-63	94.8								246.5901147		1.5	15	4.77	1	0	36	36	
EU-07	IVEU07RC101	Np-237	0.13								0.068047461		1.5	15	4.77	1	0	36	36	
EU-07	IVEU07RC101	Pb-210	5								2.5		1.5	14	4.77	1	0	34	34	
EU-07	IVEU07RC101	Pu-238	2.97	42	41			0.16	0.0143483	0.032277	1.635548449	50.672455	3	8	4.77	1	0	20	0	
EU-07	IVEU07RC101	Pu-239	2.59								1.430938981		1.5	14	4.77	1	0	34	34	
EU-07	IVEU07RC101	Pu-240	2.6								1.432213109		1.5	15	4.77	1	0	36	36	
EU-07	IVEU07RC101	Pu-241	406								225.8293531		1.5	15	4.77	1	0	36	36	
EU-07	IVEU07RC101	Ra-226	5	22	22			2.16	0.9695	0.392234	2.5	6.3737544	3	8	4.77	1	0	20	0	
EU-07	IVEU07RC101	Ra-228	3.2	11	11			2.87	1.56	0.561818	1.6	2.8478949	2.8478949	8	4.77	1	0	20	9	
EU-07	IVEU07RC101	Sb-125	0.462								0.231442714		1.5	15	4.77	1	0	36	36	
EU-07	IVEU07RC101	Sr-90	0.231	33	33			3.08	0.2340303	0.570281	1.960528741	3.4378264	1.5	14	4.77	1	1	34	1	
EU-07	IVEU07RC101	Tc-99	0.25								48.16625994		1.5	15	4.77	1	0	36	36	
EU-07	IVEU07RC101	Th-228	3.2	44	44			2.69	1.3488409	0.459015	1.6	3.4857236	3	8	4.77	1	0	20	0	
EU-07	IVEU07RC101	Th-230	3.49	33	33			2.7	1.1875758	0.544025	1.909550267	3.5100444	3	8	4.77	1	0	20	0	
EU-07	IVEU07RC101	Th-232	3.1	56	56			2.87	1.1242857	0.41125	1.699812707	4.1332808	3	8	4.77	1	0	20	0	
EU-07	IVEU07RC101	Tritium (H-3)	2.28	4	4			-0.031	-0.049	0.02953	1.345023403	45.54824	1.5	14	4.77	1	0	34	30	
EU-07	IVEU07RC101	U-234	4.01	22	22			1.71	1.1054545	0.338452	2.483402446	7.3375313	3	8	4.77	1	0	20	0	
EU-07	IVEU07RC101	U-235	0.195	22	22			0.167	0.0646667	0.046168	0.098571969	2.1350514	2.1350514	10	4.77	1	0	24	2	
EU-07	IVEU07RC101	U-238	2.6	56	56			3.56	1.0551852	0.618052	1.3	2.1033845	2.1033845	10	4.77	1	0	24	0	36
EU-07	IVEU07RC201	Ac-228	3.2								1.6		1.5	14	1.24	2	0	2	2	
EU-07	IVEU07RC201	Am-241	1.87								0.983259209		1.5	15	1.24	2	0	2	2	
EU-07	IVEU07RC201	Ba-133	0.175								0.087668644		1.5	15	1.24	2	0	2	2	
EU-07	IVEU07RC201	C-14	0.456								139.7005115		1.5	15	1.24	2	0	2	2	
EU-07	IVEU07RC201	Cm-243/244	0.349								0.175489416		1.5	15	1.24	2	0	2	2	
EU-07	IVEU07RC201	Co-60	0.0361								0.018119848		1.5	15	1.24	2	0	2	2	
EU-07	IVEU07RC201	Cs-134	0.157								0.07919429		1.5	15	1.24	2	0	2	2	
EU-07	IVEU07RC201	Cs-137	0.48	6	2			0.53	0.12975	0.196714	0.24	1.2200473	1.5	14	1.24	2	0	2	0	
EU-07	IVEU07RC201	Eu-152	0.0416				4				0.020814406		1.5	15	1.24	2	0	2	2	
EU-07	IVEU07RC201	Eu-154	0.0499								0.024950155		1.5	15	1.24	2	0	2	2	
EU-07	IVEU07RC201	Eu-155	3.8								1.903322648		1.5	15	1.24	2	0	2	2	

Table G-2
Radionuclide Data Gaps Calculation Summary
(Residential)

EU	SU	Analyte	Residential DCGL (piC/g)	Number of Valid Samples	Number of Detects	Number of Detection Uncertain	Number of Rejected Samples	Max Detected Result (piC/g)	Average (piC/g)	Std. Dev. (piC/g)	Delta Residential	Relative Shift	Test Shift	Statistically Required Number of Samples per Area Size	SU Acreage	SU Class	Remediation Test[a]	Risk Assessment Required Samples per SU	Risk Assessment Data Gap Rural Residential	Risk Assessment Radiological Samples per SU required
EU-07	IVEU07RC201	Fe-55	2690								1461.911262		1.5	15	1.24	2	0	2	2	
EU-07	IVEU07RC201	I-129	0.596								1.262193866		1.5	15	1.24	2	0	2	2	
EU-07	IVEU07RC201	K-40	60	2	2			20	19.5	0.707107	30	42.426407	1.5	14	1.24	2	0	2	0	
EU-07	IVEU07RC201	Na-22	0.0865								0.043308929		1.5	15	1.24	2	0	2	2	
EU-07	IVEU07RC201	Ni-59	208								541.446433		1.5	15	1.24	2	0	2	2	
EU-07	IVEU07RC201	Ni-63	94.8								246.5901147		1.5	15	1.24	2	0	2	2	
EU-07	IVEU07RC201	Np-237	0.13								0.068047461		1.5	15	1.24	2	0	2	2	
EU-07	IVEU07RC201	Pb-210	5								2.5		1.5	14	1.24	2	0	2	2	
EU-07	IVEU07RC201	Pu-238	2.97	2	2			0	-0.0005	0.000707	1.635548449	2313.0148	1.5	14	1.24	2	0	2	0	
EU-07	IVEU07RC201	Pu-239	2.59								1.430938981		1.5	14	1.24	2	0	2	2	
EU-07	IVEU07RC201	Pu-240	2.6								1.432213109		1.5	15	1.24	2	0	2	2	
EU-07	IVEU07RC201	Pu-241	406								225.8293531		1.5	15	1.24	2	0	2	2	
EU-07	IVEU07RC201	Ra-226	5	2	2			0.86	0.84	0.028284	2.5	88.388348	1.5	14	1.24	2	0	2	0	
EU-07	IVEU07RC201	Ra-228	3.2								1.6		1.5	14	1.24	2	0	2	2	
EU-07	IVEU07RC201	Sb-125	0.462								0.231442714		1.5	15	1.24	2	0	2	2	
EU-07	IVEU07RC201	Sr-90	0.231	2	2			0.076	0.046	0.042426	1.960528741	46.210106	1.5	14	1.24	2	0	2	0	
EU-07	IVEU07RC201	Tc-99	0.25								48.16625994		1.5	15	1.24	2	0	2	2	
EU-07	IVEU07RC201	Th-228	3.2	2	2			0.71	0.69	0.028284	1.6	56.568542	1.5	14	1.24	2	0	2	0	
EU-07	IVEU07RC201	Th-230	3.49	2	2			0.59	0.59	0	1.909550267		1.5	14	1.24	2	0	2	0	
EU-07	IVEU07RC201	Th-232	3.1	2	2			0.76	0.75	0.014142	1.699812707	120.19491	1.5	14	1.24	2	0	2	0	
EU-07	IVEU07RC201	Tritium (H-3)	2.28	2	2			0.024	0.024	0	1.345023403		1.5	14	1.24	2	0	2	0	
EU-07	IVEU07RC201	U-234	4.01								2.483402446		1.5	14	1.24	2	0	2	2	
EU-07	IVEU07RC201	U-235	0.195	2	2			0.043	0.0395	0.00495	0.098571969	19.914545	1.5	14	1.24	2	0	2	0	
EU-07	IVEU07RC201	U-238	2.6	2	2			0.78	0.7	0.113137	1.3	11.490485	1.5	14	1.24	2	0	2	0	2
EU-07	IVEU07RC202	Ac-228	3.2								1.6		1.5	14	3.66	2	0	6	6	
EU-07	IVEU07RC202	Am-241	1.87								0.983259209		1.5	15	3.66	2	0	6	6	
EU-07	IVEU07RC202	Ba-133	0.175								0.087668644		1.5	15	3.66	2	0	6	6	
EU-07	IVEU07RC202	C-14	0.456								139.7005115		1.5	15	3.66	2	0	6	6	
EU-07	IVEU07RC202	Cm-243/244	0.349								0.175489416		1.5	15	3.66	2	0	6	6	
EU-07	IVEU07RC202	Co-60	0.0361								0.018119848		1.5	15	3.66	2	0	6	6	
EU-07	IVEU07RC202	Cs-134	0.157								0.07919429		1.5	15	3.66	2	0	6	6	
EU-07	IVEU07RC202	Cs-137	0.48								0.24		1.5	14	3.66	2	0	6	6	
EU-07	IVEU07RC202	Eu-152	0.0416								0.020814406		1.5	15	3.66	2	0	6	6	
EU-07	IVEU07RC202	Eu-154	0.0499								0.024950155		1.5	15	3.66	2	0	6	6	
EU-07	IVEU07RC202	Eu-155	3.8								1.903322648		1.5	15	3.66	2	0	6	6	
EU-07	IVEU07RC202	Fe-55	2690								1461.911262		1.5	15	3.66	2	0	6	6	
EU-07	IVEU07RC202	I-129	0.596								1.262193866		1.5	15	3.66	2	0	6	6	
EU-07	IVEU07RC202	K-40	60								30		1.5	14	3.66	2	0	6	6	
EU-07	IVEU07RC202	Na-22	0.0865								0.043308929		1.5	15	3.66	2	0	6	6	
EU-07	IVEU07RC202	Ni-59	208								541.446433		1.5	15	3.66	2	0	6	6	
EU-07	IVEU07RC202	Ni-63	94.8								246.5901147		1.5	15	3.66	2	0	6	6	
EU-07	IVEU07RC202	Np-237	0.13								0.068047461		1.5	15	3.66	2	0	6	6	
EU-07	IVEU07RC202	Pb-210	5								2.5		1.5	14	3.66	2	0	6	6	
EU-07	IVEU07RC202	Pu-238	2.97								1.635548449		1.5	14	3.66	2	0	6	6	
EU-07	IVEU07RC202	Pu-239	2.59								1.430938981		1.5	14	3.66	2	0	6	6	
EU-07	IVEU07RC202	Pu-240	2.6								1.432213109		1.5	15	3.66	2	0	6	6	
EU-07	IVEU07RC202	Pu-241	406								225.8293531		1.5	15	3.66	2	0	6	6	
EU-07	IVEU07RC202	Ra-226	5								2.5		1.5	14	3.66	2	0	6	6	
EU-07	IVEU07RC202	Ra-228	3.2								1.6		1.5	14	3.66	2	0	6	6	
EU-07	IVEU07RC202	Sb-125	0.462								0.231442714		1.5	15	3.66	2	0	6	6	
EU-07	IVEU07RC202	Sr-90	0.231								1.960528741		1.5	14	3.66	2	0	6	6	
EU-07	IVEU07RC202	Tc-99	0.25								48.16625994		1.5	15	3.66	2	0	6	6	
EU-07	IVEU07RC202	Th-228	3.2								1.6		1.5	14	3.66	2	0	6	6	
EU-07	IVEU07RC202	Th-230	3.49								1.909550267		1.5	14	3.66	2	0	6	6	
EU-07	IVEU07RC202	Th-232	3.1								1.699812707		1.5	14	3.66	2	0	6	6	
EU-07	IVEU07RC202	Tritium (H-3)	2.28								1.345023403		1.5	14	3.66	2	0	6	6	
EU-07	IVEU07RC202	U-234	4.01								2.483402446		1.5	14	3.66	2	0	6	6	

Table G-2
Radionuclide Data Gaps Calculation Summary
(Residential)

EU	SU	Analyte	Residential DCGL (piC/g)	Number of Valid Samples	Number of Detects	Number of Detection Uncertain	Number of Rejected Samples	Max Detected Result (piC/g)	Average (piC/g)	Std. Dev. (piC/g)	Delta Residential	Relative Shift	Test Shift	Statistically Required Number of Samples per Area Size	SU Acreage	SU Class	Remediation Test[a]	Risk Assessment Required Samples per SU	Risk Assessment Data Gap Rural Residential	Risk Assessment Radiological Samples per SU required
EU-07	IVEU07RC202	U-235	0.195								0.098571969		1.5	14	3.66	2	0	6	6	
EU-07	IVEU07RC202	U-238	2.6								1.3		1.5	14	3.66	2	0	6	6	6
EU-07	IVEU07RC301	Ac-228	3.2								1.6		1.5	14	6.45	3	0	6	6	
EU-07	IVEU07RC301	Am-241	1.87								0.983259209		1.5	15	6.45	3	0	6	6	
EU-07	IVEU07RC301	Ba-133	0.175								0.087668644		1.5	15	6.45	3	0	6	6	
EU-07	IVEU07RC301	C-14	0.456								139.7005115		1.5	15	6.45	3	0	6	6	
EU-07	IVEU07RC301	Cm-243/244	0.349								0.175489416		1.5	15	6.45	3	0	6	6	
EU-07	IVEU07RC301	Co-60	0.0361								0.018119848		1.5	15	6.45	3	0	6	6	
EU-07	IVEU07RC301	Cs-134	0.157								0.07919429		1.5	15	6.45	3	0	6	6	
EU-07	IVEU07RC301	Cs-137	0.48	2	1			0.19	0.1	0.127279	0.24	1.8856181	1.5	14	6.45	3	0	6	4	
EU-07	IVEU07RC301	Eu-152	0.0416								0.020814406		1.5	15	6.45	3	0	6	6	
EU-07	IVEU07RC301	Eu-154	0.0499								0.024950155		1.5	15	6.45	3	0	6	6	
EU-07	IVEU07RC301	Eu-155	3.8								1.903322648		1.5	15	6.45	3	0	6	6	
EU-07	IVEU07RC301	Fe-55	2690								1461.911262		1.5	15	6.45	3	0	6	6	
EU-07	IVEU07RC301	I-129	0.596								1.262193866		1.5	15	6.45	3	0	6	6	
EU-07	IVEU07RC301	K-40	60	2	2			19	17.5	2.12132	30	14.142136	1.5	14	6.45	3	0	6	4	
EU-07	IVEU07RC301	Na-22	0.0865								0.043308929		1.5	15	6.45	3	0	6	6	
EU-07	IVEU07RC301	Ni-59	208								541.446433		1.5	15	6.45	3	0	6	6	
EU-07	IVEU07RC301	Ni-63	94.8								246.5901147		1.5	15	6.45	3	0	6	6	
EU-07	IVEU07RC301	Np-237	0.13								0.068047461		1.5	15	6.45	3	0	6	6	
EU-07	IVEU07RC301	Pb-210	5								2.5		1.5	14	6.45	3	0	6	6	
EU-07	IVEU07RC301	Pu-238	2.97	2	2			0.005	0.002	0.004243	1.635548449	385.50247	1.5	14	6.45	3	0	6	4	
EU-07	IVEU07RC301	Pu-239	2.59								1.430938981		1.5	14	6.45	3	0	6	6	
EU-07	IVEU07RC301	Pu-240	2.6								1.432213109		1.5	15	6.45	3	0	6	6	
EU-07	IVEU07RC301	Pu-241	406								225.8293531		1.5	15	6.45	3	0	6	6	
EU-07	IVEU07RC301	Ra-226	5	2	2			0.91	0.775	0.190919	2.5	13.09457	1.5	14	6.45	3	0	6	4	
EU-07	IVEU07RC301	Ra-228	3.2								1.6		1.5	14	6.45	3	0	6	6	
EU-07	IVEU07RC301	Sb-125	0.462								0.231442714		1.5	15	6.45	3	0	6	6	
EU-07	IVEU07RC301	Sr-90	0.231	2	2			0.088	0.072	0.022627	1.960528741	86.643948	1.5	14	6.45	3	0	6	4	
EU-07	IVEU07RC301	Tc-99	0.25								48.16625994		1.5	15	6.45	3	0	6	6	
EU-07	IVEU07RC301	Th-228	3.2	2	2			1.2	1.08	0.169706	1.6	9.4280904	1.5	14	6.45	3	0	6	4	
EU-07	IVEU07RC301	Th-230	3.49	2	2			1	0.875	0.176777	1.909550267	10.802048	1.5	14	6.45	3	0	6	4	
EU-07	IVEU07RC301	Th-232	3.1	2	2			1	0.96	0.056569	1.699812707	30.048727	1.5	14	6.45	3	0	6	4	
EU-07	IVEU07RC301	Tritium (H-3)	2.28	1	1			-0.018	-0.018		1.345023403		1.5	14	6.45	3	0	6	5	
EU-07	IVEU07RC301	U-234	4.01								2.483402446		1.5	14	6.45	3	0	6	6	
EU-07	IVEU07RC301	U-235	0.195	2	2			0.039	0.037	0.002828	0.098571969	34.850454	1.5	14	6.45	3	0	6	4	
EU-07	IVEU07RC301	U-238	2.6	2	2			0.92	0.795	0.176777	1.3	7.3539105	1.5	14	6.45	3	0	6	4	6
EU-08	IVEU08RC101	Ac-228	3.2	1	1			1.13	1.13		1.6		1.5	14	2.54	1	0	18	17	
EU-08	IVEU08RC101	Am-241	1.87	13	13			0.0451	0.0192877	0.017205	0.983259209	57.150081	3	11	2.54	1	0	14	1	
EU-08	IVEU08RC101	Ba-133	0.175								0.087668644		1.5	15	2.54	1	0	20	20	
EU-08	IVEU08RC101	C-14	0.456								139.7005115		1.5	15	2.54	1	0	20	20	
EU-08	IVEU08RC101	Cm-243/244	0.349								0.175489416		1.5	15	2.54	1	0	20	20	
EU-08	IVEU08RC101	Co-60	0.0361	13	13			0.0497	-0.002933	0.023157	0.018119848	0.7824646	0.7824646	40	2.54	1	1	51	38	
EU-08	IVEU08RC101	Cs-134	0.157								0.07919429		1.5	15	2.54	1	0	20	20	
EU-08	IVEU08RC101	Cs-137	0.48	49	48			0.18	0.0291519	0.046143	0.24	5.2012332	3	8	2.54	1	0	11	0	
EU-08	IVEU08RC101	Eu-152	0.0416	13	13			0.122	0.0395231	0.062748	0.020814406	0.3317127	0.3317127	185	2.54	1	1	235	222	
EU-08	IVEU08RC101	Eu-154	0.0499	13	13			0.166	-0.086533	0.174489	0.024950155	0.1429902	0.1429902	1620	2.54	1	1	2057	2044	
EU-08	IVEU08RC101	Eu-155	3.8								1.903322648		1.5	15	2.54	1	0	20	20	
EU-08	IVEU08RC101	Fe-55	2690	13	13			1.72	0.0807077	0.621047	1461.911262	2353.9467	3	11	2.54	1	0	14	1	
EU-08	IVEU08RC101	I-129	0.596								1.262193866		1.5	15	2.54	1	0	20	20	
EU-08	IVEU08RC101	K-40	60	46	46			30.5	18.502276	6.414922	30	4.6765962	3	8	2.54	1	0	11	0	
EU-08	IVEU08RC101	Na-22	0.0865								0.043308929		1.5	15	2.54	1	0	20	20	
EU-08	IVEU08RC101	Ni-59	208	13	13			58.1	12.372385	20.62087	541.446433	26.257203	3	11	2.54	1	0	14	1	
EU-08	IVEU08RC101	Ni-63	94.8	13	13			0.626	-2.415308	3.310067	246.5901147	74.497012	3	11	2.54	1	0	14	1	
EU-08	IVEU08RC101	Np-237	0.13								0.068047461		1.5	15	2.54	1	0	20	20	
EU-08	IVEU08RC101	Pb-210	5								2.5		1.5	14	2.54	1	0	18	18	
EU-08	IVEU08RC101	Pu-238	2.97	16	16			0.102	0.0333276	0.032055	1.635548449	51.023094	3	8	2.54	1	0	11	0	

Table G-2
Radionuclide Data Gaps Calculation Summary
(Residential)

EU	SU	Analyte	Residential DCGL (piC/g)	Number of Valid Samples	Number of Detects	Number of Detection Uncertain	Number of Rejected Samples	Max Detected Result (piC/g)	Average (piC/g)	Std. Dev. (piC/g)	Delta Residential	Relative Shift	Test Shift	Statistically Required Number of Samples per Area Size	SU Acreage	SU Class	Remediation Test[a]	Risk Assessment Required Samples per SU	Risk Assessment Data Gap Rural Residential	Risk Assessment Radiological Samples per SU required
EU-08	IVEU08RC101	Pu-239	2.59								1.430938981		1.5	14	2.54	1	0	18	18	
EU-08	IVEU08RC101	Pu-240	2.6								1.432213109		1.5	15	2.54	1	0	20	20	
EU-08	IVEU08RC101	Pu-241	406	13	13			8.61	2.3617692	2.187107	225.8293531	103.25482	3	11	2.54	1	0	14	1	
EU-08	IVEU08RC101	Ra-226	5	3	3			0.81	0.7766667	0.035119	2.5	71.18685	1.5	14	2.54	1	0	18	15	
EU-08	IVEU08RC101	Ra-228	3.2								1.6		1.5	14	2.54	1	0	18	18	
EU-08	IVEU08RC101	Sb-125	0.462								0.231442714		1.5	15	2.54	1	0	20	20	
EU-08	IVEU08RC101	Sr-90	0.231	16	16			0.423	0.1582813	0.200209	1.960528741	9.7924125	3	8	2.54	1	1	11	0	
EU-08	IVEU08RC101	Tc-99	0.25								48.16625994		1.5	15	2.54	1	0	20	20	
EU-08	IVEU08RC101	Th-228	3.2	16	16			1.72	1.32875	0.242429	1.6	6.5998791	3	8	2.54	1	0	11	0	
EU-08	IVEU08RC101	Th-230	3.49	16	16			1.84	1.33375	0.326657	1.909550267	5.8457294	3	8	2.54	1	0	11	0	
EU-08	IVEU08RC101	Th-232	3.1	16	16			1.71	1.39125	0.241575	1.699812707	7.0363856	3	8	2.54	1	0	11	0	
EU-08	IVEU08RC101	Tritium (H-3)	2.28	13	13			1.79	-1.503846	1.422366	1.345023403	0.9456238	0.9456238	31	2.54	1	1	40	27	
EU-08	IVEU08RC101	U-234	4.01	13	13			1.1	0.9078462	0.119634	2.483402446	20.758323	3	8	2.54	1	0	11	0	
EU-08	IVEU08RC101	U-235	0.195	16	16			0.123	0.0634813	0.029996	0.098571969	3.2861967	3	8	2.54	1	0	11	0	
EU-08	IVEU08RC101	U-238	2.6	16	16			1.08	0.848	0.170354	1.3	7.6311793	3	8	2.54	1	0	11	0	20
EU-08	IVEU08RC102	Ac-228	3.2								1.6		1.5	14	1.44	1	0	11	11	
EU-08	IVEU08RC102	Am-241	1.87	58	58			0.118	0.0210341	0.023519	0.983259209	41.806752	3	11	1.44	1	0	8	0	
EU-08	IVEU08RC102	Ba-133	0.175	55	55			0.401	0.0322502	0.084397	0.087668644	1.0387667	1.0387667	23	1.44	1	0	17	0	
EU-08	IVEU08RC102	C-14	0.456								139.7005115		1.5	15	1.44	1	0	11	11	
EU-08	IVEU08RC102	Cm-243/244	0.349								0.175489416		1.5	15	1.44	1	0	11	11	
EU-08	IVEU08RC102	Co-60	0.0361	69	69			0.09558	0.0046294	0.031462	0.018119848	0.575928	0.575928	71	1.44	1	1	52	0	
EU-08	IVEU08RC102	Cs-134	0.157								0.07919429		1.5	15	1.44	1	0	11	11	
EU-08	IVEU08RC102	Cs-137	0.48	103	86			0.436	0.0150407	0.057538	0.24	4.1711809	3	8	1.44	1	0	6	0	
EU-08	IVEU08RC102	Eu-152	0.0416	68	68			0.844	0.0470391	0.252363	0.020814406	0.0824781	1.5	15	1.44	1	1	11	0	
EU-08	IVEU08RC102	Eu-154	0.0499	68	68			0.404	-0.041944	0.190007	0.024950155	0.1313115	0.1313115	1620	1.44	1	1	1168	1100	
EU-08	IVEU08RC102	Eu-155	3.8								1.903322648		1.5	15	1.44	1	0	11	11	
EU-08	IVEU08RC102	Fe-55	2690	58	53			30	5.3380183	8.072759	1461.911262	181.09191	3	11	1.44	1	0	8	0	
EU-08	IVEU08RC102	I-129	0.596								1.262193866		1.5	15	1.44	1	0	11	11	
EU-08	IVEU08RC102	K-40	60	31	31			39.34	22.93469	8.570045	30	3.5005652	3	8	1.44	1	0	6	0	
EU-08	IVEU08RC102	Na-22	0.0865								0.043308929		1.5	15	1.44	1	0	11	11	
EU-08	IVEU08RC102	Ni-59	208								541.446433		1.5	15	1.44	1	0	11	11	
EU-08	IVEU08RC102	Ni-63	94.8	58	58			48.5	4.6868858	6.85763	246.5901147	35.958502	3	11	1.44	1	0	8	0	
EU-08	IVEU08RC102	Np-237	0.13								0.068047461		1.5	15	1.44	1	0	11	11	
EU-08	IVEU08RC102	Pb-210	5								2.5		1.5	14	1.44	1	0	11	11	
EU-08	IVEU08RC102	Pu-238	2.97	59	59			0.115	0.0160848	0.025564	1.635548449	63.978047	3	8	1.44	1	0	6	0	
EU-08	IVEU08RC102	Pu-239	2.59	43	43			0.0302	0.0033621	0.007488	1.430938981	191.09212	3	8	1.44	1	0	6	0	
EU-08	IVEU08RC102	Pu-240	2.6	43	43			0.0178	0.0019763	0.004403	1.432213109	325.25316	3	11	1.44	1	0	8	0	
EU-08	IVEU08RC102	Pu-241	406	58	57			3.34	-0.528699	1.412299	225.8293531	159.90197	3	11	1.44	1	0	8	0	
EU-08	IVEU08RC102	Ra-226	5	1	1			0.77	0.77		2.5		1.5	14	1.44	1	0	11	10	
EU-08	IVEU08RC102	Ra-228	3.2								1.6		1.5	14	1.44	1	0	11	11	
EU-08	IVEU08RC102	Sb-125	0.462								0.231442714		1.5	15	1.44	1	0	11	11	
EU-08	IVEU08RC102	Sr-90	0.231	60	60			1.25054372	0.1007929	0.232405	1.960528741	8.4358353	3	8	1.44	1	1	6	0	
EU-08	IVEU08RC102	Tc-99	0.25								48.16625994		1.5	15	1.44	1	0	11	11	
EU-08	IVEU08RC102	Th-228	3.2	59	59			1.865	1.1458983	0.246954	1.6	6.4789291	3	8	1.44	1	0	6	0	
EU-08	IVEU08RC102	Th-230	3.49	59	59			2.39	1.0059661	0.353918	1.909550267	5.3954586	3	8	1.44	1	0	6	0	
EU-08	IVEU08RC102	Th-232	3.1	59	59			1.842	1.107339	0.273214	1.699812707	6.2215535	3	8	1.44	1	0	6	0	
EU-08	IVEU08RC102	Tritium (H-3)	2.28	69	69		1	11.8	-0.449799	3.509829	1.345023403	0.3832163	0.3832163	243	1.44	1	1	176	107	
EU-08	IVEU08RC102	U-234	4.01	58	58			1.503	0.7142207	0.287676	2.483402446	8.6326278	3	8	1.44	1	0	6	0	
EU-08	IVEU08RC102	U-235	0.195	59	59			0.3399	0.0568914	0.063236	0.098571969	1.5587928	1.5587928	14	1.44	1	0	11	0	
EU-08	IVEU08RC102	U-238	2.6	59	59			1.297	0.6860797	0.267405	1.3	4.8615353	3	8	1.44	1	0	6	0	11
EU-08	IVEU08RC103	Ac-228	3.2								1.6		1.5	14	1.23	1	0	9	9	
EU-08	IVEU08RC103	Am-241	1.87	4	4			0.0302	0.0171625	0.008825	0.983259209	111.41671	1.5	15	1.23	1	0	10	6	
EU-08	IVEU08RC103	Ba-133	0.175	4	4			0.35	0.20525	0.161898	0.087668644	0.5415059	1.5	15	1.23	1	0	10	6	
EU-08	IVEU08RC103	C-14	0.456								139.7005115		1.5	15	1.23	1	0	10	10	
EU-08	IVEU08RC103	Cm-243/244	0.349								0.175489416		1.5	15	1.23	1	0	10	10	
EU-08	IVEU08RC103	Co-60	0.0361	4	4			0.06106	0.0033278	0.039764	0.018119848	0.4556819	1.5	15	1.23	1	0	10	6	
EU-08	IVEU08RC103	Cs-134	0.157								0.07919429		1.5	15	1.23	1	0	10	10	

Table G-2
Radionuclide Data Gaps Calculation Summary
(Residential)

EU	SU	Analyte	Residential DCGL (piC/g)	Number of Valid Samples	Number of Detects	Number of Detection Uncertain	Number of Rejected Samples	Max Detected Result (piC/g)	Average (piC/g)	Std. Dev. (piC/g)	Delta Residential	Relative Shift	Test Shift	Statistically Required Number of Samples per Area Size	SU Acreage	SU Class	Remediation Test[a]	Risk Assessment Required Samples per SU	Risk Assessment Data Gap Rural Residential	Risk Assessment Radiological Samples per SU required
EU-08	IVEU08RC103	Cs-137	0.48	4	4			0.1435	0.0262678	0.079395	0.24	3.0228507	1.5	14	1.23	1	0	9	5	
EU-08	IVEU08RC103	Eu-152	0.0416	4	4			0.231	0.1365525	0.110647	0.020814406	0.1881157	1.5	15	1.23	1	0	10	6	
EU-08	IVEU08RC103	Eu-154	0.0499	4	4			0.1822	0.03322	0.124283	0.024950155	0.2007527	1.5	15	1.23	1	0	10	6	
EU-08	IVEU08RC103	Eu-155	3.8								1.903322648		1.5	15	1.23	1	0	10	10	
EU-08	IVEU08RC103	Fe-55	2690	4	4			0.6198	-0.2126	0.669833	1461.911262	2182.5007	1.5	15	1.23	1	0	10	6	
EU-08	IVEU08RC103	I-129	0.596								1.262193866		1.5	15	1.23	1	0	10	10	
EU-08	IVEU08RC103	K-40	60								30		1.5	14	1.23	1	0	9	9	
EU-08	IVEU08RC103	Na-22	0.0865								0.043308929		1.5	15	1.23	1	0	10	10	
EU-08	IVEU08RC103	Ni-59	208								541.446433		1.5	15	1.23	1	0	10	10	
EU-08	IVEU08RC103	Ni-63	94.8	4	4			2.14367812	1.6075668	0.554202	246.5901147	444.94647	1.5	15	1.23	1	0	10	6	
EU-08	IVEU08RC103	Np-237	0.13								0.068047461		1.5	15	1.23	1	0	10	10	
EU-08	IVEU08RC103	Pb-210	5								2.5		1.5	14	1.23	1	0	9	9	
EU-08	IVEU08RC103	Pu-238	2.97	4	4			0.05504	0.036752	0.021637	1.635548449	75.591834	1.5	14	1.23	1	0	9	5	
EU-08	IVEU08RC103	Pu-239	2.59	4	4			0.0191835	0.006449	0.01002	1.430938981	142.81197	1.5	14	1.23	1	0	9	5	
EU-08	IVEU08RC103	Pu-240	2.6	4	4			0.0112665	0.0037875	0.005885	1.432213109	243.38285	1.5	15	1.23	1	0	10	6	
EU-08	IVEU08RC103	Pu-241	406	4	4			-0.2519858	-2.386284	2.056629	225.8293531	109.80557	1.5	15	1.23	1	0	10	6	
EU-08	IVEU08RC103	Ra-226	5								2.5		1.5	14	1.23	1	0	9	9	
EU-08	IVEU08RC103	Ra-228	3.2								1.6		1.5	14	1.23	1	0	9	9	
EU-08	IVEU08RC103	Sb-125	0.462								0.231442714		1.5	15	1.23	1	0	10	10	
EU-08	IVEU08RC103	Sr-90	0.231	4	4			0.25757262	-0.045164	0.244915	1.960528741	8.0049291	1.5	14	1.23	1	0	9	5	
EU-08	IVEU08RC103	Tc-99	0.25								48.16625994		1.5	15	1.23	1	0	10	10	
EU-08	IVEU08RC103	Th-228	3.2	4	4			1.681	1.22595	0.380144	1.6	4.2089337	1.5	14	1.23	1	0	9	5	
EU-08	IVEU08RC103	Th-230	3.49	4	4			1.781	1.389	0.370033	1.909550267	5.1604818	1.5	14	1.23	1	0	9	5	
EU-08	IVEU08RC103	Th-232	3.1	4	4			1.796	1.377075	0.369405	1.699812707	4.6014942	1.5	14	1.23	1	0	9	5	
EU-08	IVEU08RC103	Tritium (H-3)	2.28	4	4			0	-1.066357	1.231549	1.345023403	1.0921392	1.5	14	1.23	1	0	9	5	
EU-08	IVEU08RC103	U-234	4.01	4	4			1.518	1.217675	0.26776	2.483402446	9.2747497	1.5	14	1.23	1	0	9	5	
EU-08	IVEU08RC103	U-235	0.195	4	4			0.1885	0.130945	0.067157	0.098571969	1.4677867	1.5	14	1.23	1	0	9	5	
EU-08	IVEU08RC103	U-238	2.6	4	4			1.355	1.0269	0.24165	1.3	5.3796806	1.5	14	1.23	1	0	9	5	10
EU-08	IVEU08RC301	Ac-228	3.2								1.6		1.5	14	14.64	3	0	13	13	
EU-08	IVEU08RC301	Am-241	1.87								0.983259209		1.5	15	14.64	3	0	13	13	
EU-08	IVEU08RC301	Ba-133	0.175								0.087668644		1.5	15	14.64	3	0	13	13	
EU-08	IVEU08RC301	C-14	0.456								139.7005115		1.5	15	14.64	3	0	13	13	
EU-08	IVEU08RC301	Cm-243/244	0.349								0.175489416		1.5	15	14.64	3	0	13	13	
EU-08	IVEU08RC301	Co-60	0.0361				2				0.018119848		1.5	15	14.64	3	0	13	13	
EU-08	IVEU08RC301	Cs-134	0.157	2					0.075	0	0.07919429		1.5	15	14.64	3	0	13	11	
EU-08	IVEU08RC301	Cs-137	0.48	10	8			0.11	0.0614286	0.02897	0.24	8.2843097	3	8	14.64	3	0	7	0	
EU-08	IVEU08RC301	Eu-152	0.0416								0.020814406		1.5	15	14.64	3	0	13	13	
EU-08	IVEU08RC301	Eu-154	0.0499								0.024950155		1.5	15	14.64	3	0	13	13	
EU-08	IVEU08RC301	Eu-155	3.8								1.903322648		1.5	15	14.64	3	0	13	13	
EU-08	IVEU08RC301	Fe-55	2690								1461.911262		1.5	15	14.64	3	0	13	13	
EU-08	IVEU08RC301	I-129	0.596								1.262193866		1.5	15	14.64	3	0	13	13	
EU-08	IVEU08RC301	K-40	60	10	10			21.08	18.387	2.613253	30	11.479946	3	8	14.64	3	0	7	0	
EU-08	IVEU08RC301	Na-22	0.0865								0.043308929		1.5	15	14.64	3	0	13	13	
EU-08	IVEU08RC301	Ni-59	208								541.446433		1.5	15	14.64	3	0	13	13	
EU-08	IVEU08RC301	Ni-63	94.8								246.5901147		1.5	15	14.64	3	0	13	13	
EU-08	IVEU08RC301	Np-237	0.13								0.068047461		1.5	15	14.64	3	0	13	13	
EU-08	IVEU08RC301	Pb-210	5								2.5		1.5	14	14.64	3	0	13	13	
EU-08	IVEU08RC301	Pu-238	2.97	4	4			0.003	0.00125	0.001258	1.635548449	1299.8021	1.5	14	14.64	3	0	13	9	
EU-08	IVEU08RC301	Pu-239	2.59								1.430938981		1.5	14	14.64	3	0	13	13	
EU-08	IVEU08RC301	Pu-240	2.6								1.432213109		1.5	15	14.64	3	0	13	13	
EU-08	IVEU08RC301	Pu-241	406								225.8293531		1.5	15	14.64	3	0	13	13	
EU-08	IVEU08RC301	Ra-226	5	4	4			0.85	0.7475	0.076322	2.5	32.756089	1.5	14	14.64	3	0	13	9	
EU-08	IVEU08RC301	Ra-228	3.2								1.6		1.5	14	14.64	3	0	13	13	
EU-08	IVEU08RC301	Sb-125	0.462								0.231442714		1.5	15	14.64	3	0	13	13	
EU-08	IVEU08RC301	Sr-90	0.231	4	4			0.022	0.0195	0.003786	1.960528741	517.84479	1.5	14	14.64	3	0	13	9	
EU-08	IVEU08RC301	Tc-99	0.25								48.16625994		1.5	15	14.64	3	0	13	13	
EU-08	IVEU08RC301	Th-228	3.2	4	4			1.3	1.175	0.15	1.6	10.666667	1.5	14	14.64	3	0	13	9	

Table G-2
Radionuclide Data Gaps Calculation Summary
(Residential)

EU	SU	Analyte	Residential DCGL (piC/g)	Number of Valid Samples	Number of Detects	Number of Detection Uncertain	Number of Rejected Samples	Max Detected Result (piC/g)	Average (piC/g)	Std. Dev. (piC/g)	Delta Residential	Relative Shift	Test Shift	Statistically Required Number of Samples per Area Size	SU Acreage	SU Class	Remediation Test[a]	Risk Assessment Required Samples per SU	Risk Assessment Data Gap Rural Residential	Risk Assessment Radiological Samples per SU required
EU-08	IVEU08RC301	Th-230	3.49	4	4			1.1	0.9475	0.135984	1.909550267	14.042456	1.5	14	14.64	3	0	13	9	
EU-08	IVEU08RC301	Th-232	3.1	6	6			1.2	1.1333333	0.064083	1.699812707	26.525058	1.5	14	14.64	3	0	13	7	
EU-08	IVEU08RC301	Tritium (H-3)	2.28								1.345023403		1.5	14	14.64	3	0	13	13	
EU-08	IVEU08RC301	U-234	4.01								2.483402446		1.5	14	14.64	3	0	13	13	
EU-08	IVEU08RC301	U-235	0.195	5	5			0.06	0.0458	0.008729	0.098571969	11.292132	1.5	14	14.64	3	0	13	8	
EU-08	IVEU08RC301	U-238	2.6	6	6			0.9	0.75	0.101587	1.3	12.796863	1.5	14	14.64	3	0	13	7	13
EU-09	IVEU09RC101	Ac-228	3.2								1.6		1.5	14	5.36	1	0	38	38	
EU-09	IVEU09RC101	Am-241	1.87	812	74			0.19	0.0609729	0.02512	0.983259209	39.143069	3	11	5.36	1	0	30	0	
EU-09	IVEU09RC101	Ba-133	0.175								0.087668644		1.5	15	5.36	1	0	41	41	
EU-09	IVEU09RC101	C-14	0.456								139.7005115		1.5	15	5.36	1	0	41	41	
EU-09	IVEU09RC101	Cm-243/244	0.349								0.175489416		1.5	15	5.36	1	0	41	41	
EU-09	IVEU09RC101	Co-60	0.0361				728				0.018119848		1.5	15	5.36	1	0	41	41	
EU-09	IVEU09RC101	Cs-134	0.157	1					0.075		0.07919429		1.5	15	5.36	1	0	41	40	
EU-09	IVEU09RC101	Cs-137	0.48	1056	408			5.864	0.1176001	0.338692	0.24	0.7086092	0.7086092	48	5.36	1	1	129	0	
EU-09	IVEU09RC101	Eu-152	0.0416				728				0.020814406		1.5	15	5.36	1	0	41	41	
EU-09	IVEU09RC101	Eu-154	0.0499								0.024950155		1.5	15	5.36	1	0	41	41	
EU-09	IVEU09RC101	Eu-155	3.8	2	2			0.06	0.06	0	1.903322648		1.5	15	5.36	1	0	41	39	
EU-09	IVEU09RC101	Fe-55	2690								1461.911262		1.5	15	5.36	1	0	41	41	
EU-09	IVEU09RC101	I-129	0.596								1.262193866		1.5	15	5.36	1	0	41	41	
EU-09	IVEU09RC101	K-40	60	15	15			19	16.349286	2.518743	30	11.910701	3	8	5.36	1	0	22	7	
EU-09	IVEU09RC101	Na-22	0.0865								0.043308929		1.5	15	5.36	1	0	41	41	
EU-09	IVEU09RC101	Ni-59	208								541.446433		1.5	15	5.36	1	0	41	41	
EU-09	IVEU09RC101	Ni-63	94.8								246.5901147		1.5	15	5.36	1	0	41	41	
EU-09	IVEU09RC101	Np-237	0.13								0.068047461		1.5	15	5.36	1	0	41	41	
EU-09	IVEU09RC101	Pb-210	5								2.5		1.5	14	5.36	1	0	38	38	
EU-09	IVEU09RC101	Pu-238	2.97	212	109			0.14	0.0176533	0.02169	1.635548449	75.405737	3	8	5.36	1	0	22	0	
EU-09	IVEU09RC101	Pu-239	2.59	96					0.0125	0.002513	1.430938981	569.38667	3	8	5.36	1	0	22	0	
EU-09	IVEU09RC101	Pu-240	2.6								1.432213109		1.5	15	5.36	1	0	41	41	
EU-09	IVEU09RC101	Pu-241	406								225.8293531		1.5	15	5.36	1	0	41	41	
EU-09	IVEU09RC101	Ra-226	5	732	708			1.2	0.7481557	0.164928	2.5	15.158168	3	8	5.36	1	0	22	0	
EU-09	IVEU09RC101	Ra-228	3.2								1.6		1.5	14	5.36	1	0	38	38	
EU-09	IVEU09RC101	Sb-125	0.462								0.231442714		1.5	15	5.36	1	0	41	41	
EU-09	IVEU09RC101	Sr-90	0.231	547	65			1.05	0.334415	0.085071	1.960528741	23.045923	1.5	14	5.36	1	1	38	0	
EU-09	IVEU09RC101	Tc-99	0.25								48.16625994		1.5	15	5.36	1	0	41	41	
EU-09	IVEU09RC101	Th-228	3.2	49	49			2.86	1.6204082	0.523975	1.6	3.0535806	3	8	5.36	1	0	22	0	
EU-09	IVEU09RC101	Th-230	3.49	47	47			2.09	1.173617	0.38883	1.909550267	4.9110152	3	8	5.36	1	0	22	0	
EU-09	IVEU09RC101	Th-232	3.1	774	582			2.76	1.1194186	0.541827	1.699812707	3.1371844	3	8	5.36	1	0	22	0	
EU-09	IVEU09RC101	Tritium (H-3)	2.28	5	5			0.043	0.02	0.02429	1.345023403	55.373737	1.5	14	5.36	1	0	38	33	
EU-09	IVEU09RC101	U-234	4.01	43	43			1.3	0.6216279	0.194139	2.483402446	12.791846	3	8	5.36	1	0	22	0	
EU-09	IVEU09RC101	U-235	0.195	575	58		219	0.2	0.1187635	0.042073	0.098571969	2.3428991	2.3428991	9	5.36	1	0	25	0	
EU-09	IVEU09RC101	U-238	2.6	806	539			5.07	0.9322829	0.381194	1.3	3.4103397	3	8	5.36	1	0	22	0	41
EU-09	IVEU09RC301	Ac-228	3.2								1.6		1.5	14	11.82	3	0	10	10	
EU-09	IVEU09RC301	Am-241	1.87								0.983259209		1.5	15	11.82	3	0	11	11	
EU-09	IVEU09RC301	Ba-133	0.175								0.087668644		1.5	15	11.82	3	0	11	11	
EU-09	IVEU09RC301	C-14	0.456								139.7005115		1.5	15	11.82	3	0	11	11	
EU-09	IVEU09RC301	Cm-243/244	0.349								0.175489416		1.5	15	11.82	3	0	11	11	
EU-09	IVEU09RC301	Co-60	0.0361								0.018119848		1.5	15	11.82	3	0	11	11	
EU-09	IVEU09RC301	Cs-134	0.157								0.07919429		1.5	15	11.82	3	0	11	11	
EU-09	IVEU09RC301	Cs-137	0.48	7	3			0.07	0.0233333	0.026394	0.24	9.0928228	1.5	14	11.82	3	0	10	3	
EU-09	IVEU09RC301	Eu-152	0.0416								0.020814406		1.5	15	11.82	3	0	11	11	
EU-09	IVEU09RC301	Eu-154	0.0499								0.024950155		1.5	15	11.82	3	0	11	11	
EU-09	IVEU09RC301	Eu-155	3.8								1.903322648		1.5	15	11.82	3	0	11	11	
EU-09	IVEU09RC301	Fe-55	2690								1461.911262		1.5	15	11.82	3	0	11	11	
EU-09	IVEU09RC301	I-129	0.596								1.262193866		1.5	15	11.82	3	0	11	11	
EU-09	IVEU09RC301	K-40	60	7	7			26.23	18.36	3.645769	30	8.2287161	1.5	14	11.82	3	0	10	3	
EU-09	IVEU09RC301	Na-22	0.0865								0.043308929		1.5	15	11.82	3	0	11	11	
EU-09	IVEU09RC301	Ni-59	208								541.446433		1.5	15	11.82	3	0	11	11	

Table G-2
Radionuclide Data Gaps Calculation Summary
(Residential)

EU	SU	Analyte	Residential DCGL (piC/g)	Number of Valid Samples	Number of Detects	Number of Detection Uncertain	Number of Rejected Samples	Max Detected Result (piC/g)	Average (piC/g)	Std. Dev. (piC/g)	Delta Residential	Relative Shift	Test Shift	Statistically Required Number of Samples per Area Size	SU Acreage	SU Class	Remediation Test[a]	Risk Assessment Required Samples per SU	Risk Assessment Data Gap Rural Residential	Risk Assessment Radiological Samples per SU required
EU-09	IVEU09RC301	Ni-63	94.8								246.5901147		1.5	15	11.82	3	0	11	11	
EU-09	IVEU09RC301	Np-237	0.13								0.068047461		1.5	15	11.82	3	0	11	11	
EU-09	IVEU09RC301	Pb-210	5								2.5		1.5	14	11.82	3	0	10	10	
EU-09	IVEU09RC301	Pu-238	2.97	5	5			0.001	0	0.000707	1.635548449	2313.0148	1.5	14	11.82	3	0	10	5	
EU-09	IVEU09RC301	Pu-239	2.59								1.430938981		1.5	14	11.82	3	0	10	10	
EU-09	IVEU09RC301	Pu-240	2.6								1.432213109		1.5	15	11.82	3	0	11	11	
EU-09	IVEU09RC301	Pu-241	406								225.8293531		1.5	15	11.82	3	0	11	11	
EU-09	IVEU09RC301	Ra-226	5	5	5			1	0.82	0.147648	2.5	16.932137	1.5	14	11.82	3	0	10	5	
EU-09	IVEU09RC301	Ra-228	3.2								1.6		1.5	14	11.82	3	0	10	10	
EU-09	IVEU09RC301	Sb-125	0.462								0.231442714		1.5	15	11.82	3	0	11	11	
EU-09	IVEU09RC301	Sr-90	0.231	5	5			0.12	0.0572	0.048515	1.960528741	40.41082	1.5	14	11.82	3	0	10	5	
EU-09	IVEU09RC301	Tc-99	0.25								48.16625994		1.5	15	11.82	3	0	11	11	
EU-09	IVEU09RC301	Th-228	3.2	5	5			1.4	1.2	0.234521	1.6	6.8224229	1.5	14	11.82	3	0	10	5	
EU-09	IVEU09RC301	Th-230	3.49	5	5			1.3	0.998	0.283408	1.909550267	6.7378175	1.5	14	11.82	3	0	10	5	
EU-09	IVEU09RC301	Th-232	3.1	5	5			1.5	1.164	0.288929	1.699812707	5.883149	1.5	14	11.82	3	0	10	5	
EU-09	IVEU09RC301	Tritium (H-3)	2.28	5	5			0.055	0.0078	0.028261	1.345023403	47.592443	1.5	14	11.82	3	0	10	5	
EU-09	IVEU09RC301	U-234	4.01								2.483402446		1.5	14	11.82	3	0	10	10	
EU-09	IVEU09RC301	U-235	0.195	5	5			0.051	0.042	0.00755	0.098571969	13.056176	1.5	14	11.82	3	0	10	5	
EU-09	IVEU09RC301	U-238	2.6	5	5			1	0.842	0.098336	1.3	13.219959	1.5	14	11.82	3	0	10	5	11
EU-10	IVEU10RC101	Ac-228	3.2								1.6		1.5	14	1.30	1	0	10	10	
EU-10	IVEU10RC101	Am-241	1.87								0.983259209		1.5	15	1.30	1	0	10	10	
EU-10	IVEU10RC101	Ba-133	0.175								0.087668644		1.5	15	1.30	1	0	10	10	
EU-10	IVEU10RC101	C-14	0.456								139.7005115		1.5	15	1.30	1	0	10	10	
EU-10	IVEU10RC101	Cm-243/244	0.349								0.175489416		1.5	15	1.30	1	0	10	10	
EU-10	IVEU10RC101	Co-60	0.0361								0.018119848		1.5	15	1.30	1	0	10	10	
EU-10	IVEU10RC101	Cs-134	0.157								0.07919429		1.5	15	1.30	1	0	10	10	
EU-10	IVEU10RC101	Cs-137	0.48	41	13			0.438	0.0843732	0.091757	0.24	2.6156185	2.6156185	9	1.30	1	0	6	0	
EU-10	IVEU10RC101	Eu-152	0.0416				4				0.020814406		1.5	15	1.30	1	0	10	10	
EU-10	IVEU10RC101	Eu-154	0.0499								0.024950155		1.5	15	1.30	1	0	10	10	
EU-10	IVEU10RC101	Eu-155	3.8								1.903322648		1.5	15	1.30	1	0	10	10	
EU-10	IVEU10RC101	Fe-55	2690								1461.911262		1.5	15	1.30	1	0	10	10	
EU-10	IVEU10RC101	I-129	0.596								1.262193866		1.5	15	1.30	1	0	10	10	
EU-10	IVEU10RC101	K-40	60	2	2			19	19	0	30		1.5	14	1.30	1	0	10	8	
EU-10	IVEU10RC101	Na-22	0.0865								0.043308929		1.5	15	1.30	1	0	10	10	
EU-10	IVEU10RC101	Ni-59	208								541.446433		1.5	15	1.30	1	0	10	10	
EU-10	IVEU10RC101	Ni-63	94.8								246.5901147		1.5	15	1.30	1	0	10	10	
EU-10	IVEU10RC101	Np-237	0.13								0.068047461		1.5	15	1.30	1	0	10	10	
EU-10	IVEU10RC101	Pb-210	5								2.5		1.5	14	1.30	1	0	10	10	
EU-10	IVEU10RC101	Pu-238	2.97	2	2			0.001	0.0005	0.000707	1.635548449	2313.0148	1.5	14	1.30	1	0	10	8	
EU-10	IVEU10RC101	Pu-239	2.59								1.430938981		1.5	14	1.30	1	0	10	10	
EU-10	IVEU10RC101	Pu-240	2.6								1.432213109		1.5	15	1.30	1	0	10	10	
EU-10	IVEU10RC101	Pu-241	406								225.8293531		1.5	15	1.30	1	0	10	10	
EU-10	IVEU10RC101	Ra-226	5	2	2			0.77	0.725	0.06364	2.5	39.28371	1.5	14	1.30	1	0	10	8	
EU-10	IVEU10RC101	Ra-228	3.2								1.6		1.5	14	1.30	1	0	10	10	
EU-10	IVEU10RC101	Sb-125	0.462								0.231442714		1.5	15	1.30	1	0	10	10	
EU-10	IVEU10RC101	Sr-90	0.231	2	2			0.05	0.047	0.004243	1.960528741	462.10106	1.5	14	1.30	1	0	10	8	
EU-10	IVEU10RC101	Tc-99	0.25								48.16625994		1.5	15	1.30	1	0	10	10	
EU-10	IVEU10RC101	Th-228	3.2	2	2			0.84	0.73	0.155563	1.6	10.28519	1.5	14	1.30	1	0	10	8	
EU-10	IVEU10RC101	Th-230	3.49	2	2			0.62	0.56	0.084853	1.909550267	22.504266	1.5	14	1.30	1	0	10	8	
EU-10	IVEU10RC101	Th-232	3.1	2	2			0.85	0.705	0.205061	1.699812707	8.2893041	1.5	14	1.30	1	0	10	8	
EU-10	IVEU10RC101	Tritium (H-3)	2.28	2	2			0.055	0.0325	0.03182	1.345023403	42.270008	1.5	14	1.30	1	0	10	8	
EU-10	IVEU10RC101	U-234	4.01								2.483402446		1.5	14	1.30	1	0	10	10	
EU-10	IVEU10RC101	U-235	0.195	2	2			0.042	0.03	0.016971	0.098571969	5.808409	1.5	14	1.30	1	0	10	8	
EU-10	IVEU10RC101	U-238	2.6	2	2			0.62	0.56	0.084853	1.3	15.320647	1.5	14	1.30	1	0	10	8	10
EU-10	IVEU10RC201	Ac-228	3.2								1.6		1.5	14	3.20	2	0	5	5	
EU-10	IVEU10RC201	Am-241	1.87	1	1			0.004	0.004		0.983259209		1.5	15	3.20	2	0	5	4	
EU-10	IVEU10RC201	Ba-133	0.175	1	1			0.043	0.043		0.087668644		1.5	15	3.20	2	0	5	4	

Table G-2
Radionuclide Data Gaps Calculation Summary
(Residential)

EU	SU	Analyte	Residential DCGL (piC/g)	Number of Valid Samples	Number of Detects	Number of Detection Uncertain	Number of Rejected Samples	Max Detected Result (piC/g)	Average (piC/g)	Std. Dev. (piC/g)	Delta Residential	Relative Shift	Test Shift	Statistically Required Number of Samples per Area Size	SU Acreage	SU Class	Remediation Test[a]	Risk Assessment Required Samples per SU	Risk Assessment Data Gap Rural Residential	Risk Assessment Radiological Samples per SU required
EU-10	IVEU10RC201	C-14	0.456								139.7005115		1.5	15	3.20	2	0	5	5	
EU-10	IVEU10RC201	Cm-243/244	0.349								0.175489416		1.5	15	3.20	2	0	5	5	
EU-10	IVEU10RC201	Co-60	0.0361	1	1		5	0.002	0.002		0.018119848		1.5	15	3.20	2	0	5	4	
EU-10	IVEU10RC201	Cs-134	0.157	5					0.075	0	0.07919429		1.5	15	3.20	2	0	5	0	
EU-10	IVEU10RC201	Cs-137	0.48	10	4			0.17	0.0874444	0.048449	0.24	4.953692	3	8	3.20	2	0	3	0	
EU-10	IVEU10RC201	Eu-152	0.0416	1	1			-0.25	-0.25		0.020814406		1.5	15	3.20	2	0	5	4	
EU-10	IVEU10RC201	Eu-154	0.0499	1	1			-0.15	-0.15		0.024950155		1.5	15	3.20	2	0	5	4	
EU-10	IVEU10RC201	Eu-155	3.8								1.903322648		1.5	15	3.20	2	0	5	5	
EU-10	IVEU10RC201	Fe-55	2690	1	1			9	9		1461.911262		1.5	15	3.20	2	0	5	4	
EU-10	IVEU10RC201	I-129	0.596								1.262193866		1.5	15	3.20	2	0	5	5	
EU-10	IVEU10RC201	K-40	60	7	7			18	14.647143	2.403565	30	12.481461	1.5	14	3.20	2	0	5	0	
EU-10	IVEU10RC201	Na-22	0.0865								0.043308929		1.5	15	3.20	2	0	5	5	
EU-10	IVEU10RC201	Ni-59	208								541.446433		1.5	15	3.20	2	0	5	5	
EU-10	IVEU10RC201	Ni-63	94.8	1	1			5.9	5.9		246.5901147		1.5	15	3.20	2	0	5	4	
EU-10	IVEU10RC201	Np-237	0.13								0.068047461		1.5	15	3.20	2	0	5	5	
EU-10	IVEU10RC201	Pb-210	5								2.5		1.5	14	3.20	2	0	5	5	
EU-10	IVEU10RC201	Pu-238	2.97	2	2			0.003	0.0015	0.002121	1.635548449	771.00493	1.5	14	3.20	2	0	5	3	
EU-10	IVEU10RC201	Pu-239	2.59	1	1			0.00485	0.00485		1.430938981		1.5	14	3.20	2	0	5	4	
EU-10	IVEU10RC201	Pu-240	2.6	1	1			0.00285	0.00285		1.432213109		1.5	15	3.20	2	0	5	4	
EU-10	IVEU10RC201	Pu-241	406	1	1			0.34	0.34		225.8293531		1.5	15	3.20	2	0	5	4	
EU-10	IVEU10RC201	Ra-226	5	1	1			0.65	0.65		2.5		1.5	14	3.20	2	0	5	4	
EU-10	IVEU10RC201	Ra-228	3.2								1.6		1.5	14	3.20	2	0	5	5	
EU-10	IVEU10RC201	Sb-125	0.462								0.231442714		1.5	15	3.20	2	0	5	5	
EU-10	IVEU10RC201	Sr-90	0.231	2	2			0.06	0.048	0.016971	1.960528741	115.52526	1.5	14	3.20	2	0	5	3	
EU-10	IVEU10RC201	Tc-99	0.25								48.16625994		1.5	15	3.20	2	0	5	5	
EU-10	IVEU10RC201	Th-228	3.2	2	2			1.3	1.09	0.296985	1.6	5.3874802	1.5	14	3.20	2	0	5	3	
EU-10	IVEU10RC201	Th-230	3.49	2	2			0.99	0.867	0.173948	1.909550267	10.977691	1.5	14	3.20	2	0	5	3	
EU-10	IVEU10RC201	Th-232	3.1	7	7			1.3	0.8914286	0.18452	1.699812707	9.2120799	1.5	14	3.20	2	0	5	0	
EU-10	IVEU10RC201	Tritium (H-3)	2.28	1	1			0.03	0.03		1.345023403		1.5	14	3.20	2	0	5	4	
EU-10	IVEU10RC201	U-234	4.01	1	1			0.584	0.584		2.483402446		1.5	14	3.20	2	0	5	4	
EU-10	IVEU10RC201	U-235	0.195	2	2			0.076	0.053	0.032527	0.098571969	3.0304742	1.5	14	3.20	2	0	5	3	
EU-10	IVEU10RC201	U-238	2.6	7	7			0.82	0.6655714	0.121589	1.3	10.691732	1.5	14	3.20	2	0	5	0	5
EU-10	IVEU10RC301	Ac-228	3.2								1.6		1.5	14	12.89	3	0	11	11	
EU-10	IVEU10RC301	Am-241	1.87								0.983259209		1.5	15	12.89	3	0	12	12	
EU-10	IVEU10RC301	Ba-133	0.175								0.087668644		1.5	15	12.89	3	0	12	12	
EU-10	IVEU10RC301	C-14	0.456								139.7005115		1.5	15	12.89	3	0	12	12	
EU-10	IVEU10RC301	Cm-243/244	0.349								0.175489416		1.5	15	12.89	3	0	12	12	
EU-10	IVEU10RC301	Co-60	0.0361								0.018119848		1.5	15	12.89	3	0	12	12	
EU-10	IVEU10RC301	Cs-134	0.157								0.07919429		1.5	15	12.89	3	0	12	12	
EU-10	IVEU10RC301	Cs-137	0.48	32	5			0.2	0.0438313	0.053011	0.24	4.5273909	3	8	12.89	3	0	7	0	
EU-10	IVEU10RC301	Eu-152	0.0416								0.020814406		1.5	15	12.89	3	0	12	12	
EU-10	IVEU10RC301	Eu-154	0.0499								0.024950155		1.5	15	12.89	3	0	12	12	
EU-10	IVEU10RC301	Eu-155	3.8								1.903322648		1.5	15	12.89	3	0	12	12	
EU-10	IVEU10RC301	Fe-55	2690								1461.911262		1.5	15	12.89	3	0	12	12	
EU-10	IVEU10RC301	I-129	0.596								1.262193866		1.5	15	12.89	3	0	12	12	
EU-10	IVEU10RC301	K-40	60	5	5			21	18.8	1.788854	30	16.77051	1.5	14	12.89	3	0	11	6	
EU-10	IVEU10RC301	Na-22	0.0865								0.043308929		1.5	15	12.89	3	0	12	12	
EU-10	IVEU10RC301	Ni-59	208								541.446433		1.5	15	12.89	3	0	12	12	
EU-10	IVEU10RC301	Ni-63	94.8								246.5901147		1.5	15	12.89	3	0	12	12	
EU-10	IVEU10RC301	Np-237	0.13								0.068047461		1.5	15	12.89	3	0	12	12	
EU-10	IVEU10RC301	Pb-210	5								2.5		1.5	14	12.89	3	0	11	11	
EU-10	IVEU10RC301	Pu-238	2.97	5	5			0.003	0.0008	0.001483	1.635548449	1102.6865	1.5	14	12.89	3	0	11	6	
EU-10	IVEU10RC301	Pu-239	2.59								1.430938981		1.5	14	12.89	3	0	11	11	
EU-10	IVEU10RC301	Pu-240	2.6								1.432213109		1.5	15	12.89	3	0	12	12	
EU-10	IVEU10RC301	Pu-241	406								225.8293531		1.5	15	12.89	3	0	12	12	
EU-10	IVEU10RC301	Ra-226	5	5	5			0.96	0.76	0.146116	2.5	17.109648	1.5	14	12.89	3	0	11	6	
EU-10	IVEU10RC301	Ra-228	3.2								1.6		1.5	14	12.89	3	0	11	11	

Table G-2
Radionuclide Data Gaps Calculation Summary
(Residential)

EU	SU	Analyte	Residential DCGL (piC/g)	Number of Valid Samples	Number of Detects	Number of Detection Uncertain	Number of Rejected Samples	Max Detected Result (piC/g)	Average (piC/g)	Std. Dev. (piC/g)	Delta Residential	Relative Shift	Test Shift	Statistically Required Number of Samples per Area Size	SU Acreage	SU Class	Remediation Test[a]	Risk Assessment Required Samples per SU	Risk Assessment Data Gap Rural Residential	Risk Assessment Radiological Samples per SU required
EU-10	IVEU10RC301	Sb-125	0.462								0.231442714		1.5	15	12.89	3	0	12	12	
EU-10	IVEU10RC301	Sr-90	0.231	5	5			0.071	0.0296	0.027052	1.960528741	72.473129	1.5	14	12.89	3	0	11	6	
EU-10	IVEU10RC301	Tc-99	0.25								48.16625994		1.5	15	12.89	3	0	12	12	
EU-10	IVEU10RC301	Th-228	3.2	5	5			1.5	1.096	0.34217	1.6	4.6760444	1.5	14	12.89	3	0	11	6	
EU-10	IVEU10RC301	Th-230	3.49	5	5			1.1	0.86	0.228145	1.909550267	8.3699088	1.5	14	12.89	3	0	11	6	
EU-10	IVEU10RC301	Th-232	3.1	5	5			1.4	1.044	0.285009	1.699812707	5.9640715	1.5	14	12.89	3	0	11	6	
EU-10	IVEU10RC301	Tritium (H-3)	2.28	2	2			0.023	0.0095	0.019092	1.345023403	70.450013	1.5	14	12.89	3	0	11	9	
EU-10	IVEU10RC301	U-234	4.01								2.483402446		1.5	14	12.89	3	0	11	11	
EU-10	IVEU10RC301	U-235	0.195	5	5			0.057	0.042	0.009823	0.098571969	10.034362	1.5	14	12.89	3	0	11	6	
EU-10	IVEU10RC301	U-238	2.6	5	5			1.1	0.862	0.219249	1.3	5.9293391	1.5	14	12.89	3	0	11	6	12
EU-11	IVEU11RC101	Ac-228	3.2	1	1			1.33	1.33		1.6		1.5	14	1.97	1	0	14	13	
EU-11	IVEU11RC101	Am-241	1.87	3	2			0.011	0.0236667	0.027301	0.983259209	36.015774	1.5	15	1.97	1	0	15	12	
EU-11	IVEU11RC101	Ba-133	0.175								0.087668644		1.5	15	1.97	1	0	15	15	
EU-11	IVEU11RC101	C-14	0.456								139.7005115		1.5	15	1.97	1	0	15	15	
EU-11	IVEU11RC101	Cm-243/244	0.349								0.175489416		1.5	15	1.97	1	0	15	15	
EU-11	IVEU11RC101	Co-60	0.0361	2	2		187	-0.001	-0.008	0.009899	0.018119848	1.8303811	1.5	15	1.97	1	0	15	13	
EU-11	IVEU11RC101	Cs-134	0.157	188	2			0.044	0.0743564	0.006931	0.07919429	11.426179	3	11	1.97	1	0	11	0	
EU-11	IVEU11RC101	Cs-137	0.48	195	3			1.2	0.0866333	0.106823	0.24	2.246703	2.246703	10	1.97	1	0	10	0	
EU-11	IVEU11RC101	Eu-152	0.0416	2	2			-0.009	-0.0545	0.064347	0.020814406	0.3234727	1.5	15	1.97	1	0	15	13	
EU-11	IVEU11RC101	Eu-154	0.0499	2	2			0.33	0.161	0.239002	0.024950155	0.104393	1.5	15	1.97	1	0	15	13	
EU-11	IVEU11RC101	Eu-155	3.8								1.903322648		1.5	15	1.97	1	0	15	15	
EU-11	IVEU11RC101	Fe-55	2690								1461.911262		1.5	15	1.97	1	0	15	15	
EU-11	IVEU11RC101	I-129	0.596								1.262193866		1.5	15	1.97	1	0	15	15	
EU-11	IVEU11RC101	K-40	60	191	191			21.8	14.84356	1.846787	30	16.244429	3	8	1.97	1	0	8	0	
EU-11	IVEU11RC101	Na-22	0.0865	2	2			0.023	-0.0155	0.054447	0.043308929	0.7954295	1.5	15	1.97	1	0	15	13	
EU-11	IVEU11RC101	Ni-59	208								541.446433		1.5	15	1.97	1	0	15	15	
EU-11	IVEU11RC101	Ni-63	94.8								246.5901147		1.5	15	1.97	1	0	15	15	
EU-11	IVEU11RC101	Np-237	0.13								0.068047461		1.5	15	1.97	1	0	15	15	
EU-11	IVEU11RC101	Pb-210	5								2.5		1.5	14	1.97	1	0	14	14	
EU-11	IVEU11RC101	Pu-238	2.97	5	5			0.01	0.0028	0.005848	1.635548449	279.67288	1.5	14	1.97	1	0	14	9	
EU-11	IVEU11RC101	Pu-239	2.59								1.430938981		1.5	14	1.97	1	0	14	14	
EU-11	IVEU11RC101	Pu-240	2.6								1.432213109		1.5	15	1.97	1	0	15	15	
EU-11	IVEU11RC101	Pu-241	406	2	2			1.1	0.645	0.643467	225.8293531	350.95707	1.5	15	1.97	1	0	15	13	
EU-11	IVEU11RC101	Ra-226	5	4	4			4	2.03	1.573997	2.5	1.588313	1.5	14	1.97	1	0	14	10	
EU-11	IVEU11RC101	Ra-228	3.2	1	1			1.33	1.33		1.6		1.5	14	1.97	1	0	14	13	
EU-11	IVEU11RC101	Sb-125	0.462								0.231442714		1.5	15	1.97	1	0	15	15	
EU-11	IVEU11RC101	Sr-90	0.231	4	4			0.1	0.03075	0.047675	1.960528741	41.122684	1.5	14	1.97	1	0	14	10	
EU-11	IVEU11RC101	Tc-99	0.25								48.16625994		1.5	15	1.97	1	0	15	15	
EU-11	IVEU11RC101	Th-228	3.2	4	4			1.1	0.855	0.29149	1.6	5.4890311	1.5	14	1.97	1	0	14	10	
EU-11	IVEU11RC101	Th-230	3.49	4	4			0.92	0.615	0.228108	1.909550267	8.3712492	1.5	14	1.97	1	0	14	10	
EU-11	IVEU11RC101	Th-232	3.1	192	192			1.36	0.8613542	0.155308	1.699812707	10.944764	3	8	1.97	1	0	8	0	
EU-11	IVEU11RC101	Tritium (H-3)	2.28								1.345023403		1.5	14	1.97	1	0	14	14	
EU-11	IVEU11RC101	U-234	4.01	2	2			1.52	1.15	0.523259	2.483402446	4.7460289	1.5	14	1.97	1	0	14	12	
EU-11	IVEU11RC101	U-235	0.195	5	4			0.131	0.094	0.064896	0.098571969	1.5189204	1.5	14	1.97	1	0	14	9	
EU-11	IVEU11RC101	U-238	2.6	192	192			1.68	0.6388542	0.133553	1.3	9.7339707	3	8	1.97	1	0	8	0	15
EU-11	IVEU11RC102	Ac-228	3.2								1.6		1.5	14	0.30	1	0	3	3	
EU-11	IVEU11RC102	Am-241	1.87								0.983259209		1.5	15	0.30	1	0	3	3	
EU-11	IVEU11RC102	Ba-133	0.175								0.087668644		1.5	15	0.30	1	0	3	3	
EU-11	IVEU11RC102	C-14	0.456								139.7005115		1.5	15	0.30	1	0	3	3	
EU-11	IVEU11RC102	Cm-243/244	0.349								0.175489416		1.5	15	0.30	1	0	3	3	
EU-11	IVEU11RC102	Co-60	0.0361								0.018119848		1.5	15	0.30	1	0	3	3	
EU-11	IVEU11RC102	Cs-134	0.157								0.07919429		1.5	15	0.30	1	0	3	3	
EU-11	IVEU11RC102	Cs-137	0.48	12	1			0.06	0.02875	0.010687	0.24	22.457921	3	8	0.30	1	0	2	0	
EU-11	IVEU11RC102	Eu-152	0.0416								0.020814406		1.5	15	0.30	1	0	3	3	
EU-11	IVEU11RC102	Eu-154	0.0499								0.024950155		1.5	15	0.30	1	0	3	3	
EU-11	IVEU11RC102	Eu-155	3.8								1.903322648		1.5	15	0.30	1	0	3	3	
EU-11	IVEU11RC102	Fe-55	2690								1461.911262		1.5	15	0.30	1	0	3	3	

Table G-2
Radionuclide Data Gaps Calculation Summary
(Residential)

EU	SU	Analyte	Residential DCGL (piC/g)	Number of Valid Samples	Number of Detects	Number of Detection Uncertain	Number of Rejected Samples	Max Detected Result (piC/g)	Average (piC/g)	Std. Dev. (piC/g)	Delta Residential	Relative Shift	Test Shift	Statistically Required Number of Samples per Area Size	SU Acreage	SU Class	Remediation Test[a]	Risk Assessment Required Samples per SU	Risk Assessment Data Gap Rural Residential	Risk Assessment Radiological Samples per SU required
EU-11	IVEU11RC102	I-129	0.596								1.262193866		1.5	15	0.30	1	0	3	3	
EU-11	IVEU11RC102	K-40	60	12	12			20	16.916667	1.378954	30	21.755615	3	8	0.30	1	0	2	0	
EU-11	IVEU11RC102	Na-22	0.0865								0.043308929		1.5	15	0.30	1	0	3	3	
EU-11	IVEU11RC102	Ni-59	208								541.446433		1.5	15	0.30	1	0	3	3	
EU-11	IVEU11RC102	Ni-63	94.8								246.5901147		1.5	15	0.30	1	0	3	3	
EU-11	IVEU11RC102	Np-237	0.13								0.068047461		1.5	15	0.30	1	0	3	3	
EU-11	IVEU11RC102	Pb-210	5								2.5		1.5	14	0.30	1	0	3	3	
EU-11	IVEU11RC102	Pu-238	2.97	12	12			0.005	-0.000167	0.004469	1.635548449	365.99713	3	8	0.30	1	0	2	0	
EU-11	IVEU11RC102	Pu-239	2.59								1.430938981		1.5	14	0.30	1	0	3	3	
EU-11	IVEU11RC102	Pu-240	2.6								1.432213109		1.5	15	0.30	1	0	3	3	
EU-11	IVEU11RC102	Pu-241	406								225.8293531		1.5	15	0.30	1	0	3	3	
EU-11	IVEU11RC102	Ra-226	5	12	12			0.85	0.7525	0.077122	2.5	32.416378	3	8	0.30	1	0	2	0	
EU-11	IVEU11RC102	Ra-228	3.2								1.6		1.5	14	0.30	1	0	3	3	
EU-11	IVEU11RC102	Sb-125	0.462								0.231442714		1.5	15	0.30	1	0	3	3	
EU-11	IVEU11RC102	Sr-90	0.231	13	13			1.9	0.2188462	0.508414	1.960528741	3.8561646	3	8	0.30	1	1	2	0	
EU-11	IVEU11RC102	Tc-99	0.25								48.16625994		1.5	15	0.30	1	0	3	3	
EU-11	IVEU11RC102	Th-228	3.2								1.6		1.5	14	0.30	1	0	3	3	
EU-11	IVEU11RC102	Th-230	3.49	12	12			1	0.8858333	0.084149	1.909550267	22.692479	3	8	0.30	1	0	2	0	
EU-11	IVEU11RC102	Th-232	3.1	12	12			1.4	1.1991667	0.149573	1.699812707	11.364464	3	8	0.30	1	0	2	0	
EU-11	IVEU11RC102	Tritium (H-3)	2.28	12	12			0.11	0.0139167	0.054906	1.345023403	24.497001	3	8	0.30	1	0	2	0	
EU-11	IVEU11RC102	U-234	4.01								2.483402446		1.5	14	0.30	1	0	3	3	
EU-11	IVEU11RC102	U-235	0.195	12	12			0.052	0.04125	0.008572	0.098571969	11.499446	3	8	0.30	1	0	2	0	
EU-11	IVEU11RC102	U-238	2.6	12	12			0.94	0.8141667	0.051779	1.3	25.106723	3	8	0.30	1	0	2	0	3
EU-11	IVEU11RC201	Ac-228	3.2								1.6		1.5	14	0.46	2	0	1	1	
EU-11	IVEU11RC201	Am-241	1.87								0.983259209		1.5	15	0.46	2	0	1	1	
EU-11	IVEU11RC201	Ba-133	0.175								0.087668644		1.5	15	0.46	2	0	1	1	
EU-11	IVEU11RC201	C-14	0.456								139.7005115		1.5	15	0.46	2	0	1	1	
EU-11	IVEU11RC201	Cm-243/244	0.349								0.175489416		1.5	15	0.46	2	0	1	1	
EU-11	IVEU11RC201	Co-60	0.0361								0.018119848		1.5	15	0.46	2	0	1	1	
EU-11	IVEU11RC201	Cs-134	0.157								0.07919429		1.5	15	0.46	2	0	1	1	
EU-11	IVEU11RC201	Cs-137	0.48								0.24		1.5	14	0.46	2	0	1	1	
EU-11	IVEU11RC201	Eu-152	0.0416								0.020814406		1.5	15	0.46	2	0	1	1	
EU-11	IVEU11RC201	Eu-154	0.0499								0.024950155		1.5	15	0.46	2	0	1	1	
EU-11	IVEU11RC201	Eu-155	3.8								1.903322648		1.5	15	0.46	2	0	1	1	
EU-11	IVEU11RC201	Fe-55	2690								1461.911262		1.5	15	0.46	2	0	1	1	
EU-11	IVEU11RC201	I-129	0.596								1.262193866		1.5	15	0.46	2	0	1	1	
EU-11	IVEU11RC201	K-40	60								30		1.5	14	0.46	2	0	1	1	
EU-11	IVEU11RC201	Na-22	0.0865								0.043308929		1.5	15	0.46	2	0	1	1	
EU-11	IVEU11RC201	Ni-59	208								541.446433		1.5	15	0.46	2	0	1	1	
EU-11	IVEU11RC201	Ni-63	94.8								246.5901147		1.5	15	0.46	2	0	1	1	
EU-11	IVEU11RC201	Np-237	0.13								0.068047461		1.5	15	0.46	2	0	1	1	
EU-11	IVEU11RC201	Pb-210	5								2.5		1.5	14	0.46	2	0	1	1	
EU-11	IVEU11RC201	Pu-238	2.97								1.635548449		1.5	14	0.46	2	0	1	1	
EU-11	IVEU11RC201	Pu-239	2.59								1.430938981		1.5	14	0.46	2	0	1	1	
EU-11	IVEU11RC201	Pu-240	2.6								1.432213109		1.5	15	0.46	2	0	1	1	
EU-11	IVEU11RC201	Pu-241	406								225.8293531		1.5	15	0.46	2	0	1	1	
EU-11	IVEU11RC201	Ra-226	5								2.5		1.5	14	0.46	2	0	1	1	
EU-11	IVEU11RC201	Ra-228	3.2								1.6		1.5	14	0.46	2	0	1	1	
EU-11	IVEU11RC201	Sb-125	0.462								0.231442714		1.5	15	0.46	2	0	1	1	
EU-11	IVEU11RC201	Sr-90	0.231								1.960528741		1.5	14	0.46	2	0	1	1	
EU-11	IVEU11RC201	Tc-99	0.25								48.16625994		1.5	15	0.46	2	0	1	1	
EU-11	IVEU11RC201	Th-228	3.2								1.6		1.5	14	0.46	2	0	1	1	
EU-11	IVEU11RC201	Th-230	3.49								1.909550267		1.5	14	0.46	2	0	1	1	
EU-11	IVEU11RC201	Th-232	3.1								1.699812707		1.5	14	0.46	2	0	1	1	
EU-11	IVEU11RC201	Tritium (H-3)	2.28								1.345023403		1.5	14	0.46	2	0	1	1	
EU-11	IVEU11RC201	U-234	4.01								2.483402446		1.5	14	0.46	2	0	1	1	
EU-11	IVEU11RC201	U-235	0.195								0.098571969		1.5	14	0.46	2	0	1	1	

Table G-2
Radionuclide Data Gaps Calculation Summary
(Residential)

EU	SU	Analyte	Residential DCGL (piC/g)	Number of Valid Samples	Number of Detects	Number of Detection Uncertain	Number of Rejected Samples	Max Detected Result (piC/g)	Average (piC/g)	Std. Dev. (piC/g)	Delta Residential	Relative Shift	Test Shift	Statistically Required Number of Samples per Area Size	SU Acreage	SU Class	Remediation Test[a]	Risk Assessment Required Samples per SU	Risk Assessment Data Gap Rural Residential	Risk Assessment Radiological Samples per SU required
EU-11	IVEU11RC201	U-238	2.6								1.3		1.5	14	0.46	2	0	1	1	1
EU-11	IVEU11RC202	Ac-228	3.2								1.6		1.5	14	0.51	2	0	1	1	
EU-11	IVEU11RC202	Am-241	1.87								0.983259209		1.5	15	0.51	2	0	1	1	
EU-11	IVEU11RC202	Ba-133	0.175								0.087668644		1.5	15	0.51	2	0	1	1	
EU-11	IVEU11RC202	C-14	0.456								139.7005115		1.5	15	0.51	2	0	1	1	
EU-11	IVEU11RC202	Cm-243/244	0.349								0.175489416		1.5	15	0.51	2	0	1	1	
EU-11	IVEU11RC202	Co-60	0.0361								0.018119848		1.5	15	0.51	2	0	1	1	
EU-11	IVEU11RC202	Cs-134	0.157								0.07919429		1.5	15	0.51	2	0	1	1	
EU-11	IVEU11RC202	Cs-137	0.48	4	4			0.12	0.089425	0.022331	0.24	10.747583	1.5	14	0.51	2	0	1	0	
EU-11	IVEU11RC202	Eu-152	0.0416								0.020814406		1.5	15	0.51	2	0	1	1	
EU-11	IVEU11RC202	Eu-154	0.0499								0.024950155		1.5	15	0.51	2	0	1	1	
EU-11	IVEU11RC202	Eu-155	3.8								1.903322648		1.5	15	0.51	2	0	1	1	
EU-11	IVEU11RC202	Fe-55	2690								1461.911262		1.5	15	0.51	2	0	1	1	
EU-11	IVEU11RC202	I-129	0.596								1.262193866		1.5	15	0.51	2	0	1	1	
EU-11	IVEU11RC202	K-40	60	3	3			26.5	22.166667	3.883727	30	7.7245394	1.5	14	0.51	2	0	1	0	
EU-11	IVEU11RC202	Na-22	0.0865								0.043308929		1.5	15	0.51	2	0	1	1	
EU-11	IVEU11RC202	Ni-59	208								541.446433		1.5	15	0.51	2	0	1	1	
EU-11	IVEU11RC202	Ni-63	94.8								246.5901147		1.5	15	0.51	2	0	1	1	
EU-11	IVEU11RC202	Np-237	0.13								0.068047461		1.5	15	0.51	2	0	1	1	
EU-11	IVEU11RC202	Pb-210	5	1	1			1.31	1.31		2.5		1.5	14	0.51	2	0	1	0	
EU-11	IVEU11RC202	Pu-238	2.97	3	3			0.001	-0.002333	0.004933	1.635548449	331.56037	1.5	14	0.51	2	0	1	0	
EU-11	IVEU11RC202	Pu-239	2.59								1.430938981		1.5	14	0.51	2	0	1	1	
EU-11	IVEU11RC202	Pu-240	2.6								1.432213109		1.5	15	0.51	2	0	1	1	
EU-11	IVEU11RC202	Pu-241	406								225.8293531		1.5	15	0.51	2	0	1	1	
EU-11	IVEU11RC202	Ra-226	5	4	4			0.97	0.87175	0.096327	2.5	25.953227	1.5	14	0.51	2	0	1	0	
EU-11	IVEU11RC202	Ra-228	3.2	1	1			0.809	0.809		1.6		1.5	14	0.51	2	0	1	0	
EU-11	IVEU11RC202	Sb-125	0.462								0.231442714		1.5	15	0.51	2	0	1	1	
EU-11	IVEU11RC202	Sr-90	0.231	3	3			0.12	0.064	0.053254	1.960528741	36.814601	1.5	14	0.51	2	0	1	0	
EU-11	IVEU11RC202	Tc-99	0.25								48.16625994		1.5	15	0.51	2	0	1	1	
EU-11	IVEU11RC202	Th-228	3.2	2	2			1.42	1.26	0.226274	1.6	7.0710678	1.5	14	0.51	2	0	1	0	
EU-11	IVEU11RC202	Th-230	3.49	4	4			1.45	1.08	0.2502	1.909550267	7.6320978	1.5	14	0.51	2	0	1	0	
EU-11	IVEU11RC202	Th-232	3.1	4	4			1.4	1.25	0.129099	1.699812707	13.166693	1.5	14	0.51	2	0	1	0	
EU-11	IVEU11RC202	Tritium (H-3)	2.28	2	2			-0.05	-0.0665	0.023335	1.345023403	57.640919	1.5	14	0.51	2	0	1	0	
EU-11	IVEU11RC202	U-234	4.01	1	1			1.53	1.53		2.483402446		1.5	14	0.51	2	0	1	0	
EU-11	IVEU11RC202	U-235	0.195	4	4			0.0662	0.05055	0.011989	0.098571969	8.2216612	1.5	14	0.51	2	0	1	0	
EU-11	IVEU11RC202	U-238	2.6	4	4			1.53	0.93	0.409634	1.3	3.1735648	1.5	14	0.51	2	0	1	0	1
EU-11	IVEU11RC203	Ac-228	3.2								1.6		1.5	14	0.45	2	0	1	1	
EU-11	IVEU11RC203	Am-241	1.87								0.983259209		1.5	15	0.45	2	0	1	1	
EU-11	IVEU11RC203	Ba-133	0.175								0.087668644		1.5	15	0.45	2	0	1	1	
EU-11	IVEU11RC203	C-14	0.456								139.7005115		1.5	15	0.45	2	0	1	1	
EU-11	IVEU11RC203	Cm-243/244	0.349								0.175489416		1.5	15	0.45	2	0	1	1	
EU-11	IVEU11RC203	Co-60	0.0361								0.018119848		1.5	15	0.45	2	0	1	1	
EU-11	IVEU11RC203	Cs-134	0.157								0.07919429		1.5	15	0.45	2	0	1	1	
EU-11	IVEU11RC203	Cs-137	0.48								0.24		1.5	14	0.45	2	0	1	1	
EU-11	IVEU11RC203	Eu-152	0.0416								0.020814406		1.5	15	0.45	2	0	1	1	
EU-11	IVEU11RC203	Eu-154	0.0499								0.024950155		1.5	15	0.45	2	0	1	1	
EU-11	IVEU11RC203	Eu-155	3.8								1.903322648		1.5	15	0.45	2	0	1	1	
EU-11	IVEU11RC203	Fe-55	2690								1461.911262		1.5	15	0.45	2	0	1	1	
EU-11	IVEU11RC203	I-129	0.596								1.262193866		1.5	15	0.45	2	0	1	1	
EU-11	IVEU11RC203	K-40	60								30		1.5	14	0.45	2	0	1	1	
EU-11	IVEU11RC203	Na-22	0.0865								0.043308929		1.5	15	0.45	2	0	1	1	
EU-11	IVEU11RC203	Ni-59	208								541.446433		1.5	15	0.45	2	0	1	1	
EU-11	IVEU11RC203	Ni-63	94.8								246.5901147		1.5	15	0.45	2	0	1	1	
EU-11	IVEU11RC203	Np-237	0.13								0.068047461		1.5	15	0.45	2	0	1	1	
EU-11	IVEU11RC203	Pb-210	5								2.5		1.5	14	0.45	2	0	1	1	
EU-11	IVEU11RC203	Pu-238	2.97								1.635548449		1.5	14	0.45	2	0	1	1	
EU-11	IVEU11RC203	Pu-239	2.59								1.430938981		1.5	14	0.45	2	0	1	1	

Table G-2
Radionuclide Data Gaps Calculation Summary
(Residential)

EU	SU	Analyte	Residential DCGL (piC/g)	Number of Valid Samples	Number of Detects	Number of Detection Uncertain	Number of Rejected Samples	Max Detected Result (piC/g)	Average (piC/g)	Std. Dev. (piC/g)	Delta Residential	Relative Shift	Test Shift	Statistically Required Number of Samples per Area Size	SU Acreage	SU Class	Remediation Test[a]	Risk Assessment Required Samples per SU	Risk Assessment Data Gap Rural Residential	Risk Assessment Radiological Samples per SU required
EU-11	IVEU11RC203	Pu-240	2.6								1.432213109		1.5	15	0.45	2	0	1	1	
EU-11	IVEU11RC203	Pu-241	406								225.8293531		1.5	15	0.45	2	0	1	1	
EU-11	IVEU11RC203	Ra-226	5								2.5		1.5	14	0.45	2	0	1	1	
EU-11	IVEU11RC203	Ra-228	3.2								1.6		1.5	14	0.45	2	0	1	1	
EU-11	IVEU11RC203	Sb-125	0.462								0.231442714		1.5	15	0.45	2	0	1	1	
EU-11	IVEU11RC203	Sr-90	0.231								1.960528741		1.5	14	0.45	2	0	1	1	
EU-11	IVEU11RC203	Tc-99	0.25								48.16625994		1.5	15	0.45	2	0	1	1	
EU-11	IVEU11RC203	Th-228	3.2								1.6		1.5	14	0.45	2	0	1	1	
EU-11	IVEU11RC203	Th-230	3.49								1.909550267		1.5	14	0.45	2	0	1	1	
EU-11	IVEU11RC203	Th-232	3.1								1.699812707		1.5	14	0.45	2	0	1	1	
EU-11	IVEU11RC203	Tritium (H-3)	2.28								1.345023403		1.5	14	0.45	2	0	1	1	
EU-11	IVEU11RC203	U-234	4.01								2.483402446		1.5	14	0.45	2	0	1	1	
EU-11	IVEU11RC203	U-235	0.195								0.098571969		1.5	14	0.45	2	0	1	1	
EU-11	IVEU11RC203	U-238	2.6								1.3		1.5	14	0.45	2	0	1	1	1
EU-11	IVEU11RC301	Ac-228	3.2								1.6		1.5	14	14.05	3	0	12	12	
EU-11	IVEU11RC301	Am-241	1.87								0.983259209		1.5	15	14.05	3	0	13	13	
EU-11	IVEU11RC301	Ba-133	0.175								0.087668644		1.5	15	14.05	3	0	13	13	
EU-11	IVEU11RC301	C-14	0.456								139.7005115		1.5	15	14.05	3	0	13	13	
EU-11	IVEU11RC301	Cm-243/244	0.349								0.175489416		1.5	15	14.05	3	0	13	13	
EU-11	IVEU11RC301	Co-60	0.0361				5				0.018119848		1.5	15	14.05	3	0	13	13	
EU-11	IVEU11RC301	Cs-134	0.157	5					0.075	0	0.07919429		1.5	15	14.05	3	0	13	8	
EU-11	IVEU11RC301	Cs-137	0.48	20	12			0.24	0.0810526	0.056877	0.24	4.2196655	3	8	14.05	3	0	7	0	
EU-11	IVEU11RC301	Eu-152	0.0416								0.020814406		1.5	15	14.05	3	0	13	13	
EU-11	IVEU11RC301	Eu-154	0.0499								0.024950155		1.5	15	14.05	3	0	13	13	
EU-11	IVEU11RC301	Eu-155	3.8								1.903322648		1.5	15	14.05	3	0	13	13	
EU-11	IVEU11RC301	Fe-55	2690								1461.911262		1.5	15	14.05	3	0	13	13	
EU-11	IVEU11RC301	I-129	0.596								1.262193866		1.5	15	14.05	3	0	13	13	
EU-11	IVEU11RC301	K-40	60	20	20			21	17.486	2.564639	30	11.697553	3	8	14.05	3	0	7	0	
EU-11	IVEU11RC301	Na-22	0.0865								0.043308929		1.5	15	14.05	3	0	13	13	
EU-11	IVEU11RC301	Ni-59	208								541.446433		1.5	15	14.05	3	0	13	13	
EU-11	IVEU11RC301	Ni-63	94.8								246.5901147		1.5	15	14.05	3	0	13	13	
EU-11	IVEU11RC301	Np-237	0.13								0.068047461		1.5	15	14.05	3	0	13	13	
EU-11	IVEU11RC301	Pb-210	5								2.5		1.5	14	14.05	3	0	12	12	
EU-11	IVEU11RC301	Pu-238	2.97	13	13			0.009	0.0012308	0.003295	1.635548449	496.32827	3	8	14.05	3	0	7	0	
EU-11	IVEU11RC301	Pu-239	2.59								1.430938981		1.5	14	14.05	3	0	12	12	
EU-11	IVEU11RC301	Pu-240	2.6								1.432213109		1.5	15	14.05	3	0	13	13	
EU-11	IVEU11RC301	Pu-241	406								225.8293531		1.5	15	14.05	3	0	13	13	
EU-11	IVEU11RC301	Ra-226	5	13	13			0.89	0.7576923	0.064956	2.5	38.487825	3	8	14.05	3	0	7	0	
EU-11	IVEU11RC301	Ra-228	3.2								1.6		1.5	14	14.05	3	0	12	12	
EU-11	IVEU11RC301	Sb-125	0.462								0.231442714		1.5	15	14.05	3	0	13	13	
EU-11	IVEU11RC301	Sr-90	0.231	13	13			0.092	0.0236154	0.032958	1.960528741	59.484941	3	8	14.05	3	0	7	0	
EU-11	IVEU11RC301	Tc-99	0.25								48.16625994		1.5	15	14.05	3	0	13	13	
EU-11	IVEU11RC301	Th-228	3.2	13	13			1.6	1.25	0.247857	1.6	6.4553225	3	8	14.05	3	0	7	0	
EU-11	IVEU11RC301	Th-230	3.49	13	13			1.2	0.9946154	0.205208	1.909550267	9.3054451	3	8	14.05	3	0	7	0	
EU-11	IVEU11RC301	Th-232	3.1	18	18			1.5	1.0855556	0.300983	1.699812707	5.6475347	3	8	14.05	3	0	7	0	
EU-11	IVEU11RC301	Tritium (H-3)	2.28	8	8			0.073	0.049875	0.021122	1.345023403	63.679781	3	8	14.05	3	0	7	0	
EU-11	IVEU11RC301	U-234	4.01								2.483402446		1.5	14	14.05	3	0	12	12	
EU-11	IVEU11RC301	U-235	0.195	14	14			0.069	0.0392143	0.012565	0.098571969	7.8451028	3	8	14.05	3	0	7	0	
EU-11	IVEU11RC301	U-238	2.6	18	18			0.86	0.6972222	0.103969	1.3	12.503771	3	8	14.05	3	0	7	0	13
EU-12	IVEU12RC101	Ac-228	3.2	40	40			1.69	1.31375	0.146807	1.6	10.898676	3	8	0.38	1	0	2	0	
EU-12	IVEU12RC101	Am-241	1.87	40	40			0.12	-0.005325	0.05005	0.983259209	19.64537	3	11	0.38	1	0	3	0	
EU-12	IVEU12RC101	Ba-133	0.175								0.087668644		1.5	15	0.38	1	0	3	3	
EU-12	IVEU12RC101	C-14	0.456								139.7005115		1.5	15	0.38	1	0	3	3	
EU-12	IVEU12RC101	Cm-243/244	0.349								0.175489416		1.5	15	0.38	1	0	3	3	
EU-12	IVEU12RC101	Co-60	0.0361	40	40			0.095	0.002925	0.028613	0.018119848	0.6332799	0.6332799	52	0.38	1	1	10	0	
EU-12	IVEU12RC101	Cs-134	0.157	40	40			0.052	0.001	0.023668	0.07919429	3.34611	3	11	0.38	1	0	3	0	
EU-12	IVEU12RC101	Cs-137	0.48	46	40			0.078	0.0125652	0.030304	0.24	7.9196655	3	8	0.38	1	0	2	0	

Table G-2
Radionuclide Data Gaps Calculation Summary
(Residential)

EU	SU	Analyte	Residential DCGL (piC/g)	Number of Valid Samples	Number of Detects	Number of Detection Uncertain	Number of Rejected Samples	Max Detected Result (piC/g)	Average (piC/g)	Std. Dev. (piC/g)	Delta Residential	Relative Shift	Test Shift	Statistically Required Number of Samples per Area Size	SU Acreage	SU Class	Remediation Test[a]	Risk Assessment Required Samples per SU	Risk Assessment Data Gap Rural Residential	Risk Assessment Radiological Samples per SU required
EU-12	IVEU12RC101	Eu-152	0.0416	40	40			0.09	0.0051175	0.050554	0.020814406	0.4117254	0.4117254	107	0.38	1	1	21	0	
EU-12	IVEU12RC101	Eu-154	0.0499	40	40			0.4	-0.005575	0.180312	0.024950155	0.1383725	0.1383725	1620	0.38	1	1	309	269	
EU-12	IVEU12RC101	Eu-155	3.8								1.903322648		1.5	15	0.38	1	0	3	3	
EU-12	IVEU12RC101	Fe-55	2690								1461.911262		1.5	15	0.38	1	0	3	3	
EU-12	IVEU12RC101	I-129	0.596								1.262193866		1.5	15	0.38	1	0	3	3	
EU-12	IVEU12RC101	K-40	60	43	43			23.3	20.676744	1.380448	30	21.732075	3	8	0.38	1	0	2	0	
EU-12	IVEU12RC101	Na-22	0.0865								0.043308929		1.5	15	0.38	1	0	3	3	
EU-12	IVEU12RC101	Ni-59	208								541.446433		1.5	15	0.38	1	0	3	3	
EU-12	IVEU12RC101	Ni-63	94.8								246.5901147		1.5	15	0.38	1	0	3	3	
EU-12	IVEU12RC101	Np-237	0.13								0.068047461		1.5	15	0.38	1	0	3	3	
EU-12	IVEU12RC101	Pb-210	5								2.5		1.5	14	0.38	1	0	3	3	
EU-12	IVEU12RC101	Pu-238	2.97	46	46			0.08	0.0062609	0.020268	1.635548449	80.697759	3	8	0.38	1	0	2	0	
EU-12	IVEU12RC101	Pu-239	2.59								1.430938981		1.5	14	0.38	1	0	3	3	
EU-12	IVEU12RC101	Pu-240	2.6								1.432213109		1.5	15	0.38	1	0	3	3	
EU-12	IVEU12RC101	Pu-241	406	42	42			4.4	-0.022362	1.504178	225.8293531	150.13471	3	11	0.38	1	0	3	0	
EU-12	IVEU12RC101	Ra-226	5	3	3			0.87	0.7966667	0.102144	2.5	24.475325	1.5	14	0.38	1	0	3	0	
EU-12	IVEU12RC101	Ra-228	3.2								1.6		1.5	14	0.38	1	0	3	3	
EU-12	IVEU12RC101	Sb-125	0.462								0.231442714		1.5	15	0.38	1	0	3	3	
EU-12	IVEU12RC101	Sr-90	0.231	41	40			0.48	0.1407073	0.112415	1.960528741	17.440044	3	8	0.38	1	0	2	0	
EU-12	IVEU12RC101	Tc-99	0.25								48.16625994		1.5	15	0.38	1	0	3	3	
EU-12	IVEU12RC101	Th-228	3.2	3	3			1	0.8733333	0.111505	1.6	14.349151	1.5	14	0.38	1	0	3	0	
EU-12	IVEU12RC101	Th-230	3.49	3	3			0.8	0.7066667	0.086217	1.909550267	22.148244	1.5	14	0.38	1	0	3	0	
EU-12	IVEU12RC101	Th-232	3.1	43	43			1.69	1.28	0.189297	1.699812707	8.9796098	3	8	0.38	1	0	2	0	
EU-12	IVEU12RC101	Tritium (H-3)	2.28	2	2			-0.002	-0.013	0.015556	1.345023403	86.461379	1.5	14	0.38	1	0	3	1	
EU-12	IVEU12RC101	U-234	4.01	44	44			1.15	0.8181818	0.130085	2.483402446	19.090562	3	8	0.38	1	0	2	0	
EU-12	IVEU12RC101	U-235	0.195	47	45			0.086	0.0385106	0.018367	0.098571969	5.3668326	3	8	0.38	1	0	2	0	
EU-12	IVEU12RC101	U-238	2.6	47	47			1.06	0.8246809	0.110922	1.3	11.719942	3	8	0.38	1	0	2	0	3
EU-12	IVEU12RC201	Ac-228	3.2								1.6		1.5	14	3.64	2	0	6	6	
EU-12	IVEU12RC201	Am-241	1.87								0.983259209		1.5	15	3.64	2	0	6	6	
EU-12	IVEU12RC201	Ba-133	0.175								0.087668644		1.5	15	3.64	2	0	6	6	
EU-12	IVEU12RC201	C-14	0.456								139.7005115		1.5	15	3.64	2	0	6	6	
EU-12	IVEU12RC201	Cm-243/244	0.349								0.175489416		1.5	15	3.64	2	0	6	6	
EU-12	IVEU12RC201	Co-60	0.0361				7				0.018119848		1.5	15	3.64	2	0	6	6	
EU-12	IVEU12RC201	Cs-134	0.157	7					0.075	1.15E-09	0.07919429	68885592	1.5	15	3.64	2	0	6	0	
EU-12	IVEU12RC201	Cs-137	0.48	11	4			0.13	0.0820727	0.020051	0.24	11.969246	3	8	3.64	2	0	3	0	
EU-12	IVEU12RC201	Eu-152	0.0416								0.020814406		1.5	15	3.64	2	0	6	6	
EU-12	IVEU12RC201	Eu-154	0.0499								0.024950155		1.5	15	3.64	2	0	6	6	
EU-12	IVEU12RC201	Eu-155	3.8								1.903322648		1.5	15	3.64	2	0	6	6	
EU-12	IVEU12RC201	Fe-55	2690								1461.911262		1.5	15	3.64	2	0	6	6	
EU-12	IVEU12RC201	I-129	0.596								1.262193866		1.5	15	3.64	2	0	6	6	
EU-12	IVEU12RC201	K-40	60	11	11			21.1	15.830909	3.068161	30	9.7778456	3	8	3.64	2	0	3	0	
EU-12	IVEU12RC201	Na-22	0.0865								0.043308929		1.5	15	3.64	2	0	6	6	
EU-12	IVEU12RC201	Ni-59	208								541.446433		1.5	15	3.64	2	0	6	6	
EU-12	IVEU12RC201	Ni-63	94.8								246.5901147		1.5	15	3.64	2	0	6	6	
EU-12	IVEU12RC201	Np-237	0.13								0.068047461		1.5	15	3.64	2	0	6	6	
EU-12	IVEU12RC201	Pb-210	5	1	1			0.818	0.818		2.5		1.5	14	3.64	2	0	6	5	
EU-12	IVEU12RC201	Pu-238	2.97	3	3			0.001	0	0.001	1.635548449	1635.5484	1.5	14	3.64	2	0	6	3	
EU-12	IVEU12RC201	Pu-239	2.59								1.430938981		1.5	14	3.64	2	0	6	6	
EU-12	IVEU12RC201	Pu-240	2.6								1.432213109		1.5	15	3.64	2	0	6	6	
EU-12	IVEU12RC201	Pu-241	406								225.8293531		1.5	15	3.64	2	0	6	6	
EU-12	IVEU12RC201	Ra-226	5	4	4			0.81	0.75225	0.065271	2.5	38.302089	1.5	14	3.64	2	0	6	2	
EU-12	IVEU12RC201	Ra-228	3.2	1	1			1.32	1.32		1.6		1.5	14	3.64	2	0	6	5	
EU-12	IVEU12RC201	Sb-125	0.462								0.231442714		1.5	15	3.64	2	0	6	6	
EU-12	IVEU12RC201	Sr-90	0.231	3	3			0.061	0.031	0.029052	1.960528741	67.484182	1.5	14	3.64	2	0	6	3	
EU-12	IVEU12RC201	Tc-99	0.25								48.16625994		1.5	15	3.64	2	0	6	6	
EU-12	IVEU12RC201	Th-228	3.2	4	4			1.72	1.04	0.469965	1.6	3.4045122	1.5	14	3.64	2	0	6	2	
EU-12	IVEU12RC201	Th-230	3.49	4	4			1.14	0.86	0.237206	1.909550267	8.0501783	1.5	14	3.64	2	0	6	2	

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(Residential)

EU	SU	Analyte	Residential DCGL (piC/g)	Number of Valid Samples	Number of Detects	Number of Detection Uncertain	Number of Rejected Samples	Max Detected Result (piC/g)	Average (piC/g)	Std. Dev. (piC/g)	Delta Residential	Relative Shift	Test Shift	Statistically Required Number of Samples per Area Size	SU Acreage	SU Class	Remediation Test[a]	Risk Assessment Required Samples per SU	Risk Assessment Data Gap Rural Residential	Risk Assessment Radiological Samples per SU required
EU-12	IVEU12RC201	Th-232	3.1	11	11			1.5	0.9636364	0.242375	1.699812707	7.0131631	3	8	3.64	2	0	3	0	
EU-12	IVEU12RC201	Tritium (H-3)	2.28								1.345023403		1.5	14	3.64	2	0	6	6	
EU-12	IVEU12RC201	U-234	4.01	1	1			0.688	0.688		2.483402446		1.5	14	3.64	2	0	6	5	
EU-12	IVEU12RC201	U-235	0.195	4	4			0.045	0.037725	0.006322	0.098571969	15.591607	1.5	14	3.64	2	0	6	2	
EU-12	IVEU12RC201	U-238	2.6	11	11			0.87	0.7119091	0.125012	1.3	10.398971	3	8	3.64	2	0	3	0	6
EU-12	IVEU12RC301	Ac-228	3.2								1.6		1.5	14	15.29	3	0	13	13	
EU-12	IVEU12RC301	Am-241	1.87								0.983259209		1.5	15	15.29	3	0	14	14	
EU-12	IVEU12RC301	Ba-133	0.175								0.087668644		1.5	15	15.29	3	0	14	14	
EU-12	IVEU12RC301	C-14	0.456								139.7005115		1.5	15	15.29	3	0	14	14	
EU-12	IVEU12RC301	Cm-243/244	0.349								0.175489416		1.5	15	15.29	3	0	14	14	
EU-12	IVEU12RC301	Co-60	0.0361								0.018119848		1.5	15	15.29	3	0	14	14	
EU-12	IVEU12RC301	Cs-134	0.157								0.07919429		1.5	15	15.29	3	0	14	14	
EU-12	IVEU12RC301	Cs-137	0.48	9	3			0.17	0.0483333	0.061745	0.24	3.8869264	3	8	15.29	3	0	8	0	
EU-12	IVEU12RC301	Eu-152	0.0416								0.020814406		1.5	15	15.29	3	0	14	14	
EU-12	IVEU12RC301	Eu-154	0.0499								0.024950155		1.5	15	15.29	3	0	14	14	
EU-12	IVEU12RC301	Eu-155	3.8								1.903322648		1.5	15	15.29	3	0	14	14	
EU-12	IVEU12RC301	Fe-55	2690								1461.911262		1.5	15	15.29	3	0	14	14	
EU-12	IVEU12RC301	I-129	0.596								1.262193866		1.5	15	15.29	3	0	14	14	
EU-12	IVEU12RC301	K-40	60	9	9			24	19.777778	2.279132	30	13.162904	3	8	15.29	3	0	8	0	
EU-12	IVEU12RC301	Na-22	0.0865								0.043308929		1.5	15	15.29	3	0	14	14	
EU-12	IVEU12RC301	Ni-59	208								541.446433		1.5	15	15.29	3	0	14	14	
EU-12	IVEU12RC301	Ni-63	94.8								246.5901147		1.5	15	15.29	3	0	14	14	
EU-12	IVEU12RC301	Np-237	0.13								0.068047461		1.5	15	15.29	3	0	14	14	
EU-12	IVEU12RC301	Pb-210	5								2.5		1.5	14	15.29	3	0	13	13	
EU-12	IVEU12RC301	Pu-238	2.97	9	8			0.003	0.0006667	0.001936	1.635548449	844.59359	3	8	15.29	3	0	8	0	
EU-12	IVEU12RC301	Pu-239	2.59								1.430938981		1.5	14	15.29	3	0	13	13	
EU-12	IVEU12RC301	Pu-240	2.6								1.432213109		1.5	15	15.29	3	0	14	14	
EU-12	IVEU12RC301	Pu-241	406								225.8293531		1.5	15	15.29	3	0	14	14	
EU-12	IVEU12RC301	Ra-226	5	9	9			0.93	0.7733333	0.119269	2.5	20.96109	3	8	15.29	3	0	8	0	
EU-12	IVEU12RC301	Ra-228	3.2								1.6		1.5	14	15.29	3	0	13	13	
EU-12	IVEU12RC301	Sb-125	0.462								0.231442714		1.5	15	15.29	3	0	14	14	
EU-12	IVEU12RC301	Sr-90	0.231	9	9			0.11	0.0364444	0.046033	1.960528741	42.58973	3	8	15.29	3	0	8	0	
EU-12	IVEU12RC301	Tc-99	0.25								48.16625994		1.5	15	15.29	3	0	14	14	
EU-12	IVEU12RC301	Th-228	3.2	9	9			1.4	0.9477778	0.32085	1.6	4.9867607	3	8	15.29	3	0	8	0	
EU-12	IVEU12RC301	Th-230	3.49	9	9			1.2	0.79	0.271708	1.909550267	7.0279614	3	8	15.29	3	0	8	0	
EU-12	IVEU12RC301	Th-232	3.1	9	9			1.3	0.9233333	0.349929	1.699812707	4.8575992	3	8	15.29	3	0	8	0	
EU-12	IVEU12RC301	Tritium (H-3)	2.28	8	8			0.053	0.004	0.030687	1.345023403	43.829878	3	8	15.29	3	0	8	0	
EU-12	IVEU12RC301	U-234	4.01								2.483402446		1.5	14	15.29	3	0	13	13	
EU-12	IVEU12RC301	U-235	0.195	9	9			0.051	0.0413333	0.008322	0.098571969	11.845231	3	8	15.29	3	0	8	0	
EU-12	IVEU12RC301	U-238	2.6	9	9			0.96	0.7566667	0.136198	1.3	9.5449003	3	8	15.29	3	0	8	0	14
EU-13	IVEU13RC201	Ac-228	3.2								1.6		1.5	14	1.09	2	0	2	2	
EU-13	IVEU13RC201	Am-241	1.87								0.983259209		1.5	15	1.09	2	0	2	2	
EU-13	IVEU13RC201	Ba-133	0.175								0.087668644		1.5	15	1.09	2	0	2	2	
EU-13	IVEU13RC201	C-14	0.456								139.7005115		1.5	15	1.09	2	0	2	2	
EU-13	IVEU13RC201	Cm-243/244	0.349								0.175489416		1.5	15	1.09	2	0	2	2	
EU-13	IVEU13RC201	Co-60	0.0361								0.018119848		1.5	15	1.09	2	0	2	2	
EU-13	IVEU13RC201	Cs-134	0.157								0.07919429		1.5	15	1.09	2	0	2	2	
EU-13	IVEU13RC201	Cs-137	0.48	6	3			0.16	0.0658333	0.050241	0.24	4.7769669	1.5	14	1.09	2	0	2	0	
EU-13	IVEU13RC201	Eu-152	0.0416								0.020814406		1.5	15	1.09	2	0	2	2	
EU-13	IVEU13RC201	Eu-154	0.0499								0.024950155		1.5	15	1.09	2	0	2	2	
EU-13	IVEU13RC201	Eu-155	3.8								1.903322648		1.5	15	1.09	2	0	2	2	
EU-13	IVEU13RC201	Fe-55	2690								1461.911262		1.5	15	1.09	2	0	2	2	
EU-13	IVEU13RC201	I-129	0.596								1.262193866		1.5	15	1.09	2	0	2	2	
EU-13	IVEU13RC201	K-40	60	6	6			20	18.5	1.516575	30	19.781414	1.5	14	1.09	2	0	2	0	
EU-13	IVEU13RC201	Na-22	0.0865								0.043308929		1.5	15	1.09	2	0	2	2	
EU-13	IVEU13RC201	Ni-59	208								541.446433		1.5	15	1.09	2	0	2	2	
EU-13	IVEU13RC201	Ni-63	94.8								246.5901147		1.5	15	1.09	2	0	2	2	

Table G-2
Radionuclide Data Gaps Calculation Summary
(Residential)

EU	SU	Analyte	Residential DCGL (piC/g)	Number of Valid Samples	Number of Detects	Number of Detection Uncertain	Number of Rejected Samples	Max Detected Result (piC/g)	Average (piC/g)	Std. Dev. (piC/g)	Delta Residential	Relative Shift	Test Shift	Statistically Required Number of Samples per Area Size	SU Acreage	SU Class	Remediation Test[a]	Risk Assessment Required Samples per SU	Risk Assessment Data Gap Rural Residential	Risk Assessment Radiological Samples per SU required
EU-13	IVEU13RC201	Np-237	0.13								0.068047461		1.5	15	1.09	2	0	2	2	
EU-13	IVEU13RC201	Pb-210	5								2.5		1.5	14	1.09	2	0	2	2	
EU-13	IVEU13RC201	Pu-238	2.97	6	6			0.003	-0.000333	0.003077	1.635548449	531.5754	1.5	14	1.09	2	0	2	0	
EU-13	IVEU13RC201	Pu-239	2.59								1.430938981		1.5	14	1.09	2	0	2	2	
EU-13	IVEU13RC201	Pu-240	2.6								1.432213109		1.5	15	1.09	2	0	2	2	
EU-13	IVEU13RC201	Pu-241	406								225.8293531		1.5	15	1.09	2	0	2	2	
EU-13	IVEU13RC201	Ra-226	5	6	6			1	0.8366667	0.102892	2.5	24.297433	1.5	14	1.09	2	0	2	0	
EU-13	IVEU13RC201	Ra-228	3.2								1.6		1.5	14	1.09	2	0	2	2	
EU-13	IVEU13RC201	Sb-125	0.462								0.231442714		1.5	15	1.09	2	0	2	2	
EU-13	IVEU13RC201	Sr-90	0.231	6	6			0.22	0.0681667	0.080948	1.960528741	24.219629	1.5	14	1.09	2	0	2	0	
EU-13	IVEU13RC201	Tc-99	0.25								48.16625994		1.5	15	1.09	2	0	2	2	
EU-13	IVEU13RC201	Th-228	3.2								1.6		1.5	14	1.09	2	0	2	2	
EU-13	IVEU13RC201	Th-230	3.49	6	6			0.94	0.7883333	0.089759	1.909550267	21.274208	1.5	14	1.09	2	0	2	0	
EU-13	IVEU13RC201	Th-232	3.1	6	6			1.6	1.2666667	0.196638	1.699812707	8.6443572	1.5	14	1.09	2	0	2	0	
EU-13	IVEU13RC201	Tritium (H-3)	2.28	6	6			-0.011	-0.047167	0.032283	1.345023403	41.664028	1.5	14	1.09	2	0	2	0	
EU-13	IVEU13RC201	U-234	4.01								2.483402446		1.5	14	1.09	2	0	2	2	
EU-13	IVEU13RC201	U-235	0.195	6	6			0.052	0.0415	0.008408	0.098571969	11.723134	1.5	14	1.09	2	0	2	0	
EU-13	IVEU13RC201	U-238	2.6	6	6			0.78	0.7383333	0.031252	1.3	41.597782	1.5	14	1.09	2	0	2	0	2
EU-13	IVEU13RC301	Ac-228	3.2								1.6		1.5	14	16.03	3	0	14	14	
EU-13	IVEU13RC301	Am-241	1.87								0.983259209		1.5	15	16.03	3	0	15	15	
EU-13	IVEU13RC301	Ba-133	0.175								0.087668644		1.5	15	16.03	3	0	15	15	
EU-13	IVEU13RC301	C-14	0.456								139.7005115		1.5	15	16.03	3	0	15	15	
EU-13	IVEU13RC301	Cm-243/244	0.349								0.175489416		1.5	15	16.03	3	0	15	15	
EU-13	IVEU13RC301	Co-60	0.0361								0.018119848		1.5	15	16.03	3	0	15	15	
EU-13	IVEU13RC301	Cs-134	0.157								0.07919429		1.5	15	16.03	3	0	15	15	
EU-13	IVEU13RC301	Cs-137	0.48	2	1			0.17	0.105	0.091924	0.24	2.6108558	1.5	14	16.03	3	0	14	12	
EU-13	IVEU13RC301	Eu-152	0.0416								0.020814406		1.5	15	16.03	3	0	15	15	
EU-13	IVEU13RC301	Eu-154	0.0499								0.024950155		1.5	15	16.03	3	0	15	15	
EU-13	IVEU13RC301	Eu-155	3.8								1.903322648		1.5	15	16.03	3	0	15	15	
EU-13	IVEU13RC301	Fe-55	2690								1461.911262		1.5	15	16.03	3	0	15	15	
EU-13	IVEU13RC301	I-129	0.596								1.262193866		1.5	15	16.03	3	0	15	15	
EU-13	IVEU13RC301	K-40	60	2	2			18	16.5	2.12132	30	14.142136	1.5	14	16.03	3	0	14	12	
EU-13	IVEU13RC301	Na-22	0.0865								0.043308929		1.5	15	16.03	3	0	15	15	
EU-13	IVEU13RC301	Ni-59	208								541.446433		1.5	15	16.03	3	0	15	15	
EU-13	IVEU13RC301	Ni-63	94.8								246.5901147		1.5	15	16.03	3	0	15	15	
EU-13	IVEU13RC301	Np-237	0.13								0.068047461		1.5	15	16.03	3	0	15	15	
EU-13	IVEU13RC301	Pb-210	5								2.5		1.5	14	16.03	3	0	14	14	
EU-13	IVEU13RC301	Pu-238	2.97	2	1			0	0.001	0.001414	1.635548449	1156.5074	1.5	14	16.03	3	0	14	12	
EU-13	IVEU13RC301	Pu-239	2.59								1.430938981		1.5	14	16.03	3	0	14	14	
EU-13	IVEU13RC301	Pu-240	2.6								1.432213109		1.5	15	16.03	3	0	15	15	
EU-13	IVEU13RC301	Pu-241	406								225.8293531		1.5	15	16.03	3	0	15	15	
EU-13	IVEU13RC301	Ra-226	5	2	2			0.87	0.71	0.226274	2.5	11.048543	1.5	14	16.03	3	0	14	12	
EU-13	IVEU13RC301	Ra-228	3.2								1.6		1.5	14	16.03	3	0	14	14	
EU-13	IVEU13RC301	Sb-125	0.462								0.231442714		1.5	15	16.03	3	0	15	15	
EU-13	IVEU13RC301	Sr-90	0.231	2	2			0.13	0.087	0.060811	1.960528741	32.239609	1.5	14	16.03	3	0	14	12	
EU-13	IVEU13RC301	Tc-99	0.25								48.16625994		1.5	15	16.03	3	0	15	15	
EU-13	IVEU13RC301	Th-228	3.2	1	1			0.89	0.89		1.6		1.5	14	16.03	3	0	14	13	
EU-13	IVEU13RC301	Th-230	3.49	2	2			1	0.82	0.254558	1.909550267	7.5014219	1.5	14	16.03	3	0	14	12	
EU-13	IVEU13RC301	Th-232	3.1	2	2			1.2	1.075	0.176777	1.699812707	9.6155927	1.5	14	16.03	3	0	14	12	
EU-13	IVEU13RC301	Tritium (H-3)	2.28	1	1			-0.045	-0.045		1.345023403		1.5	14	16.03	3	0	14	13	
EU-13	IVEU13RC301	U-234	4.01								2.483402446		1.5	14	16.03	3	0	14	14	
EU-13	IVEU13RC301	U-235	0.195	2	2			0.054	0.042	0.016971	0.098571969	5.808409	1.5	14	16.03	3	0	14	12	
EU-13	IVEU13RC301	U-238	2.6	2	2			0.72	0.69	0.042426	1.3	30.641294	1.5	14	16.03	3	0	14	12	15
EU-14	IVEU14RC301	Ac-228	3.2								1.6		1.5	14	17.08	3	0	15	15	
EU-14	IVEU14RC301	Am-241	1.87								0.983259209		1.5	15	17.08	3	0	16	16	
EU-14	IVEU14RC301	Ba-133	0.175								0.087668644		1.5	15	17.08	3	0	16	16	
EU-14	IVEU14RC301	C-14	0.456								139.7005115		1.5	15	17.08	3	0	16	16	

Table G-2
Radionuclide Data Gaps Calculation Summary
(Residential)

EU	SU	Analyte	Residential DCGL (piC/g)	Number of Valid Samples	Number of Detects	Number of Detection Uncertain	Number of Rejected Samples	Max Detected Result (piC/g)	Average (piC/g)	Std. Dev. (piC/g)	Delta Residential	Relative Shift	Test Shift	Statistically Required Number of Samples per Area Size	SU Acreage	SU Class	Remediation Test[a]	Risk Assessment Required Samples per SU	Risk Assessment Data Gap Rural Residential	Risk Assessment Radiological Samples per SU required
EU-14	IVEU14RC301	Cm-243/244	0.349								0.175489416		1.5	15	17.08	3	0	16	16	
EU-14	IVEU14RC301	Co-60	0.0361								0.018119848		1.5	15	17.08	3	0	16	16	
EU-14	IVEU14RC301	Cs-134	0.157								0.07919429		1.5	15	17.08	3	0	16	16	
EU-14	IVEU14RC301	Cs-137	0.48	3	3			0.29	0.1333333	0.136504	0.24	1.7581906	1.5	14	17.08	3	0	15	12	
EU-14	IVEU14RC301	Eu-152	0.0416								0.020814406		1.5	15	17.08	3	0	16	16	
EU-14	IVEU14RC301	Eu-154	0.0499								0.024950155		1.5	15	17.08	3	0	16	16	
EU-14	IVEU14RC301	Eu-155	3.8								1.903322648		1.5	15	17.08	3	0	16	16	
EU-14	IVEU14RC301	Fe-55	2690								1461.911262		1.5	15	17.08	3	0	16	16	
EU-14	IVEU14RC301	I-129	0.596								1.262193866		1.5	15	17.08	3	0	16	16	
EU-14	IVEU14RC301	K-40	60	3	3			17	12.433333	4.045162	30	7.4162672	1.5	14	17.08	3	0	15	12	
EU-14	IVEU14RC301	Na-22	0.0865								0.043308929		1.5	15	17.08	3	0	16	16	
EU-14	IVEU14RC301	Ni-59	208								541.446433		1.5	15	17.08	3	0	16	16	
EU-14	IVEU14RC301	Ni-63	94.8								246.5901147		1.5	15	17.08	3	0	16	16	
EU-14	IVEU14RC301	Np-237	0.13								0.068047461		1.5	15	17.08	3	0	16	16	
EU-14	IVEU14RC301	Pb-210	5								2.5		1.5	14	17.08	3	0	15	15	
EU-14	IVEU14RC301	Pu-238	2.97	3	2			-0.001	0	0.001732	1.635548449	944.28434	1.5	14	17.08	3	0	15	12	
EU-14	IVEU14RC301	Pu-239	2.59								1.430938981		1.5	14	17.08	3	0	15	15	
EU-14	IVEU14RC301	Pu-240	2.6								1.432213109		1.5	15	17.08	3	0	16	16	
EU-14	IVEU14RC301	Pu-241	406								225.8293531		1.5	15	17.08	3	0	16	16	
EU-14	IVEU14RC301	Ra-226	5	3	3			0.7	0.5466667	0.150111	2.5	16.654335	1.5	14	17.08	3	0	15	12	
EU-14	IVEU14RC301	Ra-228	3.2								1.6		1.5	14	17.08	3	0	15	15	
EU-14	IVEU14RC301	Sb-125	0.462								0.231442714		1.5	15	17.08	3	0	16	16	
EU-14	IVEU14RC301	Sr-90	0.231	3	3			0.11	0.064	0.041073	1.960528741	47.732664	1.5	14	17.08	3	0	15	12	
EU-14	IVEU14RC301	Tc-99	0.25								48.16625994		1.5	15	17.08	3	0	16	16	
EU-14	IVEU14RC301	Th-228	3.2	3	3			1	0.9	0.1	1.6	16	1.5	14	17.08	3	0	15	12	
EU-14	IVEU14RC301	Th-230	3.49	3	3			0.61	0.57	0.060828	1.909550267	31.392813	1.5	14	17.08	3	0	15	12	
EU-14	IVEU14RC301	Th-232	3.1	3	3			1	0.8666667	0.119304	1.699812707	14.247798	1.5	14	17.08	3	0	15	12	
EU-14	IVEU14RC301	Tritium (H-3)	2.28								1.345023403		1.5	14	17.08	3	0	15	15	
EU-14	IVEU14RC301	U-234	4.01								2.483402446		1.5	14	17.08	3	0	15	15	
EU-14	IVEU14RC301	U-235	0.195	3	3			0.032	0.027	0.004359	0.098571969	22.613961	1.5	14	17.08	3	0	15	12	
EU-14	IVEU14RC301	U-238	2.6	3	3			0.79	0.6533333	0.140119	1.3	9.2778283	1.5	14	17.08	3	0	15	12	16
EU-15	IVEU15RC301	Ac-228	3.2								1.6		1.5	14	18.68	3	0	16	16	
EU-15	IVEU15RC301	Am-241	1.87								0.983259209		1.5	15	18.68	3	0	17	17	
EU-15	IVEU15RC301	Ba-133	0.175								0.087668644		1.5	15	18.68	3	0	17	17	
EU-15	IVEU15RC301	C-14	0.456								139.7005115		1.5	15	18.68	3	0	17	17	
EU-15	IVEU15RC301	Cm-243/244	0.349								0.175489416		1.5	15	18.68	3	0	17	17	
EU-15	IVEU15RC301	Co-60	0.0361								0.018119848		1.5	15	18.68	3	0	17	17	
EU-15	IVEU15RC301	Cs-134	0.157								0.07919429		1.5	15	18.68	3	0	17	17	
EU-15	IVEU15RC301	Cs-137	0.48	5	5			0.38	0.16	0.132098	0.24	1.8168268	1.5	14	18.68	3	0	16	11	
EU-15	IVEU15RC301	Eu-152	0.0416								0.020814406		1.5	15	18.68	3	0	17	17	
EU-15	IVEU15RC301	Eu-154	0.0499								0.024950155		1.5	15	18.68	3	0	17	17	
EU-15	IVEU15RC301	Eu-155	3.8								1.903322648		1.5	15	18.68	3	0	17	17	
EU-15	IVEU15RC301	Fe-55	2690								1461.911262		1.5	15	18.68	3	0	17	17	
EU-15	IVEU15RC301	I-129	0.596								1.262193866		1.5	15	18.68	3	0	17	17	
EU-15	IVEU15RC301	K-40	60	5	5			19	16.8	2.167948	30	13.837968	1.5	14	18.68	3	0	16	11	
EU-15	IVEU15RC301	Na-22	0.0865								0.043308929		1.5	15	18.68	3	0	17	17	
EU-15	IVEU15RC301	Ni-59	208								541.446433		1.5	15	18.68	3	0	17	17	
EU-15	IVEU15RC301	Ni-63	94.8								246.5901147		1.5	15	18.68	3	0	17	17	
EU-15	IVEU15RC301	Np-237	0.13								0.068047461		1.5	15	18.68	3	0	17	17	
EU-15	IVEU15RC301	Pb-210	5								2.5		1.5	14	18.68	3	0	16	16	
EU-15	IVEU15RC301	Pu-238	2.97	5	5			0.001	0	0.000707	1.635548449	2313.0148	1.5	14	18.68	3	0	16	11	
EU-15	IVEU15RC301	Pu-239	2.59								1.430938981		1.5	14	18.68	3	0	16	16	
EU-15	IVEU15RC301	Pu-240	2.6								1.432213109		1.5	15	18.68	3	0	17	17	
EU-15	IVEU15RC301	Pu-241	406								225.8293531		1.5	15	18.68	3	0	17	17	
EU-15	IVEU15RC301	Ra-226	5	5	5			1.4	0.832	0.327063	2.5	7.6437946	1.5	14	18.68	3	0	16	11	
EU-15	IVEU15RC301	Ra-228	3.2								1.6		1.5	14	18.68	3	0	16	16	
EU-15	IVEU15RC301	Sb-125	0.462								0.231442714		1.5	15	18.68	3	0	17	17	

Table G-2
Radionuclide Data Gaps Calculation Summary
(Residential)

EU	SU	Analyte	Residential DCGL (piC/g)	Number of Valid Samples	Number of Detects	Number of Detection Uncertain	Number of Rejected Samples	Max Detected Result (piC/g)	Average (piC/g)	Std. Dev. (piC/g)	Delta Residential	Relative Shift	Test Shift	Statistically Required Number of Samples per Area Size	SU Acreage	SU Class	Remediation Test[a]	Risk Assessment Required Samples per SU	Risk Assessment Data Gap Rural Residential	Risk Assessment Radiological Samples per SU required
EU-15	IVEU15RC301	Sr-90	0.231	5	5			0.12	0.0752	0.030589	1.960528741	64.092159	1.5	14	18.68	3	0	16	11	
EU-15	IVEU15RC301	Tc-99	0.25								48.16625994		1.5	15	18.68	3	0	17	17	
EU-15	IVEU15RC301	Th-228	3.2	5	5			2.1	1.252	0.528697	1.6	3.0263109	1.5	14	18.68	3	0	16	11	
EU-15	IVEU15RC301	Th-230	3.49	5	5			1.3	0.858	0.280927	1.909550267	6.7973175	1.5	14	18.68	3	0	16	11	
EU-15	IVEU15RC301	Th-232	3.1	5	5			1.9	1.1	0.468668	1.699812707	3.626899	1.5	14	18.68	3	0	16	11	
EU-15	IVEU15RC301	Tritium (H-3)	2.28								1.345023403		1.5	14	18.68	3	0	16	16	
EU-15	IVEU15RC301	U-234	4.01								2.483402446		1.5	14	18.68	3	0	16	16	
EU-15	IVEU15RC301	U-235	0.195	5	5			0.069	0.0464	0.013107	0.098571969	7.5204158	1.5	14	18.68	3	0	16	11	
EU-15	IVEU15RC301	U-238	2.6	5	5			1.2	0.868	0.201792	1.3	6.4422781	1.5	14	18.68	3	0	16	11	17
EU-16	IVEU16RC301	Ac-228	3.2								1.6		1.5	14	19.65	3	0	17	17	
EU-16	IVEU16RC301	Am-241	1.87								0.983259209		1.5	15	19.65	3	0	18	18	
EU-16	IVEU16RC301	Ba-133	0.175								0.087668644		1.5	15	19.65	3	0	18	18	
EU-16	IVEU16RC301	C-14	0.456								139.7005115		1.5	15	19.65	3	0	18	18	
EU-16	IVEU16RC301	Cm-243/244	0.349								0.175489416		1.5	15	19.65	3	0	18	18	
EU-16	IVEU16RC301	Co-60	0.0361								0.018119848		1.5	15	19.65	3	0	18	18	
EU-16	IVEU16RC301	Cs-134	0.157								0.07919429		1.5	15	19.65	3	0	18	18	
EU-16	IVEU16RC301	Cs-137	0.48	2	2			0.09	0.09	0	0.24		1.5	14	19.65	3	0	17	15	
EU-16	IVEU16RC301	Eu-152	0.0416								0.020814406		1.5	15	19.65	3	0	18	18	
EU-16	IVEU16RC301	Eu-154	0.0499								0.024950155		1.5	15	19.65	3	0	18	18	
EU-16	IVEU16RC301	Eu-155	3.8								1.903322648		1.5	15	19.65	3	0	18	18	
EU-16	IVEU16RC301	Fe-55	2690								1461.911262		1.5	15	19.65	3	0	18	18	
EU-16	IVEU16RC301	I-129	0.596								1.262193866		1.5	15	19.65	3	0	18	18	
EU-16	IVEU16RC301	K-40	60	2	2			16	15.5	0.707107	30	42.426407	1.5	14	19.65	3	0	17	15	
EU-16	IVEU16RC301	Na-22	0.0865								0.043308929		1.5	15	19.65	3	0	18	18	
EU-16	IVEU16RC301	Ni-59	208								541.446433		1.5	15	19.65	3	0	18	18	
EU-16	IVEU16RC301	Ni-63	94.8								246.5901147		1.5	15	19.65	3	0	18	18	
EU-16	IVEU16RC301	Np-237	0.13								0.068047461		1.5	15	19.65	3	0	18	18	
EU-16	IVEU16RC301	Pb-210	5								2.5		1.5	14	19.65	3	0	17	17	
EU-16	IVEU16RC301	Pu-238	2.97	2	2			0	-0.0015	0.002121	1.635548449	771.00493	1.5	14	19.65	3	0	17	15	
EU-16	IVEU16RC301	Pu-239	2.59								1.430938981		1.5	14	19.65	3	0	17	17	
EU-16	IVEU16RC301	Pu-240	2.6								1.432213109		1.5	15	19.65	3	0	18	18	
EU-16	IVEU16RC301	Pu-241	406								225.8293531		1.5	15	19.65	3	0	18	18	
EU-16	IVEU16RC301	Ra-226	5	2	2			1.6	1.15	0.636396	2.5	3.928371	1.5	14	19.65	3	0	17	15	
EU-16	IVEU16RC301	Ra-228	3.2								1.6		1.5	14	19.65	3	0	17	17	
EU-16	IVEU16RC301	Sb-125	0.462								0.231442714		1.5	15	19.65	3	0	18	18	
EU-16	IVEU16RC301	Sr-90	0.231	2	2			0.08	0.0665	0.019092	1.960528741	102.68912	1.5	14	19.65	3	0	17	15	
EU-16	IVEU16RC301	Tc-99	0.25								48.16625994		1.5	15	19.65	3	0	18	18	
EU-16	IVEU16RC301	Th-228	3.2	2	2			1.1	1.035	0.091924	1.6	17.405705	1.5	14	19.65	3	0	17	15	
EU-16	IVEU16RC301	Th-230	3.49	2	2			0.81	0.75	0.084853	1.909550267	22.504266	1.5	14	19.65	3	0	17	15	
EU-16	IVEU16RC301	Th-232	3.1	2	2			1	0.87	0.183848	1.699812707	9.2457622	1.5	14	19.65	3	0	17	15	
EU-16	IVEU16RC301	Tritium (H-3)	2.28								1.345023403		1.5	14	19.65	3	0	17	17	
EU-16	IVEU16RC301	U-234	4.01								2.483402446		1.5	14	19.65	3	0	17	17	
EU-16	IVEU16RC301	U-235	0.195	2	2			0.072	0.0565	0.02192	0.098571969	4.4968328	1.5	14	19.65	3	0	17	15	
EU-16	IVEU16RC301	U-238	2.6	2	2			1.3	1.01	0.410122	1.3	3.169789	1.5	14	19.65	3	0	17	15	18
NA-01	NEBNA01RC201	Ac-228	3.2								1.6		1.5	14	0.10	2	0	1	1	
NA-01	NEBNA01RC201	Am-241	1.87								0.983259209		1.5	15	0.10	2	0	1	1	
NA-01	NEBNA01RC201	Ba-133	0.175								0.087668644		1.5	15	0.10	2	0	1	1	
NA-01	NEBNA01RC201	C-14	0.456								139.7005115		1.5	15	0.10	2	0	1	1	
NA-01	NEBNA01RC201	Cm-243/244	0.349								0.175489416		1.5	15	0.10	2	0	1	1	
NA-01	NEBNA01RC201	Co-60	0.0361								0.018119848		1.5	15	0.10	2	0	1	1	
NA-01	NEBNA01RC201	Cs-134	0.157								0.07919429		1.5	15	0.10	2	0	1	1	
NA-01	NEBNA01RC201	Cs-137	0.48								0.24		1.5	14	0.10	2	0	1	1	
NA-01	NEBNA01RC201	Eu-152	0.0416								0.020814406		1.5	15	0.10	2	0	1	1	
NA-01	NEBNA01RC201	Eu-154	0.0499								0.024950155		1.5	15	0.10	2	0	1	1	
NA-01	NEBNA01RC201	Eu-155	3.8								1.903322648		1.5	15	0.10	2	0	1	1	
NA-01	NEBNA01RC201	Fe-55	2690								1461.911262		1.5	15	0.10	2	0	1	1	
NA-01	NEBNA01RC201	I-129	0.596								1.262193866		1.5	15	0.10	2	0	1	1	

Table G-2
Radionuclide Data Gaps Calculation Summary
(Residential)

EU	SU	Analyte	Residential DCGL (piC/g)	Number of Valid Samples	Number of Detects	Number of Detection Uncertain	Number of Rejected Samples	Max Detected Result (piC/g)	Average (piC/g)	Std. Dev. (piC/g)	Delta Residential	Relative Shift	Test Shift	Statistically Required Number of Samples per Area Size	SU Acreage	SU Class	Remediation Test[a]	Risk Assessment Required Samples per SU	Risk Assessment Data Gap Rural Residential	Risk Assessment Radiological Samples per SU required
NA-01	NEBNA01RC201	K-40	60								30		1.5	14	0.10	2	0	1	1	
NA-01	NEBNA01RC201	Na-22	0.0865								0.043308929		1.5	15	0.10	2	0	1	1	
NA-01	NEBNA01RC201	Ni-59	208								541.446433		1.5	15	0.10	2	0	1	1	
NA-01	NEBNA01RC201	Ni-63	94.8								246.5901147		1.5	15	0.10	2	0	1	1	
NA-01	NEBNA01RC201	Np-237	0.13								0.068047461		1.5	15	0.10	2	0	1	1	
NA-01	NEBNA01RC201	Pb-210	5								2.5		1.5	14	0.10	2	0	1	1	
NA-01	NEBNA01RC201	Pu-238	2.97								1.635548449		1.5	14	0.10	2	0	1	1	
NA-01	NEBNA01RC201	Pu-239	2.59								1.430938981		1.5	14	0.10	2	0	1	1	
NA-01	NEBNA01RC201	Pu-240	2.6								1.432213109		1.5	15	0.10	2	0	1	1	
NA-01	NEBNA01RC201	Pu-241	406								225.8293531		1.5	15	0.10	2	0	1	1	
NA-01	NEBNA01RC201	Ra-226	5								2.5		1.5	14	0.10	2	0	1	1	
NA-01	NEBNA01RC201	Ra-228	3.2								1.6		1.5	14	0.10	2	0	1	1	
NA-01	NEBNA01RC201	Sb-125	0.462								0.231442714		1.5	15	0.10	2	0	1	1	
NA-01	NEBNA01RC201	Sr-90	0.231								1.960528741		1.5	14	0.10	2	0	1	1	
NA-01	NEBNA01RC201	Tc-99	0.25								48.16625994		1.5	15	0.10	2	0	1	1	
NA-01	NEBNA01RC201	Th-228	3.2								1.6		1.5	14	0.10	2	0	1	1	
NA-01	NEBNA01RC201	Th-230	3.49								1.909550267		1.5	14	0.10	2	0	1	1	
NA-01	NEBNA01RC201	Th-232	3.1								1.699812707		1.5	14	0.10	2	0	1	1	
NA-01	NEBNA01RC201	Tritium (H-3)	2.28								1.345023403		1.5	14	0.10	2	0	1	1	
NA-01	NEBNA01RC201	U-234	4.01								2.483402446		1.5	14	0.10	2	0	1	1	
NA-01	NEBNA01RC201	U-235	0.195								0.098571969		1.5	14	0.10	2	0	1	1	
NA-01	NEBNA01RC201	U-238	2.6								1.3		1.5	14	0.10	2	0	1	1	1
NA-02	IIINA02RC201	Ac-228	3.2								1.6		1.5	14	0.68	2	0	1	1	
NA-02	IIINA02RC201	Am-241	1.87								0.983259209		1.5	15	0.68	2	0	2	2	
NA-02	IIINA02RC201	Ba-133	0.175								0.087668644		1.5	15	0.68	2	0	2	2	
NA-02	IIINA02RC201	C-14	0.456								139.7005115		1.5	15	0.68	2	0	2	2	
NA-02	IIINA02RC201	Cm-243/244	0.349								0.175489416		1.5	15	0.68	2	0	2	2	
NA-02	IIINA02RC201	Co-60	0.0361								0.018119848		1.5	15	0.68	2	0	2	2	
NA-02	IIINA02RC201	Cs-134	0.157								0.07919429		1.5	15	0.68	2	0	2	2	
NA-02	IIINA02RC201	Cs-137	0.48								0.24		1.5	14	0.68	2	0	1	1	
NA-02	IIINA02RC201	Eu-152	0.0416								0.020814406		1.5	15	0.68	2	0	2	2	
NA-02	IIINA02RC201	Eu-154	0.0499								0.024950155		1.5	15	0.68	2	0	2	2	
NA-02	IIINA02RC201	Eu-155	3.8								1.903322648		1.5	15	0.68	2	0	2	2	
NA-02	IIINA02RC201	Fe-55	2690								1461.911262		1.5	15	0.68	2	0	2	2	
NA-02	IIINA02RC201	I-129	0.596								1.262193866		1.5	15	0.68	2	0	2	2	
NA-02	IIINA02RC201	K-40	60								30		1.5	14	0.68	2	0	1	1	
NA-02	IIINA02RC201	Na-22	0.0865								0.043308929		1.5	15	0.68	2	0	2	2	
NA-02	IIINA02RC201	Ni-59	208								541.446433		1.5	15	0.68	2	0	2	2	
NA-02	IIINA02RC201	Ni-63	94.8								246.5901147		1.5	15	0.68	2	0	2	2	
NA-02	IIINA02RC201	Np-237	0.13								0.068047461		1.5	15	0.68	2	0	2	2	
NA-02	IIINA02RC201	Pb-210	5								2.5		1.5	14	0.68	2	0	1	1	
NA-02	IIINA02RC201	Pu-238	2.97								1.635548449		1.5	14	0.68	2	0	1	1	
NA-02	IIINA02RC201	Pu-239	2.59								1.430938981		1.5	14	0.68	2	0	1	1	
NA-02	IIINA02RC201	Pu-240	2.6								1.432213109		1.5	15	0.68	2	0	2	2	
NA-02	IIINA02RC201	Pu-241	406								225.8293531		1.5	15	0.68	2	0	2	2	
NA-02	IIINA02RC201	Ra-226	5								2.5		1.5	14	0.68	2	0	1	1	
NA-02	IIINA02RC201	Ra-228	3.2								1.6		1.5	14	0.68	2	0	1	1	
NA-02	IIINA02RC201	Sb-125	0.462								0.231442714		1.5	15	0.68	2	0	2	2	
NA-02	IIINA02RC201	Sr-90	0.231								1.960528741		1.5	14	0.68	2	0	1	1	
NA-02	IIINA02RC201	Tc-99	0.25								48.16625994		1.5	15	0.68	2	0	2	2	
NA-02	IIINA02RC201	Th-228	3.2								1.6		1.5	14	0.68	2	0	1	1	
NA-02	IIINA02RC201	Th-230	3.49								1.909550267		1.5	14	0.68	2	0	1	1	
NA-02	IIINA02RC201	Th-232	3.1								1.699812707		1.5	14	0.68	2	0	1	1	
NA-02	IIINA02RC201	Tritium (H-3)	2.28								1.345023403		1.5	14	0.68	2	0	1	1	
NA-02	IIINA02RC201	U-234	4.01								2.483402446		1.5	14	0.68	2	0	1	1	
NA-02	IIINA02RC201	U-235	0.195								0.098571969		1.5	14	0.68	2	0	1	1	
NA-02	IIINA02RC201	U-238	2.6								1.3		1.5	14	0.68	2	0	1	1	2

Table G-2
Radionuclide Data Gaps Calculation Summary
(Residential)

EU	SU	Analyte	Residential DCGL (piC/g)	Number of Valid Samples	Number of Detects	Number of Detection Uncertain	Number of Rejected Samples	Max Detected Result (piC/g)	Average (piC/g)	Std. Dev. (piC/g)	Delta Residential	Relative Shift	Test Shift	Statistically Required Number of Samples per Area Size	SU Acreage	SU Class	Remediation Test[a]	Risk Assessment Required Samples per SU	Risk Assessment Data Gap Rural Residential	Risk Assessment Radiological Samples per SU required
WBNA-01	WBNA01RC101	Ac-228	3.2	12	12			1.4	1.1691667	0.138134	1.6	11.582938	3	8	0.21	1	0	1	0	
WBNA-01	WBNA01RC101	Am-241	1.87	13	13			0.032	0.0109231	0.011679	0.983259209	84.186898	3	11	0.21	1	0	2	0	
WBNA-01	WBNA01RC101	Ba-133	0.175								0.087668644		1.5	15	0.21	1	0	2	2	
WBNA-01	WBNA01RC101	C-14	0.456								139.7005115		1.5	15	0.21	1	0	2	2	
WBNA-01	WBNA01RC101	Cm-243/244	0.349								0.175489416		1.5	15	0.21	1	0	2	2	
WBNA-01	WBNA01RC101	Co-60	0.0361	13	13			0.061	0.0101769	0.032131	0.018119848	0.5639305	0.5639305	71	0.21	1	1	8	0	
WBNA-01	WBNA01RC101	Cs-134	0.157	13	13			0.041	-0.002923	0.032413	0.07919429	2.4433177	2.4433177	12	0.21	1	0	2	0	
WBNA-01	WBNA01RC101	Cs-137	0.48	15	14			0.27	0.0673929	0.083804	0.24	2.8638305	2.8638305	8	0.21	1	0	1	0	
WBNA-01	WBNA01RC101	Eu-152	0.0416	13	13		1	0.47	0.0492308	0.343207	0.020814406	0.0606468	1.5	15	0.21	1	1	2	0	
WBNA-01	WBNA01RC101	Eu-154	0.0499	13	13			0.2	-0.010769	0.195766	0.024950155	0.1274488	0.1274488	1620	0.21	1	1	173	160	
WBNA-01	WBNA01RC101	Eu-155	3.8								1.903322648		1.5	15	0.21	1	0	2	2	
WBNA-01	WBNA01RC101	Fe-55	2690								1461.911262		1.5	15	0.21	1	0	2	2	
WBNA-01	WBNA01RC101	I-129	0.596								1.262193866		1.5	15	0.21	1	0	2	2	
WBNA-01	WBNA01RC101	K-40	60	13	13			23.9	20.853846	2.982341	30	10.059211	3	8	0.21	1	0	1	0	
WBNA-01	WBNA01RC101	Na-22	0.0865	13	13			0.062	-0.000385	0.043659	0.043308929	0.9919865	0.9919865	27	0.21	1	1	3	0	
WBNA-01	WBNA01RC101	Ni-59	208								541.446433		1.5	15	0.21	1	0	2	2	
WBNA-01	WBNA01RC101	Ni-63	94.8								246.5901147		1.5	15	0.21	1	0	2	2	
WBNA-01	WBNA01RC101	Np-237	0.13								0.068047461		1.5	15	0.21	1	0	2	2	
WBNA-01	WBNA01RC101	Pb-210	5								2.5		1.5	14	0.21	1	0	2	2	
WBNA-01	WBNA01RC101	Pu-238	2.97	13	13			0.103	0.0153846	0.028111	1.635548449	58.180761	3	8	0.21	1	0	1	0	
WBNA-01	WBNA01RC101	Pu-239	2.59								1.430938981		1.5	14	0.21	1	0	2	2	
WBNA-01	WBNA01RC101	Pu-240	2.6								1.432213109		1.5	15	0.21	1	0	2	2	
WBNA-01	WBNA01RC101	Pu-241	406	13	13			4.1	0.8292308	1.579844	225.8293531	142.94407	3	11	0.21	1	0	2	0	
WBNA-01	WBNA01RC101	Ra-226	5	13	10			2.5	1.3515385	0.736205	2.5	3.3957944	3	8	0.21	1	0	1	0	
WBNA-01	WBNA01RC101	Ra-228	3.2	12	12			1.4	1.1691667	0.138134	1.6	11.582938	3	8	0.21	1	0	1	0	
WBNA-01	WBNA01RC101	Sb-125	0.462								0.231442714		1.5	15	0.21	1	0	2	2	
WBNA-01	WBNA01RC101	Sr-90	0.231	13	13			0.63	0.2230769	0.147048	1.960528741	13.332588	3	8	0.21	1	1	1	0	
WBNA-01	WBNA01RC101	Tc-99	0.25								48.16625994		1.5	15	0.21	1	0	2	2	
WBNA-01	WBNA01RC101	Th-228	3.2	13	13			1.81	1.0823077	0.360166	1.6	4.4424014	3	8	0.21	1	0	1	0	
WBNA-01	WBNA01RC101	Th-230	3.49	13	13			1.44	0.9892308	0.222877	1.909550267	8.567714	3	8	0.21	1	0	1	0	
WBNA-01	WBNA01RC101	Th-232	3.1	25	25			1.7	1.1084	0.252003	1.699812707	6.7452	3	8	0.21	1	0	1	0	
WBNA-01	WBNA01RC101	Tritium (H-3)	2.28								1.345023403		1.5	14	0.21	1	0	2	2	
WBNA-01	WBNA01RC101	U-234	4.01	13	13			1.72	0.8153846	0.337284	2.483402446	7.3629495	3	8	0.21	1	0	1	0	
WBNA-01	WBNA01RC101	U-235	0.195	13	13			0.083	0.0372308	0.025378	0.098571969	3.8842024	3	8	0.21	1	0	1	0	
WBNA-01	WBNA01RC101	U-238	2.6	13	13			1.55	0.7792308	0.292873	1.3	4.4387901	3	8	0.21	1	0	1	0	2
																			Total Samples	616

[a] A "1" in this column means the average for this analyte exceeds the DCGL or the standard deviation exceeds the LBGR and it is assumed this SU will require remediation. The number of samples for these SUs is based only on those required for deliniation of nature and extent of contamination.

Appendix H

Update of Chemical PRGs

Appendix H

Update of Chemical PRGs

The purpose of Appendix H is to describe the calculations used to update EPA Region 9 preliminary remediation goals (PRGs). As discussed in Section 3.2.2.1, EPA Region 9 has established generic risk-based preliminary remediation goals (PRGs) for several media (soil, tap water, and ambient air). These PRGs are screening values intended to be used as guidelines for determining whether additional investigation is necessary and can be used as initial cleanup goals, if applicable. Although PRGs are not enforceable standards, they are used in the Data Gaps Analysis to screen analytical data in Area IV to aid in the determination of data gaps. Tap water PRGs are used in the Area IV screening for comparison to groundwater concentrations. Residential soil PRGs are used for comparison to Area IV soil concentrations.

However, as noted in Section 3.2.2.1, the EPA Region 9 PRGs have not been updated since October 2004. In addition, the PRGs do not include the exposure pathway of ingestion of fruits and vegetables, which is considered a completed exposure pathway for the rural resident. To be appropriate for screening Area IV data, EPA Region 9 generic risk-based PRGs need to be updated to account for CalEPA toxicity values, which have been updated as recently as 2008. In addition, residential PRGs need to be revised to incorporate the exposure pathway of ingestion of fruits and vegetables, which was identified as complete for future Area IV residents in the site conceptual model. Appendix H describes the calculations used to update the PRGs for use in the Area IV screening.

H.1 CalEPA Toxicity Values

Although the EPA Region 9 PRG list includes Cal-modified PRGs, which would be applicable to Area IV, these EPA Region 9 PRGs were last updated in October 2004. To account for updates in toxicity values, PRGs were recalculated using the formulas in the PRG user's guidance for chemicals with updated CalEPA cancer potency values dated January 25, 2008 (Table H-1) and CalEPA's most recent list of reference exposure levels (RELs) accessed on March 7, 2008 (Table H-2). All other toxicity values that were not updated by these two sources were obtained from the Region 9 PRG table.

EPA Region 9 PRGs are calculated for cancer risk levels of 10^{-6} and hazard levels of 1. To calculate PRGs, target cancer risks or HIs are input to the equations for back calculation to a media concentration. Thus, development of PRGs is basically the reverse of risk calculation. These calculations use a selected acceptable risk (i.e., a cancer risk of one in one million, 10^{-6}, and a hazard index of 1), exposure variables, and chemical toxicity factors to determine medium-specific chemical concentration instead of starting with measured concentrations and estimating risks. Exposure variables used in the calculations are the same as those presented in the footer of the EPA Region 9 PRG Table and toxicity values are those presented in Tables H-1 and H-2. PRG equations from USEPA Region 9 PRG Guidance (USEPA 2004) are provided below.

Equation for Exposure to Carcinogenic Contaminants in Industrial Soil through Ingestion, Dermal Contact, and Inhalation of Fugitive Dust

$$C_s\ (mg/kg) = \frac{TR\ x\ BW\ x\ AT_c}{EF\ x\ ED\left[\left(\frac{IR\ x\ CSF}{10^6\ mg/kg}\right)+\left(\frac{SA\ x\ AF\ x\ ABS\ x\ CSF}{10^6\ mg/kg}\right)+\left(\frac{ET\ x\ IhR\ x\ CSF}{PEF}\right)\right]}$$

Equation for Exposure to Noncarcinogenic Contaminants in Industrial Soil through Ingestion, Dermal Contact, and Inhalation of Fugitive Dust

$$C_s\ (mg/kg) = \frac{THQ\ x\ BW\ x\ AT_n}{EF\ x\ ED\left[\left(\frac{1}{RfD}\ x\ \frac{IR}{10^6\ mg/kg}\right)+\left(\frac{1}{RfD}\ x\ \frac{SA\ x\ AF\ x\ ABS}{10^6\ mg/kg}\right)+\left(\frac{1}{RfD}\ x\ \frac{ET\ x\ IhR}{PEF}\right)\right]}$$

Equation for Inhalation Exposure to Carcinogenic Contaminants in Indoor or Ambient Air

$$C_a\ (ug/m^3) = \frac{TR\ x\ BW\ x\ AT_c\ x1000 ug/mg}{EF\ x\ ED\ x\ IhR\ x\ ET\ x\ CSF}$$

Equation for Inhalation Exposure to Noncarcinogenic Contaminants in Indoor or Ambient Air

$$C_a\ (ug/m^3) = \frac{THQ\ x\ RfD\ x\ BW\ x\ AT_n\ x1000\ ug/mg}{EF\ x\ ED\ x\ IhR\ x\ ET}$$

Where

TR = Target Risk (a cancer risk of one in one million, 10^{-6})

THQ = Target Hazard Quotient (a hazard index of 1)

CSF = Cancer Slope Factor $(mg/kg\text{-}day)^{-1}$

RfD = Reference Dose (mg/kg-day)

C_S = Chemical Concentration in Soil or Dust (mg/kg)

C_a = Chemical Concentration in Air (mg/m^3)

IR = Ingestion Rate (mg/day)

IhR = Inhalation Rate (m^3/hour)

PEF = Particulate Emission Factor (m^3/kg)

SA = Skin surface area exposed (cm^2)

AF = Soil to skin adherence factor (mg/cm^2)

ABS = Absorption fraction of chemical from soil

ET = Exposure Time (hrs/day)

EF = Exposure Frequency (days/year)

ED = Exposure Duration (years)

BW = Body Weight (kg)

AT_c = Averaging Time – carcinogenic (days)

AT_n = Averaging Time – noncarcinogenic (days)

For the adult+child scenario, the ingestion rate, skin contact and inhalation rates are time-weighted averages to account for different exposure assumptions used for adult and child receptors using the following equations:

Adjusted Ingestion Rate for Adult+Child

$$IR_{adj}(mg-yr/kg-d) = \frac{ED_c \; x \; IR_c}{BW_c} + \frac{ED_a \; x \; IR_a}{BW_a}$$

Adjusted Skin Contact Rate for Adult+Child

$$SA_{adj}(mg-yr/kg-d) = \frac{ED_c \; x \; AF \; x \; SA_c}{BW_c} + \frac{ED_a \; x \; AF \; x \; SA_a}{BW_a}$$

Adjusted Inhalation Rate for Adult+Child

$$IhR_{adj}(mg-yr/kg-d) = \frac{ED_c \; x \; ET \; x \; IhR_c}{BW_c} + \frac{ED_a \; x \; ET \; x \; IhR_a}{BW_a}$$

These equations were used to calculate exposure concentrations in primary exposure media. A target cancer risk of one in one million (10^{-6}) and target hazard index of 1 were used for the calculation of PRGs as these threshold values were identified as the point of departure in the risk calculations. PRGs for soil do not include inhalation of volatile

compounds measured in soil which then partition to soil gas and are subsequently released to air. Inhalation of VOCs is captured primarily through exposure to soil gas, which is discussed in Section 3.12 of the Data Gaps Analysis.

The updated PRG intercalculation tables for soil and groundwater are provided in Tables H-3 and H-4, respectively. Table H-3 calculates soil PRGs for the resident and industrial worker receptors via soil ingestion, inhalation, and dermal contact exposure pathways using the formulas listed above. The column titled "combined" lists the soil PRG based on combining all three exposure pathways. Table H-4 calculates groundwater PRGs for the resident receptor via groundwater ingestion and inhalation using the formulas listed above. The column titled "combined" lists the groundwater PRG based on combining the two exposure pathways. Ambient air PRGs are provided in this table as well.

H.2 PRGs for the Rural Resident

EPA Region 9 PRGs include exposure via incidental ingestion, dermal contact and inhalation. However, for Area IV, the residential scenario is a rural resident scenario which would include ingestion of fruits and vegetables ; therefore, PRGs needed to be updated to incorporate this exposure pathway. As noted in Section 3.3.2.2, to address this pathway, agricultural land use PRGs for the ingestion of fruits and vegetables from the Risk Assessment Information System (RAIS), which were last updated in May 2007, were included in the screening process. These soil PRGs include the ingestion of fruits and vegetables exposure pathway and are calculated for a cancer risk levels of 1.0E-6 and hazard levels of 1 using equations developed for assessment of sites on the Oak Ridge Reservation in Oak Ridge, Tennessee and approved by EPA Region 4 (Table H-5).

To combine the Region 4 agricultural PRGs for the ingestion of fruits and vegetables with the Region 9 PRGs, the soil PRG formula in Section H.1 was modified as follows:

Equation for Exposure to Carcinogenic Contaminants in Industrial Soil through Ingestion, Dermal Contact, and Inhalation of Fugitive Dust

$$C_s\ (mg/kg) = \frac{TR \times BW \times AT_c}{EF \times ED\left[\left(\frac{IR \times CSF}{10^6\ mg/kg}\right)+\left(\frac{SA \times AF \times ABS \times CSF}{10^6\ mg/kg}\right)+\left(\frac{ET \times IhR \times CSF}{PEF}\right)+\left(\frac{1}{AgPRG_c}\right)\right]}$$

Equation for Exposure to Noncarcinogenic Contaminants in Industrial Soil through Ingestion, Dermal Contact, and Inhalation of Fugitive Dust

$$C_s\ (mg/kg) = \frac{THQ \times BW \times AT_n}{EF \times ED\left[\left(\frac{1}{RfD} \times \frac{IR}{10^6\ mg/kg}\right)+\left(\frac{1}{RfD} \times \frac{SA \times AF \times ABS}{10^6\ mg/kg}\right)+\left(\frac{1}{RfD} \times \frac{ET \times IhR}{PEF}\right)+\left(\frac{1}{AgPRG_n}\right)\right]}$$

Where

$Ag\ PRG_c$ = Agricultural PRG for the ingestion of fruits and vegetables based on Cancer Risk of 10^{-6} (Table H-5)

$Ag\ PRG_n$ = Agricultural PRG for the ingestion of fruits and vegetables based on Hazard Quotient of 1 for Child (Table H-5)

Note that the agricultural PRG for the ingestion of fruits and vegetables for the non-carcinogens was based on the PRG for the child to be more conservative. Although this does not conform with the adult plus child receptor that was used for the calculation of the Region 9 PRGs, the difference is minimal and the resulting PRG is adequate for screening purposes.

The updated list of PRGs incorporating the updated toxicity values and the ingestion of fruits and vegetables pathways is provided in Table H-6. Table H-6 summarizes the soil and groundwater PRGs calculated in this appendix. The column titled "Rural residential soil" provides the soil PRGs calculated in Table H-3 modified to incorporate the ingestion of fruits and vegetables. The most stringent PRG based on either carcinogenic or non-carcinogenic exposure was selected as the PRG.

For a few chemicals, the Region 9 2004 PRG referred to the soil saturation concentration ("sat"). As noted in the PRG guidance, this value "corresponds to the contaminant concentration in soil at which the absorptive limits of the soil particles, the solubility limits of the soil pore water, and the saturation of soil pore have been reached." For chemicals with a "sat" value in the 2004 PRG table, the "sat" value was retained as the PRG, with the exception of ethylbenzene. CalEPA OEHHA considers ethylbenzene to be carcinogenic, whereas Region 9 2004 PRG Table did not. Thus, the calculated soil PRG using the CalEPA OEHHA cancer slope factor toxicity value was used as the updated PRG instead of the "sat" value.

The column titled "Industrial soil" provides the soil PRGs calculated in Table H-3, listing the most stringent PRG based on either carcinogenic or non-carcinogenic exposure. The column titled "Ambient air" and "Tap Water" provides the ambient air and tap water PRGs, respectively, as calculated in Table H-4, listing the most stringent PRG based on either carcinogenic or non-carcinogenic exposure.

References

USEPA 2004. Users' Guide and Background Technical Document for USEPA Region 9's Preliminary Remediation Goals (PRGs) Table.

Table H-1
CalEPA OEHHA Cancer Potenticy Values from the Toxicity Criteria Database dated January 25, 2008

Chemical	CAS	Inhalation Slope Factor (mg/kg-day)	Inhalation Unit Risk (μg/cubic meter)	Oral Slope Factor (mg/kg-day)
1,1,2,2-Tetrachloroethane	79-34-5	2.00E-01	5.80E-05	2.70E-01
1,1,2-Trichloroethane	79-00-5	5.70E-02	1.60E-05	7.20E-02
1,1-Dichloroethane	75-34-3	5.70E-03	1.60E-06	5.70E-03
1,2,3,4,6,7,8,9-Octachlorodibenzofuran	39001-02-0	1.30E+01	3.80E-03	1.30E+01
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin	3268-87-9	1.30E+01	3.80E-03	1.30E+01
1,2,3,4,6,7,8-Heptachlorodibenzofuran	67562-39-4	1.30E+03	3.80E-01	1.30E+03
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	37871-00-4	1.30E+03	3.80E-01	1.30E+03
1,2,3,4,7,8,9-Heptachlorodibenzofuran	55673-89-7	1.30E+03	3.80E-01	1.30E+03
1,2,3,4,7,8-Hexachlorodibenzofuran	70648-26-9	1.30E+04	3.80E+00	1.30E+04
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	39227-28-6	1.30E+04	3.80E+00	1.30E+04
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	57653-85-7	1.30E+04	3.80E+00	1.30E+04
1,2,3,7,8,9-Hexachlorodibenzofuran	72918-21-9	1.30E+04	3.80E+00	1.30E+04
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	19408-74-3	1.30E+04	3.80E+00	1.30E+04
1,2,3,7,8-Pentachlorodibenzofuran	57117-41-6	6.50E+03	1.90E+00	6.50E+03
1,2,3,7,8-Pentachlorodibenzo-p-dioxin	40321-76-4	1.30E+05	3.80E+01	1.30E+05
1,2,4-Trichlorobenzene	120-82-1			3.60E-03
1,2-Dibromo-3-chloropropane	96-12-8	7.00E+00	1.90E-03	7.00E+00
1,2-Dibromoethane	106-93-4	2.50E-01	7.10E-05	3.60E+00
1,2-Dichloroethane	107-06-2	7.20E-02	2.10E-05	4.70E-02
1,2-Dichloropropane	78-87-5	3.60E-02	1.00E-05	3.60E-02
1,2-Dimethylhydrazine	540-73-8	5.50E+02	1.60E-01	5.50E+02
1,3-Butadiene	106-99-0	6.00E-01	1.70E-04	3.40E+00
1,3-Dichloropropene	542-75-6	5.50E-02	1.60E-05	9.10E-02
1,3-Propane sultone	1120-71-4	2.40E+00	6.90E-04	2.40E+00
1,4-Dichlorobenzene	106-46-7	4.00E-02	1.10E-05	5.40E-03
1,4-Dioxane	123-91-1	2.70E-02	7.70E-06	2.70E-02
1,6-Dinitropyrene	42397-64-8	3.90E+01	1.10E-02	1.20E+02
1,8-Dinitropyrene	42397-65-9	3.90E+00	1.10E-03	1.20E+01
1-[(5-Nitrofurfurylidene)-amino]-2-imidazolidinone	555-84-0	1.80E+00	5.10E-04	1.80E+00
1-Amino-2-methylanthraquinone	82-28-0	1.50E-01	4.30E-05	1.50E-01
1-Nitropyrene	5522-43-0	3.90E-01	1.10E-04	1.20E+00
2-(2-Formylhydrazino)-4-(5-nitro-2-furyl)thiazole	3570-75-0	2.30E+00	6.60E-04	2.30E+00
2,3,3',4,4',5,5'-HpCB	39635-31-9	1.30E+01	3.80E-03	1.30E+01
2,3,3',4,4',5'-HxCB	69782-90-7	6.50E+01	1.90E-02	6.50E+01
2,3,3',4,4',5-HxCB	38380-08-4	6.50E+01	1.90E-02	6.50E+01
2,3,3',4,4'-PeCB	32598-14-4	1.30E+01	3.80E-03	1.30E+01
2,3',4,4',5,5'-HxCB	52663-72-6	1.30E+00	3.80E-04	1.30E+00
2',3,4,4',5-PeCB	65510-44-3	1.30E+01	3.80E-03	1.30E+01
2,3',4,4',5-PeCB	31508-00-6	1.30E+01	3.80E-03	1.30E+01
2,3,4,4',5-PeCB	74472-37-0	6.50E+01	1.90E-02	6.50E+01
2,3,4,6,7,8-Hexachlorodibenzofuran	60851-34-5	1.30E+04	3.80E+00	1.30E+04
2,3,4,7,8,9-Hexachlorodibenzofuran	57117-44-9	1.30E+04	3.80E+00	1.30E+04
2,3,4,7,8-Pentachlorodibenzofuran	57117-31-4	6.50E+04	1.90E+01	6.50E+04
2,3,7,8-Hexachlorodibenzo-p-dioxin (mixture)	HCDBPmix	1.30E+04	3.80E+00	3.30E+03

Table H-1
CalEPA OEHHA Cancer Potenticy Values from the Toxicity Criteria Database dated January 25, 2008

Chemical	CAS	Inhalation Slope Factor (mg/kg-day)	Inhalation Unit Risk (μg/cubic meter)	Oral Slope Factor (mg/kg-day)
2,3,7,8-Tetrachlorodibenzofuran	51207-31-9	1.30E+04	3.80E+00	1.30E+04
2,3,7,8-Tetrachlorodibenzo-p-dioxin and related compounds (TCDD)	1746-01-6	1.30E+05	3.80E+01	1.30E+05
2,4,6-Trichlorophenol	88-06-2	7.00E-02	2.00E-05	7.00E-02
2,4-Diaminoanisole	615-05-4	2.30E-02	6.60E-06	2.30E-02
2,4-Diaminoanisole sulfate	39156-41-7	1.30E-02	3.70E-06	1.30E-02
2,4-Diaminotoluene	95-80-7	4.00E+00	1.10E-03	3.80E+00
2,4-Dinitrotoluene	121-14-2	3.10E-01	8.90E-05	3.10E-01
2-Acetylaminofluorene	53-96-3	3.80E+00	1.30E-03	3.80E+00
2-Amino-5-(5-nitro-2-furyl)-1,3,4-thiadiazol	712-68-5	1.60E+01	4.60E-03	1.60E+01
2-Aminoanthraquinone	117-79-3	3.30E-02	9.40E-06	3.30E-02
2-Methyl-1-nitroanthraquinone (of uncertain purity)	129-15-7	4.30E+00	1.20E-03	4.30E+00
2-Naphthylamine	91-59-8	1.80E+00	0.00E+00	1.80E+00
2-Nitrofluorene	607-57-8	3.90E-02	1.10E-05	1.20E-01
3,3',4,4',5,5'-HxCB	32774-16-6	1.30E+03	3.80E-01	1.30E+03
3,3',4,4',5-PeCB	57465-28-8	1.30E+04	3.80E+00	1.30E+04
3,3',4,4'-TCB	32598-13-3	1.30E+01	3.80E-03	1.30E+01
3,3-Dichlorobenzidine	91-94-1	1.20E+00	3.40E-04	1.20E+00
3,4,4'5-TCB	70362-50-4	1.30E+01	3.80E-03	1.30E+01
3-Amino-9-ethylcarbazolehydrochloride	6109-97-3	7.80E-02	2.20E-05	7.80E-02
3-Chloro-2-methylpropene	563-47-3	1.40E-01	4.00E-05	1.40E-01
3-Methylcholanthrene	56-49-5	2.20E+01	6.30E-03	2.20E+01
4,4-Diaminodiphenyl ether	101-80-4	1.40E-01	4.00E-05	1.40E-01
4,4-Methylene bis(2-chloroaniline)	101-14-4	1.50E+00	4.30E-04	1.50E+00
4,4-Methylene bis(2-methylaniline)	838-88-0	9.20E-01	2.60E-04	9.20E-01
4,4-Methylene bis(N,N'-dimethyl)aniline	101-61-1	4.60E-02	1.30E-05	4.60E-02
4,4-Methylenedianiline	101-77-9	1.60E+00	4.60E-04	1.60E+00
4,4-Methylenedianiline dihydrochloride	13552-44-8	1.20E+00	3.40E-04	1.20E+00
4,4-Thiodianiline	139-65-1	1.50E+01	4.30E-03	1.50E+01
4-Aminobiphenyl (4-aminodiphenyl)	92-67-1	2.10E+01	6.00E-03	2.10E+01
4-Chloro-ortho-phenylenediamine	95-83-0	1.60E-02	4.60E-06	1.60E-02
4-Dimethylaminoazobenzene	60-11-7	4.60E+00	1.30E-03	4.60E+00
4-Nitropyrene	57835-92-4	3.90E-01	1.10E-04	1.20E+00
5-Methylchrysene	3697-24-3	3.90E+00	1.10E-03	1.20E+01
5-Nitroacenaphthene	602-87-9	1.30E-01	3.70E-05	1.30E-01
5-Nitro-o-anisidine	99-59-2	4.90E-02	1.40E-05	4.90E-02
6-Nitrochrysene	7496-02-8	3.90E+01	1.10E-02	1.20E+02
7,12-Dimethylbenz(a)anthracene	57-97-6	2.50E+02	7.10E-02	2.50E+02
7H-dibenzo(c,g)carbazole	194-59-2	3.90E+00	1.10E-03	1.20E+01
A-alpha-C(2-Amino-9H-pyrido[2,3-b]indole)	26148-68-5	4.00E-01	1.14E-04	4.00E-01
Acetaldehyde	75-07-0	1.00E-02	2.70E-06	
Acetamide	60-35-5	7.00E-02	2.00E-05	7.00E-02
Acrylamide	79-06-1	4.50E+00	1.30E-03	4.50E+00
Acrylonitrile	107-13-1	1.00E+00	2.90E-04	1.00E+00
Actinomycin D	50-76-0	8.70E+03	2.50E+00	8.70E+03

Table H-1
CalEPA OEHHA Cancer Potenticy Values from the Toxicity Criteria Database dated January 25, 2008

Chemical	CAS	Inhalation Slope Factor (mg/kg-day)	Inhalation Unit Risk (μg/cubic meter)	Oral Slope Factor (mg/kg-day)
AF-2;[2-(2-furyl)-3(5-nitro-2-furyl)]acrylamide	3688-53-7	2.40E-01	6.90E-05	2.40E-01
Alachlor	15972-60-8			5.60E-02
Aldrin	309-00-2	1.70E+01	4.90E-03	1.70E+01
Allyl chloride	107-05-1	2.10E-02	6.00E-06	2.10E-02
Amitrole	61-82-5	9.40E-01	2.70E-04	9.40E-01
Aniline	62-53-3	5.70E-03	1.60E-06	5.70E-03
Aramite	140-57-8	3.00E-02	8.60E-06	3.00E-02
Arsenic	7440-38-2	1.20E+01	3.30E-03	9.45E+00
Asbestos [1/(100 PCM fibers/m^3)]^-1	1332-21-4	2.20E+02	6.30E-02	
Atrazine	1912-24-9			2.30E-01
Auramine	492-80-8	8.80E-01	2.50E-04	8.80E-01
Azaserine	115-02-6	1.10E+01	3.10E-03	1.10E+01
Azathioprine	446-86-6	1.80E+00	5.10E-04	1.80E+00
Azobenzene	103-33-3	1.10E-01	3.10E-05	1.10E-01
Benz(a)anthracene	56-55-3	3.90E-01	1.10E-04	1.20E+00
Benzene	71-43-2	1.00E-01	2.90E-05	1.00E-01
Benzidine	92-87-5	5.00E+02	1.40E-01	5.00E+02
Benzo(a)pyrene	50-32-8	3.90E+00	1.10E-03	1.20E+01
Benzo(b)fluoranthene	205-99-2	3.90E-01	1.10E-04	1.20E+00
Benzo(j)fluoranthene	205-82-3	3.90E-01	1.10E-04	1.20E+00
Benzo(k)fluoranthene	207-08-9	3.90E-01	1.10E-04	1.20E+00
Benzyl chloride	100-44-7	1.70E-01	4.90E-05	1.70E-01
Benzyl violet 4B	1694-09-3	2.00E-02	5.70E-06	2.00E-02
Beryllium	7440-41-7	8.40E+00	2.40E-03	
Beryllium oxide	1304-56-9	8.40E+00	2.40E-03	7.00E+00
Beryllium sulfate	13510-49-1	3.00E+03	8.60E-01	3.00E+03
beta-Butyrolactone	3068-88-0	1.00E+00	2.90E-04	1.00E+00
beta-Propiolactone	57-57-8	1.40E+01	4.00E-03	1.40E+01
Bis(2-chloroethyl) ether	111-44-4	2.50E+00	7.10E-04	2.50E+00
Bis(2-chloromethyl) ether	542-88-1	4.60E+01	1.30E-02	4.60E+01
Bromodichloromethane	75-27-4	1.30E-01	3.70E-05	1.30E-01
Butylated hydroxyanisole	25013-16-5	2.00E-04	5.70E-08	2.00E-04
C.I. Basic Red 9 monohydrochloride	569-61-9	2.50E-01	7.10E-05	2.40E+02
Cadmium	7440-43-9	1.50E+01	4.20E-03	
Captafol	2425-06-1	1.50E-01	4.30E-05	1.50E-01
Captan	133-06-2	2.30E-03	6.60E-07	2.30E-03
Carbon tetrachloride	56-23-5	1.50E-01	4.20E-05	1.50E-01
Chlorambucil	305-03-3	4.40E+02	1.30E-01	2.30E-03
Chlordane	57-74-9	1.20E+00	3.40E-04	1.30E+00
Chlordecone (Kepone)	143-50-0	1.60E+01	4.60E-03	1.60E+01
Chlorendic acid	115-28-6	9.10E-02	2.60E-05	9.10E-02
Chlorinated paraffins (Avg. chain length,C12:approx.60 percent chlorine by weight)	108171-26-2	8.90E-02	2.50E-05	8.90E-02
Chlorodibromomethane	124-48-1	9.40E-02	2.70E-05	9.40E-02
Chloroform	67-66-3	1.90E-02	5.30E-06	3.10E-02

Table H-1
CalEPA OEHHA Cancer Potenticy Values from the Toxicity Criteria Database dated January 25, 2008

Chemical	CAS	Inhalation Slope Factor (mg/kg-day)	Inhalation Unit Risk (μg/cubic meter)	Oral Slope Factor (mg/kg-day)
Chloromethyl methyl ether (technical grade)	107-30-2	2.40E+00	6.90E-04	2.40E+00
Chlorothalonil	1897-45-6	3.10E-03	8.90E-07	3.10E-03
Chlorozotocin	54749-90-5	2.40E+02	6.90E-02	2.40E+02
Chromium, hexavalent (Chromium VI)	18540-29-9	5.10E+02	1.50E-01	
Chrysene	218-01-9	3.90E-02	1.10E-05	1.20E-01
Cinnamyl anthranilate	87-29-6	4.60E-03	1.30E-06	4.60E-03
Coke oven emissions	Coke	2.20E+00	6.20E-04	
Cupferron	135-20-6	2.20E-01	6.30E-05	2.20E-01
Cyclophosphamide (anhydrous)	50-18-0	6.10E-01	1.70E-04	6.10E-01
Cyclophosphamide (hydrated)	6055-19-2	5.70E-01	1.60E-04	5.70E-01
D & C Red No. 9	5160-02-1	5.30E-03	1.50E-06	5.30E-03
Dacarbazine	4342-03-4	4.90E+01	1.40E-02	4.90E+01
Daminozide	1596-84-5	1.80E-02	5.10E-06	1.80E-02
Dantron	117-10-2	7.60E-02	2.20E-05	7.60E-02
Di(2-ethylhexyl)phthalate	117-81-7	8.40E-03	2.40E-06	3.00E-03
Dibenz(a,h)acridine	226-36-8	3.90E-01	1.10E-04	1.20E+00
Dibenz(a,h)anthracene	53-70-3	4.10E+00	1.20E-03	4.10E+00
Dibenz(a,j)acridine	224-42-0	3.90E-01	1.10E-04	1.20E+00
Dibenzo(a,e)pyrene	192-65-4	3.90E+00	1.10E-03	1.20E+01
Dibenzo(a,h)pyrene	189-64-0	3.90E+01	1.10E-02	1.20E+02
Dibenzo(a,i)pyrene	189-55-9	3.90E+01	1.10E-02	1.20E+02
Dibenzo(a,l)pyrene	191-30-0	3.90E+01	1.10E-02	1.20E+02
Dichlorodiphenyldichloroethane	72-54-8	2.40E-01	6.90E-05	2.40E-01
Dichlorodiphenyldichloroethylene	72-55-9	3.40E-01	9.70E-05	3.40E-01
Dichlorodiphenyltrichloroethane	50-29-3	3.40E-01	9.70E-05	3.40E-01
Dichlorvos	62-73-7	2.90E-01	8.30E-05	4.10E-01
Dieldrin	60-57-1	1.60E+01	4.60E-03	1.60E+01
Diesel exhaust particulate	DEP	1.10E+00	3.00E-04	
Diethylstilbestrol	56-53-1	3.50E+02	1.00E-01	3.50E+02
Diglycidyl resorcinol ether (DGRE)	101-90-6	1.70E+00	4.90E-04	1.70E+00
Dihydrosafrole	94-58-6	4.40E-02	1.30E-05	4.40E-02
Dimethylcarbamyl chloride	79-44-7	1.30E+01	3.70E-03	1.30E+01
Dimethylvinylchloride	513-37-1	4.50E-02	1.30E-05	4.50E-02
Direct Black 38 (technical grade)	1937-37-7	7.40E+00	2.10E-03	7.40E+00
Direct Blue 6 (technical grade)	2602-46-2	7.40E+00	2.10E-03	7.40E+00
Direct Brown 95 (technical grade)	16071-86-6	6.70E+00	1.90E-03	6.70E+00
Disperse Blue 1 (technical grade)	2475-45-8	4.50E-03	1.30E-06	4.50E-03
Epichlorohydrin	106-89-8	8.00E-02	2.30E-05	8.00E-02
Estradiol 17B	50-28-2	3.90E+01	1.10E-02	3.90E+01
Ethyl-4,4'-dichlorobenzilate	510-15-6	1.10E-01	3.10E-05	1.10E-01
Ethylbenzene	100-41-4	8.70E-03	2.50E-06	1.10E-02
Ethylene oxide	75-21-8	3.10E-01	8.80E-05	3.10E-01
Ethylene thiourea	96-45-7	4.50E-02	1.30E-05	4.50E-02
Ethyleneimine	151-56-4	6.50E+01	1.90E-02	6.50E+01
Formaldehyde	50-00-0	2.10E-02	6.00E-06	
Furmecyclox	60568-05-0	3.00E-02	8.60E-06	3.00E-02

Table H-1
CalEPA OEHHA Cancer Potenticy Values from the Toxicity Criteria Database dated January 25, 2008

Chemical	CAS	Inhalation Slope Factor (mg/kg-day)	Inhalation Unit Risk (μg/cubic meter)	Oral Slope Factor (mg/kg-day)
d]imidazole)	67730-11-4	4.80E+00	1.40E-03	4.80E+00
Glu-P-2 (2-Aminodipyrido[1,2-a:3',2'-d]indole)	67730-10-3	1.40E+00	4.00E-04	1.40E+00
Gyromitrin	16568-02-8	1.00E+01	2.90E-03	1.00E+01
HC Blue 1	2784-94-3	5.10E-02	1.50E-05	5.10E-02
Heptachlor	76-44-8	4.10E+00		4.10E+00
Heptachlor epoxide	1024-57-3	5.50E+00		5.50E+00
Hexachlorobenzene	118-74-1	1.80E+00	5.10E-04	1.80E+00
Hexachlorocyclohexane (technical grade)	608-73-1	4.00E+00	1.10E-03	4.00E+00
Hexachlorocyclohexane, alpha isomer	319-84-6	2.70E+00	7.70E-04	2.70E+00
Hexachlorocyclohexane, beta isomer	319-85-7	1.50E+00	4.30E-04	1.50E+00
Hexachlorocyclohexane, gamma isomer	58-89-9	1.10E+00	3.10E-04	1.10E+00
Hexachlorodibenzo-p-dioxin	34465-46-8	1.30E+04	3.80E+00	1.30E+04
Hexachloroethane	67-72-1	3.90E-02	1.10E-05	3.90E-02
Hydrazine	302-01-2	1.70E+01	4.90E-03	3.00E+00
Hydrazine Sulfate	10034-93-2	3.00E+00	8.60E-04	3.00E+00
Hydrazobenzene	122-66-7	8.70E-01	2.50E-04	8.70E-01
Indeno(1,2,3-c,d)pyrene	193-39-5	3.90E-01	1.10E-04	1.20E+00
IQ (2-Amino-3-methylimidazo-[4,5-f]quinoline)	76180-96-6	1.40E+00	4.00E-04	1.40E+00
Lasiocarpine	303-34-4	7.80E+00	2.20E-03	7.80E+00
Lead acetate	301-04-2	2.80E-01	8.00E-05	2.80E-01
Lead and lead compounds	7439-92-1	4.20E-02	1.20E-05	8.50E-03
Lead subacetate	1335-32-6	3.80E-02	1.10E-05	3.80E-02
Me-A-alpha-C (2-Amino-3-methyl-9H-pyrido[2,3-b]indole)	68006-83-7	1.20E+00	3.40E-04	1.20E+00
Melphalan	3223-07-2	1.30E+02	3.70E-02	1.30E+02
Methyl methanesulfonate	66-27-3	9.90E-02	2.80E-05	9.90E-02
Methyl tertiary butyl ether (MTBE)	1634-04-4	9.10E-04	2.60E-07	1.80E-03
Methylene chloride	75-09-2	3.50E-03	1.00E-06	1.40E-02
Methylthiouracil	56-04-2	4.00E-01	1.10E-04	4.00E-01
Michler's ketone	90-94-8	8.60E-01	2.50E-04	8.60E-01
Mirex	2385-85-5	1.80E+01	5.10E-03	1.80E+01
Mitomycin C	50-07-7	8.20E+03	2.30E+00	8.20E+03
Monocrotaline	315-22-0	1.00E+01	2.90E-03	1.00E+01
N-[4-(5-Nitro-2-furyl)-2-thiazolyl]-acetamide	531-82-8	1.50E+00	4.30E-04	1.50E+00
naphthalene	91-20-3	1.20E-01	3.40E-05	
Nickel and Nickel compounds	7440-02-0	9.10E-01	2.60E-04	
Nickel subsulfide	12035-72-2	1.70E+00	4.90E-04	1.70E+00
Nitrilotriacetic acid	139-13-9	5.30E-03	1.50E-06	5.30E-03
Nitrilotriacetic acid, trisodium salt monohydrate	18662-53-8	1.00E-02	2.90E-06	1.00E-02
Nitrofen (technical grade)	1836-75-5	8.20E-02	2.30E-05	8.20E-02
Nitrofurazone	59-87-0	1.30E+00	3.70E-04	1.30E+00
N-Methyl-N-nitro-N-nitrosoguanidine	70-25-7	8.30E+00	2.40E-03	8.30E+00
N-Nitrosodiethanolamine	1116-54-7	2.80E+00	8.00E-04	2.80E+00
N-Nitrosodiethylamine	55-18-5	3.60E+01	1.00E-02	3.60E+01

Table H-1
CalEPA OEHHA Cancer Potenticy Values from the Toxicity Criteria Database dated January 25, 2008

Chemical	CAS	Inhalation Slope Factor (mg/kg-day)	Inhalation Unit Risk (μg/cubic meter)	Oral Slope Factor (mg/kg-day)
N-Nitrosodimethylamine	62-75-9	1.60E+01	4.60E-03	1.60E+01
N-Nitrosodi-n-butylamine	924-16-3	1.10E+01	3.10E-03	1.10E+01
N-Nitrosodi-n-propylamine	621-64-7	7.00E+00	2.00E-03	7.00E+00
N-Nitrosodiphenylamine	86-30-6	9.00E-03	2.60E-06	9.00E-03
N-Nitrosomorpholine	59-89-2	6.70E+00	1.90E-03	6.70E+00
N-Nitroso-N-ethylurea	759-73-9	2.70E+01	7.70E-03	2.70E+01
N-Nitroso-N-methylethylamine	10595-95-6	2.20E+01	6.30E-03	2.20E+01
N-Nitroso-N-methylurea	684-93-5	1.20E+02	3.40E-02	1.20E+02
N-Nitroso-N-methylurethane	615-53-2	1.10E+02	3.10E-02	1.10E+02
N-Nitrosonornicotine	16543-55-8	1.40E+00	4.00E-04	1.40E+00
N-Nitrosopiperidine	100-75-4	9.40E+00	2.70E-03	9.40E+00
N-Nitrosopyrrolidine	930-55-2	2.10E+00	6.00E-04	2.10E+00
O-Phenylphenate, sodium	132-27-4	3.00E-03	8.60E-07	3.00E-03
ortho-Aminoazotoluene	97-56-3	3.80E+00	1.10E-03	3.80E+00
ortho-Anisidine	90-04-0	1.40E-01	4.00E-05	1.40E-01
ortho-Anisidine hydrochloride	134-29-2	1.10E-01	3.10E-05	1.10E-01
ortho-Toluidine	95-53-4	1.80E-01	5.10E-05	1.80E-01
ortho-Toluidine hydrochloride	636-21-5	1.30E-01	3.70E-05	1.30E-01
para-Cresidine	120-71-8	1.50E-01	4.30E-05	1.50E-01
p-Chloro-o-toluidine	95-69-2	2.70E-01	7.70E-05	2.70E-01
Pentachlorophenol	87-86-5	1.80E-02	4.60E-06	8.10E-02
Phenacetin	62-44-2	2.20E-03	6.30E-07	2.20E-03
Phenazopyridine	94-78-0	1.70E-01	4.90E-05	1.70E-01
Phenazopyridine hydrochloride	136-40-3	1.50E-01	4.30E-05	1.50E-01
Phenesterin	3546-10-9	1.50E+02	4.30E-02	1.50E+02
Phenobarbital	50-06-6	4.60E-01	1.30E-04	4.60E-01
Phenoxybenzamine	59-96-1	3.10E+00	8.90E-04	3.10E+00
Phenoxybenzamine hydrochloride	63-92-3	2.70E+00	7.70E-04	2.70E+00
p-Nitrosodiphenylamine	156-10-5	2.20E-02	6.30E-06	2.20E-02
Polybrominated biphenyls (PBB)	PBB	3.00E+01	8.60E-03	3.00E+01
Polychlorinated biphenyls	133-63-63	2.00E+00	5.70E-04	5.00E+00
Ponceau 3R	3564-09-8	1.60E-02	4.60E-06	1.60E-02
Ponceau MX (D&C Red No.5)	3761-53-3	4.50E-03	1.30E-06	4.50E-03
Potassium bromate	7758-01-2	4.90E-01	1.40E-04	4.90E-01
Procarbazine	671-16-9	1.40E+01	4.00E-03	1.40E+01
Procarbazine hydrochloride	366-70-1	1.20E+01	3.40E-03	1.20E+01
Propylene oxide	75-56-9	1.30E-02	3.70E-06	2.40E-01
Propylthiouracil	51-52-5	1.00E+00	2.90E-04	1.00E+00
Reserpine	50-55-5	1.10E+01	3.10E-03	1.10E+01
Safrole	94-59-7	2.20E-01	6.30E-05	2.20E-01
Sterigmatocystin	10048-13-2	3.50E+01	1.00E-02	2.20E-01
Streptozotocin	18883-66-4	1.10E+02	3.10E-02	1.10E+02
Styrene oxide	96-09-3	1.60E-01	4.60E-05	1.60E-01
Sulfallate	95-06-7	1.90E-01	5.40E-05	1.90E-01
Tetrachloroethylene	127-18-4	2.10E-02	5.90E-06	5.40E-01
Thioacetamide	62-55-5	6.10E+00	1.70E-03	6.10E+00

Table H-1
CalEPA OEHHA Cancer Potenticy Values from the Toxicity Criteria Database dated January 25, 2008

Chemical	CAS	Inhalation Slope Factor (mg/kg-day)	Inhalation Unit Risk (μg/cubic meter)	Oral Slope Factor (mg/kg-day)
Thiourea	62-56-6	7.20E-02	2.10E-05	7.20E-02
Toluene diisocyanate	26471-62-5	3.90E-02	1.10E-05	3.90E-02
Toxaphene	8001-35-2	1.20E+00	3.40E-04	1.20E+00
trans-2[(Dimethylamino)-methylimino]-5-[2-(5-nitro-2-furyl)-vinyl]-1,3,4-oxadiazole	55738-54-0	4.40E-01	1.30E-04	4.40E-01
Trichloroethylene	79-01-6	7.00E-03	2.00E-06	1.30E-02
Tris-(1-aziridinyl)phosphine sulfide	52-24-4	1.20E+01	3.40E-03	1.20E+01
Tris(2,3-dibromopropyl)phosphate	126-72-7	2.30E+00	6.60E-04	2.30E+00
Trp-P-1 (Tryptophan-P-1)	62450-06-0	2.60E+01	7.40E-03	2.60E+01
Trp-P-2 (Tryptophan-P-2)	62450-07-1	3.20E+00	9.10E-04	3.20E+00
Urethane	51-79-6	1.00E+00	2.90E-04	1.00E+00
Vinyl chloride	75-01-4	2.70E-01	7.80E-05	2.70E-01

mg/kg-day = milligrams per kilogram per day

μg/cubic meter = microgram per cubic meter

CalEPA = California Environmental Protection Agency

OEHHA = Office of Environmental Human Hazard Assessment

Table H-2
CalEPA OEHHA Chronic Reference Exposure Levels dated March 7, 2008

Chemical	CAS	Chronic Inhalation REL ($\mu g/m^3$)	Chronic Inhalation RfDi (mg/kg-day)	Hazard Index Target(s)	Human Data
Acetaldehyde*	75-07-0	9	2.57E-03	Respiratory system	
Acrolein	107-02-8	0.06	1.71E-05	Respiratory system; eyes	
Acrylonitrile	107-13-1	5	1.43E-03	Respiratory system	
Ammonia	7664-41-7	200	5.71E-02	Respiratory system	yes
Arsenic & arsenic compounds	7440-38-2	0.03	8.57E-06	Development; Cardiovascular system; Nervous system	
Benzene	71-43-2	60	1.71E-02	Hematopoietic system; development; nervous system	yes
Beryllium and beryllium compounds	7440-41-7	0.007	2.00E-06	Respiratory system; immune system	yes
Butadiene	106-99-0	20	5.71E-03	Reproductive system	
Cadmium & cadmium compounds	7440-43-9	0.02	5.71E-06	Kidney; respiratory system	yes
Carbon tetrachloride	56-23-5	40	1.14E-02	Alimentary system; development; nervous system	
Carbon disulfide	75-15-0	800	2.29E-01	Nervous system; reproductive system	yes
Chlorinated dioxins	1746-01-6	0.00004	1.14E-08	Alimentary system (liver); reproductive system; development; endocrine system; respiratory system; hematopoietic system	
(1746-01-6) & dibenzofurans	5120-73-19	0.00004	1.14E-08	Alimentary system (liver); reproductive system; development; endocrine system; respiratory system; hematopoietic system	
Chlorine	7782-50-5	0.2	5.71E-05	Respiratory system	
Chlorine dioxide	10049-04-4	0.6	1.71E-04	Respiratory system	
Chlorobenzene	108-90-7	1000	2.86E-01	Alimentary system; kidney; reproductive system	
Chloroform	67-66-3	300	8.57E-02	Alimentary system; kidney; development	
Chloropicrin	76-06-2	0.4	1.14E-04	Respiratory system	
Chromium hexavalent: soluble except chromic trioxide	18540-29-9	0.2	5.71E-05	Respiratory system	
Chromic trioxide (as chromic acid mist)		0.002	5.71E-07	Respiratory system	yes
Cresol mixtures	1319-77-3	600	1.71E-01	Nervous system	
Dichlorobenzene (1,4-)	106-46-7	800	2.29E-01	Nervous system; respiratory system; alimentary system; kidney	
Dichloroethylene (1,1)	75-35-4	70	2.00E-02	Alimentary system	
Diesel Exhaust*		5	1.43E-03	Respiratory system	
Diethanolamine	111-42-2	3	8.57E-04	Cardiovascular system; nervous system	
Dimethylformamide (N,N-)	68-12-2	80	2.29E-02	Alimentary system ; respiratory system	yes
Dioxane (1,4-)	123-91-1	3,000	8.57E-01	Alimentary system; kidney; cardiovascular system	
Epichlorohydrin	106-89-8	3	8.57E-04	Respiratory system; eyes	

Table H-2
CalEPA OEHHA Chronic Reference Exposure Levels dated March 7, 2008

Chemical	CAS	Chronic Inhalation REL ($\mu g/m^3$)	Chronic Inhalation RfDi (mg/kg-day)	Hazard Index Target(s)	Human Data
Epoxybutane (1,2-)	106-88-7	20	5.71E-03	Respiratory system; cardiovascular system	
Ethylbenzene	100-41-4	2,000	5.71E-01	Development; alimentary system (liver); kidney; endocrine system	
Ethyl chloride	75-00-3	30,000	8.57E+00	Development; alimentary system	
Ethylene dibromide	106-93-4	0.8	2.29E-04	Reproductive system	yes
Ethylene dichloride	107-06-2	400	1.14E-01	Alimentary system (liver)	
Ethylene glycol	107-21-1	400	1.14E-01	Respiratory system; kidney; development	yes
Ethylene glycol monoethyl ether	110-80-5	70	2.00E-02	Reproductive system; hematopoietic system	
Ethylene glycol monoethyl ether acetate	111-15-9	300	8.57E-02	Development	
Ethylene glycol monomethyl ether	109-86-4	60	1.71E-02	Reproductive system	
Ethylene glycol monomethyl ether acetate	110-49-6	90	2.57E-02	Reproductive system	
Ethylene oxide	75-21-8	30	8.57E-03	Nervous system	
Fluoride including Hydrogen Fluoride	16984-48-8	13	3.71E-03	Bone and teeth; respiratory system	yes
Formaldehyde	50-00-0	3	8.57E-04	Respiratory system; eyes	yes
Glutaraldehyde	111-30-8	0.08	2.29E-05	Respiratory system	
Hexane (n-)	110-54-3	7000	2.00E+00	Nervous system	
Hydrazine	302-01-2	0.2	5.71E-05	Alimentary system; endocrine system	
Hydrogen chloride	7647-01-0	9	2.57E-03	Respiratory system	
Hydrogen cyanide	74-90-8	9	2.57E-03	Nervous system; endocrine system; cardiovascular system	yes
Hydrogen sulfide	7783-06-4	10	2.86E-03	Respiratory system	
Isophorone	78-59-1	2000	5.71E-01	Development; liver	
Isopropanol	67-63-0	7,000	2.00E+00	Kidney; development	
Maleic anhydride	108-31-6	0.7	2.00E-04	Respiratory system	
Manganese & manganese compounds	7439-96-5	0.2	5.71E-05	Nervous system	yes
Mercury & mercury compounds (inorganic)	7487-94-7	0.09	2.57E-05	Nervous system	yes
Methanol	67-56-1	4,000	1.14E+00	Development	
Methyl bromide	74-83-9	5	1.43E-03	Respiratory system; nervous system; development	
Methyl chloroform	71-55-6	1,000	2.86E-01	Nervous system	
Methyl isocyanate	624-83-9	1	2.86E-04	Respiratory system; reproductive system	
Methyl t-butyl ether	1634-04-4	8,000	2.29E+00	Kidney; eyes; alimentary system (liver)	
Methylene chloride	75-09-2	400	1.14E-01	Cardiovascular system; nervous system	yes
Methylene dianiline (4,4'-)	101-77-9	20	5.71E-03	Eyes; alimentary system (hepatotoxicity)	

Table H-2
CalEPA OEHHA Chronic Reference Exposure Levels dated March 7, 2008

Chemical	CAS	Chronic Inhalation REL ($\mu g/m^3$)	Chronic Inhalation RfDi (mg/kg-day)	Hazard Index Target(s)	Human Data
Methylene Diphenyl Isocyanate	101-68-8	0.7	2.00E-04	Respiratory system	
Naphthalene	91-20-3	9	2.57E-03	Respiratory system	
Nickel & compounds (except nickel oxide)	7440-02-0	0.05	1.43E-05	Respiratory system; hematopoietic system	
Nickel oxide	1313-99-1	0.1	2.86E-05	Respiratory system; hematopoietic system	
Phenol	108-95-2	200	5.71E-02	Alimentary system; cardiovascular system; kidney; nervous system	
Phosphine	7803-51-2	0.8	2.29E-04	Respiratory system; alimentary system; nervous system; kidney; hematopoietic system	
Phosphoric acid	7664-38-2	7	2.00E-03	Respiratory system	
Phthalic anhydride	85-44-9	20	5.71E-03	Respiratory system	yes
Propylene	115-07-1	3,000	8.57E-01	Respiratory system	
Propylene glycol monomethyl ether	107-98-2	7,000	2.00E+00	Alimentary system (liver)	
Propylene oxide	75-56-9	30	8.57E-03	Respiratory system	
Selenium and selenium compounds (other than hydrogen selenide)	7782-49-2	20	5.71E-03	Alimentary system; cardiovascular system; nervous system	yes
Silica (crystalline, respirable)		3	8.57E-04	Respiratory system	yes
Styrene	100-42-5	900	2.57E-01	Nervous system	yes
Sulfuric acid	7664-93-9	1	2.86E-04	Respiratory system	
Tetrachloroethylene*(perchloroethylene)	127-18-4	35	1.00E-02	Kidney; alimentary system (liver)	
Toluene	108-88-3	300	8.57E-02	Nervous system; respiratory system; development	
Toluene diisocyanates (2,4-&2,6-)		0.07	2.00E-05	Respiratory system	yes
Trichloroethylene	79-01-6	600	1.71E-01	Nervous system; eyes	yes
Triethylamine	121-44-8	200	5.71E-02	Eyes	
Vinyl acetate	108-05-4	200	5.71E-02	Respiratory system	
Xylenes (m-, o-, p-)	1330-20-7	700	2.00E-01	Nervous system; respiratory system	yes

mg/kg-day = milligrams per kilogram per day

μg/cubic meter = microgram per cubic meter

CalEPA = California Environmental Protection Agency

OEHHA = Office of Environmental Human Hazard Assessment

Table H-3
PRG Intercalculation Tables for Soil with Updated OEHHA Toxicity Values

CONTAMINANT	RESIDENTIAL SOIL								INDUSTRIAL SOIL							
	Cancer Risk = 1E-06				Chronic HQ = 1				Cancer Risk = 1E-06				Chronic HQ = 1			
	soil-inhale (mg/kg)	soil-dermal (mg/kg)	soil-ingest (mg/kg)	combined (mg/kg)	soil-inhale (mg/kg)	soil-dermal (mg/kg)	soil-ingest (mg/kg)	combined (mg/kg)	soil-inhale (mg/kg)	soil-dermal (mg/kg)	soil-ingest (mg/kg)	combined (mg/kg)	soil-inhale (mg/kg)	soil-dermal (mg/kg)	soil-ingest (mg/kg)	combined (mg/kg)
Acephate	1.0E+06	2.3E+02	7.4E+01	5.6E+01	8.2E+06	1.1E+03	3.1E+02	2.4E+02	2.2E+06	5.0E+02	3.3E+02	2.0E+02	2.7E+07	6.2E+03	4.1E+03	2.5E+03
Acetaldehyde	8.3E+00			8.3E+00	5.0E+01			5.0E+01	1.8E+01			1.8E+01	1.6E+02			1.6E+02
Acetochlor					4.1E+07	5.6E+03	1.6E+03	1.2E+03					1.3E+08	3.1E+04	2.0E+04	1.2E+04
Acetone					1.8E+04		7.0E+04	1.4E+04					5.8E+04		9.2E+05	5.4E+04
Acetone cyanohydrin					1.6E+06	2.2E+02	6.3E+01	4.9E+01					5.4E+06	1.2E+03	8.2E+02	4.9E+02
Acetonitrile					6.2E+02		1.3E+03	4.2E+02					2.0E+03		1.7E+04	1.8E+03
Acrolein					3.1E-01		3.9E+01	3.1E-01					1.0E+00		5.1E+02	1.0E+00
Acrylamide	1.9E+03	4.5E-01	1.4E-01	1.1E-01	4.1E+05	5.6E+01	1.6E+01	1.2E+01	4.2E+03	9.6E-01	6.4E-01	3.8E-01	1.3E+06	3.1E+02	2.0E+02	1.2E+02
Acrylic acid					5.9E+05	1.4E+05	3.9E+04	2.9E+04					1.9E+06	7.7E+05	5.1E+05	2.7E+05
Acrylonitrile																
"CAL-Modified PRG"	6.0E-02		6.4E-01	5.5E-02	2.0E+01		7.8E+01	1.6E+01	1.3E-01		2.9E+00	1.2E-01	6.6E+01		1.0E+03	6.2E+01
Alachlor	1.1E+05	3.6E+01	1.1E+01	8.7E+00	2.1E+07	2.8E+03	7.8E+02	6.1E+02	2.4E+05	7.7E+01	5.1E+01	3.1E+01	6.7E+07	1.5E+04	1.0E+04	6.2E+03
Alar	4.9E+05	1.1E+02	3.6E+01	2.7E+01	3.1E+08	4.2E+04	1.2E+04	9.2E+03	1.0E+06	2.4E+02	1.6E+02	9.6E+01	1.0E+09	2.3E+05	1.5E+05	9.2E+04
Aldicarb					2.1E+06	2.8E+02	7.8E+01	6.1E+01					6.7E+06	1.5E+03	1.0E+03	6.2E+02
Aldicarb sulfone					2.1E+06	2.8E+02	7.8E+01	6.1E+01					6.7E+06	1.5E+03	1.0E+03	6.2E+02
Aldrin	5.1E+02	1.2E-01	3.8E-02	2.9E-02	6.2E+04	8.4E+00	2.3E+00	1.8E+00	1.1E+03	2.6E-01	1.7E-01	1.0E-01	2.0E+05	4.6E+01	3.1E+01	1.8E+01
Ally					5.1E+08	7.0E+04	2.0E+04	1.5E+04					1.7E+09	3.9E+05	2.6E+05	1.5E+05
Allyl alcohol					1.0E+07	1.4E+03	3.9E+02	3.1E+02					3.4E+07	7.7E+03	5.1E+03	3.1E+03
Allyl chloride	4.2E+05	9.6E+01	3.0E+01	2.3E+01	5.9E+05	8.0E+01	2.2E+01	1.7E+01	9.0E+05	2.1E+02	1.4E+02	8.2E+01	1.9E+06	4.4E+02	2.9E+02	1.8E+02
Aluminum					2.9E+06		7.8E+04	7.6E+04					9.4E+06		1.0E+06	9.2E+05
Aluminum phosphide							3.1E+01	3.1E+01							4.1E+02	4.1E+02
Amdro					6.2E+05	8.4E+01	2.3E+01	1.8E+01					2.0E+06	4.6E+02	3.1E+02	1.8E+02
Ametryn					1.9E+07	2.5E+03	7.0E+02	5.5E+02					6.1E+07	1.4E+04	9.2E+03	5.5E+03
Aminodinitrotoluene					4.1E+05	5.6E+01	1.6E+01	1.2E+01					1.3E+06	3.1E+02	2.0E+02	1.2E+02
m-Aminophenol					1.4E+08	2.0E+04	5.5E+03	4.3E+03					4.7E+08	1.1E+05	7.2E+04	4.3E+04
4-Aminopyridine					4.1E+04	5.6E+00	1.6E+00	1.2E+00					1.3E+05	3.1E+01	2.0E+01	1.2E+01
Amitraz					5.1E+06	7.0E+02	2.0E+02	1.5E+02					1.7E+07	3.9E+03	2.6E+03	1.5E+03
Ammonia					1.2E+08			1.2E+08					3.8E+08			3.8E+08
Ammonium sulfamate						5.6E+04	1.6E+04	1.2E+04						3.1E+05	2.0E+05	1.2E+05
Aniline	1.5E+06	3.5E+02	1.1E+02	8.5E+01	5.9E+05	2.0E+03	5.5E+02	4.3E+02	3.3E+06	7.6E+02	5.0E+02	3.0E+02	1.9E+06	1.1E+04	7.2E+03	4.3E+03
Antimony and compounds							3.1E+01	3.1E+01							4.1E+02	4.1E+02
Apollo					2.7E+07	3.6E+03	1.0E+03	7.9E+02					8.7E+07	2.0E+04	1.3E+04	8.0E+03
Aramite	2.9E+05	6.7E+01	2.1E+01	1.6E+01	1.0E+08	1.4E+04	3.9E+03	3.1E+03	6.3E+05	1.4E+02	9.5E+01	5.7E+01	3.4E+08	7.7E+04	5.1E+04	3.1E+04
Arsenic																
"CAL-Modified PRG"	7.3E+02	7.1E-01	6.8E-02	6.2E-02	1.8E+04	2.8E+02	2.3E+01	2.2E+01	1.6E+03	1.5E+00	3.0E-01	2.5E-01	5.8E+04	1.5E+03	3.1E+02	2.5E+02
Arsine					2.9E+04			2.9E+04					9.6E+04			9.6E+04
Assure					1.9E+07	2.5E+03	7.0E+02	5.5E+02					6.1E+07	1.4E+04	9.2E+03	5.5E+03
Asulam					1.0E+08	1.4E+04	3.9E+03	3.1E+03					3.4E+08	7.7E+04	5.1E+04	3.1E+04
Atrazine	4.0E+04	8.8E+00	2.8E+00	2.1E+00	7.2E+07	9.8E+03	2.7E+03	2.1E+03	8.6E+04	1.9E+01	1.2E+01	7.5E+00	2.4E+08	5.4E+04	3.6E+04	2.2E+04
Avermectin B1					8.2E+05	1.1E+02	3.1E+01	2.4E+01					2.7E+06	6.2E+02	4.1E+02	2.5E+02
Azobenzene	7.9E+04	1.8E+01	5.8E+00	4.4E+00					1.7E+05	3.9E+01	2.6E+01	1.6E+01				
Barium and compounds					2.9E+05		5.5E+03	5.4E+03					9.6E+05		7.2E+04	6.7E+04
Baygon					8.2E+06	1.1E+03	3.1E+02	2.4E+02					2.7E+07	6.2E+03	4.1E+03	2.5E+03
Bayleton					6.2E+07	8.4E+03	2.3E+03	1.8E+03					2.0E+08	4.6E+04	3.1E+04	1.8E+04
Baythroid					5.1E+07	7.0E+03	2.0E+03	1.5E+03					1.7E+08	3.9E+04	2.6E+04	1.5E+04
Benefin					6.2E+08	8.4E+04	2.3E+04	1.8E+04					2.0E+09	4.6E+05	3.1E+05	1.8E+05

Table H-3
PRG Intercalculation Tables for Soil with Updated OEHHA Toxicity Values

CONTAMINANT	RESIDENTIAL SOIL								INDUSTRIAL SOIL							
	Cancer Risk = 1E-06				Chronic HQ = 1				Cancer Risk = 1E-06				Chronic HQ = 1			
	soil-inhale (mg/kg)	soil-dermal (mg/kg)	soil-ingest (mg/kg)	combined (mg/kg)	soil-inhale (mg/kg)	soil-dermal (mg/kg)	soil-ingest (mg/kg)	combined (mg/kg)	soil-inhale (mg/kg)	soil-dermal (mg/kg)	soil-ingest (mg/kg)	combined (mg/kg)	soil-inhale (mg/kg)	soil-dermal (mg/kg)	soil-ingest (mg/kg)	combined (mg/kg)
Benomyl					1.0E+08	1.4E+04	3.9E+03	3.1E+03					3.4E+08	7.7E+04	5.1E+04	3.1E+04
Bentazon					6.2E+07	8.4E+03	2.3E+03	1.8E+03					2.0E+08	4.6E+04	3.1E+04	1.8E+04
Benzaldehyde					2.1E+08	2.8E+04	7.8E+03	6.1E+03					6.7E+08	1.5E+05	1.0E+05	6.2E+04
Benzene	1.8E-01		6.4E+00	1.8E-01	7.3E+01		3.1E+02	5.9E+01	3.9E-01		2.9E+01	3.9E-01	2.4E+02		4.1E+03	2.3E+02
Benzidine	1.7E+01	4.0E-03	1.3E-03	9.7E-04	6.2E+06	8.4E+02	2.3E+02	1.8E+02	3.8E+01	8.7E-03	5.7E-03	3.4E-03	2.0E+07	4.6E+03	3.1E+03	1.8E+03
Benzoic acid					8.2E+09	1.1E+06	3.1E+05	2.4E+05					2.7E+10	6.2E+06	4.1E+06	2.5E+06
Benzotrichloride	6.7E+02	1.6E-01	4.9E-02	3.7E-02					1.4E+03	3.3E-01	2.2E-01	1.3E-01				
Benzyl alcohol					6.2E+08	8.4E+04	2.3E+04	1.8E+04					2.0E+09	4.6E+05	3.1E+05	1.8E+05
Benzyl chloride	1.2E+00		3.8E+00	8.8E-01	1.3E+02		2.3E+02	8.4E+01	2.5E+00		1.7E+01	2.2E+00	4.4E+02		3.0E+03	3.8E+02
Beryllium and compounds	1.0E+03			1.0E+03	4.1E+03		1.6E+02	1.5E+02	2.2E+03			2.2E+03	1.3E+04		2.0E+03	1.8E+03
Bidrin					2.1E+05	2.8E+01	7.8E+00	6.1E+00					6.7E+05	1.5E+02	1.0E+02	6.2E+01
Biphenthrin (Talstar)					3.1E+07	4.2E+03	1.2E+03	9.2E+02					1.0E+08	2.3E+04	1.5E+04	9.2E+03
1,1-Biphenyl					1.3E+04		3.9E+03	3.0E+03					4.3E+04		5.1E+04	2.3E+04
Bis(2-chloroethyl)ether	1.5E-01		2.6E-01	9.5E-02					3.3E-01		1.1E+00	2.5E-01				
Bis(2-chloroisopropyl)ether	4.2E+00		9.1E+00	2.9E+00	1.4E+03		3.1E+03	9.5E+02	9.0E+00		4.1E+01	7.4E+00	4.5E+03		4.1E+04	4.0E+03
Bis(chloromethyl)ether	9.7E-04		1.4E-02	9.1E-04					2.1E-03		6.2E-02	2.0E-03				
Bis(2-chloro-1-methylethyl)ether	4.2E+00		9.1E+00	2.9E+00	1.4E+03		3.1E+03	9.5E+02	9.0E+00		4.1E+01	7.4E+00	4.5E+03		4.1E+04	4.0E+03
Bis(2-ethylhexyl)phthalate (DEHP)	1.0E+06	6.7E+02	2.1E+02	1.6E+02	4.1E+07	5.6E+03	1.6E+03	1.2E+03	2.2E+06	1.4E+03	9.5E+02	5.7E+02	1.3E+08	3.1E+04	2.0E+04	1.2E+04
Bisphenol A					1.0E+08	1.4E+04	3.9E+03	3.1E+03					3.4E+08	7.7E+04	5.1E+04	3.1E+04
Boron					1.2E+07		1.6E+04	1.6E+04					3.8E+07		2.0E+05	2.0E+05
Boron trifluoride					4.1E+05			4.1E+05					1.3E+06			1.3E+06
Bromate	1.2E+04	2.9E+00	9.1E-01	6.9E-01	8.2E+06	1.1E+03	3.1E+02	2.4E+02	2.7E+04	6.2E+00	4.1E+00	2.5E+00	2.7E+07	6.2E+03	4.1E+03	2.5E+03
Bromobenzene					2.8E+01		1.6E+03	2.8E+01					9.3E+01		2.0E+04	9.2E+01
Bromodichloromethane	4.2E-01		4.9E+00	3.9E-01	2.6E+02		1.6E+03	2.2E+02	9.1E-01		2.2E+01	8.7E-01	8.4E+02		2.0E+04	8.1E+02
Bromoform (tribromomethane)	2.3E+06	2.6E+02	8.1E+01	6.2E+01	4.1E+07	5.6E+03	1.6E+03	1.2E+03	4.9E+06	5.5E+02	3.6E+02	2.2E+02	1.3E+08	3.1E+04	2.0E+04	1.2E+04
Bromomethane					4.0E+00		1.1E+02	3.9E+00					1.3E+01		1.4E+03	1.3E+01
Bromophos					1.0E+07	1.4E+03	3.9E+02	3.1E+02					3.4E+07	7.7E+03	5.1E+03	3.1E+03
Bromoxynil					4.1E+07	5.6E+03	1.6E+03	1.2E+03					1.3E+08	3.1E+04	2.0E+04	1.2E+04
Bromoxynil octanoate					4.1E+07	5.6E+03	1.6E+03	1.2E+03					1.3E+08	3.1E+04	2.0E+04	1.2E+04
1,3-Butadiene																
"CAL-Modified PRG"	1.1E-02		1.9E-01	1.0E-02	8.6E+00		4.5E+02	8.4E+00	2.3E-02		8.4E-01	2.2E-02	2.8E+01		5.8E+03	2.8E+01
1-Butanol					5.4E+06	2.8E+04	7.8E+03	6.1E+03					1.7E+07	1.5E+05	1.0E+05	6.1E+04
Butylate					1.0E+08	1.4E+04	3.9E+03	3.1E+03					3.4E+08	7.7E+04	5.1E+04	3.1E+04
n-Butylbenzene					7.1E+02		3.1E+03	5.8E+02					2.3E+03		4.1E+04	2.2E+03
sec-Butylbenzene					5.2E+02		3.1E+03	4.5E+02					1.7E+03		4.1E+04	1.6E+03
tert-Butylbenzene					6.3E+02		3.1E+03	5.3E+02					2.1E+03		4.1E+04	2.0E+03
Butyl benzyl phthalate					4.1E+08	5.6E+04	1.6E+04	1.2E+04					1.3E+09	3.1E+05	2.0E+05	1.2E+05
Butylphthalyl butylglycolate					2.1E+09	2.8E+05	7.8E+04	6.1E+04					6.7E+09	1.5E+06	1.0E+06	6.2E+05
Cadmium and compounds	5.8E+02			5.8E+02	1.2E+04	1.4E+04	3.9E+01	3.9E+01	1.3E+03			1.3E+03	3.8E+04	7.7E+04	5.1E+02	5.0E+02
Caprolactam					1.0E+09	1.4E+05	3.9E+04	3.1E+04					3.4E+09	7.7E+05	5.1E+05	3.1E+05
Captafol	5.8E+04	1.3E+01	4.3E+00	3.2E+00	4.1E+06	5.6E+02	1.6E+02	1.2E+02	1.3E+05	2.9E+01	1.9E+01	1.1E+01	1.3E+07	3.1E+03	2.0E+03	1.2E+03
Captan	3.8E+06	8.8E+02	2.8E+02	2.1E+02	2.7E+08	3.6E+04	1.0E+04	7.9E+03	8.2E+06	1.9E+03	1.2E+03	7.5E+02	8.7E+08	2.0E+05	1.3E+05	8.0E+04

Table H-3
PRG Intercalculation Tables for Soil with Updated OEHHA Toxicity Values

CONTAMINANT	RESIDENTIAL SOIL								INDUSTRIAL SOIL							
	Cancer Risk = 1E-06				Chronic HQ = 1				Cancer Risk = 1E-06				Chronic HQ = 1			
	soil-inhale (mg/kg)	soil-dermal (mg/kg)	soil-ingest (mg/kg)	combined (mg/kg)	soil-inhale (mg/kg)	soil-dermal (mg/kg)	soil-ingest (mg/kg)	combined (mg/kg)	soil-inhale (mg/kg)	soil-dermal (mg/kg)	soil-ingest (mg/kg)	combined (mg/kg)	soil-inhale (mg/kg)	soil-dermal (mg/kg)	soil-ingest (mg/kg)	combined (mg/kg)
Carbaryl					2.3E+08	2.8E+04	7.8E+03	6.1E+03					7.4E+08	1.5E+05	1.0E+05	6.2E+04
Carbazole	4.4E+05	1.0E+02	3.2E+01	2.4E+01					9.4E+05	2.2E+02	1.4E+02	8.6E+01				
Carbofuran					1.0E+07	1.4E+03	3.9E+02	3.1E+02					3.4E+07	7.7E+03	5.1E+03	3.1E+03
Carbon disulfide					4.3E+02		7.8E+03	4.0E+02					1.4E+03		1.0E+05	1.4E+03
Carbon tetrachloride	9.1E-02		4.3E+00	9.0E-02	3.7E+01		5.5E+01	2.2E+01	2.0E-01		1.9E+01	2.0E-01	1.2E+02		7.2E+02	1.0E+02
Carbosulfan					2.1E+07	2.8E+03	7.8E+02	6.1E+02					6.7E+07	1.5E+04	1.0E+04	6.2E+03
Carboxin					2.1E+08	2.8E+04	7.8E+03	6.1E+03					6.7E+08	1.5E+05	1.0E+05	6.2E+04
Chloramben					3.1E+07	4.2E+03	1.2E+03	9.2E+02					1.0E+08	2.3E+04	1.5E+04	9.2E+03
Chloranil	2.2E+04	5.0E+00	1.6E+00	1.2E+00					4.7E+04	1.1E+01	7.1E+00	4.3E+00				
Chlordane	7.3E+03		4.9E-01	4.9E-01					1.6E+04		2.2E+00	2.2E+00				
Chlorimuron-ethyl					4.1E+07	5.6E+03	1.6E+03	1.2E+03					1.3E+08	3.1E+04	2.0E+04	1.2E+04
Chlorine					1.2E+05		7.8E+03	7.3E+03					3.8E+05		1.0E+05	8.1E+04
Chlorine dioxide					3.5E+05		2.3E+03	2.3E+03					1.2E+06		3.1E+04	3.0E+04
Chloroacetic acid					4.1E+06	5.6E+02	1.6E+02	1.2E+02					1.3E+07	3.1E+03	2.0E+03	1.2E+03
2-Chloroacetophenone					3.4E-02		6.7E-01	3.3E-02					1.1E-01		8.8E+00	1.1E-01
4-Chloroaniline					8.2E+06	1.1E+03	3.1E+02	2.4E+02					2.7E+07	6.2E+03	4.1E+03	2.5E+03
Chlorobenzene					2.8E+03		1.6E+03	1.0E+03					9.2E+03		2.0E+04	6.3E+03
Chlorobenzilate	7.9E+04	1.8E+01	5.8E+00	4.4E+00	4.1E+07	5.6E+03	1.6E+03	1.2E+03	1.7E+05	3.9E+01	2.6E+01	1.6E+01	1.3E+08	3.1E+04	2.0E+04	1.2E+04
p-Chlorobenzoic acid					4.1E+08	5.6E+04	1.6E+04	1.2E+04					1.3E+09	3.1E+05	2.0E+05	1.2E+05
4-Chlorobenzotrifluoride					4.1E+07	5.6E+03	1.6E+03	1.2E+03					1.3E+08	3.1E+04	2.0E+04	1.2E+04
2-Chloro-1,3-butadiene					3.6E+00		1.6E+03	3.6E+00					1.2E+01		2.0E+04	1.2E+01
1-Chlorobutane					7.3E+02		3.1E+04	7.1E+02					2.4E+03		4.1E+05	2.4E+03
1-Chloro-1,1-difluoroethane					2.4E+04		1.1E+06	2.3E+04					7.7E+04		1.5E+07	7.7E+04
Chlorodifluoromethane					2.3E+04		1.1E+06	2.3E+04					7.6E+04		1.4E+07	7.5E+04
Chloroethane	3.0E+00		2.2E+02	3.0E+00	1.8E+04		3.1E+04	1.1E+04	6.5E+00		9.9E+02	6.5E+00	5.8E+04		4.1E+05	5.1E+04
Chloroform																
"CAL-Modified PRG"	9.3E-01		2.1E+01	8.9E-01	3.6E+02		7.8E+02	2.4E+02	2.0E+00		9.2E+01	2.0E+00	1.2E+03		1.0E+04	1.0E+03
Chloromethane					4.8E+01		2.0E+03	4.7E+01					1.6E+02		2.7E+04	1.6E+02
4-Chloro-2-methylaniline	3.2E+04	7.5E+00	2.4E+00	1.8E+00					7.0E+04	1.6E+01	1.1E+01	6.4E+00				
4-Chloro-2-methylaniline hydrochloride	1.9E+04	4.4E+00	1.4E+00	1.1E+00					4.1E+04	9.4E+00	6.2E+00	3.7E+00				
beta-Chloronaphthalene					1.0E+04		6.3E+03	3.9E+03					3.3E+04		8.2E+04	2.3E+04
o-Chloronitrobenzene	3.0E+01		6.6E+01	2.1E+01	1.4E+00		7.8E+01	1.4E+00	6.5E+01		3.0E+02	5.3E+01	4.5E+00		1.0E+03	4.5E+00
p-Chloronitrobenzene	4.4E+01		9.6E+01	3.0E+01	1.2E+01		7.8E+01	1.0E+01	9.4E+01		4.3E+02	7.7E+01	3.8E+01		1.0E+03	3.7E+01
2-Chlorophenol					7.6E+01		3.9E+02	6.3E+01					2.5E+02		5.1E+03	2.4E+02
2-Chloropropane					1.8E+02		2.3E+03	1.7E+02					6.0E+02		3.0E+04	5.9E+02
Chlorothalonil	2.8E+06	6.5E+02	2.1E+02	1.6E+02	3.1E+07	4.2E+03	1.2E+03	9.2E+02	6.1E+06	1.4E+03	9.2E+02	5.6E+02	1.0E+08	2.3E+04	1.5E+04	9.2E+03
o-Chlorotoluene					1.8E+02		1.6E+03	1.6E+02					5.8E+02		2.0E+04	5.6E+02
Chlorpropham					4.1E+08	5.6E+04	1.6E+04	1.2E+04					1.3E+09	3.1E+05	2.0E+05	1.2E+05
Chlorpyrifos					6.2E+06	8.4E+02	2.3E+02	1.8E+02					2.0E+07	4.6E+03	3.1E+03	1.8E+03
Chlorpyrifos-methyl					2.1E+07	2.8E+03	7.8E+02	6.1E+02					6.7E+07	1.5E+04	1.0E+04	6.2E+03
Chlorsulfuron					1.0E+08	1.4E+04	3.9E+03	3.1E+03					3.4E+08	7.7E+04	5.1E+04	3.1E+04
Chlorthiophos					1.6E+06	2.2E+02	6.3E+01	4.9E+01					5.4E+06	1.2E+03	8.2E+02	4.9E+02

Table H-3
PRG Intercalculation Tables for Soil with Updated OEHHA Toxicity Values

CONTAMINANT	RESIDENTIAL SOIL								INDUSTRIAL SOIL							
	Cancer Risk = 1E-06				Chronic HQ = 1				Cancer Risk = 1E-06				Chronic HQ = 1			
	soil-inhale (mg/kg)	soil-dermal (mg/kg)	soil-ingest (mg/kg)	combined (mg/kg)	soil-inhale (mg/kg)	soil-dermal (mg/kg)	soil-ingest (mg/kg)	combined (mg/kg)	soil-inhale (mg/kg)	soil-dermal (mg/kg)	soil-ingest (mg/kg)	combined (mg/kg)	soil-inhale (mg/kg)	soil-dermal (mg/kg)	soil-ingest (mg/kg)	combined (mg/kg)
Total Chromium (1:6 ratio Cr VI:Cr III)+++	2.1E+02			2.1E+02					4.5E+02			4.5E+02				
Chromium III							1.2E+05	1.2E+05							1.5E+06	1.5E+06
Chromium VI+++	1.7E+01			1.7E+01	1.2E+05		2.3E+02	2.3E+02	3.7E+01			3.7E+01	3.8E+05		3.1E+03	3.0E+03
Cobalt	8.9E+02			8.9E+02	1.2E+04		1.6E+03	1.4E+03	1.9E+03			1.9E+03	3.8E+04		2.0E+04	1.3E+04
Coke Oven Emissions	4.0E+03			4.0E+03					8.7E+03			8.7E+03				
Copper and compounds							3.1E+03	3.1E+03							4.1E+04	4.1E+04
Crotonaldehyde	5.3E-03		3.4E-01	5.2E-03					1.1E-02		1.5E+00	1.1E-02				
Cumene (isopropylbenzene)					6.2E+02		7.8E+03	5.7E+02					2.0E+03		1.0E+05	2.0E+03
Cyanazine	1.0E+04	2.4E+00	7.6E-01	5.8E-01	4.1E+06	5.6E+02	1.6E+02	1.2E+02	2.2E+04	5.2E+00	3.4E+00	2.1E+00	1.3E+07	3.1E+03	2.0E+03	1.2E+03
Cyanide (free)						5.6E+03	1.6E+03	1.2E+03						3.1E+04	2.0E+04	1.2E+04
Cyanide (hydrogen)					3.3E+01		1.6E+03	3.2E+01					1.1E+02		2.0E+04	1.1E+02
Cyanogen					1.3E+02		3.1E+03	1.3E+02					4.3E+02		4.1E+04	4.3E+02
Cyanogen bromide					3.0E+02		7.0E+03	2.9E+02					9.8E+02		9.2E+04	9.7E+02
Cyanogen chloride					1.7E+02		3.9E+03	1.6E+02					5.4E+02		5.1E+04	5.4E+02
Cyclohexane					2.9E+03		1.3E+05	2.8E+03					9.5E+03		1.7E+06	9.4E+03
Cyclohexanone					1.0E+10	1.4E+06	3.9E+05	3.1E+05					3.4E+10	7.7E+06	5.1E+06	3.1E+06
Cyclohexylamine					4.1E+08	5.6E+04	1.6E+04	1.2E+04					1.3E+09	3.1E+05	2.0E+05	1.2E+05
Cyhalothrin/Karate					1.0E+07	1.4E+03	3.9E+02	3.1E+02					3.4E+07	7.7E+03	5.1E+03	3.1E+03
Cypermethrin					2.1E+07	2.8E+03	7.8E+02	6.1E+02					6.7E+07	1.5E+04	1.0E+04	6.2E+03
Cyromazine					1.5E+07	2.1E+03	5.9E+02	4.6E+02					5.0E+07	1.2E+04	7.7E+03	4.6E+03
Dacthal					2.1E+07	2.8E+03	7.8E+02	6.1E+02					6.7E+07	1.5E+04	1.0E+04	6.2E+03
Dalapon					6.2E+07	8.4E+03	2.3E+03	1.8E+03					2.0E+08	4.6E+04	3.1E+04	1.8E+04
Danitol					5.1E+07	7.0E+03	2.0E+03	1.5E+03					1.7E+08	3.9E+04	2.6E+04	1.5E+04
DDD	3.6E+04	2.8E+01	2.7E+00	2.4E+00					7.8E+04	6.0E+01	1.2E+01	1.0E+01				
DDE	2.6E+04	2.0E+01	1.9E+00	1.7E+00					5.5E+04	4.3E+01	8.4E+00	7.0E+00				
DDT	2.6E+04	2.0E+01	1.9E+00	1.7E+00	1.0E+06	4.7E+02	3.9E+01	3.6E+01	5.5E+04	4.3E+01	8.4E+00	7.0E+00	3.4E+06	2.6E+03	5.1E+02	4.3E+02
Decabromodiphenyl ether					2.1E+07	2.8E+03	7.8E+02	6.1E+02					6.7E+07	1.5E+04	1.0E+04	6.2E+03
Demeton					8.2E+04	1.1E+01	3.1E+00	2.4E+00					2.7E+05	6.2E+01	4.1E+01	2.5E+01
Diallate	1.4E+05	3.3E+01	1.0E+01	8.0E+00					3.1E+05	7.1E+01	4.7E+01	2.8E+01				
Diazinon					1.9E+06	2.5E+02	7.0E+01	5.5E+01					6.1E+06	1.4E+03	9.2E+02	5.5E+02
Dibenzofuran					2.0E+03		1.6E+02	1.5E+02					6.6E+03		2.0E+03	1.6E+03
1,4-Dibromobenzene					2.1E+07	2.8E+03	7.8E+02	6.1E+02					6.7E+07	1.5E+04	1.0E+04	6.2E+03
Dibromochloromethane	1.1E+00		6.8E+00	9.8E-01	5.1E+02		1.6E+03	3.8E+02	2.5E+00		3.0E+01	2.3E+00	1.7E+03		2.0E+04	1.5E+03
1,2-Dibromo-3-chloropropane "CAL-Modified PRG"	4.4E-02		9.1E-02	3.0E-02	4.1E+00		4.5E+00	2.1E+00	9.4E-02		4.1E-01	7.6E-02	1.3E+01		5.8E+01	1.1E+01
1,2-Dibromoethane	2.9E-01		1.8E-01	1.1E-01	3.9E+00		7.0E+02	3.9E+00	6.3E-01		7.9E-01	3.5E-01	1.3E+01		9.2E+03	1.3E+01
Dibutyl phthalate					2.1E+08	2.8E+04	7.8E+03	6.1E+03					6.7E+08	1.5E+05	1.0E+05	6.2E+04
Dicamba					6.2E+07	8.4E+03	2.3E+03	1.8E+03					2.0E+08	4.6E+04	3.1E+04	1.8E+04
1,2-Dichlorobenzene					1.3E+03		7.0E+03	1.1E+03					4.3E+03		9.2E+04	4.1E+03
1,3-Dichlorobenzene					6.9E+02		2.3E+03	5.3E+02					2.2E+03		3.1E+04	2.1E+03
1,4-Dichlorobenzene	2.1E+00		1.2E+02	2.1E+00	4.6E+03		2.3E+03	1.6E+03	4.6E+00		5.3E+02	4.6E+00	1.5E+04		3.1E+04	1.0E+04
3,3-Dichlorobenzidine	7.3E+03	1.7E+00	5.3E-01	4.1E-01					1.6E+04	3.6E+00	2.4E+00	1.4E+00				

Table H-3
PRG Intercalculation Tables for Soil with Updated OEHHA Toxicity Values

CONTAMINANT	RESIDENTIAL SOIL								INDUSTRIAL SOIL							
	Cancer Risk = 1E-06				Chronic HQ = 1				Cancer Risk = 1E-06				Chronic HQ = 1			
	soil-inhale (mg/kg)	soil-dermal (mg/kg)	soil-ingest (mg/kg)	combined (mg/kg)	soil-inhale (mg/kg)	soil-dermal (mg/kg)	soil-ingest (mg/kg)	combined (mg/kg)	soil-inhale (mg/kg)	soil-dermal (mg/kg)	soil-ingest (mg/kg)	combined (mg/kg)	soil-inhale (mg/kg)	soil-dermal (mg/kg)	soil-ingest (mg/kg)	combined (mg/kg)
4,4'-Dichlorobenzophenone					6.2E+07	8.4E+03	2.3E+03	1.8E+03					2.0E+08	4.6E+04	3.1E+04	1.8E+04
1,4-Dichloro-2-butene	8.8E-03		6.9E-02	7.8E-03					1.9E-02		3.1E-01	1.8E-02				
Dichlorodifluoromethane					9.4E+01		1.6E+04	9.4E+01					3.1E+02		2.0E+05	3.1E+02
1,1-Dichloroethane																
"CAL-Modified PRG"	2.8E+00		1.1E+02	2.8E+00	5.4E+02		7.8E+03	5.1E+02	6.1E+00		5.0E+02	6.0E+00	1.8E+03		1.0E+05	1.7E+03
1,2-Dichloroethane	3.6E-01		1.4E+01	3.5E-01	7.0E+02		1.6E+03	4.8E+02	7.8E-01		6.1E+01	7.7E-01	2.3E+03		2.0E+04	2.1E+03
1,1-Dichloroethylene					4.5E+01		3.9E+03	4.4E+01					1.5E+02		5.1E+04	1.5E+02
1,2-Dichloroethylene (cis)					4.5E+01		7.8E+02	4.3E+01					1.5E+02		1.0E+04	1.5E+02
1,2-Dichloroethylene (trans)					7.3E+01		1.6E+03	6.9E+01					2.4E+02		2.0E+04	2.3E+02
2,4-Dichlorophenol					6.2E+06	8.4E+02	2.3E+02	1.8E+02					2.0E+07	4.6E+03	3.1E+03	1.8E+03
4-(2,4-Dichlorophenoxy)butyric Acid (2,4-DB)					1.6E+07	2.2E+03	6.3E+02	4.9E+02					5.4E+07	1.2E+04	8.2E+03	4.9E+03
2,4-Dichlorophenoxyacetic Acid (2,4-D)					2.1E+07	5.6E+03	7.8E+02	6.9E+02					6.7E+07	3.1E+04	1.0E+04	7.7E+03
1,2-Dichloropropane	6.6E-01		1.8E+01	6.4E-01	6.4E+00		8.6E+01	6.0E+00	1.4E+00		7.9E+01	1.4E+00	2.1E+01		1.1E+03	2.1E+01
1,3-Dichloropropane					1.1E+02		1.6E+03	1.0E+02					3.7E+02		2.0E+04	3.6E+02
1,3-Dichloropropene	2.2E-01		7.0E+00	2.2E-01	1.6E+01		2.3E+03	1.6E+01	4.8E-01		3.1E+01	4.7E-01	5.4E+01		3.1E+04	5.4E+01
2,3-Dichloropropanol					6.2E+06	8.4E+02	2.3E+02	1.8E+02					2.0E+07	4.6E+03	3.1E+03	1.8E+03
Dichlorvos	3.0E+04	4.9E+00	1.6E+00	1.2E+00	2.9E+05	1.4E+02	3.9E+01	3.1E+01	6.5E+04	1.1E+01	7.0E+00	4.2E+00	9.6E+05	7.7E+02	5.1E+02	3.1E+02
Dicofol	2.0E+04	4.6E+00	1.5E+00	1.1E+00					4.3E+04	9.9E+00	6.5E+00	3.9E+00				
Dicyclopentadiene					5.4E-01		2.3E+03	5.4E-01					1.8E+00		3.1E+04	1.8E+00
Dieldrin	5.5E+02	1.3E-01	4.0E-02	3.0E-02	1.0E+05	1.4E+01	3.9E+00	3.1E+00	1.2E+03	2.7E-01	1.8E-01	1.1E-01	3.4E+05	7.7E+01	5.1E+01	3.1E+01
Diethylene glycol, monobutyl ether					1.2E+07	2.8E+03	7.8E+02	6.1E+02					3.8E+07	1.5E+04	1.0E+04	6.2E+03
Diethylene glycol, monoethyl ether					1.8E+06	1.7E+04	4.7E+03	3.7E+03					5.8E+06	9.3E+04	6.1E+04	3.7E+04
Diethylformamide					8.2E+05	1.1E+02	3.1E+01	2.4E+01					2.7E+06	6.2E+02	4.1E+02	2.5E+02
Di(2-ethylhexyl)adipate	7.3E+06	1.7E+03	5.3E+02	4.1E+02	1.2E+09	1.7E+05	4.7E+04	3.7E+04	1.6E+07	3.6E+03	2.4E+03	1.4E+03	4.0E+09	9.3E+05	6.1E+05	3.7E+05
Diethyl phthalate					1.6E+09	2.2E+05	6.3E+04	4.9E+04					5.4E+09	1.2E+06	8.2E+05	4.9E+05
Diethylstilbestrol	2.5E+01	5.8E-03	1.8E-03	1.4E-03					5.4E+01	1.2E-02	8.2E-03	4.9E-03				
Difenzoquat (Avenge)					1.6E+08	2.2E+04	6.3E+03	4.9E+03					5.4E+08	1.2E+05	8.2E+04	4.9E+04
Diflubenzuron					4.1E+07	5.6E+03	1.6E+03	1.2E+03					1.3E+08	3.1E+04	2.0E+04	1.2E+04
1,1-Difluoroethane					2.3E+10		8.9E+05	8.9E+05					7.7E+10		1.2E+07	1.2E+07
Diisononyl phthalate					4.1E+07	5.6E+03	1.6E+03	1.2E+03					1.3E+08	3.1E+04	2.0E+04	1.2E+04
Diisopropyl ether					2.3E+08			2.3E+08					7.4E+08			7.4E+08
Diisopropyl methylphosphonate					1.6E+08	2.2E+04	6.3E+03	4.9E+03					5.4E+08	1.2E+05	8.2E+04	4.9E+04
Dimethipin					4.1E+07	5.6E+03	1.6E+03	1.2E+03					1.3E+08	3.1E+04	2.0E+04	1.2E+04
Dimethoate					4.1E+05	5.6E+01	1.6E+01	1.2E+01					1.3E+06	3.1E+02	2.0E+02	1.2E+02
3,3'-Dimethoxybenzidine	6.2E+05	1.4E+02	4.6E+01	3.5E+01					1.3E+06	3.1E+02	2.0E+02	1.2E+02				
Dimethylamine					7.9E-02		4.5E-01	6.7E-02					2.6E-01		5.8E+00	2.5E-01
N-N-Dimethylaniline					4.1E+06	5.6E+02	1.6E+02	1.2E+02					1.3E+07	3.1E+03	2.0E+03	1.2E+03
2,4-Dimethylaniline	1.2E+04	2.7E+00	8.5E-01	6.5E-01					2.5E+04	5.8E+00	3.8E+00	2.3E+00				
2,4-Dimethylaniline hydrochloride	1.5E+04	3.5E+00	1.1E+00	8.4E-01					3.2E+04	7.5E+00	4.9E+00	3.0E+00				
3,3'-Dimethylbenzidine	3.8E+03	8.8E-01	2.8E-01	2.1E-01					8.2E+03	1.9E+00	1.2E+00	7.5E-01				
N,N-Dimethylformamide					4.7E+07	2.8E+04	7.8E+03	6.1E+03					1.5E+08	1.5E+05	1.0E+05	6.2E+04
Dimethylphenethylamine					2.1E+06	2.8E+02	7.8E+01	6.1E+01					6.7E+06	1.5E+03	1.0E+03	6.2E+02

Table H-3
PRG Intercalculation Tables for Soil with Updated OEHHA Toxicity Values

CONTAMINANT	RESIDENTIAL SOIL								INDUSTRIAL SOIL							
	Cancer Risk = 1E-06				Chronic HQ = 1				Cancer Risk = 1E-06				Chronic HQ = 1			
	soil-inhale (mg/kg)	soil-dermal (mg/kg)	soil-ingest (mg/kg)	combined (mg/kg)	soil-inhale (mg/kg)	soil-dermal (mg/kg)	soil-ingest (mg/kg)	combined (mg/kg)	soil-inhale (mg/kg)	soil-dermal (mg/kg)	soil-ingest (mg/kg)	combined (mg/kg)	soil-inhale (mg/kg)	soil-dermal (mg/kg)	soil-ingest (mg/kg)	combined (mg/kg)
2,4-Dimethylphenol					4.1E+07	5.6E+03	1.6E+03	1.2E+03					1.3E+08	3.1E+04	2.0E+04	1.2E+04
2,6-Dimethylphenol					1.2E+06	1.7E+02	4.7E+01	3.7E+01					4.0E+06	9.3E+02	6.1E+02	3.7E+02
3,4-Dimethylphenol					2.1E+06	2.8E+02	7.8E+01	6.1E+01					6.7E+06	1.5E+03	1.0E+03	6.2E+02
Dimethyl phthalate					2.1E+10	2.8E+06	7.8E+05	6.1E+05					6.7E+10	1.5E+07	1.0E+07	6.2E+06
Dimethyl terephthalate					2.1E+08	2.8E+04	7.8E+03	6.1E+03					6.7E+08	1.5E+05	1.0E+05	6.2E+04
4,6-Dinitro-o-cresol					2.1E+05	2.8E+01	7.8E+00	6.1E+00					6.7E+05	1.5E+02	1.0E+02	6.2E+01
4,6-Dinitro-o-cyclohexyl phenol					4.1E+06	5.6E+02	1.6E+02	1.2E+02					1.3E+07	3.1E+03	2.0E+03	1.2E+03
1,2-Dinitrobenzene					2.1E+05	2.8E+01	7.8E+00	6.1E+00					6.7E+05	1.5E+02	1.0E+02	6.2E+01
1,3-Dinitrobenzene					2.1E+05	2.8E+01	7.8E+00	6.1E+00					6.7E+05	1.5E+02	1.0E+02	6.2E+01
1,4-Dinitrobenzene					2.1E+05	2.8E+01	7.8E+00	6.1E+00					6.7E+05	1.5E+02	1.0E+02	6.2E+01
2,4-Dinitrophenol					4.1E+06	5.6E+02	1.6E+02	1.2E+02					1.3E+07	3.1E+03	2.0E+03	1.2E+03
Dinitrotoluene mixture	1.3E+04	3.0E+00	9.4E-01	7.2E-01					2.8E+04	6.4E+00	4.2E+00	2.5E+00				
2,4-Dinitrotoluene	2.8E+04	6.5E+00	2.1E+00	1.6E+00	4.1E+06	5.6E+02	1.6E+02	1.2E+02	6.1E+04	1.4E+01	9.2E+00	5.6E+00	1.3E+07	3.1E+03	2.0E+03	1.2E+03
2,6-Dinitrotoluene					2.1E+06	2.8E+02	7.8E+01	6.1E+01					6.7E+06	1.5E+03	1.0E+03	6.2E+02
Dinoseb					2.1E+06	2.8E+02	7.8E+01	6.1E+01					6.7E+06	1.5E+03	1.0E+03	6.2E+02
di-n-Octyl phthalate					8.2E+07	1.1E+04	3.1E+03	2.4E+03					2.7E+08	6.2E+04	4.1E+04	2.5E+04
1,4-Dioxane	3.2E+05	7.5E+01	2.4E+01	1.8E+01	1.8E+09			1.8E+09	7.0E+05	1.6E+02	1.1E+02	6.4E+01	5.8E+09			5.8E+09
Dioxin (2,3,7,8-TCDD)	6.7E-02	5.2E-05	4.9E-06	4.5E-06	2.4E+01			2.4E+01	1.4E-01	1.1E-04	2.2E-05	1.8E-05	7.7E+01			7.7E+01
Diphenamid					6.2E+07	8.4E+03	2.3E+03	1.8E+03					2.0E+08	4.6E+04	3.1E+04	1.8E+04
Diphenylamine					5.1E+07	7.0E+03	2.0E+03	1.5E+03					1.7E+08	3.9E+04	2.6E+04	1.5E+04
N,N-Diphenyl-1,4 benzenediamine (DPPD)					6.2E+05	8.4E+01	2.3E+01	1.8E+01					2.0E+06	4.6E+02	3.1E+02	1.8E+02
1,2-Diphenylhydrazine	1.0E+04	2.3E+00	7.4E-01	5.6E-01					2.2E+04	5.0E+00	3.3E+00	2.0E+00				
Diphenyl sulfone					6.2E+06	8.4E+02	2.3E+02	1.8E+02					2.0E+07	4.6E+03	3.1E+03	1.8E+03
Diquat					4.5E+06	6.1E+02	1.7E+02	1.3E+02					1.5E+07	3.4E+03	2.2E+03	1.4E+03
Direct black 38	1.2E+03	2.7E-01	8.7E-02	6.6E-02					2.5E+03	5.9E-01	3.9E-01	2.3E-01				
Direct blue 6	1.2E+03	2.7E-01	8.7E-02	6.6E-02					2.5E+03	5.9E-01	3.9E-01	2.3E-01				
Direct brown 95	1.3E+03	3.0E-01	9.6E-02	7.3E-02					2.8E+03	6.5E-01	4.3E-01	2.6E-01				
Disulfoton					8.2E+04	1.1E+01	3.1E+00	2.4E+00					2.7E+05	6.2E+01	4.1E+01	2.5E+01
1,4-Dithiane					2.1E+07	2.8E+03	7.8E+02	6.1E+02					6.7E+07	1.5E+04	1.0E+04	6.2E+03
Diuron					4.1E+06	5.6E+02	1.6E+02	1.2E+02					1.3E+07	3.1E+03	2.0E+03	1.2E+03
Dodine					8.2E+06	1.1E+03	3.1E+02	2.4E+02					2.7E+07	6.2E+03	4.1E+03	2.5E+03
Dysprosium							7.8E+03	7.8E+03							1.0E+05	1.0E+05
Endosulfan					1.2E+07	1.7E+03	4.7E+02	3.7E+02					4.0E+07	9.3E+03	6.1E+03	3.7E+03
Endothall					4.1E+07	5.6E+03	1.6E+03	1.2E+03					1.3E+08	3.1E+04	2.0E+04	1.2E+04
Endrin					6.2E+05	8.4E+01	2.3E+01	1.8E+01					2.0E+06	4.6E+02	3.1E+02	1.8E+02
Epichlorohydrin																
"CAL-Modified PRG"	1.5E+00		8.0E+00	1.2E+00	2.4E+01		1.6E+02	2.1E+01	3.2E+00		3.6E+01	2.9E+00	7.8E+01		2.0E+03	7.5E+01
1,2-Epoxybutane					1.2E+07	1.6E+03	4.5E+02	3.5E+02					3.8E+07	8.8E+03	5.8E+03	3.5E+03
EPTC (S-Ethyl dipropylthiocarbamate)					5.1E+07	7.0E+03	2.0E+03	1.5E+03					1.7E+08	3.9E+04	2.6E+04	1.5E+04
Ethephon (2-chloroethyl phosphonic acid)					1.0E+07	1.4E+03	3.9E+02	3.1E+02					3.4E+07	7.7E+03	5.1E+03	3.1E+03
Ethion					1.0E+06	1.4E+02	3.9E+01	3.1E+01					3.4E+06	7.7E+02	5.1E+02	3.1E+02
2-Ethoxyethanol					4.1E+07	1.1E+05	3.1E+04	2.4E+04					1.3E+08	6.2E+05	4.1E+05	2.5E+05
2-Ethoxyethanol acetate					1.8E+08	8.4E+04	2.3E+04	1.8E+04					5.8E+08	4.6E+05	3.1E+05	1.8E+05
Ethyl acetate					2.5E+04		7.0E+04	1.9E+04					8.3E+04		9.2E+05	7.6E+04
Ethyl acrylate	2.1E-01		1.3E+01	2.1E-01					4.6E-01		6.0E+01	4.5E-01				
Ethylbenzene	4.1E+00		5.8E+01	3.8E+00	4.8E+03		7.8E+03	3.0E+03	8.9E+00		2.6E+02	8.6E+00	1.6E+04		1.0E+05	1.4E+04
Ethyl chloride	3.0E+00		2.2E+02	3.0E+00	1.8E+04		3.1E+04	1.1E+04	6.5E+00		9.9E+02	6.5E+00	5.8E+04		4.1E+05	5.1E+04

Table H-3
PRG Intercalculation Tables for Soil with Updated OEHHA Toxicity Values

CONTAMINANT	RESIDENTIAL SOIL								INDUSTRIAL SOIL							
	Cancer Risk = 1E-06				Chronic HQ = 1				Cancer Risk = 1E-06				Chronic HQ = 1			
	soil-inhale (mg/kg)	soil-dermal (mg/kg)	soil-ingest (mg/kg)	combined (mg/kg)	soil-inhale (mg/kg)	soil-dermal (mg/kg)	soil-ingest (mg/kg)	combined (mg/kg)	soil-inhale (mg/kg)	soil-dermal (mg/kg)	soil-ingest (mg/kg)	combined (mg/kg)	soil-inhale (mg/kg)	soil-dermal (mg/kg)	soil-ingest (mg/kg)	combined (mg/kg)
Ethylene cyanohydrin					6.2E+08	8.4E+04	2.3E+04	1.8E+04					2.0E+09	4.6E+05	3.1E+05	1.8E+05
Ethylene diamine					1.9E+08	2.5E+04	7.0E+03	5.5E+03					6.1E+08	1.4E+05	9.2E+04	5.5E+04
Ethylene glycol					2.4E+08	5.6E+05	1.6E+05	1.2E+05					7.7E+08	3.1E+06	2.0E+06	1.2E+06
Ethylene glycol, monobutyl ether					7.6E+09	1.4E+05	3.9E+04	3.1E+04					2.5E+10	7.7E+05	5.1E+05	3.1E+05
Ethylene oxide	2.0E-01		2.1E+00	1.8E-01	1.3E+02			1.3E+02	4.3E-01		9.2E+00	4.1E-01	4.1E+02			4.1E+02
Ethylene thiourea (ETU)	1.9E+05	4.5E+01	1.4E+01	1.1E+01	1.6E+05	2.2E+01	6.3E+00	4.9E+00	4.2E+05	9.6E+01	6.4E+01	3.8E+01	5.4E+05	1.2E+02	8.2E+01	4.9E+01
Ethyl ether					1.2E+04		1.6E+04	6.8E+03					3.9E+04		2.0E+05	3.3E+04
Ethyl methacrylate					2.1E+02		7.0E+03	2.1E+02					7.0E+02		9.2E+04	7.0E+02
Ethyl p-nitrophenyl phenylphosphorothioate					2.1E+04	2.8E+00	7.8E-01	6.1E-01					6.7E+04	1.5E+01	1.0E+01	6.2E+00
Ethylphthalyl ethyl glycolate					6.2E+09	8.4E+05	2.3E+05	1.8E+05					2.0E+10	4.6E+06	3.1E+06	1.8E+06
Express					1.6E+07	2.2E+03	6.3E+02	4.9E+02					5.4E+07	1.2E+04	8.2E+03	4.9E+03
Fenamiphos					5.1E+05	7.0E+01	2.0E+01	1.5E+01					1.7E+06	3.9E+02	2.6E+02	1.5E+02
Fluometuron					2.7E+07	3.6E+03	1.0E+03	7.9E+02					8.7E+07	2.0E+04	1.3E+04	8.0E+03
Fluoride																
Fluoridone					1.6E+08	2.2E+04	6.3E+03	4.9E+03					5.4E+08	1.2E+05	8.2E+04	4.9E+04
Flurprimidol					4.1E+07	5.6E+03	1.6E+03	1.2E+03					1.3E+08	3.1E+04	2.0E+04	1.2E+04
Flutolanil					1.2E+08	1.7E+04	4.7E+03	3.7E+03					4.0E+08	9.3E+04	6.1E+04	3.7E+04
Fluvalinate					2.1E+07	2.8E+03	7.8E+02	6.1E+02					6.7E+07	1.5E+04	1.0E+04	6.2E+03
Folpet	2.5E+06	5.8E+02	1.8E+02	1.4E+02	2.1E+08	2.8E+04	7.8E+03	6.1E+03	5.4E+06	1.2E+03	8.2E+02	4.9E+02	6.7E+08	1.5E+05	1.0E+05	6.2E+04
Fomesafen	4.6E+04	1.1E+01	3.4E+00	2.6E+00					9.9E+04	2.3E+01	1.5E+01	9.1E+00				
Fonofos					4.1E+06	5.6E+02	1.6E+02	1.2E+02					1.3E+07	3.1E+03	2.0E+03	1.2E+03
Formaldehyde	4.2E+05			4.2E+05	1.8E+06	4.2E+04	1.2E+04	9.1E+03	9.0E+05			9.0E+05	5.8E+06	2.3E+05	1.5E+05	9.1E+04
Formic Acid					1.8E+06	5.6E+05	1.6E+05	1.1E+05					5.8E+06	3.1E+06	2.0E+06	1.0E+06
Fosetyl-al					6.2E+09	8.4E+05	2.3E+05	1.8E+05					2.0E+10	4.6E+06	3.1E+06	1.8E+06
Freon 113					2.1E+04		2.3E+06	2.1E+04					6.9E+04		3.1E+07	6.9E+04
Furan					2.6E+00		7.8E+01	2.5E+00					8.6E+00		1.0E+03	8.5E+00
Furazolidone	2.3E+03	5.3E-01	1.7E-01	1.3E-01					5.0E+03	1.1E+00	7.5E-01	4.5E-01				
Furfural					2.9E+07	8.4E+02	2.3E+02	1.8E+02					9.6E+07	4.6E+03	3.1E+03	1.8E+03
Furium	5.8E+03	1.3E+00	4.3E-01	3.2E-01					1.3E+04	2.9E+00	1.9E+00	1.1E+00				
Furmecyclox	2.9E+05	6.7E+01	2.1E+01	1.6E+01					6.3E+05	1.4E+02	9.5E+01	5.7E+01				
Glufosinate-ammonium					8.2E+05	1.1E+02	3.1E+01	2.4E+01					2.7E+06	6.2E+02	4.1E+02	2.5E+02
Glycidaldehyde					5.9E+05	1.1E+02	3.1E+01	2.4E+01					1.9E+06	6.2E+02	4.1E+02	2.5E+02
Glyphosate					2.1E+08	2.8E+04	7.8E+03	6.1E+03					6.7E+08	1.5E+05	1.0E+05	6.2E+04
Haloxyfop-methyl					1.0E+05	1.4E+01	3.9E+00	3.1E+00					3.4E+05	7.7E+01	5.1E+01	3.1E+01
Harmony					2.7E+07	3.6E+03	1.0E+03	7.9E+02					8.7E+07	2.0E+04	1.3E+04	8.0E+03
Heptachlor	2.1E+03	4.9E-01	1.6E-01	1.2E-01	1.0E+06	1.4E+02	3.9E+01	3.1E+01	4.6E+03	1.1E+00	7.0E-01	4.2E-01	3.4E+06	7.7E+02	5.1E+02	3.1E+02
Heptachlor epoxide	1.6E+03	3.7E-01	1.2E-01	8.8E-02	2.7E+04	3.6E+00	1.0E+00	7.9E-01	3.4E+03	7.9E-01	5.2E-01	3.1E-01	8.7E+04	2.0E+01	1.3E+01	8.0E+00
Hexabromobenzene					4.1E+06	5.6E+02	1.6E+02	1.2E+02					1.3E+07	3.1E+03	2.0E+03	1.2E+03
Hexachlorobenzene	4.9E+03	1.1E+00	3.6E-01	2.7E-01	1.6E+06	2.2E+02	6.3E+01	4.9E+01	1.0E+04	2.4E+00	1.6E+00	9.6E-01	5.4E+06	1.2E+03	8.2E+02	4.9E+02
Hexachlorobutadiene	1.1E+05	2.6E+01	8.2E+00	6.2E+00	6.2E+05	8.4E+01	2.3E+01	1.8E+01	2.4E+05	5.6E+01	3.7E+01	2.2E+01	2.0E+06	4.6E+02	3.1E+02	1.8E+02
HCH (alpha)	3.2E+03	1.9E+00	2.4E-01	2.1E-01	1.0E+06	3.5E+02	3.9E+01	3.5E+01	7.0E+03	4.0E+00	1.1E+00	8.4E-01	3.4E+06	1.9E+03	5.1E+02	4.0E+02
HCH (beta)	5.8E+03	3.4E+00	4.3E-01	3.8E-01	4.1E+05	1.4E+02	1.6E+01	1.4E+01	1.3E+04	7.2E+00	1.9E+00	1.5E+00	1.3E+06	7.7E+02	2.0E+02	1.6E+02
HCH (gamma) Lindane	7.9E+03	4.6E+00	5.8E-01	5.2E-01	6.2E+05	2.1E+02	2.3E+01	2.1E+01	1.7E+04	9.9E+00	2.6E+00	2.1E+00	2.0E+06	1.2E+03	3.1E+02	2.4E+02

Table H-3
PRG Intercalculation Tables for Soil with Updated OEHHA Toxicity Values

CONTAMINANT	RESIDENTIAL SOIL								INDUSTRIAL SOIL							
	Cancer Risk = 1E-06				Chronic HQ = 1				Cancer Risk = 1E-06				Chronic HQ = 1			
	soil-inhale (mg/kg)	soil-dermal (mg/kg)	soil-ingest (mg/kg)	combined (mg/kg)	soil-inhale (mg/kg)	soil-dermal (mg/kg)	soil-ingest (mg/kg)	combined (mg/kg)	soil-inhale (mg/kg)	soil-dermal (mg/kg)	soil-ingest (mg/kg)	combined (mg/kg)	soil-inhale (mg/kg)	soil-dermal (mg/kg)	soil-ingest (mg/kg)	combined (mg/kg)
HCH-technical	2.2E+03	1.3E+00	1.6E-01	1.4E-01					4.7E+03	2.7E+00	7.2E-01	5.7E-01				
Hexachlorocyclopentadiene					1.2E+05	1.7E+03	4.7E+02	3.7E+02					3.8E+05	9.3E+03	6.1E+03	3.7E+03
Hexachloroethane	2.2E+05	5.2E+01	1.6E+01	1.2E+01	2.1E+06	2.8E+02	7.8E+01	6.1E+01	4.8E+05	1.1E+02	7.3E+01	4.4E+01	6.7E+06	1.5E+03	1.0E+03	6.2E+02
Hexachlorophene					6.2E+05	8.4E+01	2.3E+01	1.8E+01					2.0E+06	4.6E+02	3.1E+02	1.8E+02
Hexahydro-1,3,5-trinitro-1,3,5-triazine	7.9E+04	1.8E+01	5.8E+00	4.4E+00	6.2E+06	8.4E+02	2.3E+02	1.8E+02	1.7E+05	3.9E+01	2.6E+01	1.6E+01	2.0E+07	4.6E+03	3.1E+03	1.8E+03
1,6-Hexamethylene diisocyanate					5.9E+03	8.0E-01	2.2E-01	1.7E-01					1.9E+04	4.4E+00	2.9E+00	1.8E+00
n-Hexane					4.3E+03		8.6E+05	4.3E+03					1.4E+04		1.1E+07	1.4E+04
Hexazinone					6.8E+07	9.2E+03	2.6E+03	2.0E+03					2.2E+08	5.1E+04	3.4E+04	2.0E+04
HMX (Octahydro-1357-tetranitro-1357- tetrazocine)					1.0E+08	1.4E+04	3.9E+03	3.1E+03					3.4E+08	7.7E+04	5.1E+04	3.1E+04
Hydrazine, hydrazine sulfate	5.1E+02	6.7E-01	2.1E-01	1.6E-01	1.2E+05			1.2E+05	1.1E+03	1.4E+00	9.5E-01	5.7E-01	3.8E+05			3.8E+05
Hydrazine, monomethyl	5.1E+02	6.7E-01	2.1E-01	1.6E-01					1.1E+03	1.4E+00	9.5E-01	5.7E-01				
Hydrazine, dimethyl	5.1E+02	6.7E-01	2.1E-01	1.6E-01					1.1E+03	1.4E+00	9.5E-01	5.7E-01				
Hydrogen chloride					5.3E+06			5.3E+06					1.7E+07			1.7E+07
Hydrogen cyanide					3.3E+01		1.6E+03	3.2E+01					1.1E+02		2.0E+04	1.1E+02
Hydrogen sulfide					5.9E+06		2.3E+02	2.3E+02					1.9E+07		3.1E+03	3.1E+03
p-Hydroquinone	1.6E+05	3.6E+01	1.1E+01	8.7E+00	8.2E+07	1.1E+04	3.1E+03	2.4E+03	3.4E+05	7.7E+01	5.1E+01	3.1E+01	2.7E+08	6.2E+04	4.1E+04	2.5E+04
Imazalil					2.7E+07	3.6E+03	1.0E+03	7.9E+02					8.7E+07	2.0E+04	1.3E+04	8.0E+03
Imazaquin					5.1E+08	7.0E+04	2.0E+04	1.5E+04					1.7E+09	3.9E+05	2.6E+05	1.5E+05
Iprodione					8.2E+07	1.1E+04	3.1E+03	2.4E+03					2.7E+08	6.2E+04	4.1E+04	2.5E+04
Iron							2.3E+04	2.3E+04							3.1E+05	3.1E+05
Isobutanol					2.7E+04		2.3E+04	1.3E+04					8.8E+04		3.1E+05	6.8E+04
Isophorone	9.2E+06	2.1E+03	6.7E+02	5.1E+02	1.2E+09	5.6E+04	1.6E+04	1.2E+04	2.0E+07	4.6E+03	3.0E+03	1.8E+03	3.8E+09	3.1E+05	2.0E+05	1.2E+05
Isopropalin					3.1E+07	4.2E+03	1.2E+03	9.2E+02					1.0E+08	2.3E+04	1.5E+04	9.2E+03
Isopropyl methyl phosphonic acid					2.3E+08	2.8E+04	7.8E+03	6.1E+03					7.4E+08	1.5E+05	1.0E+05	6.2E+04
Isoxaben					1.0E+08	1.4E+04	3.9E+03	3.1E+03					3.4E+08	7.7E+04	5.1E+04	3.1E+04
Kepone (chlordecone)	5.5E+02	1.3E-01	4.0E-02	3.0E-02	4.1E+05	5.6E+01	1.6E+01	1.2E+01	1.2E+03	2.7E-01	1.8E-01	1.1E-01	1.3E+06	3.1E+02	2.0E+02	1.2E+02
Lactofen					4.1E+06	5.6E+02	1.6E+02	1.2E+02					1.3E+07	3.1E+03	2.0E+03	1.2E+03
Lead+++ "CAL-Modified PRG"+++ Lead (tetraethyl)						2.8E-02	7.8E-03	6.1E-03						1.5E-01	1.0E-01	6.2E-02
Linuron					4.1E+06	5.6E+02	1.6E+02	1.2E+02					1.3E+07	3.1E+03	2.0E+03	1.2E+03
Lithium							1.6E+03	1.6E+03							2.0E+04	2.0E+04
Londax					4.1E+08	5.6E+04	1.6E+04	1.2E+04					1.3E+09	3.1E+05	2.0E+05	1.2E+05
Malathion					4.1E+07	5.6E+03	1.6E+03	1.2E+03					1.3E+08	3.1E+04	2.0E+04	1.2E+04
Maleic anhydride					4.1E+05	2.8E+04	7.8E+03	6.0E+03					1.3E+06	1.5E+05	1.0E+05	5.9E+04
Maleic hydrazide					1.7E+03		3.9E+04	1.7E+03					5.7E+03		5.1E+05	5.6E+03
Malononitrile					2.1E+05	2.8E+01	7.8E+00	6.1E+00					6.7E+05	1.5E+02	1.0E+02	6.2E+01
Mancozeb					6.2E+07	8.4E+03	2.3E+03	1.8E+03					2.0E+08	4.6E+04	3.1E+04	1.8E+04
Maneb	1.5E+05	3.4E+01	1.1E+01	8.1E+00	1.0E+07	1.4E+03	3.9E+02	3.1E+02	3.1E+05	7.2E+01	4.8E+01	2.9E+01	3.4E+07	7.7E+03	5.1E+03	3.1E+03
Manganese (non-food)+++					1.2E+05		1.9E+03	1.8E+03					3.8E+05		2.5E+04	2.3E+04
Mephosfolan					1.9E+05	2.5E+01	7.0E+00	5.5E+00					6.1E+05	1.4E+02	9.2E+01	5.5E+01
Mepiquat chloride					6.2E+07	8.4E+03	2.3E+03	1.8E+03					2.0E+08	4.6E+04	3.1E+04	1.8E+04

Table H-3
PRG Intercalculation Tables for Soil with Updated OEHHA Toxicity Values

CONTAMINANT	RESIDENTIAL SOIL								INDUSTRIAL SOIL							
	Cancer Risk = 1E-06				Chronic HQ = 1				Cancer Risk = 1E-06				Chronic HQ = 1			
	soil-inhale (mg/kg)	soil-dermal (mg/kg)	soil-ingest (mg/kg)	combined (mg/kg)	soil-inhale (mg/kg)	soil-dermal (mg/kg)	soil-ingest (mg/kg)	combined (mg/kg)	soil-inhale (mg/kg)	soil-dermal (mg/kg)	soil-ingest (mg/kg)	combined (mg/kg)	soil-inhale (mg/kg)	soil-dermal (mg/kg)	soil-ingest (mg/kg)	combined (mg/kg)
2-Mercaptobenzothiazole	3.0E+05	7.0E+01	2.2E+01	1.7E+01	2.1E+08	2.8E+04	7.8E+03	6.1E+03	6.5E+05	1.5E+02	9.9E+01	5.9E+01	6.7E+08	1.5E+05	1.0E+05	6.2E+04
Mercury and compounds					5.3E+04		2.3E+01	2.3E+01					1.7E+05		3.1E+02	3.1E+02
Mercury (elemental)					1.8E+05			1.8E+05					5.8E+05			5.8E+05
Mercury (methyl)						2.8E+01	7.8E+00	6.1E+00						1.5E+02	1.0E+02	6.2E+01
Merphos					6.2E+04	8.4E+00	2.3E+00	1.8E+00					2.0E+05	4.6E+01	3.1E+01	1.8E+01
Merphos oxide					6.2E+04	8.4E+00	2.3E+00	1.8E+00					2.0E+05	4.6E+01	3.1E+01	1.8E+01
Metalaxyl					1.2E+08	1.7E+04	4.7E+03	3.7E+03					4.0E+08	9.3E+04	6.1E+04	3.7E+04
Methacrylonitrile					2.8E+00		7.8E+00	2.1E+00					9.1E+00		1.0E+02	8.4E+00
Methamidophos					1.0E+05	1.4E+01	3.9E+00	3.1E+00					3.4E+05	7.7E+01	5.1E+01	3.1E+01
Methanol					2.4E+09	1.4E+05	3.9E+04	3.1E+04					7.7E+09	7.7E+05	5.1E+05	3.1E+05
Methidathion					2.1E+06	2.8E+02	7.8E+01	6.1E+01					6.7E+06	1.5E+03	1.0E+03	6.2E+02
Methomyl					4.5E+01		2.0E+03	4.4E+01					1.5E+02		2.6E+04	1.5E+02
Methoxychlor					1.0E+07	1.4E+03	3.9E+02	3.1E+02					3.4E+07	7.7E+03	5.1E+03	3.1E+03
2-Methoxyethanol					3.5E+07	2.8E+02	7.8E+01	6.1E+01					1.2E+08	1.5E+03	1.0E+03	6.2E+02
2-Methoxyethanol acetate					5.3E+07	5.6E+02	1.6E+02	1.2E+02					1.7E+08	3.1E+03	2.0E+03	1.2E+03
2-Methoxy-5-nitroaniline	1.8E+05	4.1E+01	1.3E+01	9.9E+00					3.8E+05	8.8E+01	5.8E+01	3.5E+01				
Methyl acetate					3.1E+04		7.8E+04	2.2E+04					1.0E+05		1.0E+06	9.2E+04
Methyl acrylate					7.2E+01		2.3E+03	7.0E+01					2.3E+02		3.1E+04	2.3E+02
2-Methylaniline (o-toluidine)	4.9E+04	1.1E+01	3.6E+00	2.7E+00					1.0E+05	2.4E+01	1.6E+01	9.6E+00				
2-Methylaniline hydrochloride	6.7E+04	1.6E+01	4.9E+00	3.7E+00					1.4E+05	3.3E+01	2.2E+01	1.3E+01				
2-Methyl-4-chlorophenoxyacetic acid					1.0E+06	1.4E+02	3.9E+01	3.1E+01					3.4E+06	7.7E+02	5.1E+02	3.1E+02
4-(2-Methyl-4-chlorophenoxy) butyric acid					2.1E+07	2.8E+03	7.8E+02	6.1E+02					6.7E+07	1.5E+04	1.0E+04	6.2E+03
2-(2-Methyl-4-chlorophenoxy) propionic acid					2.1E+06	2.8E+02	7.8E+01	6.1E+01					6.7E+06	1.5E+03	1.0E+03	6.2E+02
2-(2-Methyl-1,4-chlorophenoxy) propionic acid					2.1E+06	2.8E+02	7.8E+01	6.1E+01					6.7E+06	1.5E+03	1.0E+03	6.2E+02
Methylcyclohexane					2.7E+03		6.7E+04	2.6E+03					8.8E+03		8.8E+05	8.7E+03
4,4'-Methylenebisbenzeneamine	5.5E+03	1.3E+00	4.0E-01	3.0E-01	1.2E+07			1.2E+07	1.2E+04	2.7E+00	1.8E+00	1.1E+00	3.8E+07			3.8E+07
4,4'-Methylene bis(2-chloroaniline)	5.8E+03	1.3E+00	4.3E-01	3.2E-01	1.4E+06	2.0E+02	5.5E+01	4.3E+01	1.3E+04	2.9E+00	1.9E+00	1.1E+00	4.7E+06	1.1E+03	7.2E+02	4.3E+02
4,4'-Methylene bis(N,N'-dimethyl)aniline	1.9E+05	4.4E+01	1.4E+01	1.1E+01					4.1E+05	9.4E+01	6.2E+01	3.7E+01				
Methylene bromide					7.3E+01		7.8E+02	6.7E+01					2.4E+02		1.0E+04	2.3E+02
Methylene chloride	4.7E+00		4.6E+01	4.3E+00	4.5E+02		4.7E+03	4.1E+02	1.0E+01		2.0E+02	9.7E+00	1.5E+03		6.1E+04	1.4E+03
4,4'-Methylene diphenyl diisocyanate					4.1E+05	4.7E+01	1.3E+01	1.0E+01					1.3E+06	2.6E+02	1.7E+02	1.0E+02
2-Methylnapthalene						1.1E+03	3.1E+02	2.4E+02						6.2E+03	4.1E+03	2.5E+03
Methyl ethyl ketone (2-Butanone)					4.3E+04		4.7E+04	2.2E+04					1.4E+05		6.1E+05	1.1E+05
Methyl isobutyl ketone					3.4E+04		6.3E+03	5.3E+03					1.1E+05		8.2E+04	4.7E+04
Methyl mercaptan					1.2E+06	1.6E+02	4.5E+01	3.5E+01					3.8E+06	8.8E+02	5.8E+02	3.5E+02
Methyl methacrylate					2.2E+03		1.1E+05	2.2E+03					7.3E+03		1.4E+06	7.3E+03
2-Methyl-5-nitroaniline	2.6E+05	6.1E+01	1.9E+01	1.5E+01					5.7E+05	1.3E+02	8.7E+01	5.2E+01				
Methyl parathion					5.1E+05	7.0E+01	2.0E+01	1.5E+01					1.7E+06	3.9E+02	2.6E+02	1.5E+02
2-Methylphenol					1.0E+08	1.4E+04	3.9E+03	3.1E+03					3.4E+08	7.7E+04	5.1E+04	3.1E+04
3-Methylphenol					1.0E+08	1.4E+04	3.9E+03	3.1E+03					3.4E+08	7.7E+04	5.1E+04	3.1E+04
4-Methylphenol					1.0E+07	1.4E+03	3.9E+02	3.1E+02					3.4E+07	7.7E+03	5.1E+03	3.1E+03
Methyl phosphonic acid					4.1E+07	5.6E+03	1.6E+03	1.2E+03					1.3E+08	3.1E+04	2.0E+04	1.2E+04
Methyl styrene (mixture)					1.8E+02		4.7E+02	1.3E+02					5.9E+02		6.1E+03	5.4E+02
Methyl styrene (alpha)					1.1E+03		5.5E+03	9.2E+02					3.6E+03		7.2E+04	3.4E+03
Methyl tertbutyl ether (MTBE)	3.4E+01		3.6E+02	3.1E+01	1.7E+04		6.7E+04	1.3E+04	7.4E+01		1.6E+03	7.0E+01	5.5E+04		8.8E+05	5.2E+04
Metolaclor (Dual)					3.1E+08	4.2E+04	1.2E+04	9.2E+03					1.0E+09	2.3E+05	1.5E+05	9.2E+04
Metribuzin					5.1E+07	7.0E+03	2.0E+03	1.5E+03					1.7E+08	3.9E+04	2.6E+04	1.5E+04

Table H-3
PRG Intercalculation Tables for Soil with Updated OEHHA Toxicity Values

CONTAMINANT	RESIDENTIAL SOIL								INDUSTRIAL SOIL							
	Cancer Risk = 1E-06				Chronic HQ = 1				Cancer Risk = 1E-06				Chronic HQ = 1			
	soil-inhale (mg/kg)	soil-dermal (mg/kg)	soil-ingest (mg/kg)	combined (mg/kg)	soil-inhale (mg/kg)	soil-dermal (mg/kg)	soil-ingest (mg/kg)	combined (mg/kg)	soil-inhale (mg/kg)	soil-dermal (mg/kg)	soil-ingest (mg/kg)	combined (mg/kg)	soil-inhale (mg/kg)	soil-dermal (mg/kg)	soil-ingest (mg/kg)	combined (mg/kg)
Mirex	4.9E+02	1.1E-01	3.6E-02	2.7E-02	4.1E+05	5.6E+01	1.6E+01	1.2E+01	1.0E+03	2.4E-01	1.6E-01	9.6E-02	1.3E+06	3.1E+02	2.0E+02	1.2E+02
Molinate					4.1E+06	5.6E+02	1.6E+02	1.2E+02					1.3E+07	3.1E+03	2.0E+03	1.2E+03
Molybdenum							3.9E+02	3.9E+02							5.1E+03	5.1E+03
Monochloramine					2.1E+08	2.8E+04	7.8E+03	6.1E+03					6.7E+08	1.5E+05	1.0E+05	6.2E+04
Naled					4.1E+06	5.6E+02	1.6E+02	1.2E+02					1.3E+07	3.1E+03	2.0E+03	1.2E+03
Napropamide					2.1E+08	2.8E+04	7.8E+03	6.1E+03					6.7E+08	1.5E+05	1.0E+05	6.2E+04
Nickel (soluble salts)	9.6E+03			9.6E+03	2.9E+04		1.6E+03	1.5E+03	2.1E+04			2.1E+04	9.6E+04		2.0E+04	1.7E+04
Nickel refinery dust																
Nickel subsulfide	5.1E+03		3.8E-01	3.8E-01					1.1E+04		1.7E+00	1.7E+00				
Nitrate+++			#VALUE!	#VALUE!							#VALUE!	#VALUE!				
Nitrite+++			#VALUE!	#VALUE!							#VALUE!	#VALUE!				
2-Nitroaniline					6.2E+04	8.4E+02	2.3E+02	1.8E+02					2.0E+05	4.6E+03	3.1E+03	1.8E+03
3-Nitroaniline	4.2E+05	9.6E+01	3.0E+01	2.3E+01	6.2E+05	8.4E+01	2.3E+01	1.8E+01	9.0E+05	2.1E+02	1.4E+02	8.2E+01	2.0E+06	4.6E+02	3.1E+02	1.8E+02
4-Nitroaniline	4.2E+05	9.6E+01	3.0E+01	2.3E+01	2.1E+06	8.4E+02	2.3E+02	1.8E+02	9.0E+05	2.1E+02	1.4E+02	8.2E+01	6.7E+06	4.6E+03	3.1E+03	1.8E+03
Nitrobenzene					3.9E+01		3.9E+01	2.0E+01					1.3E+02		5.1E+02	1.0E+02
Nitrofurantoin					1.4E+08	2.0E+04	5.5E+03	4.3E+03					4.7E+08	1.1E+05	7.2E+04	4.3E+04
Nitrofurazone	6.7E+03	1.6E+00	4.9E-01	3.7E-01					1.4E+04	3.3E+00	2.2E+00	1.3E+00				
Nitroglycerin	6.2E+05	1.4E+02	4.6E+01	3.5E+01					1.3E+06	3.1E+02	2.0E+02	1.2E+02				
Nitroguanidine					2.1E+08	2.8E+04	7.8E+03	6.1E+03					6.7E+08	1.5E+05	1.0E+05	6.2E+04
2-Nitropropane	9.3E+02		6.8E-02	6.8E-02	1.2E+07		4.5E+02	4.5E+02	2.0E+03		3.0E-01	3.0E-01	3.8E+07		5.8E+03	5.8E+03
N-Nitrosodi-n-butylamine	1.5E-02		5.8E-02	1.2E-02					3.3E-02		2.6E-01	2.9E-02				
N-Nitrosodiethanolamine	3.1E+03	7.2E-01	2.3E-01	1.7E-01					6.7E+03	1.5E+00	1.0E+00	6.2E-01				
N-Nitrosodiethylamine	2.4E+02	5.6E-02	1.8E-02	1.4E-02					5.2E+02	1.2E-01	7.9E-02	4.8E-02				
N-Nitrosodimethylamine	5.5E+02	1.3E-01	4.0E-02	3.0E-02	1.6E+04	2.2E+00	6.3E-01	4.9E-01	1.2E+03	2.7E-01	1.8E-01	1.1E-01	5.4E+04	1.2E+01	8.2E+00	4.9E+00
N-Nitrosodiphenylamine	9.7E+05	2.2E+02	7.1E+01	5.4E+01	4.1E+07	5.6E+03	1.6E+03	1.2E+03	2.1E+06	4.8E+02	3.2E+02	1.9E+02	1.3E+08	3.1E+04	2.0E+04	1.2E+04
N-Nitroso di-n-propylamine	1.2E+03	2.9E-01	9.1E-02	6.9E-02					2.7E+03	6.2E-01	4.1E-01	2.5E-01				
N-Nitroso-N-methylethylamine	4.0E+02	9.2E-02	2.9E-02	2.2E-02					8.6E+02	2.0E-01	1.3E-01	7.8E-02				
N-Nitrosopyrrolidine	4.2E+03	9.6E-01	3.0E-01	2.3E-01					9.0E+03	2.1E+00	1.4E+00	8.2E-01				
m-Nitrotoluene					1.4E+03		1.6E+03	7.3E+02					4.5E+03		2.0E+04	3.7E+03
o-Nitrotoluene	1.3E+00		2.8E+00	8.7E-01	6.9E+02		7.8E+02	3.7E+02	2.7E+00		1.2E+01	2.2E+00	2.3E+03		1.0E+04	1.8E+03
p-Nitrotoluene	1.7E+01		3.8E+01	1.2E+01	6.9E+02		7.8E+02	3.7E+02	3.7E+01		1.7E+02	3.0E+01	2.3E+03		1.0E+04	1.8E+03
Norflurazon					8.2E+07	1.1E+04	3.1E+03	2.4E+03					2.7E+08	6.2E+04	4.1E+04	2.5E+04
NuStar					1.4E+06	2.0E+02	5.5E+01	4.3E+01					4.7E+06	1.1E+03	7.2E+02	4.3E+02
Octabromodiphenyl ether					6.2E+06	8.4E+02	2.3E+02	1.8E+02					2.0E+07	4.6E+03	3.1E+03	1.8E+03
Octamethylpyrophosphoramide					4.1E+06	5.6E+02	1.6E+02	1.2E+02					1.3E+07	3.1E+03	2.0E+03	1.2E+03
Oryzalin					1.0E+08	1.4E+04	3.9E+03	3.1E+03					3.4E+08	7.7E+04	5.1E+04	3.1E+04
Oxadiazon					1.0E+07	1.4E+03	3.9E+02	3.1E+02					3.4E+07	7.7E+03	5.1E+03	3.1E+03
Oxamyl					5.1E+07	7.0E+03	2.0E+03	1.5E+03					1.7E+08	3.9E+04	2.6E+04	1.5E+04
Oxyfluorfen					6.2E+06	8.4E+02	2.3E+02	1.8E+02					2.0E+07	4.6E+03	3.1E+03	1.8E+03
Paclobutrazol					2.7E+07	3.6E+03	1.0E+03	7.9E+02					8.7E+07	2.0E+04	1.3E+04	8.0E+03
Paraquat					9.3E+06	1.3E+03	3.5E+02	2.7E+02					3.0E+07	7.0E+03	4.6E+03	2.8E+03
Parathion					1.2E+07	1.7E+03	4.7E+02	3.7E+02					4.0E+07	9.3E+03	6.1E+03	3.7E+03
Pebulate					1.0E+08	1.4E+04	3.9E+03	3.1E+03					3.4E+08	7.7E+04	5.1E+04	3.1E+04

Table H-3
PRG Intercalculation Tables for Soil with Updated OEHHA Toxicity Values

CONTAMINANT	RESIDENTIAL SOIL								INDUSTRIAL SOIL							
	Cancer Risk = 1E-06				Chronic HQ = 1				Cancer Risk = 1E-06				Chronic HQ = 1			
	soil-inhale (mg/kg)	soil-dermal (mg/kg)	soil-ingest (mg/kg)	combined (mg/kg)	soil-inhale (mg/kg)	soil-dermal (mg/kg)	soil-ingest (mg/kg)	combined (mg/kg)	soil-inhale (mg/kg)	soil-dermal (mg/kg)	soil-ingest (mg/kg)	combined (mg/kg)	soil-inhale (mg/kg)	soil-dermal (mg/kg)	soil-ingest (mg/kg)	combined (mg/kg)
Pendimethalin					8.2E+07	1.1E+04	3.1E+03	2.4E+03					2.7E+08	6.2E+04	4.1E+04	2.5E+04
Pentabromo-6-chloro cyclohexane	3.8E+05	8.8E+01	2.8E+01	2.1E+01					8.2E+05	1.9E+02	1.2E+02	7.5E+01				
Pentabromodiphenyl ether					4.1E+06	5.6E+02	1.6E+02	1.2E+02					1.3E+07	3.1E+03	2.0E+03	1.2E+03
Pentachlorobenzene					1.6E+06	2.2E+02	6.3E+01	4.9E+01					5.4E+06	1.2E+03	8.2E+02	4.9E+02
Pentachloronitrobenzene	3.4E+04	7.8E+00	2.5E+00	1.9E+00	6.2E+06	8.4E+02	2.3E+02	1.8E+02	7.2E+04	1.7E+01	1.1E+01	6.6E+00	2.0E+07	4.6E+03	3.1E+03	1.8E+03
Pentachlorophenol	4.9E+05	1.0E+01	7.9E+00	4.4E+00	6.2E+07	3.4E+03	2.3E+03	1.4E+03	1.0E+06	2.1E+01	3.5E+01	1.3E+01	2.0E+08	1.9E+04	3.1E+04	1.2E+04
Perchlorate							7.8E+00	7.8E+00							1.0E+02	1.0E+02
Permethrin					1.0E+08	1.4E+04	3.9E+03	3.1E+03					3.4E+08	7.7E+04	5.1E+04	3.1E+04
Phenmedipham					5.1E+08	7.0E+04	2.0E+04	1.5E+04					1.7E+09	3.9E+05	2.6E+05	1.5E+05
Phenol					1.2E+08	8.4E+04	2.3E+04	1.8E+04					3.8E+08	4.6E+05	3.1E+05	1.8E+05
Phenothiazine					4.1E+06	5.6E+02	1.6E+02	1.2E+02					1.3E+07	3.1E+03	2.0E+03	1.2E+03
m-Phenylenediamine					1.2E+07	1.7E+03	4.7E+02	3.7E+02					4.0E+07	9.3E+03	6.1E+03	3.7E+03
o-Phenylenediamine	1.9E+05	4.3E+01	1.4E+01	1.0E+01					4.0E+05	9.2E+01	6.1E+01	3.7E+01				
p-Phenylenediamine					3.9E+08	5.3E+04	1.5E+04	1.2E+04					1.3E+09	2.9E+05	1.9E+05	1.2E+05
Phenylmercuric acetate					1.6E+05	2.2E+01	6.3E+00	4.9E+00					5.4E+05	1.2E+02	8.2E+01	4.9E+01
2-Phenylphenol	4.6E+06	1.0E+03	3.3E+02	2.5E+02					9.9E+06	2.2E+03	1.5E+03	8.9E+02				
Phorate					4.1E+05	5.6E+01	1.6E+01	1.2E+01					1.3E+06	3.1E+02	2.0E+02	1.2E+02
Phosmet					4.1E+07	5.6E+03	1.6E+03	1.2E+03					1.3E+08	3.1E+04	2.0E+04	1.2E+04
Phosphine					4.7E+05	8.4E+01	2.3E+01	1.8E+01					1.5E+06	4.6E+02	3.1E+02	1.8E+02
Phosphoric acid					4.1E+06			4.1E+06					1.3E+07			1.3E+07
Phosphorus (white)							1.6E+00	1.6E+00							2.0E+01	2.0E+01
p-Phthalic acid					2.1E+09	2.8E+05	7.8E+04	6.1E+04					6.7E+09	1.5E+06	1.0E+06	6.2E+05
Phthalic anhydride					1.2E+07	5.6E+05	1.6E+05	1.2E+05					3.8E+07	3.1E+06	2.0E+06	1.2E+06
Picloram					1.4E+08	2.0E+04	5.5E+03	4.3E+03					4.7E+08	1.1E+05	7.2E+04	4.3E+04
Pirimiphos-methyl					2.1E+07	2.8E+03	7.8E+02	6.1E+02					6.7E+07	1.5E+04	1.0E+04	6.2E+03
Polybrominated biphenyls																
Polychlorinated biphenyls (PCBs)																
PCBs (unspeciated mixture, low risk, e.g. Aroclor 1016)	1.2E+05	2.1E+01	9.1E+00	6.3E+00	1.4E+05	1.4E+01	5.5E+00	3.9E+00	2.7E+05	4.4E+01	4.1E+01	2.1E+01	4.7E+05	7.7E+01	7.2E+01	3.7E+01
PCBs (unspeciated mixture, high risk, e.g. Aroclor 1254)	4.4E+03	7.2E-01	3.2E-01	2.2E-01	4.1E+04	4.0E+00	1.6E+00	1.1E+00	9.4E+03	1.5E+00	1.4E+00	7.4E-01	1.3E+05	2.2E+01	2.0E+01	1.1E+01
Polychlorinated terphenyls	1.9E+03	4.5E-01	1.4E-01	1.1E-01					4.2E+03	9.6E-01	6.4E-01	3.8E-01				
Polynuclear aromatic hydrocarbons																
Acenaphthene					1.7E+04		4.7E+03	3.7E+03					5.6E+04		6.1E+04	2.9E+04
Anthracene					3.3E+05		2.3E+04	2.2E+04					1.1E+06		3.1E+05	2.4E+05
Benz[a]anthracene	2.2E+04	1.3E+00	5.3E-01	3.8E-01					4.8E+04	2.8E+00	2.4E+00	1.3E+00				
Benzo[b]fluoranthene	2.2E+04	1.3E+00	5.3E-01	3.8E-01					4.8E+04	2.8E+00	2.4E+00	1.3E+00				
Benzo[k]fluoranthene																
"CAL-Modified PRG"	2.2E+04	1.3E+00	5.3E-01	3.8E-01					4.8E+04	2.8E+00	2.4E+00	1.3E+00				
Benzo[a]pyrene	2.2E+03	1.3E-01	5.3E-02	3.8E-02					4.8E+03	2.8E-01	2.4E-01	1.3E-01				
Chrysene																
"CAL-Modified PRG"	4.6E+02	1.3E+01	5.3E+00	3.8E+00					1.0E+03	2.8E+01	2.4E+01	1.3E+01				
Dibenz[ah]anthracene	2.1E+03	3.8E-01	1.6E-01	1.1E-01					4.6E+03	8.1E-01	7.0E-01	3.8E-01				
Fluoranthene					8.2E+07	8.6E+03	3.1E+03	2.3E+03					2.7E+08	4.8E+04	4.1E+04	2.2E+04

Table H-3
PRG Intercalculation Tables for Soil with Updated OEHHA Toxicity Values

CONTAMINANT	RESIDENTIAL SOIL								INDUSTRIAL SOIL							
	Cancer Risk = 1E-06				Chronic HQ = 1				Cancer Risk = 1E-06				Chronic HQ = 1			
	soil-inhale (mg/kg)	soil-dermal (mg/kg)	soil-ingest (mg/kg)	combined (mg/kg)	soil-inhale (mg/kg)	soil-dermal (mg/kg)	soil-ingest (mg/kg)	combined (mg/kg)	soil-inhale (mg/kg)	soil-dermal (mg/kg)	soil-ingest (mg/kg)	combined (mg/kg)	soil-inhale (mg/kg)	soil-dermal (mg/kg)	soil-ingest (mg/kg)	combined (mg/kg)
Fluorene					2.3E+04		3.1E+03	2.7E+03					7.4E+04		4.1E+04	2.6E+04
Indeno[1,2,3-cd]pyrene	2.2E+04	1.3E+00	5.3E-01	3.8E-01					4.8E+04	2.8E+00	2.4E+00	1.3E+00				
Naphthalene																
"CAL-Modified PRG"	2.4E+00		5.3E+00	1.7E+00	1.7E+02		1.6E+03	1.6E+02	5.2E+00		2.4E+01	4.2E+00	5.7E+02		2.0E+04	5.5E+02
Pyrene					1.8E+05		2.3E+03	2.3E+03					5.8E+05		3.1E+04	2.9E+04
Prochloraz	5.8E+04	1.3E+01	4.3E+00	3.2E+00	1.9E+07	2.5E+03	7.0E+02	5.5E+02	1.3E+05	2.9E+01	1.9E+01	1.1E+01	6.1E+07	1.4E+04	9.2E+03	5.5E+03
Profluralin					1.2E+07	1.7E+03	4.7E+02	3.7E+02					4.0E+07	9.3E+03	6.1E+03	3.7E+03
Prometon					3.1E+07	4.2E+03	1.2E+03	9.2E+02					1.0E+08	2.3E+04	1.5E+04	9.2E+03
Prometryn					8.2E+06	1.1E+03	3.1E+02	2.4E+02					2.7E+07	6.2E+03	4.1E+03	2.5E+03
Pronamide					1.5E+08	2.1E+04	5.9E+03	4.6E+03					5.0E+08	1.2E+05	7.7E+04	4.6E+04
Propachlor					2.7E+07	3.6E+03	1.0E+03	7.9E+02					8.7E+07	2.0E+04	1.3E+04	8.0E+03
Propanil					1.0E+07	1.4E+03	3.9E+02	3.1E+02					3.4E+07	7.7E+03	5.1E+03	3.1E+03
Propargite					4.1E+07	5.6E+03	1.6E+03	1.2E+03					1.3E+08	3.1E+04	2.0E+04	1.2E+04
Propargyl alcohol					4.1E+06	5.6E+02	1.6E+02	1.2E+02					1.3E+07	3.1E+03	2.0E+03	1.2E+03
Propazine					4.1E+07	5.6E+03	1.6E+03	1.2E+03					1.3E+08	3.1E+04	2.0E+04	1.2E+04
Propham					4.1E+07	5.6E+03	1.6E+03	1.2E+03					1.3E+08	3.1E+04	2.0E+04	1.2E+04
Propiconazole					2.7E+07	3.6E+03	1.0E+03	7.9E+02					8.7E+07	2.0E+04	1.3E+04	8.0E+03
Isopropylbenzene (see cumene)					6.2E+02		7.8E+03	5.7E+02					2.0E+03		1.0E+05	2.0E+03
n-Propylbenzene					7.1E+02		3.1E+03	5.8E+02					2.3E+03		4.1E+04	2.2E+03
Propylene glycol					1.8E+06	1.4E+05	3.9E+04	3.0E+04					5.8E+06	7.7E+05	5.1E+05	2.9E+05
Propylene glycol, monoethyl ether					1.4E+09	2.0E+05	5.5E+04	4.3E+04					4.7E+09	1.1E+06	7.2E+05	4.3E+05
Propylene glycol, monomethyl ether					4.1E+09	2.0E+05	5.5E+04	4.3E+04					1.3E+10	1.1E+06	7.2E+05	4.3E+05
Propylene oxide	6.8E+00		2.7E+00	1.9E+00	1.8E+02		6.7E+02	1.4E+02	1.5E+01		1.2E+01	6.6E+00	5.9E+02		8.8E+03	5.5E+02
Pursuit					5.1E+08	7.0E+04	2.0E+04	1.5E+04					1.7E+09	3.9E+05	2.6E+05	1.5E+05
Pydrin					5.1E+07	7.0E+03	2.0E+03	1.5E+03					1.7E+08	3.9E+04	2.6E+04	1.5E+04
Pyridine					2.1E+06	2.8E+02	7.8E+01	6.1E+01					6.7E+06	1.5E+03	1.0E+03	6.2E+02
Quinalphos					1.0E+06	1.4E+02	3.9E+01	3.1E+01					3.4E+06	7.7E+02	5.1E+02	3.1E+02
Quinoline	2.9E+03	6.7E-01	2.1E-01	1.6E-01					6.3E+03	1.4E+00	9.5E-01	5.7E-01				
RDX (Cyclonite)	7.9E+04	1.8E+01	5.8E+00	4.4E+00	6.2E+06	8.4E+02	2.3E+02	1.8E+02	1.7E+05	3.9E+01	2.6E+01	1.6E+01	2.0E+07	4.6E+03	3.1E+03	1.8E+03
Resmethrin					6.2E+07	8.4E+03	2.3E+03	1.8E+03					2.0E+08	4.6E+04	3.1E+04	1.8E+04
Ronnel					1.0E+08	1.4E+04	3.9E+03	3.1E+03					3.4E+08	7.7E+04	5.1E+04	3.1E+04
Rotenone					8.2E+06	1.1E+03	3.1E+02	2.4E+02					2.7E+07	6.2E+03	4.1E+03	2.5E+03
Savey					5.1E+07	7.0E+03	2.0E+03	1.5E+03					1.7E+08	3.9E+04	2.6E+04	1.5E+04
Selenious Acid						1.4E+03	3.9E+02	3.1E+02						7.7E+03	5.1E+03	3.1E+03
Selenium					1.2E+07		3.9E+02	3.9E+02					3.8E+07		5.1E+03	5.1E+03
Selenourea						1.4E+03	3.9E+02	3.1E+02						7.7E+03	5.1E+03	3.1E+03
Sethoxydim					1.9E+08	2.5E+04	7.0E+03	5.5E+03					6.1E+08	1.4E+05	9.2E+04	5.5E+04
Silver and compounds							3.9E+02	3.9E+02							5.1E+03	5.1E+03
Simazine	7.3E+04	1.7E+01	5.3E+00	4.1E+00	1.0E+07	1.4E+03	3.9E+02	3.1E+02	1.6E+05	3.6E+01	2.4E+01	1.4E+01	3.4E+07	7.7E+03	5.1E+03	3.1E+03
Sodium azide							3.1E+02	3.1E+02							4.1E+03	4.1E+03
Sodium diethyldithiocarbamate	3.2E+04	7.5E+00	2.4E+00	1.8E+00	6.2E+07	8.4E+03	2.3E+03	1.8E+03	7.0E+04	1.6E+01	1.1E+01	6.4E+00	2.0E+08	4.6E+04	3.1E+04	1.8E+04
Sodium fluoroacetate					4.1E+04	5.6E+00	1.6E+00	1.2E+00					1.3E+05	3.1E+01	2.0E+01	1.2E+01

Table H-3
PRG Intercalculation Tables for Soil with Updated OEHHA Toxicity Values

CONTAMINANT	RESIDENTIAL SOIL								INDUSTRIAL SOIL							
	Cancer Risk = 1E-06				Chronic HQ = 1				Cancer Risk = 1E-06				Chronic HQ = 1			
	soil-inhale (mg/kg)	soil-dermal (mg/kg)	soil-ingest (mg/kg)	combined (mg/kg)	soil-inhale (mg/kg)	soil-dermal (mg/kg)	soil-ingest (mg/kg)	combined (mg/kg)	soil-inhale (mg/kg)	soil-dermal (mg/kg)	soil-ingest (mg/kg)	combined (mg/kg)	soil-inhale (mg/kg)	soil-dermal (mg/kg)	soil-ingest (mg/kg)	combined (mg/kg)
Sodium metavanadate					2.1E+06	2.8E+02	7.8E+01	6.1E+01					6.7E+06	1.5E+03	1.0E+03	6.2E+02
Strontium, stable							4.7E+04	4.7E+04							6.1E+05	6.1E+05
Strychnine					6.2E+05	8.4E+01	2.3E+01	1.8E+01					2.0E+06	4.6E+02	3.1E+02	1.8E+02
Styrene					5.4E+03		1.6E+04	4.0E+03					1.8E+04		2.0E+05	1.6E+04
1,1'-Sulfonylbis (4-chlorobenzene)					1.0E+07		3.9E+02	3.9E+02					3.4E+07		5.1E+03	5.1E+03
Systhane					5.1E+07	7.0E+03	2.0E+03	1.5E+03					1.7E+08	3.9E+04	2.6E+04	1.5E+04
2,3,7,8-TCDD (dioxin)	6.7E-02	5.2E-05	4.9E-06	4.5E-06	2.4E+01			2.4E+01	1.4E-01	1.1E-04	2.2E-05	1.8E-05	7.7E+01			7.7E+01
Tebuthiuron					1.4E+08	2.0E+04	5.5E+03	4.3E+03					4.7E+08	1.1E+05	7.2E+04	4.3E+04
Temephos					4.1E+07	5.6E+03	1.6E+03	1.2E+03					1.3E+08	3.1E+04	2.0E+04	1.2E+04
Terbacil					2.7E+07	3.6E+03	1.0E+03	7.9E+02					8.7E+07	2.0E+04	1.3E+04	8.0E+03
Terbufos					5.1E+04	7.0E+00	2.0E+00	1.5E+00					1.7E+05	3.9E+01	2.6E+01	1.5E+01
Terbutryn					2.1E+06	2.8E+02	7.8E+01	6.1E+01					6.7E+06	1.5E+03	1.0E+03	6.2E+02
1,2,4,5-Tetrachlorobenzene					6.2E+05	8.4E+01	2.3E+01	1.8E+01					2.0E+06	4.6E+02	3.1E+02	1.8E+02
1,1,1,2-Tetrachloroethane	3.6E+00		2.5E+01	3.2E+00	6.6E+02		2.3E+03	5.2E+02	7.8E+00		1.1E+02	7.3E+00	2.2E+03		3.1E+04	2.0E+03
1,1,2,2-Tetrachloroethane	4.7E-01		2.4E+00	3.9E-01	1.3E+03		4.7E+03	1.0E+03	1.0E+00		1.1E+01	9.2E-01	4.3E+03		6.1E+04	4.0E+03
Tetrachloroethylene (PCE)	8.1E-01		1.2E+00	4.8E-01	4.0E+01		7.8E+02	3.8E+01	1.7E+00		5.3E+00	1.3E+00	1.3E+02		1.0E+04	1.3E+02
2,3,4,6-Tetrachlorophenol					6.2E+07	8.4E+03	2.3E+03	1.8E+03					2.0E+08	4.6E+04	3.1E+04	1.8E+04
p,a,a,a-Tetrachlorotoluene	4.4E+02	1.0E-01	3.2E-02	2.4E-02					9.4E+02	2.2E-01	1.4E-01	8.6E-02				
Tetrachlorovinphos	3.6E+05	8.4E+01	2.7E+01	2.0E+01	6.2E+07	8.4E+03	2.3E+03	1.8E+03	7.8E+05	1.8E+02	1.2E+02	7.2E+01	2.0E+08	4.6E+04	3.1E+04	1.8E+04
Tetraethyldithiopyrophosphate					1.0E+06	1.4E+02	3.9E+01	3.1E+01					3.4E+06	7.7E+02	5.1E+02	3.1E+02
Tetrahydrofuran	1.0E+01		8.4E+01	9.3E+00	1.4E+03		1.6E+04	1.3E+03	2.2E+01		3.8E+02	2.1E+01	4.7E+03		2.1E+05	4.6E+03
Thallium and compounds+++							5.2E+00	5.2E+00							6.7E+01	6.7E+01
Thiobencarb					2.1E+07	2.8E+03	7.8E+02	6.1E+02					6.7E+07	1.5E+04	1.0E+04	6.2E+03
Thiocyanate					1.0E+08	1.4E+04	3.9E+03	3.1E+03					3.4E+08	7.7E+04	5.1E+04	3.1E+04
Thiofanox					6.2E+05	8.4E+01	2.3E+01	1.8E+01					2.0E+06	4.6E+02	3.1E+02	1.8E+02
Thiophanate-methyl					1.6E+08	2.2E+04	6.3E+03	4.9E+03					5.4E+08	1.2E+05	8.2E+04	4.9E+04
Thiram					1.0E+07	1.4E+03	3.9E+02	3.1E+02					3.4E+07	7.7E+03	5.1E+03	3.1E+03
Tin and compounds							4.7E+04	4.7E+04							6.1E+05	6.1E+05
Titanium					1.8E+07		3.1E+05	3.1E+05					5.8E+07		4.1E+06	3.8E+06
Toluene					5.3E+02		1.6E+04	5.2E+02					1.7E+03		2.0E+05	1.7E+03
Toluene-2,4-diamine	2.2E+03	5.3E-01	1.7E-01	1.3E-01					4.7E+03	1.1E+00	7.5E-01	4.5E-01				
Toluene-2,5-diamine					1.2E+09	1.7E+05	4.7E+04	3.7E+04					4.0E+09	9.3E+05	6.1E+05	3.7E+05
Toluene-2,6-diamine					4.1E+08	5.6E+04	1.6E+04	1.2E+04					1.3E+09	3.1E+05	2.0E+05	1.2E+05
p-Toluidine	4.6E+04	1.1E+01	3.4E+00	2.6E+00					9.9E+04	2.3E+01	1.5E+01	9.1E+00				
Toxaphene	7.3E+03	1.7E+00	5.3E-01	4.1E-01					1.6E+04	3.6E+00	2.4E+00	1.4E+00				
Tralomethrin					1.5E+07	2.1E+03	5.9E+02	4.6E+02					5.0E+07	1.2E+04	7.7E+03	4.6E+03
Triallate					2.7E+07	3.6E+03	1.0E+03	7.9E+02					8.7E+07	2.0E+04	1.3E+04	8.0E+03
Triasulfuron					2.1E+07	2.8E+03	7.8E+02	6.1E+02					6.7E+07	1.5E+04	1.0E+04	6.2E+03
1,2,4-Tribromobenzene					1.0E+07	1.4E+03	3.9E+02	3.1E+02					3.4E+07	7.7E+03	5.1E+03	3.1E+03
Tributyl phosphate	9.5E+05	2.2E+02	7.0E+01	5.3E+01	4.1E+08	5.6E+04	1.6E+04	1.2E+04	2.0E+06	4.7E+02	3.1E+02	1.9E+02	1.3E+09	3.1E+05	2.0E+05	1.2E+05
Tributyltin oxide (TBTO)						8.4E+01	2.3E+01	1.8E+01						4.6E+02	3.1E+02	1.8E+02
2,4,6-Trichloroaniline	2.6E+05	6.0E+01	1.9E+01	1.4E+01					5.5E+05	1.3E+02	8.4E+01	5.1E+01				

Table H-3
PRG Intercalculation Tables for Soil with Updated OEHHA Toxicity Values

CONTAMINANT	RESIDENTIAL SOIL								INDUSTRIAL SOIL							
	Cancer Risk = 1E-06				Chronic HQ = 1				Cancer Risk = 1E-06				Chronic HQ = 1			
	soil-inhale (mg/kg)	soil-dermal (mg/kg)	soil-ingest (mg/kg)	combined (mg/kg)	soil-inhale (mg/kg)	soil-dermal (mg/kg)	soil-ingest (mg/kg)	combined (mg/kg)	soil-inhale (mg/kg)	soil-dermal (mg/kg)	soil-ingest (mg/kg)	combined (mg/kg)	soil-inhale (mg/kg)	soil-dermal (mg/kg)	soil-ingest (mg/kg)	combined (mg/kg)
2,4,6-Trichloroaniline hydrochloride	3.0E+05	7.0E+01	2.2E+01	1.7E+01					6.5E+05	1.5E+02	9.9E+01	5.9E+01				
1,2,4-Trichlorobenzene			1.8E+02	1.8E+02	6.8E+01		7.8E+02	6.2E+01			7.9E+02	7.9E+02	2.2E+02		1.0E+04	2.2E+02
1,1,1-Trichloroethane					9.9E+02		2.2E+04	9.5E+02					3.2E+03		2.9E+05	3.2E+03
1,1,2-Trichloroethane	7.6E-01		8.9E+00	7.0E-01	4.1E+01		3.1E+02	3.6E+01	1.6E+00		4.0E+01	1.6E+00	1.3E+02		4.1E+03	1.3E+02
Trichloroethylene (TCE) "CAL-Modified PRG"	3.1E+00		4.9E+01	2.9E+00	8.7E+02		2.3E+01	2.3E+01	6.7E+00		2.2E+02	6.5E+00	2.9E+03		3.1E+02	2.8E+02
Trichlorofluoromethane					3.9E+02		2.3E+04	3.9E+02					1.3E+03		3.1E+05	1.3E+03
2,4,5-Trichlorophenol					2.1E+08	2.8E+04	7.8E+03	6.1E+03					6.7E+08	1.5E+05	1.0E+05	6.2E+04
2,4,6-Trichlorophenol "CAL-Modified PRG"	1.2E+05	2.9E+01	9.1E+00	6.9E+00	2.1E+05	2.8E+01	7.8E+00	6.1E+00	2.7E+05	6.2E+01	4.1E+01	2.5E+01	6.7E+05	1.5E+02	1.0E+02	6.2E+01
2,4,5-Trichlorophenoxyacetic Acid					2.1E+07	2.8E+03	7.8E+02	6.1E+02					6.7E+07	1.5E+04	1.0E+04	6.2E+03
2-(2,4,5-Trichlorophenoxy) propionic acid					1.6E+07	2.2E+03	6.3E+02	4.9E+02					5.4E+07	1.2E+04	8.2E+03	4.9E+03
1,1,2-Trichloropropane					8.6E+01		3.9E+02	7.1E+01					2.8E+02		5.1E+03	2.7E+02
1,2,3-Trichloropropane	3.7E-02		3.2E-01	3.3E-02	2.4E+01		4.7E+02	2.3E+01	7.9E-02		1.4E+00	7.5E-02	7.9E+01		6.1E+03	7.8E+01
1,2,3-Trichloropropene					5.2E+00		7.8E+02	5.1E+00					1.7E+01		1.0E+04	1.7E+01
Tridiphane					6.2E+06	8.4E+02	2.3E+02	1.8E+02					2.0E+07	4.6E+03	3.1E+03	1.8E+03
Triethylamine					7.9E+02		1.6E+02	1.3E+02					2.6E+03		2.0E+03	1.1E+03
Trifluralin	1.1E+06	2.6E+02	8.3E+01	6.3E+01	1.5E+07	2.1E+03	5.9E+02	4.6E+02	2.4E+06	5.6E+02	3.7E+02	2.2E+02	5.0E+07	1.2E+04	7.7E+03	4.6E+03
Trimellitic Anhydride (TMAN)					2.9E+05	3.9E+01	1.1E+01	8.6E+00					9.4E+05	2.2E+02	1.4E+02	8.6E+01
1,2,4-Trimethylbenzene					5.2E+01		3.9E+03	5.2E+01					1.7E+02		5.1E+04	1.7E+02
1,3,5-Trimethylbenzene					2.1E+01		3.9E+03	2.1E+01					7.0E+01		5.1E+04	7.0E+01
Trimethyl phosphate	2.4E+05	5.5E+01	1.7E+01	1.3E+01					5.1E+05	1.2E+02	7.7E+01	4.7E+01				
1,3,5-Trinitrobenzene					6.2E+07	8.4E+03	2.3E+03	1.8E+03					2.0E+08	4.6E+04	3.1E+04	1.8E+04
Trinitrophenylmethylnitramine					2.1E+07	2.8E+03	7.8E+02	6.1E+02					6.7E+07	1.5E+04	1.0E+04	6.2E+03
2,4,6-Trinitrotoluene	2.9E+05	6.7E+01	2.1E+01	1.6E+01	1.0E+06	1.4E+02	3.9E+01	3.1E+01	6.3E+05	1.4E+02	9.5E+01	5.7E+01	3.4E+06	7.7E+02	5.1E+02	3.1E+02
Triphenylphosphine oxide					4.1E+07	5.6E+03	1.6E+03	1.2E+03					1.3E+08	3.1E+04	2.0E+04	1.2E+04
Tris(2-chloroethyl) phosphate	6.2E+05	1.4E+02	4.6E+01	3.5E+01	6.4E+08	8.7E+04	2.4E+04	1.9E+04	1.3E+06	3.1E+02	2.0E+02	1.2E+02	2.1E+09	4.8E+05	3.2E+05	1.9E+05
Tris(2-ethylhexyl) phosphate	2.7E+06	6.3E+02	2.0E+02	1.5E+02	2.1E+08	2.8E+04	7.8E+03	6.1E+03	5.9E+06	1.4E+03	8.9E+02	5.4E+02	6.7E+08	1.5E+05	1.0E+05	6.2E+04
Uranium (chemical toxicity only)							1.6E+01	1.6E+01							2.0E+02	2.0E+02
Vanadium and compounds							7.8E+01	7.8E+01							1.0E+03	1.0E+03
Vernam					2.1E+06	2.8E+02	7.8E+01	6.1E+01					6.7E+06	1.5E+03	1.0E+03	6.2E+02
Vinclozolin					5.1E+07	7.0E+03	2.0E+03	1.5E+03					1.7E+08	3.9E+04	2.6E+04	1.5E+04
Vinyl acetate					4.3E+02		7.8E+04	4.3E+02					1.4E+03		1.0E+06	1.4E+03
Vinyl bromide (bromoethene)	2.0E-01		5.8E+00	1.9E-01	4.4E+00		6.7E+01	4.1E+00	4.3E-01		2.6E+01	4.2E-01	1.4E+01		8.8E+02	1.4E+01
Vinyl chloride (child/adult)+++	2.5E-02		2.4E+00	2.5E-02	4.6E+01		2.3E+02	3.9E+01	5.5E-02		1.1E+01	5.5E-02	1.5E+02		3.1E+03	1.4E+02
Vinyl chloride (adult)	2.5E-02		2.4E+00	2.5E-02	4.6E+01		2.3E+02	3.9E+01	5.5E-02		1.1E+01	5.5E-02	1.5E+02		3.1E+03	1.4E+02
Warfarin					6.2E+05	8.4E+01	2.3E+01	1.8E+01					2.0E+06	4.6E+02	3.1E+02	1.8E+02
Xylenes					1.9E+03	5.6E+04	1.6E+04	1.7E+03					6.2E+03	3.1E+05	2.0E+05	5.9E+03
Zinc							2.3E+04	2.3E+04							3.1E+05	3.1E+05
Zinc phosphide							2.3E+01	2.3E+01							3.1E+02	3.1E+02
Zineb					1.0E+08	1.4E+04	3.9E+03	3.1E+03					3.4E+08	7.7E+04	5.1E+04	3.1E+04
1,2,3,4,6,7,8,9-Octachlorodibenzofuran	6.7E+02		4.9E-02	4.9E-02					1.4E+03		2.2E-01	2.2E-01				

Table H-3
PRG Intercalculation Tables for Soil with Updated OEHHA Toxicity Values

CONTAMINANT	RESIDENTIAL SOIL								INDUSTRIAL SOIL							
	Cancer Risk = 1E-06				Chronic HQ = 1				Cancer Risk = 1E-06				Chronic HQ = 1			
	soil-inhale (mg/kg)	soil-dermal (mg/kg)	soil-ingest (mg/kg)	combined (mg/kg)	soil-inhale (mg/kg)	soil-dermal (mg/kg)	soil-ingest (mg/kg)	combined (mg/kg)	soil-inhale (mg/kg)	soil-dermal (mg/kg)	soil-ingest (mg/kg)	combined (mg/kg)	soil-inhale (mg/kg)	soil-dermal (mg/kg)	soil-ingest (mg/kg)	combined (mg/kg)
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin	6.7E+02		4.9E-02	4.9E-02					1.4E+03		2.2E-01	2.2E-01				
1,2,3,4,6,7,8-Heptachlorodibenzofuran	6.7E+00		4.9E-04	4.9E-04					1.4E+01		2.2E-03	2.2E-03				
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	6.7E+00		4.9E-04	4.9E-04					1.4E+01		2.2E-03	2.2E-03				
1,2,3,4,7,8,9-Heptachlorodibenzofuran	6.7E+00		4.9E-04	4.9E-04					1.4E+01		2.2E-03	2.2E-03				
1,2,3,4,7,8-Hexachlorodibenzofuran	6.7E-01		4.9E-05	4.9E-05					1.4E+00		2.2E-04	2.2E-04				
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	6.7E-01		4.9E-05	4.9E-05					1.4E+00		2.2E-04	2.2E-04				
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	6.7E-01		4.9E-05	4.9E-05					1.4E+00		2.2E-04	2.2E-04				
1,2,3,7,8,9-Hexachlorodibenzofuran	6.7E-01		4.9E-05	4.9E-05					1.4E+00		2.2E-04	2.2E-04				
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	6.7E-01		4.9E-05	4.9E-05					1.4E+00		2.2E-04	2.2E-04				
1,2,3,7,8-Pentachlorodibenzofuran	1.3E+00		9.9E-05	9.9E-05					2.9E+00		4.4E-04	4.4E-04				
1,2,3,7,8-Pentachlorodibenzo-p-dioxin	6.7E-02		4.9E-06	4.9E-06					1.4E-01		2.2E-05	2.2E-05				
1,2-Dimethylhydrazine	1.6E+01		1.2E-03	1.2E-03					3.4E+01		5.2E-03	5.2E-03				
1,3-Propane sultone	3.6E+03		2.7E-01	2.7E-01					7.8E+03		1.2E+00	1.2E+00				
1,6-Dinitropyrene	2.2E+02		5.3E-03	5.3E-03					4.8E+02		2.4E-02	2.4E-02				
1,8-Dinitropyrene	2.2E+03		5.3E-02	5.3E-02					4.8E+03		2.4E-01	2.4E-01				
1-[(5-Nitrofurfurylidene)-amino]-2-imidazolidi	4.9E+03		3.6E-01	3.6E-01					1.0E+04		1.6E+00	1.6E+00				
1-Amino-2-methylanthraquinone	5.8E+04		4.3E+00	4.3E+00					1.3E+05		1.9E+01	1.9E+01				
1-Nitropyrene	2.2E+04		5.3E-01	5.3E-01					4.8E+04		2.4E+00	2.4E+00				
2-(2-Formylhydrazino)-4-(5-nitro-2-furyl)thiaz	3.8E+03		2.8E-01	2.8E-01					8.2E+03		1.2E+00	1.2E+00				
2,3,3',4,4',5,5'-HpCB	6.7E+02		4.9E-02	4.9E-02					1.4E+03		2.2E-01	2.2E-01				
2,3,3',4,4',5'-HxCB	1.3E+02		9.9E-03	9.9E-03					2.9E+02		4.4E-02	4.4E-02				
2,3,3',4,4',5-HxCB	1.3E+02		9.9E-03	9.9E-03					2.9E+02		4.4E-02	4.4E-02				
2,3,3',4,4'-PeCB	6.7E+02		4.9E-02	4.9E-02					1.4E+03		2.2E-01	2.2E-01				
2,3',4,4',5,5'-HxCB	6.7E+03		4.9E-01	4.9E-01					1.4E+04		2.2E+00	2.2E+00				
2',3,4,4',5-PeCB	6.7E+02		4.9E-02	4.9E-02					1.4E+03		2.2E-01	2.2E-01				
2,3',4,4',5-PeCB	6.7E+02		4.9E-02	4.9E-02					1.4E+03		2.2E-01	2.2E-01				
2,3,4,4',5-PeCB	1.3E+02		9.9E-03	9.9E-03					2.9E+02		4.4E-02	4.4E-02				
2,3,4,6,7,8-Hexachlorodibenzofuran	6.7E-01		4.9E-05	4.9E-05					1.4E+00		2.2E-04	2.2E-04				
2,3,4,7,8,9-Hexachlorodibenzofuran	6.7E-01		4.9E-05	4.9E-05					1.4E+00		2.2E-04	2.2E-04				
2,3,4,7,8-Pentachlorodibenzofuran	1.3E-01		9.9E-06	9.9E-06					2.9E-01		4.4E-05	4.4E-05				
2,3,7,8-Hexachlorodibenzo-p-dioxin (mixture	6.7E-01		1.9E-04	1.9E-04					1.4E+00		8.7E-04	8.7E-04				
2,3,7,8-Tetrachlorodibenzofuran	6.7E-01		4.9E-05	4.9E-05					1.4E+00		2.2E-04	2.2E-04				
2,4-Diaminoanisole	3.8E+05		2.8E+01	2.8E+01					8.2E+05		1.2E+02	1.2E+02				
2,4-Diaminoanisole sulfate	6.7E+05		4.9E+01	4.9E+01					1.4E+06		2.2E+02	2.2E+02				
2-Acetylaminofluorene	2.3E+03		1.7E-01	1.7E-01					5.0E+03		7.5E-01	7.5E-01				
2-Amino-5-(5-nitro-2-furyl)-1,3,4-thiadiazol	5.5E+02		4.0E-02	4.0E-02					1.2E+03		1.8E-01	1.8E-01				
2-Aminoanthraquinone	2.6E+05		1.9E+01	1.9E+01					5.7E+05		8.7E+01	8.7E+01				
2-Methyl-1-nitroanthraquinone (of uncertain p	2.0E+03		1.5E-01	1.5E-01					4.4E+03		6.7E-01	6.7E-01				
2-Naphthylamine	4.9E+03		3.6E-01	3.6E-01					1.0E+04		1.6E+00	1.6E+00				
2-Nitrofluorene	2.2E+05		5.3E+00	5.3E+00					4.8E+05		2.4E+01	2.4E+01				
3,3',4,4',5,5'-HxCB	6.7E+00		4.9E-04	4.9E-04					1.4E+01		2.2E-03	2.2E-03				
3,3',4,4',5-PeCB	6.7E-01		4.9E-05	4.9E-05					1.4E+00		2.2E-04	2.2E-04				

Table H-3
PRG Intercalculation Tables for Soil with Updated OEHHA Toxicity Values

CONTAMINANT	RESIDENTIAL SOIL								INDUSTRIAL SOIL							
	Cancer Risk = 1E-06				Chronic HQ = 1				Cancer Risk = 1E-06				Chronic HQ = 1			
	soil-inhale (mg/kg)	soil-dermal (mg/kg)	soil-ingest (mg/kg)	combined (mg/kg)	soil-inhale (mg/kg)	soil-dermal (mg/kg)	soil-ingest (mg/kg)	combined (mg/kg)	soil-inhale (mg/kg)	soil-dermal (mg/kg)	soil-ingest (mg/kg)	combined (mg/kg)	soil-inhale (mg/kg)	soil-dermal (mg/kg)	soil-ingest (mg/kg)	combined (mg/kg)
3,3',4,4'-TCB	6.7E+02		4.9E-02	4.9E-02					1.4E+03		2.2E-01	2.2E-01				
3,4,4'5-TCB	6.7E+02		4.9E-02	4.9E-02					1.4E+03		2.2E-01	2.2E-01				
3-Amino-9-ethylcarbazolehydrochloride	1.1E+05		8.2E+00	8.2E+00					2.4E+05		3.7E+01	3.7E+01				
3-Chloro-2-methylpropene	6.2E+04		4.6E+00	4.6E+00					1.3E+05		2.0E+01	2.0E+01				
3-Methylcholanthrene	4.0E+02		2.9E-02	2.9E-02					8.6E+02		1.3E-01	1.3E-01				
4,4-Diaminodiphenyl ether	6.2E+04		4.6E+00	4.6E+00					1.3E+05		2.0E+01	2.0E+01				
4,4-Methylene bis(2-methylaniline)	9.5E+03		7.0E-01	7.0E-01					2.0E+04		3.1E+00	3.1E+00				
4,4-Methylenedianiline dihydrochloride	7.3E+03		5.3E-01	5.3E-01					1.6E+04		2.4E+00	2.4E+00				
4,4-Thiodianiline	5.8E+02		4.3E-02	4.3E-02					1.3E+03		1.9E-01	1.9E-01				
4-Aminobiphenyl (4-aminodiphenyl)	4.2E+02		3.0E-02	3.0E-02					9.0E+02		1.4E-01	1.4E-01				
4-Chloro-ortho-phenylenediamine	5.5E+05		4.0E+01	4.0E+01					1.2E+06		1.8E+02	1.8E+02				
4-Dimethylaminoazobenzene	1.9E+03		1.4E-01	1.4E-01					4.1E+03		6.2E-01	6.2E-01				
4-Nitropyrene	2.2E+04		5.3E-01	5.3E-01					4.8E+04		2.4E+00	2.4E+00				
5-Methylchrysene	2.2E+03		5.3E-02	5.3E-02					4.8E+03		2.4E-01	2.4E-01				
5-Nitroacenaphthene	6.7E+04		4.9E+00	4.9E+00					1.4E+05		2.2E+01	2.2E+01				
6-Nitrochrysene	2.2E+02		5.3E-03	5.3E-03					4.8E+02		2.4E-02	2.4E-02				
7,12-Dimethylbenz(a)anthracene	3.5E+01		2.6E-03	2.6E-03					7.5E+01		1.1E-02	1.1E-02				
7H-dibenzo(c,g)carbazole	2.2E+03		5.3E-02	5.3E-02					4.8E+03		2.4E-01	2.4E-01				
A-alpha-C(2-Amino-9H-pyrido[2,3-b]indole)	2.2E+04		1.6E+00	1.6E+00					4.7E+04		7.2E+00	7.2E+00				
Acetamide	1.2E+05		9.1E+00	9.1E+00					2.7E+05		4.1E+01	4.1E+01				
Actinomycin D	1.0E+00		7.4E-05	7.4E-05					2.2E+00		3.3E-04	3.3E-04				
AF-2;[2-(2-furyl)-3(5-nitro-2-furyl)]acrylamide	3.6E+04		2.7E+00	2.7E+00					7.8E+04		1.2E+01	1.2E+01				
Amitrole	9.3E+03		6.8E-01	6.8E-01					2.0E+04		3.0E+00	3.0E+00				
Asbestos [1/(100 PCM fibers/m^3)]^-1	4.0E+01			4.0E+01					8.6E+01			8.6E+01				
Auramine	9.9E+03		7.3E-01	7.3E-01					2.1E+04		3.3E+00	3.3E+00				
Azaserine	7.9E+02		5.8E-02	5.8E-02					1.7E+03		2.6E-01	2.6E-01				
Azathioprine	4.9E+03		3.6E-01	3.6E-01					1.0E+04		1.6E+00	1.6E+00				
Benzo(j)fluoranthene	2.2E+04		5.3E-01	5.3E-01					4.8E+04		2.4E+00	2.4E+00				
Benzyl violet 4B	4.4E+05		3.2E+01	3.2E+01					9.4E+05		1.4E+02	1.4E+02				
Beryllium oxide	1.0E+03		9.1E-02	9.1E-02					2.2E+03		4.1E-01	4.1E-01				
Beryllium sulfate	2.9E+00		2.1E-04	2.1E-04					6.3E+00		9.5E-04	9.5E-04				
beta-Butyrolactone	8.7E+03		6.4E-01	6.4E-01					1.9E+04		2.9E+00	2.9E+00				
beta-Propiolactone	6.2E+02		4.6E-02	4.6E-02					1.3E+03		2.0E-01	2.0E-01				
Butylated hydroxyanisole	4.4E+07		3.2E+03	3.2E+03					9.4E+07		1.4E+04	1.4E+04				
C.I. Basic Red 9 monohydrochloride	3.5E+04		2.7E-03	2.7E-03					7.5E+04		1.2E-02	1.2E-02				
Chlorambucil	2.0E+01		2.8E+02	1.9E+01					4.3E+01		1.2E+03	4.1E+01				
Chlordane	7.3E+03		4.9E-01	4.9E-01					1.6E+04		2.2E+00	2.2E+00				
Chlorendic acid	9.6E+04		7.0E+00	7.0E+00					2.1E+05		3.1E+01	3.1E+01				
Chlorinated paraffins (Avg. chain length,C12	9.8E+04		7.2E+00	7.2E+00					2.1E+05		3.2E+01	3.2E+01				
Chloromethyl methyl ether (technical grade)	3.6E+03		2.7E-01	2.7E-01					7.8E+03		1.2E+00	1.2E+00				
Chlorozotocin	3.6E+01		2.7E-03	2.7E-03					7.8E+01		1.2E-02	1.2E-02				
Cinnamyl anthranilate	1.9E+06		1.4E+02	1.4E+02					4.1E+06		6.2E+02	6.2E+02				

Table H-3
PRG Intercalculation Tables for Soil with Updated OEHHA Toxicity Values

CONTAMINANT	RESIDENTIAL SOIL								INDUSTRIAL SOIL							
	Cancer Risk = 1E-06				Chronic HQ = 1				Cancer Risk = 1E-06				Chronic HQ = 1			
	soil-inhale (mg/kg)	soil-dermal (mg/kg)	soil-ingest (mg/kg)	combined (mg/kg)	soil-inhale (mg/kg)	soil-dermal (mg/kg)	soil-ingest (mg/kg)	combined (mg/kg)	soil-inhale (mg/kg)	soil-dermal (mg/kg)	soil-ingest (mg/kg)	combined (mg/kg)	soil-inhale (mg/kg)	soil-dermal (mg/kg)	soil-ingest (mg/kg)	combined (mg/kg)
Coke oven emissions	4.0E+03			4.0E+03					8.7E+03			8.7E+03				
Cupferron	4.0E+04		2.9E+00	2.9E+00					8.6E+04		1.3E+01	1.3E+01				
Cyclophosphamide (anhydrous)	1.4E+04		1.0E+00	1.0E+00					3.1E+04		4.7E+00	4.7E+00				
Cyclophosphamide (hydrated)	1.5E+04		1.1E+00	1.1E+00					3.3E+04		5.0E+00	5.0E+00				
D & C Red No. 9	1.6E+06		1.2E+02	1.2E+02					3.6E+06		5.4E+02	5.4E+02				
Dacarbazine	1.8E+02		1.3E-02	1.3E-02					3.8E+02		5.8E-02	5.8E-02				
Dantron	1.1E+05		8.4E+00	8.4E+00					2.5E+05		3.8E+01	3.8E+01				
Dibenz(a,h)acridine	2.2E+04		5.3E-01	5.3E-01					4.8E+04		2.4E+00	2.4E+00				
Dibenz(a,j)acridine	2.2E+04		5.3E-01	5.3E-01					4.8E+04		2.4E+00	2.4E+00				
Dibenzo(a,e)pyrene	2.2E+03		5.3E-02	5.3E-02					4.8E+03		2.4E-01	2.4E-01				
Dibenzo(a,h)pyrene	2.2E+02		5.3E-03	5.3E-03					4.8E+02		2.4E-02	2.4E-02				
Dibenzo(a,i)pyrene	2.2E+02		5.3E-03	5.3E-03					4.8E+02		2.4E-02	2.4E-02				
Dibenzo(a,l)pyrene	2.2E+02		5.3E-03	5.3E-03					4.8E+02		2.4E-02	2.4E-02				
Diesel exhaust particulate	7.9E+03			7.9E+03					1.7E+04			1.7E+04				
Diglycidyl resorcinol ether (DGRE)	5.1E+03		3.8E-01	3.8E-01					1.1E+04		1.7E+00	1.7E+00				
Dihydrosafrole	2.0E+05		1.5E+01	1.5E+01					4.3E+05		6.5E+01	6.5E+01				
Dimethylcarbamyl chloride	6.7E+02		4.9E-02	4.9E-02					1.4E+03		2.2E-01	2.2E-01				
Dimethylvinylchloride	1.9E+05		1.4E+01	1.4E+01					4.2E+05		6.4E+01	6.4E+01				
Disperse Blue 1 (technical grade)	1.9E+06		1.4E+02	1.4E+02					4.2E+06		6.4E+02	6.4E+02				
Estradiol 17B	2.2E+02		1.6E-02	1.6E-02					4.8E+02		7.3E-02	7.3E-02				
Ethyleneimine	1.3E+02		9.9E-03	9.9E-03					2.9E+02		4.4E-02	4.4E-02				
d]imidazole)	1.8E+03		1.3E-01	1.3E-01					3.9E+03		6.0E-01	6.0E-01				
Glu-P-2 (2-Aminodipyrido[1,2-a:3',2'-d]indole	6.2E+03		4.6E-01	4.6E-01					1.3E+04		2.0E+00	2.0E+00				
Gyromitrin	8.7E+02		6.4E-02	6.4E-02					1.9E+03		2.9E-01	2.9E-01				
HC Blue 1	1.7E+05		1.3E+01	1.3E+01					3.7E+05		5.6E+01	5.6E+01				
Hexachlorodibenzo-p-dioxin	6.7E-01		4.9E-05	4.9E-05					1.4E+00		2.2E-04	2.2E-04				
Hydrazine Sulfate	2.9E+03		2.1E-01	2.1E-01					6.3E+03		9.5E-01	9.5E-01				
IQ (2-Amino-3-methylimidazo-[4,5-f]quinoline	6.2E+03		4.6E-01	4.6E-01					1.3E+04		2.0E+00	2.0E+00				
Lasiocarpine	1.1E+03		8.2E-02	8.2E-02					2.4E+03		3.7E-01	3.7E-01				
Lead acetate	3.1E+04		2.3E+00	2.3E+00					6.7E+04		1.0E+01	1.0E+01				
Lead subacetate	2.3E+05		1.7E+01	1.7E+01					5.0E+05		7.5E+01	7.5E+01				
Me-A-alpha-C (2-Amino-3-methyl-9H-pyrido[	7.3E+03		5.3E-01	5.3E-01					1.6E+04		2.4E+00	2.4E+00				
Melphalan	6.7E+01		4.9E-03	4.9E-03					1.4E+02		2.2E-02	2.2E-02				
Methyl methanesulfonate	8.8E+04		6.5E+00	6.5E+00					1.9E+05		2.9E+01	2.9E+01				
Methylthiouracil	2.2E+04		1.6E+00	1.6E+00					4.7E+04		7.2E+00	7.2E+00				
Michler's ketone	1.0E+04		7.4E-01	7.4E-01					2.2E+04		3.3E+00	3.3E+00				
Mitomycin C	1.1E+00		7.8E-05	7.8E-05					2.3E+00		3.5E-04	3.5E-04				
Monocrotaline	8.7E+02		6.4E-02	6.4E-02					1.9E+03		2.9E-01	2.9E-01				
Nitrilotriacetic acid	1.6E+06		1.2E+02	1.2E+02					3.6E+06		5.4E+02	5.4E+02				
Nitrilotriacetic acid, trisodium salt monohydra	8.7E+05		6.4E+01	6.4E+01					1.9E+06		2.9E+02	2.9E+02				
Nitrofen (technical grade)	1.1E+05		7.8E+00	7.8E+00					2.3E+05		3.5E+01	3.5E+01				
N-Methyl-N-nitro-N-nitrosoguanidine	1.1E+03		7.7E-02	7.7E-02					2.3E+03		3.4E-01	3.4E-01				

Table H-3
PRG Intercalculation Tables for Soil with Updated OEHHA Toxicity Values

CONTAMINANT	RESIDENTIAL SOIL								INDUSTRIAL SOIL							
	Cancer Risk = 1E-06				Chronic HQ = 1				Cancer Risk = 1E-06				Chronic HQ = 1			
	soil-inhale (mg/kg)	soil-dermal (mg/kg)	soil-ingest (mg/kg)	combined (mg/kg)	soil-inhale (mg/kg)	soil-dermal (mg/kg)	soil-ingest (mg/kg)	combined (mg/kg)	soil-inhale (mg/kg)	soil-dermal (mg/kg)	soil-ingest (mg/kg)	combined (mg/kg)	soil-inhale (mg/kg)	soil-dermal (mg/kg)	soil-ingest (mg/kg)	combined (mg/kg)
N-Nitrosomorpholine	1.3E+03		9.6E-02	9.6E-02					2.8E+03		4.3E-01	4.3E-01				
N-Nitroso-N-ethylurea	3.2E+02		2.4E-02	2.4E-02					7.0E+02		1.1E-01	1.1E-01				
N-Nitroso-N-methylurea	7.3E+01		5.3E-03	5.3E-03					1.6E+02		2.4E-02	2.4E-02				
N-Nitroso-N-methylurethane	7.9E+01		5.8E-03	5.8E-03					1.7E+02		2.6E-02	2.6E-02				
N-Nitrosonornicotine	6.2E+03		4.6E-01	4.6E-01					1.3E+04		2.0E+00	2.0E+00				
N-Nitrosopiperidine	9.3E+02		6.8E-02	6.8E-02					2.0E+03		3.0E-01	3.0E-01				
O-Phenylphenate, sodium	2.9E+06		2.1E+02	2.1E+02					6.3E+06		9.5E+02	9.5E+02				
ortho-Aminoazotoluene	2.3E+03		1.7E-01	1.7E-01					5.0E+03		7.5E-01	7.5E-01				
ortho-Anisidine	6.2E+04		4.6E+00	4.6E+00					1.3E+05		2.0E+01	2.0E+01				
ortho-Anisidine hydrochloride	7.9E+04		5.8E+00	5.8E+00					1.7E+05		2.6E+01	2.6E+01				
para-Cresidine	5.8E+04		4.3E+00	4.3E+00					1.3E+05		1.9E+01	1.9E+01				
Phenacetin	4.0E+06		2.9E+02	2.9E+02					8.6E+06		1.3E+03	1.3E+03				
Phenazopyridine	5.1E+04		3.8E+00	3.8E+00					1.1E+05		1.7E+01	1.7E+01				
Phenazopyridine hydrochloride	5.8E+04		4.3E+00	4.3E+00					1.3E+05		1.9E+01	1.9E+01				
Phenesterin	5.8E+01		4.3E-03	4.3E-03					1.3E+02		1.9E-02	1.9E-02				
Phenobarbital	1.9E+04		1.4E+00	1.4E+00					4.1E+04		6.2E+00	6.2E+00				
Phenoxybenzamine	2.8E+03		2.1E-01	2.1E-01					6.1E+03		9.2E-01	9.2E-01				
Phenoxybenzamine hydrochloride	3.2E+03		2.4E-01	2.4E-01					7.0E+03		1.1E+00	1.1E+00				
p-Nitrosodiphenylamine	4.0E+05		2.9E+01	2.9E+01					8.6E+05		1.3E+02	1.3E+02				
Polybrominated biphenyls (PBB)																
Polychlorinated biphenyls	4.4E+03	2.9E-01	1.3E-01	8.9E-02	#N/A	#N/A	#N/A	#N/A	9.4E+03	6.2E-01	5.7E-01	3.0E-01	#N/A	#N/A	#N/A	#N/A
Ponceau 3R	5.5E+05		4.0E+01	4.0E+01					1.2E+06		1.8E+02	1.8E+02				
Ponceau MX (D&C Red No.5)	1.9E+06		1.4E+02	1.4E+02					4.2E+06		6.4E+02	6.4E+02				
Potassium bromate	1.8E+04		1.3E+00	1.3E+00					3.8E+04		5.8E+00	5.8E+00				
Procarbazine	6.2E+02		4.6E-02	4.6E-02					1.3E+03		2.0E-01	2.0E-01				
Procarbazine hydrochloride	7.3E+02		5.3E-02	5.3E-02					1.6E+03		2.4E-01	2.4E-01				
Propylthiouracil	8.7E+03		6.4E-01	6.4E-01					1.9E+04		2.9E+00	2.9E+00				
Reserpine	7.9E+02		5.8E-02	5.8E-02					1.7E+03		2.6E-01	2.6E-01				
Safrole	4.0E+04		2.9E+00	2.9E+00					8.6E+04		1.3E+01	1.3E+01				
Sterigmatocystin	2.5E+02		2.9E+00	2.9E+00					5.4E+02		1.3E+01	1.3E+01				
Streptozotocin	7.9E+01		5.8E-03	5.8E-03					1.7E+02		2.6E-02	2.6E-02				
Styrene oxide	5.5E+04		4.0E+00	4.0E+00					1.2E+05		1.8E+01	1.8E+01				
Sulfallate	4.6E+04		3.4E+00	3.4E+00					9.9E+04		1.5E+01	1.5E+01				
Thioacetamide	1.4E+03		1.0E-01	1.0E-01					3.1E+03		4.7E-01	4.7E-01				
Thiourea	1.2E+05		8.9E+00	8.9E+00					2.6E+05		4.0E+01	4.0E+01				
Toluene diisocyanate	2.2E+05		1.6E+01	1.6E+01					4.8E+05		7.3E+01	7.3E+01				

Table H-3
PRG Intercalculation Tables for Soil with Updated OEHHA Toxicity Values

CONTAMINANT	RESIDENTIAL SOIL								INDUSTRIAL SOIL							
	Cancer Risk = 1E-06				Chronic HQ = 1				Cancer Risk = 1E-06				Chronic HQ = 1			
	soil-inhale (mg/kg)	soil-dermal (mg/kg)	soil-ingest (mg/kg)	combined (mg/kg)	soil-inhale (mg/kg)	soil-dermal (mg/kg)	soil-ingest (mg/kg)	combined (mg/kg)	soil-inhale (mg/kg)	soil-dermal (mg/kg)	soil-ingest (mg/kg)	combined (mg/kg)	soil-inhale (mg/kg)	soil-dermal (mg/kg)	soil-ingest (mg/kg)	combined (mg/kg)
trans-2[(Dimethylamino)-methylimino]-5-[2-(5	2.0E+04		1.5E+00	1.5E+00					4.3E+04		6.5E+00	6.5E+00				
Tris-(1-aziridinyl)phosphine sulfide	7.3E+02		5.3E-02	5.3E-02					1.6E+03		2.4E-01	2.4E-01				
Tris(2,3-dibromopropyl)phosphate	3.8E+03		2.8E-01	2.8E-01					8.2E+03		1.2E+00	1.2E+00				
Trp-P-1 (Tryptophan-P-1)	3.4E+02		2.5E-02	2.5E-02					7.2E+02		1.1E-01	1.1E-01				
Trp-P-2 (Tryptophan-P-2)	2.7E+03		2.0E-01	2.0E-01					5.9E+03		8.9E-01	8.9E-01				
Urethane	8.7E+03		6.4E-01	6.4E-01					1.9E+04		2.9E+00	2.9E+00				

mg/kg-d = milligrams per kilogram per day
$\mu g/m^3$ = microgram per cubic meter
µg/L = microgram per liter
mg/kg = milligrams per kilogram

Equation for Exposure to Carcinogenic Contaminants in Industrial Soil through Ingestion, Dermal Contact, and Inhalation of Fugitive Dust

$$PRG_s\ (mg/kg) = \frac{TR \times BW \times AT_c}{EF \times ED\left[\left(\frac{IR \times CSF}{10^6\ mg/kg}\right) + \left(\frac{SA \times AF \times ABS \times CSF}{10^6\ mg/kg}\right) + \left(\frac{ET \times IhR \times CSF}{PEF}\right)\right]}$$

Equation for Exposure to Noncarcinogenic Contaminants in Industrial Soil through Ingestion, Dermal Contact, and Inhalation of Fugitive Dust

$$PRG_s\ (mg/kg) = \frac{THQ \times BW \times AT_n}{EF \times ED\left[\left(\frac{1}{RfD} \times \frac{IR}{10^6\ mg/kg}\right) + \left(\frac{1}{RfD} \times \frac{SA \times AF \times ABS}{10^6\ mg/kg}\right) + \left(\frac{1}{RfD} \times \frac{ET \times IhR}{PEF}\right)\right]}$$

Table H-4
PRG Intercalculation Tables for Tap Water and Ambient Air with Updated OEHHA Toxicity Values

CONTAMINANT	CAS	SFo 1/(mg/kg-d)	RfDo (mg/kg-d)	SFi 1/(mg/kg-d)	RfDi (mg/kg-d)	AMBIENT AIR: Cancer Risk = 1E-06 (ug/m3)	AMBIENT AIR: Chronic HQ = 1 (ug/m3)	TAP WATER: Cancer Risk = 1E-06 water-inhale (ug/l)	TAP WATER: Cancer Risk = 1E-06 water-ingest (ug/l)	TAP WATER: Cancer Risk = 1E-06 combined (ug/l)	TAP WATER: Chronic HQ = 1 water-inhale (ug/l)	TAP WATER: Chronic HQ = 1 water-ingest (ug/l)	TAP WATER: Chronic HQ = 1 combined (ug/l)
Acephate	30560-19-1	8.7E-03	4.0E-03	8.7E-03	4.0E-03	7.6E-01	1.5E+01		7.7E+00	7.7E+00		1.5E+02	1.5E+02
Acetaldehyde	75-07-0			1.0E-02	2.6E-03	6.6E-01	9.4E+00	1.3E+00		1.3E+00	1.9E+01		1.9E+01
Acetochlor	34256-82-1		2.0E-02		2.0E-02		7.3E+01					7.3E+02	7.3E+02
Acetone	67-64-1		9.0E-01		9.0E-01		3.3E+03				6.6E+03	3.3E+04	5.5E+03
Acetone cyanohydrin	75-86-5		8.0E-04		8.0E-04		2.9E+00					2.9E+01	2.9E+01
Acetonitrile	75-05-8		1.7E-02		1.7E-02		6.2E+01				1.2E+02	6.2E+02	1.0E+02
Acrolein	107-02-8		5.0E-04		1.7E-05		6.3E-02				1.3E-01	1.8E+01	1.2E-01
Acrylamide	79-06-1	4.5E+00	2.0E-04	4.5E+00	2.0E-04	1.5E-03	7.3E-01		1.5E-02	1.5E-02		7.3E+00	7.3E+00
Acrylic acid	79-10-7		5.0E-01		2.9E-04		1.0E+00					1.8E+04	1.8E+04
Acrylonitrile	107-13-1	1.0E+00	1.0E-03	1.0E+00	1.4E-03	6.6E-03	5.2E+00	1.3E-02	6.7E-02	1.1E-02	1.0E+01	3.7E+01	8.1E+00
Alachlor	15972-60-8	5.6E-02	1.0E-02	8.0E-02	1.0E-02	8.3E-02	3.7E+01		1.2E+00	1.2E+00		3.7E+02	3.7E+02
Alar	1596-84-5	1.8E-02	1.5E-01	1.8E-02	1.5E-01	3.7E-01	5.5E+02		3.7E+00	3.7E+00		5.5E+03	5.5E+03
Aldicarb	116-06-3		1.0E-03		1.0E-03		3.7E+00					3.7E+01	3.7E+01
Aldicarb sulfone	1646-88-4		1.0E-03		1.0E-03		3.7E+00					3.7E+01	3.7E+01
Aldrin	309-00-2	1.7E+01	3.0E-05	1.7E+01	3.0E-05	3.9E-04	1.1E-01		4.0E-03	4.0E-03		1.1E+00	1.1E+00
Ally	74223-64-6		2.5E-01		2.5E-01		9.1E+02					9.1E+03	9.1E+03
Allyl alcohol	107-18-6		5.0E-03		5.0E-03		1.8E+01					1.8E+02	1.8E+02
Allyl chloride	107-05-1	2.1E-02	2.9E-04	2.1E-02	2.9E-04	3.2E-01	1.0E+00		3.2E+00	3.2E+00		1.0E+01	1.0E+01
Aluminum	7429-90-5		1.0E+00		1.4E-03		5.1E+00					3.7E+04	3.7E+04
Aluminum phosphide	20859-73-8		4.0E-04									1.5E+01	1.5E+01
Amdro	67485-29-4		3.0E-04		3.0E-04		1.1E+00					1.1E+01	1.1E+01
Ametryn	834-12-8		9.0E-03		9.0E-03		3.3E+01					3.3E+02	3.3E+02
m-Aminophenol	591-27-5		7.0E-02		7.0E-02		2.6E+02					2.6E+03	2.6E+03
4-Aminopyridine	504-24-5		2.0E-05		2.0E-05		7.3E-02					7.3E-01	7.3E-01
Amitraz	33089-61-1		2.5E-03		2.5E-03		9.1E+00					9.1E+01	9.1E+01
Ammonia	7664-41-7				5.7E-02		2.1E+02						
Ammonium sulfamate	7773-06-0		2.0E-01									7.3E+03	7.3E+03
Aniline	62-53-3	5.7E-03	7.0E-03	5.7E-03	2.9E-04	1.2E+00	1.0E+00		1.2E+01	1.2E+01		2.6E+02	2.6E+02
Antimony and compounds	7440-36-0		4.0E-04									1.5E+01	1.5E+01
Apollo	74115-24-5		1.3E-02		1.3E-02		4.7E+01					4.7E+02	4.7E+02
Aramite	140-57-8	3.0E-02	5.0E-02	3.0E-02	5.0E-02	2.2E-01	1.8E+02		2.2E+00	2.2E+00		1.8E+03	1.8E+03
Arsenic	7440-38-2	9.5E+00	3.0E-04	1.2E+01	8.6E-06	5.5E-04	3.1E-02		7.1E-03	7.1E-03		1.1E+01	1.1E+01
Arsine	7784-42-1				1.4E-05		5.2E-02						
Assure	76578-14-8		9.0E-03		9.0E-03		3.3E+01					3.3E+02	3.3E+02
Asulam	3337-71-1		5.0E-02		5.0E-02		1.8E+02					1.8E+03	1.8E+03
Atrazine	1912-24-9	2.3E-01	3.5E-02	2.2E-01	3.5E-02	3.0E-02	1.3E+02		2.9E-01	2.9E-01		1.3E+03	1.3E+03
Avermectin B1	71751-41-2		4.0E-04		4.0E-04		1.5E+00					1.5E+01	1.5E+01
Azobenzene	103-33-3	1.1E-01		1.1E-01		6.0E-02			6.1E-01	6.1E-01			
Barium and compounds	7440-39-3		7.0E-02		1.4E-04		5.2E-01					2.6E+03	2.6E+03
Baygon	114-26-1		4.0E-03		4.0E-03		1.5E+01					1.5E+02	1.5E+02
Bayleton	43121-43-3		3.0E-02		3.0E-02		1.1E+02					1.1E+03	1.1E+03
Baythroid	68359-37-5		2.5E-02		2.5E-02		9.1E+01					9.1E+02	9.1E+02
Benefin	1861-40-1		3.0E-01		3.0E-01		1.1E+03					1.1E+04	1.1E+04
Benomyl	17804-35-2		5.0E-02		5.0E-02		1.8E+02					1.8E+03	1.8E+03
Bentazon	25057-89-0		3.0E-02		3.0E-02		1.1E+02					1.1E+03	1.1E+03
Benzaldehyde	100-52-7		1.0E-01		1.0E-01		3.7E+02					3.7E+03	3.7E+03
Benzene	71-43-2	1.0E-01	4.0E-03	1.0E-01	1.7E-02	6.6E-02	6.3E+01	1.3E-01	6.7E-01	1.1E-01	1.3E+02	1.5E+02	6.7E+01
Benzidine	92-87-5	5.0E+02	3.0E-03	5.0E+02	3.0E-03	1.3E-05	1.1E+01		1.3E-04	1.3E-04		1.1E+02	1.1E+02
Benzoic acid	65-85-0		4.0E+00		4.0E+00		1.5E+04					1.5E+05	1.5E+05
Benzotrichloride	98-07-7	1.3E+01		1.3E+01		5.1E-04			5.2E-03	5.2E-03			
Benzyl alcohol	100-51-6		3.0E-01		3.0E-01		1.1E+03					1.1E+04	1.1E+04
Benzyl chloride	100-44-7	1.7E-01	2.9E-03	1.7E-01	2.9E-03	3.9E-02	1.1E+01	7.8E-02	4.0E-01	6.5E-02	2.1E+01	1.1E+02	1.8E+01
Beryllium and compounds	7440-41-7		2.0E-03	8.4E+00	2.0E-06	7.9E-04	7.3E-03					7.3E+01	7.3E+01

Table H-4
PRG Intercalculation Tables for Tap Water and Ambient Air with Updated OEHHA Toxicity Values

CONTAMINANT	CAS	SFo 1/(mg/kg-d)	RfDo (mg/kg-d)	SFi 1/(mg/kg-d)	RfDi (mg/kg-d)	AMBIENT AIR Cancer Risk = 1E-06 (ug/m3)	AMBIENT AIR Chronic HQ = 1 (ug/m3)	TAP WATER Cancer Risk = 1E-06 water-inhale (ug/l)	TAP WATER Cancer Risk = 1E-06 water-ingest (ug/l)	TAP WATER Cancer Risk = 1E-06 combined (ug/l)	TAP WATER Chronic HQ = 1 water-inhale (ug/l)	TAP WATER Chronic HQ = 1 water-ingest (ug/l)	TAP WATER Chronic HQ = 1 combined (ug/l)
Bidrin	141-66-2		1.0E-04		1.0E-04		3.7E-01					3.7E+00	3.7E+00
Biphenthrin (Talstar)	82657-04-3		1.5E-02		1.5E-02		5.5E+01					5.5E+02	5.5E+02
1,1-Biphenyl	92-52-4		5.0E-02		5.0E-02		1.8E+02				3.7E+02	1.8E+03	3.0E+02
Bis(2-chloroethyl)ether	111-44-4	2.5E+00		2.5E+00		2.7E-03		5.3E-03	2.7E-02	4.4E-03			
Bis(2-chloroisopropyl)ether	108-60-1	7.0E-02	4.0E-02	3.5E-02	4.0E-02	1.9E-01	1.5E+02	3.8E-01	9.6E-01	2.7E-01	2.9E+02	1.5E+03	2.4E+02
Bis(chloromethyl)ether	542-88-1	4.6E+01		4.6E+01		1.4E-04		2.9E-04	1.5E-03	2.4E-04			
Bis(2-chloro-1-methylethyl)ether	108-60-1	7.0E-02	4.0E-02	3.5E-02	4.0E-02	1.9E-01	1.5E+02	3.8E-01	9.6E-01	2.7E-01	2.9E+02	1.5E+03	2.4E+02
Bis(2-ethylhexyl)phthalate (DEHP)	117-81-7	3.0E-03	2.0E-02	8.4E-03	2.0E-02	7.9E-01	7.3E+01		2.2E+01	2.2E+01		7.3E+02	7.3E+02
Bisphenol A	80-05-7		5.0E-02		5.0E-02		1.8E+02					1.8E+03	1.8E+03
Boron	7440-42-8		2.0E-01		5.7E-03		2.1E+01					7.3E+03	7.3E+03
Boron trifluoride	7637-07-2				2.0E-04		7.3E-01						
Bromate	15541-45-4	7.0E-01	4.0E-03	7.0E-01	4.0E-03	9.5E-03	1.5E+01		9.6E-02	9.6E-02		1.5E+02	1.5E+02
Bromobenzene	108-86-1		2.0E-02		2.9E-03		1.0E+01				2.1E+01	7.3E+02	2.0E+01
Bromodichloromethane	75-27-4	1.3E-01	2.0E-02	1.3E-01	2.0E-02	5.1E-02	7.3E+01	1.0E-01	5.2E-01	8.5E-02	1.5E+02	7.3E+02	1.2E+02
Bromoform (tribromomethane)	75-25-2	7.9E-03	2.0E-02	3.9E-03	2.0E-02	1.7E+00	7.3E+01		8.5E+00	8.5E+00		7.3E+02	7.3E+02
Bromomethane (Methyl bromide)	74-83-9		1.4E-03		1.4E-03		5.2E+00				1.0E+01	5.1E+01	8.7E+00
Bromophos	2104-96-3		5.0E-03		5.0E-03		1.8E+01					1.8E+02	1.8E+02
Bromoxynil	1689-84-5		2.0E-02		2.0E-02		7.3E+01					7.3E+02	7.3E+02
Bromoxynil octanoate	1689-99-2		2.0E-02		2.0E-02		7.3E+01					7.3E+02	7.3E+02
1,3-Butadiene	106-99-0	3.4E+00	5.7E-03	6.0E-01	5.7E-03	1.1E-02	2.1E+01	2.2E-02	2.0E-02	1.0E-02	4.2E+01	2.1E+02	3.5E+01
1-Butanol	71-36-3		1.0E-01		2.6E-03		9.5E+00					3.7E+03	3.7E+03
Butylate	2008-41-5		5.0E-02		5.0E-02		1.8E+02					1.8E+03	1.8E+03
n-Butylbenzene	104-51-8		4.0E-02		4.0E-02		1.5E+02				2.9E+02	1.5E+03	2.4E+02
sec-Butylbenzene	135-9-88		4.0E-02		4.0E-02		1.5E+02				2.9E+02	1.5E+03	2.4E+02
tert-Butylbenzene	98-06-6		4.0E-02		4.0E-02		1.5E+02				2.9E+02	1.5E+03	2.4E+02
Butyl benzyl phthalate	85-68-7		2.0E-01		2.0E-01		7.3E+02					7.3E+03	7.3E+03
Butylphthalyl butylglycolate	85-70-1		1.0E+00		1.0E+00		3.7E+03					3.7E+04	3.7E+04
Cadmium and compounds	7440-43-9		5.0E-04	1.5E+01	5.7E-06	4.4E-04	2.1E-02					1.8E+01	1.8E+01
Caprolactam	105-60-2		5.0E-01		5.0E-01		1.8E+03					1.8E+04	1.8E+04
Captafol	2425-06-1	1.5E-01	2.0E-03	1.5E-01	2.0E-03	4.4E-02	7.3E+00		4.5E-01	4.5E-01		7.3E+01	7.3E+01
Captan	133-06-2	2.3E-03	1.3E-01	2.3E-03	1.3E-01	2.9E+00	4.7E+02		2.9E+01	2.9E+01		4.7E+03	4.7E+03
Carbaryl	63-25-2		1.0E-01		1.1E-01		4.0E+02					3.7E+03	3.7E+03
Carbazole	86-74-8	2.0E-02		2.0E-02		3.3E-01			3.4E+00	3.4E+00			
Carbofuran	1563-66-2		5.0E-03		5.0E-03		1.8E+01					1.8E+02	1.8E+02
Carbon disulfide	75-15-0		1.0E-01		2.3E-01		8.3E+02				1.7E+03	3.7E+03	1.1E+03
Carbon tetrachloride	56-23-5	1.5E-01	7.0E-04	1.5E-01	1.1E-02	4.4E-02	4.2E+01	8.8E-02	4.5E-01	7.4E-02	8.3E+01	2.6E+01	2.0E+01
Carbosulfan	55285-14-8		1.0E-02		1.0E-02		3.7E+01					3.7E+02	3.7E+02
Carboxin	5234-68-4		1.0E-01		1.0E-01		3.7E+02					3.7E+03	3.7E+03
Chloramben	133-90-4		1.5E-02		1.5E-02		5.5E+01					5.5E+02	5.5E+02
Chloranil	118-75-2	4.0E-01		4.0E-01		1.7E-02			1.7E-01	1.7E-01			
Chlordane	57-74-9	1.3E+00		1.2E+00		5.5E-03			5.2E-02	5.2E-02			
Chlorimuron-ethyl	90982-32-4		2.0E-02		2.0E-02		7.3E+01					7.3E+02	7.3E+02
Chlorine	7782-50-5		1.0E-01		5.7E-05		2.1E-01					3.7E+03	3.7E+03
Chlorine dioxide	10049-04-4		3.0E-02		1.7E-04		6.3E-01					1.1E+03	1.1E+03
Chloroacetic acid	79-11-8		2.0E-03		2.0E-03		7.3E+00					7.3E+01	7.3E+01
2-Chloroacetophenone	532-27-4		8.6E-06		8.6E-06		3.1E-02				6.3E-02	3.1E-01	5.2E-02
4-Chloroaniline	106-47-8		4.0E-03		4.0E-03		1.5E+01					1.5E+02	1.5E+02
Chlorobenzene	108-90-7		2.0E-02		2.9E-01		1.0E+03				2.1E+03	7.3E+02	5.4E+02
Chlorobenzilate	510-15-6	1.1E-01	2.0E-02	1.1E-01	2.0E-02	6.0E-02	7.3E+01		6.1E-01	6.1E-01		7.3E+02	7.3E+02
p-Chlorobenzoic acid	74-11-3		2.0E-01		2.0E-01		7.3E+02					7.3E+03	7.3E+03
4-Chlorobenzotrifluoride	98-56-6		2.0E-02		2.0E-02		7.3E+01					7.3E+02	7.3E+02
2-Chloro-1,3-butadiene	126-99-8		2.0E-02		2.0E-03		7.3E+00				1.5E+01	7.3E+02	1.4E+01
1-Chlorobutane	109-69-3		4.0E-01		4.0E-01		1.5E+03				2.9E+03	1.5E+04	2.4E+03

Table H-4
PRG Intercalculation Tables for Tap Water and Ambient Air with Updated OEHHA Toxicity Values

CONTAMINANT	CAS	SFo 1/(mg/kg-d)	RfDo (mg/kg-d)	SFi 1/(mg/kg-d)	RfDi (mg/kg-d)	AMBIENT AIR: Cancer Risk = 1E-06 (ug/m^3)	AMBIENT AIR: Chronic HQ = 1 (ug/m^3)	TAP WATER: Cancer Risk = 1E-06 water-inhale (ug/l)	TAP WATER: Cancer Risk = 1E-06 water-ingest (ug/l)	TAP WATER: Cancer Risk = 1E-06 combined (ug/l)	TAP WATER: Chronic HQ = 1 water-inhale (ug/l)	TAP WATER: Chronic HQ = 1 water-ingest (ug/l)	TAP WATER: Chronic HQ = 1 combined (ug/l)
1-Chloro-1,1-difluoroethane (HCFC-142b)	75-68-3		1.4E+01		1.4E+01		5.2E+04				1.0E+05	5.2E+05	8.7E+04
Chlorodifluoromethane	75-45-6		1.4E+01		1.4E+01		5.1E+04				1.0E+05	5.1E+05	8.5E+04
Chloroethane	75-00-3	2.9E-03	4.0E-01	2.9E-03	8.6E+00	2.3E+00	3.1E+04	4.6E+00	2.3E+01	3.8E+00	6.3E+04	1.5E+04	1.2E+04
Chloroform	67-66-3	3.1E-02	1.0E-02	1.9E-02	8.6E-02	3.5E-01	3.1E+02	7.0E-01	2.2E+00	5.3E-01	6.3E+02	3.7E+02	2.3E+02
Chloromethane (methyl chloride)	74-87-3		2.6E-02		2.6E-02		9.5E+01				1.9E+02	9.5E+02	1.6E+02
4-Chloro-2-methylaniline	95-69-2	2.7E-01		2.7E-01		2.5E-02			2.5E-01	2.5E-01			
4-Chloro-2-methylaniline hydrochloride	3165-93-3	4.6E-01		4.6E-01		1.4E-02			1.5E-01	1.5E-01			
beta-Chloronaphthalene	91-58-7		8.0E-02		8.0E-02		2.9E+02				5.8E+02	2.9E+03	4.9E+02
o-Chloronitrobenzene	88-73-3	9.7E-03	1.0E-03	9.7E-03	2.0E-05	6.8E-01	7.3E-02	1.4E+00	6.9E+00	1.1E+00	1.5E-01	3.7E+01	1.5E-01
p-Chloronitrobenzene	100-00-5	6.7E-03	1.0E-03	6.7E-03	1.7E-04	9.9E-01	6.2E-01	2.0E+00	1.0E+01	1.7E+00	1.2E+00	3.7E+01	1.2E+00
2-Chlorophenol	95-57-8		5.0E-03		5.0E-03		1.8E+01				3.7E+01	1.8E+02	3.0E+01
2-Chloropropane	75-29-6		2.9E-02		2.9E-02		1.0E+02				2.1E+02	1.1E+03	1.7E+02
Chlorothalonil	1897-45-6	3.1E-03	1.5E-02	3.1E-03	1.5E-02	2.1E+00	5.5E+01		2.2E+01	2.2E+01		5.5E+02	5.5E+02
o-Chlorotoluene	95-49-8		2.0E-02		2.0E-02		7.3E+01				1.5E+02	7.3E+02	1.2E+02
Chlorpropham	101-21-3		2.0E-01		2.0E-01		7.3E+02					7.3E+03	7.3E+03
Chlorpyrifos	2921-88-2		3.0E-03		3.0E-03		1.1E+01					1.1E+02	1.1E+02
Chlorpyrifos-methyl	5598-13-0		1.0E-02		1.0E-02		3.7E+01					3.7E+02	3.7E+02
Chlorsulfuron	64902-72-3		5.0E-02		5.0E-02		1.8E+02					1.8E+03	1.8E+03
Chlorthiophos	60238-56-4		8.0E-04		8.0E-04		2.9E+00					2.9E+01	2.9E+01
Total Chromium (1:6 ratio Cr VI:Cr III)+++	7440-47-3			4.2E+01		1.6E-04							
Chromium III	16065-83-1		1.5E+00									5.5E+04	5.5E+04
Chromium VI+++	18540-29-9		3.0E-03	5.1E+02	5.7E-05	1.3E-05	2.1E-01					1.1E+02	1.1E+02
Cobalt	7440-48-4		2.0E-02	9.8E+00	5.7E-06	6.8E-04	2.1E-02					7.3E+02	7.3E+02
Coke Oven Emissions	8007-45-2			2.2E+00		3.1E-03							
Copper and compounds	7440-50-8		4.0E-02									1.5E+03	1.5E+03
Crotonaldehyde	123-73-9	1.9E+00		1.9E+00		3.5E-03		7.0E-03	3.5E-02	5.8E-03			
Cumene (isopropylbenzene)	98-82-8		1.0E-01		1.1E-01		4.0E+02				8.0E+02	3.7E+03	6.6E+02
Cyanazine	21725-46-2	8.4E-01	2.0E-03	8.4E-01	2.0E-03	7.9E-03	7.3E+00		8.0E-02	8.0E-02		7.3E+01	7.3E+01
Cyanide (free)	57-12-5		2.0E-02									7.3E+02	7.3E+02
Cyanide (hydrogen)	74-90-8		2.0E-02		2.6E-03		9.4E+00				1.9E+01	7.3E+02	1.8E+01
Cyanogen	460-19-5		4.0E-02		4.0E-02		1.5E+02				2.9E+02	1.5E+03	2.4E+02
Cyanogen bromide	506-68-3		9.0E-02		9.0E-02		3.3E+02				6.6E+02	3.3E+03	5.5E+02
Cyanogen chloride	506-77-4		5.0E-02		5.0E-02		1.8E+02				3.7E+02	1.8E+03	3.0E+02
Cyclohexane	110-82-7		1.7E+00		1.7E+00		6.2E+03				1.2E+04	6.2E+04	1.0E+04
Cyclohexanone	108-94-1		5.0E+00		5.0E+00		1.8E+04					1.8E+05	1.8E+05
Cyclohexylamine	108-91-8		2.0E-01		2.0E-01		7.3E+02					7.3E+03	7.3E+03
Cyhalothrin/Karate	68085-85-8		5.0E-03		5.0E-03		1.8E+01					1.8E+02	1.8E+02
Cypermethrin	52315-07-8		1.0E-02		1.0E-02		3.7E+01					3.7E+02	3.7E+02
Cyromazine	66215-27-8		7.5E-03		7.5E-03		2.7E+01					2.7E+02	2.7E+02
Dacthal	1861-32-1		1.0E-02		1.0E-02		3.7E+01					3.7E+02	3.7E+02
Dalapon	75-99-0		3.0E-02		3.0E-02		1.1E+02					1.1E+03	1.1E+03
Danitol	39515-41-8		2.5E-02		2.5E-02		9.1E+01					9.1E+02	9.1E+02
DDD	72-54-8	2.4E-01		2.4E-01		2.8E-02			2.8E-01	2.8E-01			
DDE	72-55-9	3.4E-01		3.4E-01		2.0E-02			2.0E-01	2.0E-01			
DDT	50-29-3	3.4E-01	5.0E-04	3.4E-01	5.0E-04	2.0E-02	1.8E+00		2.0E-01	2.0E-01		1.8E+01	1.8E+01
Decabromodiphenyl ether	1163-19-5		1.0E-02		1.0E-02		3.7E+01					3.7E+02	3.7E+02
Demeton	8065-48-3		4.0E-05		4.0E-05		1.5E-01					1.5E+00	1.5E+00
Diallate	2303-16-4	6.1E-02		6.1E-02		1.1E-01			1.1E+00	1.1E+00			
Diazinon	333-41-5		9.0E-04		9.0E-04		3.3E+00					3.3E+01	3.3E+01
Dibenzofuran	132-64-9		2.0E-03		2.0E-03		7.3E+00				1.5E+01	7.3E+01	1.2E+01
1,4-Dibromobenzene	106-37-6		1.0E-02		1.0E-02		3.7E+01					3.7E+02	3.7E+02
Dibromochloromethane	124-48-1	9.4E-02	2.0E-02	9.4E-02	2.0E-02	7.1E-02	7.3E+01	1.4E-01	7.2E-01	1.2E-01	1.5E+02	7.3E+02	1.2E+02
	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A

Table H-4
PRG Intercalculation Tables for Tap Water and Ambient Air with Updated OEHHA Toxicity Values

CONTAMINANT	CAS	SFo 1/(mg/kg-d)	RfDo (mg/kg-d)	SFi 1/(mg/kg-d)	RfDi (mg/kg-d)	AMBIENT AIR: Cancer Risk = 1E-06 (ug/m3)	AMBIENT AIR: Chronic HQ = 1 (ug/m3)	TAP WATER: Cancer Risk = 1E-06 water-inhale (ug/l)	TAP WATER: Cancer Risk = 1E-06 water-ingest (ug/l)	TAP WATER: Cancer Risk = 1E-06 combined (ug/l)	TAP WATER: Chronic HQ = 1 water-inhale (ug/l)	TAP WATER: Chronic HQ = 1 water-ingest (ug/l)	TAP WATER: Chronic HQ = 1 combined (ug/l)
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	7.0E+00	5.7E-05	7.0E+00	5.7E-05	9.5E-04	2.1E-01	1.9E-03	9.6E-03	1.6E-03	4.2E-01	2.1E+00	3.5E-01
1,2-Dibromoethane (EDB)	106-93-4	3.6E+00	9.0E-03	2.5E-01	2.3E-04	2.7E-02	8.3E-01	5.3E-02	1.9E-02	1.4E-02	1.7E+00	3.3E+02	1.7E+00
Dibutyl phthalate	84-74-2		1.0E-01		1.0E-01		3.7E+02					3.7E+03	3.7E+03
Dicamba	1918-00-9		3.0E-02		3.0E-02		1.1E+02					1.1E+03	1.1E+03
1,2-Dichlorobenzene	95-50-1		9.0E-02		5.7E-02		2.1E+02				4.2E+02	3.3E+03	3.7E+02
1,3-Dichlorobenzene	541-73-1		3.0E-02		3.0E-02		1.1E+02				2.2E+02	1.1E+03	1.8E+02
1,4-Dichlorobenzene	106-46-7	5.4E-03	3.0E-02	4.0E-02	2.3E-01	1.7E-01	8.3E+02	3.3E-01	1.2E+01	3.2E-01	1.7E+03	1.1E+03	6.6E+02
3,3-Dichlorobenzidine	91-94-1	1.2E+00		1.2E+00		5.5E-03			5.6E-02	5.6E-02			
4,4'-Dichlorobenzophenone	90-98-2		3.0E-02		3.0E-02		1.1E+02					1.1E+03	1.1E+03
1,4-Dichloro-2-butene	764-41-0	9.3E+00		9.3E+00		7.1E-04		1.4E-03	7.2E-03	1.2E-03			
Dichlorodifluoromethane	75-71-8		2.0E-01		5.7E-02		2.1E+02				4.2E+02	7.3E+03	3.9E+02
	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
1,1-Dichloroethane	75-34-3	5.7E-03	1.0E-01	5.7E-03	1.4E-01	1.2E+00	5.2E+02	2.3E+00	1.2E+01	1.9E+00	1.0E+03	3.7E+03	8.1E+02
1,2-Dichloroethane (EDC)	107-06-2	4.7E-02	2.0E-02	7.2E-02	1.1E-01	9.2E-02	4.2E+02	1.8E-01	1.4E+00	1.6E-01	8.3E+02	7.3E+02	3.9E+02
1,1-Dichloroethylene	75-35-4		5.0E-02		2.0E-02		7.3E+01				1.5E+02	1.8E+03	1.4E+02
1,2-Dichloroethylene (cis)	156-59-2		1.0E-02		1.0E-02		3.7E+01				7.3E+01	3.7E+02	6.1E+01
1,2-Dichloroethylene (trans)	156-60-5		2.0E-02		2.0E-02		7.3E+01				1.5E+02	7.3E+02	1.2E+02
2,4-Dichlorophenol	120-83-2		3.0E-03		3.0E-03		1.1E+01					1.1E+02	1.1E+02
4-(2,4-Dichlorophenoxy)butyric Acid (2,4-DB)	94-82-6		8.0E-03		8.0E-03		2.9E+01					2.9E+02	2.9E+02
2,4-Dichlorophenoxyacetic Acid (2,4-D)	94-75-7		1.0E-02		1.0E-02		3.7E+01					3.7E+02	3.7E+02
1,2-Dichloropropane	78-87-5	3.6E-02	1.1E-03	3.6E-02	1.1E-03	1.8E-01	4.2E+00	3.7E-01	1.9E+00	3.1E-01	8.3E+00	4.0E+01	6.9E+00
1,3-Dichloropropane	142-28-9		2.0E-02		2.0E-02		7.3E+01				1.5E+02	7.3E+02	1.2E+02
1,3-Dichloropropene	542-75-6	9.1E-02	3.0E-02	5.5E-02	5.7E-03	1.2E-01	2.1E+01	2.4E-01	7.4E-01	1.8E-01	4.2E+01	1.1E+03	4.0E+01
2,3-Dichloropropanol	616-23-9		3.0E-03		3.0E-03		1.1E+01					1.1E+02	1.1E+02
Dichlorvos	62-73-7	4.1E-01	5.0E-04	2.9E-01	1.4E-04	2.3E-02	5.2E-01		1.6E-01	1.6E-01		1.8E+01	1.8E+01
Dicofol	115-32-2	4.4E-01		4.4E-01		1.5E-02			1.5E-01	1.5E-01			
Dicyclopentadiene	77-73-6		3.0E-02		5.7E-05		2.1E-01				4.2E-01	1.1E+03	4.2E-01
Dieldrin	60-57-1	1.6E+01	5.0E-05	1.6E+01	5.0E-05	4.1E-04	1.8E-01		4.2E-03	4.2E-03		1.8E+00	1.8E+00
Diethylene glycol, monobutyl ether	112-34-5		1.0E-02		5.7E-03		2.1E+01					3.7E+02	3.7E+02
Diethylene glycol, monoethyl ether	111-90-0		6.0E-02		8.6E-04		3.1E+00					2.2E+03	2.2E+03
Diethylformamide	617-84-5		4.0E-04		4.0E-04		1.5E+00					1.5E+01	1.5E+01
Di(2-ethylhexyl)adipate	103-23-1	1.2E-03	6.0E-01	1.2E-03	6.0E-01	5.5E+00	2.2E+03		5.6E+01	5.6E+01		2.2E+04	2.2E+04
Diethyl phthalate	84-66-2		8.0E-01		8.0E-01		2.9E+03					2.9E+04	2.9E+04
Diethylstilbestrol	56-53-1	3.5E+02		3.5E+02		1.9E-05			1.9E-04	1.9E-04			
Difenzoquat (Avenge)	43222-48-6		8.0E-02		8.0E-02		2.9E+02					2.9E+03	2.9E+03
Diflubenzuron	35367-38-5		2.0E-02		2.0E-02		7.3E+01					7.3E+02	7.3E+02
1,1-Difluoroethane	75-37-6		1.1E+01		1.1E+01		4.2E+04					4.2E+05	4.2E+05
Diisononyl phthalate	28553-12-0		2.0E-02		2.0E-02		7.3E+01					7.3E+02	7.3E+02
Diisopropyl ether	108-20-3				1.1E-01		4.0E+02						
Diisopropyl methylphosphonate	1445-75-6		8.0E-02		8.0E-02		2.9E+02					2.9E+03	2.9E+03
Dimethipin	55290-64-7		2.0E-02		2.0E-02		7.3E+01					7.3E+02	7.3E+02
Dimethoate	60-51-5		2.0E-04		2.0E-04		7.3E-01					7.3E+00	7.3E+00
3,3'-Dimethoxybenzidine	119-90-4	1.4E-02		1.4E-02		4.7E-01			4.8E+00	4.8E+00			
Dimethylamine	124-40-3		5.7E-06		5.7E-06		2.1E-02				4.2E-02	2.1E-01	3.5E-02
N-N-Dimethylaniline	121-69-7		2.0E-03		2.0E-03		7.3E+00					7.3E+01	7.3E+01
2,4-Dimethylaniline	95-68-1	7.5E-01		7.5E-01		8.8E-03			9.0E-02	9.0E-02			
2,4-Dimethylaniline hydrochloride	21436-96-4	5.8E-01		5.8E-01		1.1E-02			1.2E-01	1.2E-01			
3,3'-Dimethylbenzidine	119-93-7	2.3E+00		2.3E+00		2.9E-03			2.9E-02	2.9E-02			
N,N-Dimethylformamide	68-12-2		1.0E-01		2.3E-02		8.3E+01					3.7E+03	3.7E+03
Dimethylphenethylamine	122-09-8		1.0E-03		1.0E-03		3.7E+00					3.7E+01	3.7E+01
2,4-Dimethylphenol	105-67-9		2.0E-02		2.0E-02		7.3E+01					7.3E+02	7.3E+02
2,6-Dimethylphenol	576-26-1		6.0E-04		6.0E-04		2.2E+00					2.2E+01	2.2E+01
3,4-Dimethylphenol	95-65-8		1.0E-03		1.0E-03		3.7E+00					3.7E+01	3.7E+01

Table H-4
PRG Intercalculation Tables for Tap Water and Ambient Air with Updated OEHHA Toxicity Values

CONTAMINANT	CAS	SFo 1/(mg/kg-d)	RfDo (mg/kg-d)	SFi 1/(mg/kg-d)	RfDi (mg/kg-d)	AMBIENT AIR Cancer Risk = 1E-06 (ug/m3)	AMBIENT AIR Chronic HQ = 1 (ug/m3)	TAP WATER Cancer Risk = 1E-06 water-inhale (ug/l)	TAP WATER Cancer Risk = 1E-06 water-ingest (ug/l)	TAP WATER Cancer Risk = 1E-06 combined (ug/l)	TAP WATER Chronic HQ = 1 water-inhale (ug/l)	TAP WATER Chronic HQ = 1 water-ingest (ug/l)	TAP WATER Chronic HQ = 1 combined (ug/l)
Dimethyl phthalate	131-11-3		1.0E+01		1.0E+01		3.7E+04					3.7E+05	3.7E+05
Dimethyl terephthalate	120-61-6		1.0E-01		1.0E-01		3.7E+02					3.7E+03	3.7E+03
4,6-Dinitro-o-cresol	534-52-1		1.0E-04		1.0E-04		3.7E-01					3.7E+00	3.7E+00
4,6-Dinitro-o-cyclohexyl phenol	131-89-5		2.0E-03		2.0E-03		7.3E+00					7.3E+01	7.3E+01
1,2-Dinitrobenzene	528-29-0		1.0E-04		1.0E-04		3.7E-01					3.7E+00	3.7E+00
1,3-Dinitrobenzene	99-65-0		1.0E-04		1.0E-04		3.7E-01					3.7E+00	3.7E+00
1,4-Dinitrobenzene	100-25-4		1.0E-04		1.0E-04		3.7E-01					3.7E+00	3.7E+00
2,4-Dinitrophenol	51-28-5		2.0E-03		2.0E-03		7.3E+00					7.3E+01	7.3E+01
Dinitrotoluene mixture	25321-14-6	6.8E-01		6.8E-01		9.8E-03			9.9E-02	9.9E-02			
2,4-Dinitrotoluene (also see Dinitrotoluene mixture)	121-14-2	3.1E-01	2.0E-03	3.1E-01	2.0E-03	2.1E-02	7.3E+00		2.2E-01	2.2E-01		7.3E+01	7.3E+01
2,6-Dinitrotoluene (also see Dinitrotoluene mixture)	606-20-2		1.0E-03		1.0E-03		3.7E+00					3.7E+01	3.7E+01
Dinoseb	88-85-7		1.0E-03		1.0E-03		3.7E+00					3.7E+01	3.7E+01
di-n-Octyl phthalate	117-84-0		4.0E-02		4.0E-02		1.5E+02					1.5E+03	1.5E+03
1,4-Dioxane	123-91-1	2.7E-02		2.7E-02	8.6E-01	2.5E-01	3.1E+03		2.5E+00	2.5E+00			
Dioxin (2,3,7,8-TCDD)+++	1746-01-6	1.3E+05		1.3E+05	1.1E-08	5.1E-08	4.2E-05		5.2E-07	5.2E-07			
Diphenamid	957-51-7		3.0E-02		3.0E-02		1.1E+02					1.1E+03	1.1E+03
Diphenylamine	122-39-4		2.5E-02		2.5E-02		9.1E+01					9.1E+02	9.1E+02
N,N-Diphenyl-1,4 benzenediamine (DPPD)	74-31-7		3.0E-04		3.0E-04		1.1E+00					1.1E+01	1.1E+01
1,2-Diphenylhydrazine	122-66-7	8.7E-01		8.7E-01		7.6E-03			7.7E-02	7.7E-02			
Diphenyl sulfone	127-63-9		3.0E-03		3.0E-03		1.1E+01					1.1E+02	1.1E+02
Diquat	85-00-7		2.2E-03		2.2E-03		8.0E+00					8.0E+01	8.0E+01
Direct black 38	1937-37-7	7.4E+00		7.4E+00		9.0E-04			9.1E-03	9.1E-03			
Direct blue 6	2602-46-2	7.4E+00		7.4E+00		9.0E-04			9.1E-03	9.1E-03			
Direct brown 95	16071-86-6	6.7E+00		6.7E+00		9.9E-04			1.0E-02	1.0E-02			
Disulfoton	298-04-4		4.0E-05		4.0E-05		1.5E-01					1.5E+00	1.5E+00
1,4-Dithiane	505-29-3		1.0E-02		1.0E-02		3.7E+01					3.7E+02	3.7E+02
Diuron	330-54-1		2.0E-03		2.0E-03		7.3E+00					7.3E+01	7.3E+01
Dodine	2439-10-3		4.0E-03		4.0E-03		1.5E+01					1.5E+02	1.5E+02
Dysprosium	7429-91-6		1.0E-01									3.7E+03	3.7E+03
Endosulfan	115-29-7		6.0E-03		6.0E-03		2.2E+01					2.2E+02	2.2E+02
Endothall	145-73-3		2.0E-02		2.0E-02		7.3E+01					7.3E+02	7.3E+02
Endrin	72-20-8		3.0E-04		3.0E-04		1.1E+00					1.1E+01	1.1E+01
Epichlorohydrin	106-89-8	8.0E-02	2.0E-03	8.0E-02	8.6E-04	8.3E-02	3.1E+00	1.7E-01	8.4E-01	1.4E-01	6.3E+00	7.3E+01	5.8E+00
1,2-Epoxybutane	106-88-7		5.7E-03		5.7E-03		2.1E+01					2.1E+02	2.1E+02
EPTC (S-Ethyl dipropylthiocarbamate)	759-94-4		2.5E-02		2.5E-02		9.1E+01					9.1E+02	9.1E+02
Ethephon (2-chloroethyl phosphonic acid)	16672-87-0		5.0E-03		5.0E-03		1.8E+01					1.8E+02	1.8E+02
Ethion	563-12-2		5.0E-04		5.0E-04		1.8E+00					1.8E+01	1.8E+01
2-Ethoxyethanol	110-80-5		4.0E-01		2.0E-02		7.3E+01					1.5E+04	1.5E+04
2-Ethoxyethanol acetate	111-15-9		3.0E-01		8.6E-02		3.1E+02					1.1E+04	1.1E+04
Ethyl acetate	141-78-6		9.0E-01		9.0E-01		3.3E+03				6.6E+03	3.3E+04	5.5E+03
Ethyl acrylate	140-88-5	4.8E-02		4.8E-02		1.4E-01		2.8E-01	1.4E+00	2.3E-01			
Ethylbenzene	100-41-4	1.1E-02	1.0E-01	8.7E-03	5.7E-01	7.6E-01	2.1E+03	1.5E+00	6.1E+00	1.2E+00	4.2E+03	3.7E+03	1.9E+03
Ethyl chloride	75-00-3	2.9E-03	4.0E-01	2.9E-03	8.6E+00	2.3E+00	3.1E+04	4.6E+00	2.3E+01	3.8E+00	6.3E+04	1.5E+04	1.2E+04
Ethylene cyanohydrin	109-78-4		3.0E-01		3.0E-01		1.1E+03					1.1E+04	1.1E+04
Ethylene diamine	107-15-3		9.0E-02		9.0E-02		3.3E+02					3.3E+03	3.3E+03
Ethylene glycol	107-21-1		2.0E+00		1.1E-01		4.2E+02					7.3E+04	7.3E+04
Ethylene glycol, monobutyl ether	111-76-2		5.0E-01		3.7E+00		1.4E+04					1.8E+04	1.8E+04
Ethylene oxide	75-21-8	3.1E-01		3.1E-01	8.6E-03	2.1E-02	3.1E+01	4.3E-02	2.2E-01	3.6E-02	6.3E+01		6.3E+01
Ethylene thiourea (ETU)	96-45-7	4.5E-02	8.0E-05	4.5E-02	8.0E-05	1.5E-01	2.9E-01		1.5E+00	1.5E+00		2.9E+00	2.9E+00
Ethyl ether	60-29-7		2.0E-01		2.0E-01		7.3E+02				1.5E+03	7.3E+03	1.2E+03
Ethyl methacrylate	97-63-2		9.0E-02		9.0E-02		3.3E+02				6.6E+02	3.3E+03	5.5E+02
Ethyl p-nitrophenyl phenylphosphorothioate	2104-64-5		1.0E-05		1.0E-05		3.7E-02					3.7E-01	3.7E-01
Ethylphthalyl ethyl glycolate	84-72-0		3.0E+00		3.0E+00		1.1E+04					1.1E+05	1.1E+05

Table H-4
PRG Intercalculation Tables for Tap Water and Ambient Air with Updated OEHHA Toxicity Values

CONTAMINANT	CAS	SFo 1/(mg/kg-d)	RfDo (mg/kg-d)	SFi 1/(mg/kg-d)	RfDi (mg/kg-d)	AMBIENT AIR Cancer Risk = 1E-06 (ug/m^3)	AMBIENT AIR Chronic HQ = 1 (ug/m^3)	TAP WATER Cancer Risk = 1E-06 water-inhale (ug/l)	TAP WATER Cancer Risk = 1E-06 water-ingest (ug/l)	TAP WATER Cancer Risk = 1E-06 combined (ug/l)	TAP WATER Chronic HQ = 1 water-inhale (ug/l)	TAP WATER Chronic HQ = 1 water-ingest (ug/l)	TAP WATER Chronic HQ = 1 combined (ug/l)
Express	101200-48-0		8.0E-03		8.0E-03		2.9E+01					2.9E+02	2.9E+02
Fenamiphos	22224-92-6		2.5E-04		2.5E-04		9.1E-01					9.1E+00	9.1E+00
Fluometuron	2164-17-2		1.3E-02		1.3E-02		4.7E+01					4.7E+02	4.7E+02
Fluorine (soluble fluoride)	16984-48-8		6.0E-02		3.7E-03		1.4E+01					2.2E+03	2.2E+03
Fluoridone	59756-60-4		8.0E-02		8.0E-02		2.9E+02					2.9E+03	2.9E+03
Flurprimidol	56425-91-3		2.0E-02		2.0E-02		7.3E+01					7.3E+02	7.3E+02
Flutolanil	66332-96-5		6.0E-02		6.0E-02		2.2E+02					2.2E+03	2.2E+03
Fluvalinate	69409-94-5		1.0E-02		1.0E-02		3.7E+01					3.7E+02	3.7E+02
Folpet	133-07-3	3.5E-03	1.0E-01	3.5E-03	1.0E-01	1.9E+00	3.7E+02		1.9E+01	1.9E+01		3.7E+03	3.7E+03
Fomesafen	72178-02-0	1.9E-01		1.9E-01		3.5E-02			3.5E-01	3.5E-01			
Fonofos	944-22-9		2.0E-03		2.0E-03		7.3E+00					7.3E+01	7.3E+01
Formaldehyde	50-00-0		1.5E-01	2.1E-02	8.6E-04	3.2E-01	3.1E+00					5.5E+03	5.5E+03
Formic Acid	64-18-6		2.0E+00		8.6E-04		3.1E+00					7.3E+04	7.3E+04
Fosetyl-al	39148-24-8		3.0E+00		3.0E+00		1.1E+04					1.1E+05	1.1E+05
Freon 113	76-13-1		3.0E+01		8.6E+00		3.1E+04				6.3E+04	1.1E+06	5.9E+04
Furan	110-00-9		1.0E-03		1.0E-03		3.7E+00				7.3E+00	3.7E+01	6.1E+00
Furazolidone	67-45-8	3.8E+00		3.8E+00		1.7E-03			1.8E-02	1.8E-02			
Furfural	98-01-1		3.0E-03		1.4E-02		5.2E+01					1.1E+02	1.1E+02
Furium	531-82-8	1.5E+00		1.5E+00		4.4E-03			4.5E-02	4.5E-02			
Furmecyclox	60568-05-0	3.0E-02		3.0E-02		2.2E-01			2.2E+00	2.2E+00			
Glufosinate-ammonium	77182-82-2		4.0E-04		4.0E-04		1.5E+00					1.5E+01	1.5E+01
Glycidaldehyde	765-34-4		4.0E-04		2.9E-04		1.0E+00					1.5E+01	1.5E+01
Glyphosate	1071-83-6		1.0E-01		1.0E-01		3.7E+02					3.7E+03	3.7E+03
Haloxyfop-methyl	69806-40-2		5.0E-05		5.0E-05		1.8E-01					1.8E+00	1.8E+00
Harmony	79277-27-3		1.3E-02		1.3E-02		4.7E+01					4.7E+02	4.7E+02
Heptachlor	76-44-8	4.1E+00	5.0E-04	4.1E+00	5.0E-04	1.6E-03	1.8E+00		1.6E-02	1.6E-02		1.8E+01	1.8E+01
Heptachlor epoxide	1024-57-3	5.5E+00	1.3E-05	5.5E+00	1.3E-05	1.2E-03	4.7E-02		1.2E-02	1.2E-02		4.7E-01	4.7E-01
Hexabromobenzene	87-82-1		2.0E-03		2.0E-03		7.3E+00					7.3E+01	7.3E+01
Hexachlorobenzene	118-74-1	1.8E+00	8.0E-04	1.8E+00	8.0E-04	3.7E-03	2.9E+00		3.7E-02	3.7E-02		2.9E+01	2.9E+01
Hexachlorobutadiene	87-68-3	7.8E-02	3.0E-04	7.8E-02	3.0E-04	8.5E-02	1.1E+00		8.6E-01	8.6E-01		1.1E+01	1.1E+01
HCH (alpha)	319-84-6	2.7E+00	5.0E-04	2.7E+00	5.0E-04	2.5E-03	1.8E+00		2.5E-02	2.5E-02		1.8E+01	1.8E+01
HCH (beta)	319-85-7	1.5E+00	2.0E-04	1.5E+00	2.0E-04	4.4E-03	7.3E-01		4.5E-02	4.5E-02		7.3E+00	7.3E+00
HCH (gamma) Lindane	58-89-9	1.1E+00	3.0E-04	1.1E+00	3.0E-04	6.0E-03	1.1E+00		6.1E-02	6.1E-02		1.1E+01	1.1E+01
HCH-technical	608-73-1	4.0E+00		4.0E+00		1.7E-03			1.7E-02	1.7E-02			
Hexachlorocyclopentadiene	77-47-4		6.0E-03		5.7E-05		2.1E-01					2.2E+02	2.2E+02
Hexachloroethane	67-72-1	3.9E-02	1.0E-03	3.9E-02	1.0E-03	1.7E-01	3.7E+00		1.7E+00	1.7E+00		3.7E+01	3.7E+01
Hexachlorophene	70-30-4		3.0E-04		3.0E-04		1.1E+00					1.1E+01	1.1E+01
Hexahydro-1,3,5-trinitro-1,3,5-triazine	121-82-4	1.1E-01	3.0E-03	1.1E-01	3.0E-03	6.0E-02	1.1E+01		6.1E-01	6.1E-01		1.1E+02	1.1E+02
1,6-Hexamethylene diisocyanate	822-06-0		2.9E-06		2.9E-06		1.0E-02					1.0E-01	1.0E-01
n-Hexane	110-54-3		1.1E+01		2.0E+00		7.3E+03				1.5E+04	4.0E+05	1.4E+04
Hexazinone	51235-04-2		3.3E-02		3.3E-02		1.2E+02					1.2E+03	1.2E+03
HMX	2691-41-0		5.0E-02		5.0E-02		1.8E+02					1.8E+03	1.8E+03
Hydrazine, hydrazine sulfate	302-01-2	3.0E+00		1.7E+01	5.7E-05	3.9E-04	2.1E-01		2.2E-02	2.2E-02			
Hydrazine, monomethyl	60-34-4	3.0E+00		1.7E+01		3.9E-04			2.2E-02	2.2E-02			
Hydrazine, dimethyl	57-14-7	3.0E+00		1.7E+01		3.9E-04			2.2E-02	2.2E-02			
Hydrogen chloride	7647-01-0				2.6E-03		9.4E+00						
Hydrogen cyanide	74-90-8		2.0E-02		2.6E-03		9.4E+00				1.9E+01	7.3E+02	1.8E+01
Hydrogen sulfide	7783-06-4		3.0E-03		2.9E-03		1.0E+01					1.1E+02	1.1E+02
p-Hydroquinone	123-31-9	5.6E-02	4.0E-02	5.6E-02	4.0E-02	1.2E-01	1.5E+02		1.2E+00	1.2E+00		1.5E+03	1.5E+03
Imazalil	35554-44-0		1.3E-02		1.3E-02		4.7E+01					4.7E+02	4.7E+02
Imazaquin	81335-37-7		2.5E-01		2.5E-01		9.1E+02					9.1E+03	9.1E+03
Iprodione	36734-19-7		4.0E-02		4.0E-02		1.5E+02					1.5E+03	1.5E+03
Iron	7439-89-6		3.0E-01									1.1E+04	1.1E+04

Table H-4
PRG Intercalculation Tables for Tap Water and Ambient Air with Updated OEHHA Toxicity Values

CONTAMINANT	CAS	SFo 1/(mg/kg-d)	RfDo (mg/kg-d)	SFi 1/(mg/kg-d)	RfDi (mg/kg-d)	AMBIENT AIR: Cancer Risk = 1E-06 (ug/m^3)	AMBIENT AIR: Chronic HQ = 1 (ug/m^3)	TAP WATER: Cancer Risk = 1E-06 water-inhale (ug/l)	TAP WATER: Cancer Risk = 1E-06 water-ingest (ug/l)	TAP WATER: Cancer Risk = 1E-06 combined (ug/l)	TAP WATER: Chronic HQ = 1 water-inhale (ug/l)	TAP WATER: Chronic HQ = 1 water-ingest (ug/l)	TAP WATER: Chronic HQ = 1 combined (ug/l)
Isobutanol	78-83-1		3.0E-01		3.0E-01		1.1E+03				2.2E+03	1.1E+04	1.8E+03
Isophorone	78-59-1	9.5E-04	2.0E-01	9.5E-04	5.7E-01	7.0E+00	2.1E+03		7.1E+01	7.1E+01		7.3E+03	7.3E+03
Isopropalin	33820-53-0		1.5E-02		1.5E-02		5.5E+01					5.5E+02	5.5E+02
Isopropyl methyl phosphonic acid	1832-54-8		1.0E-01		1.1E-01		4.0E+02					3.7E+03	3.7E+03
Isoxaben	82558-50-7		5.0E-02		5.0E-02		1.8E+02					1.8E+03	1.8E+03
Kepone	143-50-0	1.6E+01	2.0E-04	1.6E+01	2.0E-04	4.1E-04	7.3E-01		4.2E-03	4.2E-03		7.3E+00	7.3E+00
Lactofen	77501-63-4		2.0E-03		2.0E-03		7.3E+00					7.3E+01	7.3E+01
Lead+++	7439-92-1	8.5E-03		4.2E-02		1.6E-01			7.9E+00	7.9E+00			
Lead (tetraethyl)	78-00-2		1.0E-07									3.7E-03	3.7E-03
Linuron	330-55-2		2.0E-03		2.0E-03		7.3E+00					7.3E+01	7.3E+01
Lithium	7439-93-2		2.0E-02									7.3E+02	7.3E+02
Londax	83055-99-6		2.0E-01		2.0E-01		7.3E+02					7.3E+03	7.3E+03
Malathion	121-75-5		2.0E-02		2.0E-02		7.3E+01					7.3E+02	7.3E+02
Maleic anhydride	108-31-6		1.0E-01		2.0E-04		7.3E-01					3.7E+03	3.7E+03
Maleic hydrazide	123-33-1		5.0E-01		5.0E-01		1.8E+03				3.7E+03	1.8E+04	3.0E+03
Malononitrile	109-77-3		1.0E-04		1.0E-04		3.7E-01					3.7E+00	3.7E+00
Mancozeb	8018-01-7		3.0E-02		3.0E-02		1.1E+02					1.1E+03	1.1E+03
Maneb	12427-38-2	6.0E-02	5.0E-03	6.0E-02	5.0E-03	1.1E-01	1.8E+01		1.1E+00	1.1E+00		1.8E+02	1.8E+02
Manganese and compounds+++	7439-96-5		2.4E-02		5.7E-05		2.1E-01					8.8E+02	8.8E+02
Mephosfolan	950-10-7		9.0E-05		9.0E-05		3.3E-01					3.3E+00	3.3E+00
Mepiquat chloride	24307-26-4		3.0E-02		3.0E-02		1.1E+02					1.1E+03	1.1E+03
2-Mercaptobenzothiazole	149-30-4	2.9E-02	1.0E-01	2.9E-02	1.0E-01	2.3E-01	3.7E+02		2.3E+00	2.3E+00		3.7E+03	3.7E+03
Mercury and compounds	7487-94-7		3.0E-04		2.6E-05		9.4E-02					1.1E+01	1.1E+01
Mercury (elemental)	7439-97-6				8.6E-05		3.1E-01						
Mercury (methyl)	22967-92-6		1.0E-04									3.7E+00	3.7E+00
Merphos	150-50-5		3.0E-05		3.0E-05		1.1E-01					1.1E+00	1.1E+00
Merphos oxide	78-48-8		3.0E-05		3.0E-05		1.1E-01					1.1E+00	1.1E+00
Metalaxyl	57837-19-1		6.0E-02		6.0E-02		2.2E+02					2.2E+03	2.2E+03
Methacrylonitrile	126-98-7		1.0E-04		2.0E-04		7.3E-01				1.5E+00	3.7E+00	1.0E+00
Methamidophos	10265-92-6		5.0E-05		5.0E-05		1.8E-01					1.8E+00	1.8E+00
Methanol	67-56-1		5.0E-01		1.1E+00		4.2E+03					1.8E+04	1.8E+04
Methidathion	950-37-8		1.0E-03		1.0E-03		3.7E+00					3.7E+01	3.7E+01
Methomyl	16752-77-5		2.5E-02		2.5E-02		9.1E+01				1.8E+02	9.1E+02	1.5E+02
Methoxychlor	72-43-5		5.0E-03		5.0E-03		1.8E+01					1.8E+02	1.8E+02
2-Methoxyethanol	109-86-4		1.0E-03		1.7E-02		6.3E+01					3.7E+01	3.7E+01
2-Methoxyethanol acetate	110-49-6		2.0E-03		2.6E-02		9.4E+01					7.3E+01	7.3E+01
2-Methoxy-5-nitroaniline	99-59-2	4.9E-02		4.9E-02		1.4E-01			1.4E+00	1.4E+00			
Methyl acetate	79-20-9		1.0E+00		1.0E+00		3.7E+03				7.3E+03	3.7E+04	6.1E+03
Methyl acrylate	96-33-3		3.0E-02		3.0E-02		1.1E+02				2.2E+02	1.1E+03	1.8E+02
2-Methylaniline (o-toluidine)	95-53-4	1.8E-01		1.8E-01		3.7E-02			3.7E-01	3.7E-01			
2-Methylaniline hydrochloride	636-21-5	1.3E-01		1.3E-01		5.1E-02			5.2E-01	5.2E-01			
2-Methyl-4-chlorophenoxyacetic acid	94-74-6		5.0E-04		5.0E-04		1.8E+00					1.8E+01	1.8E+01
4-(2-Methyl-4-chlorophenoxy) butyric acid	94-81-5		1.0E-02		1.0E-02		3.7E+01					3.7E+02	3.7E+02
2-(2-Methyl-4-chlorophenoxy) propionic acid	93-65-2		1.0E-03		1.0E-03		3.7E+00					3.7E+01	3.7E+01
2-(2-Methyl-1,4-chlorophenoxy) propionic acid	16484-77-8		1.0E-03		1.0E-03		3.7E+00					3.7E+01	3.7E+01
Methylcyclohexane	108-87-2		8.6E-01		8.6E-01		3.1E+03				6.3E+03	3.1E+04	5.2E+03
4,4'-Methylenebisbenzeneamine	101-77-9	1.6E+00		1.6E+00	5.7E-03	4.1E-03	2.1E+01		4.2E-02	4.2E-02			
4,4'-Methylene bis(2-chloroaniline)	101-14-4	1.5E+00	7.0E-04	1.5E+00	7.0E-04	4.4E-03	2.6E+00		4.5E-02	4.5E-02		2.6E+01	2.6E+01
4,4'-Methylene bis(N,N'-dimethyl)aniline	101-61-1	4.6E-02		4.6E-02		1.4E-01			1.5E+00	1.5E+00			
Methylene bromide	74-95-3		1.0E-02		1.0E-02		3.7E+01				7.3E+01	3.7E+02	6.1E+01
Methylene chloride	75-09-2	1.4E-02	6.0E-02	3.5E-03	1.1E-01	1.9E+00	4.2E+02	3.8E+00	4.8E+00	2.1E+00	8.3E+02	2.2E+03	6.0E+02
4,4'-Methylene diphenyl diisocyanate	101-68-8		1.7E-04		2.0E-04		7.3E-01					6.2E+00	6.2E+00

Table H-4
PRG Intercalculation Tables for Tap Water and Ambient Air with Updated OEHHA Toxicity Values

CONTAMINANT	CAS	SFo 1/(mg/kg-d)	RfDo (mg/kg-d)	SFi 1/(mg/kg-d)	RfDi (mg/kg-d)	AMBIENT AIR: Cancer Risk = 1E-06 (ug/m3)	AMBIENT AIR: Chronic HQ = 1 (ug/m3)	TAP WATER: Cancer Risk = 1E-06 water-inhale (ug/l)	TAP WATER: Cancer Risk = 1E-06 water-ingest (ug/l)	TAP WATER: Cancer Risk = 1E-06 combined (ug/l)	TAP WATER: Chronic HQ = 1 water-inhale (ug/l)	TAP WATER: Chronic HQ = 1 water-ingest (ug/l)	TAP WATER: Chronic HQ = 1 combined (ug/l)
2-Methylnapthalene	91-57-6		4.0E-03									1.5E+02	1.5E+02
Methyl ethyl ketone (2-Butanone)	78-93-3		6.0E-01		1.4E+00		5.1E+03				1.0E+04	2.2E+04	7.0E+03
Methyl isobutyl ketone	108-10-1		8.0E-02		8.6E-01		3.1E+03				6.3E+03	2.9E+03	2.0E+03
Methyl mercaptan	74-93-1		5.7E-04		5.7E-04		2.1E+00					2.1E+01	2.1E+01
Methyl methacrylate	80-62-6		1.4E+00		2.0E-01		7.3E+02				1.5E+03	5.1E+04	1.4E+03
2-Methyl-5-nitroaniline	99-55-8	3.3E-02		3.3E-02		2.0E-01			2.0E+00	2.0E+00			
Methyl parathion	298-00-0		2.5E-04		2.5E-04		9.1E-01					9.1E+00	9.1E+00
2-Methylphenol	95-48-7		5.0E-02		5.0E-02		1.8E+02					1.8E+03	1.8E+03
3-Methylphenol	108-39-4		5.0E-02		5.0E-02		1.8E+02					1.8E+03	1.8E+03
4-Methylphenol	106-44-5		5.0E-03		5.0E-03		1.8E+01					1.8E+02	1.8E+02
Methyl phosphonic acid	993-13-5		2.0E-02		2.0E-02		7.3E+01					7.3E+02	7.3E+02
Methyl styrene (mixture)	25013-15-4		6.0E-03		1.1E-02		4.2E+01				8.3E+01	2.2E+02	6.0E+01
Methyl styrene (alpha)	98-83-9		7.0E-02		7.0E-02		2.6E+02				5.1E+02	2.6E+03	4.3E+02
Methyl tertbutyl ether (MTBE)	1634-04-4	1.8E-03	8.6E-01	9.1E-04	2.3E+00	7.3E+00	8.3E+03	1.5E+01	3.7E+01	1.0E+01	1.7E+04	3.1E+04	1.1E+04
Metolaclor (Dual)	51218-45-2		1.5E-01		1.5E-01		5.5E+02					5.5E+03	5.5E+03
Metribuzin	21087-64-9		2.5E-02		2.5E-02		9.1E+01					9.1E+02	9.1E+02
Mirex	2385-85-5	1.8E+01	2.0E-04	1.8E+01	2.0E-04	3.7E-04	7.3E-01		3.7E-03	3.7E-03		7.3E+00	7.3E+00
Molinate	2212-67-1		2.0E-03		2.0E-03		7.3E+00					7.3E+01	7.3E+01
Molybdenum	7439-98-7		5.0E-03									1.8E+02	1.8E+02
Monochloramine	10599-90-3		1.0E-01		1.0E-01		3.7E+02					3.7E+03	3.7E+03
Naled	300-76-5		2.0E-03		2.0E-03		7.3E+00					7.3E+01	7.3E+01
Napropamide	15299-99-7		1.0E-01		1.0E-01		3.7E+02					3.7E+03	3.7E+03
Nickel (soluble salts)	7440-02-0		2.0E-02	9.1E-01	1.4E-05	7.3E-03	5.2E-02					7.3E+02	7.3E+02
Nickel subsulfide	12035-72-2	1.7E+00		1.7E+00		3.9E-03			4.0E-02	4.0E-02			
Nitrate+++	14797-55-8	Based on Infant N							#VALUE!	#VALUE!			
Nitrite+++	14797-65-0	Based on Infant N							#VALUE!	#VALUE!			
2-Nitroaniline	88-74-4		3.0E-03		3.0E-05		1.1E-01					1.1E+02	1.1E+02
3-Nitroaniline	99-09-2	2.1E-02	3.0E-04	2.1E-02	3.0E-04	3.2E-01	1.1E+00		3.2E+00	3.2E+00		1.1E+01	1.1E+01
4-Nitroaniline	100-01-6	2.1E-02	3.0E-03	2.1E-02	1.0E-03	3.2E-01	3.7E+00		3.2E+00	3.2E+00		1.1E+02	1.1E+02
Nitrobenzene	98-95-3		5.0E-04		5.7E-04		2.1E+00				4.2E+00	1.8E+01	3.4E+00
Nitrofurantoin	67-20-9		7.0E-02		7.0E-02		2.6E+02					2.6E+03	2.6E+03
Nitrofurazone	59-87-0	1.3E+00		1.3E+00		5.1E-03			5.2E-02	5.2E-02			
Nitroglycerin	55-63-0	1.4E-02		1.4E-02		4.7E-01			4.8E+00	4.8E+00			
Nitroguanidine	556-88-7		1.0E-01		1.0E-01		3.7E+02					3.7E+03	3.7E+03
2-Nitropropane	79-46-9	9.4E+00	5.7E-03	9.4E+00	5.7E-03	7.1E-04	2.1E+01		7.2E-03	7.2E-03		2.1E+02	2.1E+02
N-Nitrosodi-n-butylamine	924-16-3	1.1E+01		1.1E+01		6.0E-04		1.2E-03	6.1E-03	1.0E-03			
N-Nitrosodiethanolamine	1116-54-7	2.8E+00		2.8E+00		2.4E-03			2.4E-02	2.4E-02			
N-Nitrosodiethylamine	55-18-5	3.6E+01		3.6E+01		1.8E-04			1.9E-03	1.9E-03			
N-Nitrosodimethylamine	62-75-9	1.6E+01	8.0E-06	1.6E+01	8.0E-06	4.1E-04	2.9E-02		4.2E-03	4.2E-03		2.9E-01	2.9E-01
N-Nitrosodiphenylamine	86-30-6	9.0E-03	2.0E-02	9.0E-03	2.0E-02	7.4E-01	7.3E+01		7.5E+00	7.5E+00		7.3E+02	7.3E+02
N-Nitroso di-n-propylamine	621-64-7	7.0E+00		7.0E+00		9.5E-04			9.6E-03	9.6E-03			
N-Nitroso-N-methylethylamine	10595-95-6	2.2E+01		2.2E+01		3.0E-04			3.1E-03	3.1E-03			
N-Nitrosopyrrolidine	930-55-2	2.1E+00		2.1E+00		3.2E-03			3.2E-02	3.2E-02			
m-Nitrotoluene	99-08-1		2.0E-02		2.0E-02		7.3E+01				1.5E+02	7.3E+02	1.2E+02
o-Nitrotoluene	88-72-2	2.3E-01	1.0E-02	2.3E-01	1.0E-02	2.9E-02	3.7E+01	5.8E-02	2.9E-01	4.8E-02	7.3E+01	3.7E+02	6.1E+01
p-Nitrotoluene	99-99-0	1.7E-02	1.0E-02	1.7E-02	1.0E-02	3.9E-01	3.7E+01	7.8E-01	4.0E+00	6.5E-01	7.3E+01	3.7E+02	6.1E+01
Norflurazon	27314-13-2		4.0E-02		4.0E-02		1.5E+02					1.5E+03	1.5E+03
NuStar	85509-19-9		7.0E-04		7.0E-04		2.6E+00					2.6E+01	2.6E+01
Octabromodiphenyl ether	32536-52-0		3.0E-03		3.0E-03		1.1E+01					1.1E+02	1.1E+02
Octamethylpyrophosphoramide	152-16-9		2.0E-03		2.0E-03		7.3E+00					7.3E+01	7.3E+01
Oryzalin	19044-88-3		5.0E-02		5.0E-02		1.8E+02					1.8E+03	1.8E+03
Oxadiazon	19666-30-9		5.0E-03		5.0E-03		1.8E+01					1.8E+02	1.8E+02
Oxamyl	23135-22-0		2.5E-02		2.5E-02		9.1E+01					9.1E+02	9.1E+02

Table H-4
PRG Intercalculation Tables for Tap Water and Ambient Air with Updated OEHHA Toxicity Values

CONTAMINANT	CAS	SFo 1/(mg/kg-d)	RfDo (mg/kg-d)	SFi 1/(mg/kg-d)	RfDi (mg/kg-d)	AMBIENT AIR Cancer Risk = 1E-06 (ug/m3)	AMBIENT AIR Chronic HQ = 1 (ug/m3)	TAP WATER Cancer Risk = 1E-06 water-inhale (ug/l)	TAP WATER Cancer Risk = 1E-06 water-ingest (ug/l)	TAP WATER Cancer Risk = 1E-06 combined (ug/l)	TAP WATER Chronic HQ = 1 water-inhale (ug/l)	TAP WATER Chronic HQ = 1 water-ingest (ug/l)	TAP WATER Chronic HQ = 1 combined (ug/l)
Oxyfluorfen	42874-03-3		3.0E-03		3.0E-03		1.1E+01					1.1E+02	1.1E+02
Paclobutrazol	76738-62-0		1.3E-02		1.3E-02		4.7E+01					4.7E+02	4.7E+02
Paraquat	4685-14-7		4.5E-03		4.5E-03		1.6E+01					1.6E+02	1.6E+02
Parathion	56-38-2		6.0E-03		6.0E-03		2.2E+01					2.2E+02	2.2E+02
Pebulate	1114-71-2		5.0E-02		5.0E-02		1.8E+02					1.8E+03	1.8E+03
Pendimethalin	40487-42-1		4.0E-02		4.0E-02		1.5E+02					1.5E+03	1.5E+03
Pentabromo-6-chloro cyclohexane	87-84-3	2.3E-02		2.3E-02		2.9E-01			2.9E+00	2.9E+00			
Pentabromodiphenyl ether	32534-81-9		2.0E-03		2.0E-03		7.3E+00					7.3E+01	7.3E+01
Pentachlorobenzene	608-93-5		8.0E-04		8.0E-04		2.9E+00					2.9E+01	2.9E+01
Pentachloronitrobenzene	82-68-8	2.6E-01	3.0E-03	2.6E-01	3.0E-03	2.6E-02	1.1E+01		2.6E-01	2.6E-01		1.1E+02	1.1E+02
Pentachlorophenol	87-86-5	8.1E-02	3.0E-02	1.8E-02	3.0E-02	3.7E-01	1.1E+02		8.3E-01	8.3E-01		1.1E+03	1.1E+03
Perchlorate	7601-90-3		1.0E-04									3.7E+00	3.7E+00
Permethrin	52645-53-1		5.0E-02		5.0E-02		1.8E+02					1.8E+03	1.8E+03
Phenmedipham	13684-63-4		2.5E-01		2.5E-01		9.1E+02					9.1E+03	9.1E+03
Phenol	108-95-2		3.0E-01		5.7E-02		2.1E+02					1.1E+04	1.1E+04
Phenothiazine	92-84-2		2.0E-03		2.0E-03		7.3E+00					7.3E+01	7.3E+01
m-Phenylenediamine	108-45-2		6.0E-03		6.0E-03		2.2E+01					2.2E+02	2.2E+02
o-Phenylenediamine	95-54-5	4.7E-02		4.7E-02		1.4E-01			1.4E+00	1.4E+00			
p-Phenylenediamine	106-50-3		1.9E-01		1.9E-01		6.9E+02					6.9E+03	6.9E+03
Phenylmercuric acetate	62-38-4		8.0E-05		8.0E-05		2.9E-01					2.9E+00	2.9E+00
2-Phenylphenol	90-43-7	1.9E-03		1.9E-03		3.5E+00			3.5E+01	3.5E+01			
Phorate	298-02-2		2.0E-04		2.0E-04		7.3E-01					7.3E+00	7.3E+00
Phosmet	732-11-6		2.0E-02		2.0E-02		7.3E+01					7.3E+02	7.3E+02
Phosphine	7803-51-2		3.0E-04		2.3E-04		8.3E-01					1.1E+01	1.1E+01
Phosphoric acid	7664-38-2				2.0E-03		7.3E+00						
Phosphorus (white)	7723-14-0		2.0E-05									7.3E-01	7.3E-01
p-Phthalic acid	100-21-0		1.0E+00		1.0E+00		3.7E+03					3.7E+04	3.7E+04
Phthalic anhydride	85-44-9		2.0E+00		5.7E-03		2.1E+01					7.3E+04	7.3E+04
Picloram	1918-02-1		7.0E-02		7.0E-02		2.6E+02					2.6E+03	2.6E+03
Pirimiphos-methyl	29232-93-7		1.0E-02		1.0E-02		3.7E+01					3.7E+02	3.7E+02
Polybrominated biphenyls	PBB	3.0E+01	7.0E-06	3.0E+01	7.0E-06	2.2E-04	2.6E-02		2.2E-03	2.2E-03		2.6E-01	2.6E-01
PCBs (unspeciated mixture, high risk, e.g. Aroclor 1254)	11097-69-1	2.0E+00	2.0E-05	2.0E+00	2.0E-05	3.3E-03	7.3E-02		3.4E-02	3.4E-02		7.3E-01	7.3E-01
Polychlorinated terphenyls	61788-33-8	4.5E+00		4.5E+00		1.5E-03			1.5E-02	1.5E-02			
Polynuclear aromatic hydrocarbons													
Acenaphthene	83-32-9		6.0E-02		6.0E-02		2.2E+02				4.4E+02	2.2E+03	3.7E+02
Anthracene	120-12-7		3.0E-01		3.0E-01		1.1E+03				2.2E+03	1.1E+04	1.8E+03
Benz[a]anthracene	56-55-3	1.2E+00		3.9E-01		1.7E-02			5.6E-02	5.6E-02			
Benzo[b]fluoranthene	205-99-2	1.2E+00		3.9E-01		1.7E-02			5.6E-02	5.6E-02			
Benzo[k]fluoranthene	207-08-9	1.2E+00		3.9E-01		1.7E-02			5.6E-02	5.6E-02			
Benzo[a]pyrene	50-32-8	1.2E+01		3.9E+00		1.7E-03			5.6E-03	5.6E-03			
Chrysene	218-01-9	1.2E-01		3.9E-02		1.7E-01		3.4E-01	5.6E-01	2.1E-01			
Dibenz[ah]anthracene	53-70-3	4.1E+00		4.1E+00		1.6E-03			1.6E-02	1.6E-02			
Fluoranthene	206-44-0		4.0E-02		4.0E-02		1.5E+02					1.5E+03	1.5E+03
Fluorene	86-73-7		4.0E-02		4.0E-02		1.5E+02				2.9E+02	1.5E+03	2.4E+02
Indeno[1,2,3-cd]pyrene	193-39-5	1.2E+00		3.9E-01		1.7E-02			5.6E-02	5.6E-02			
Naphthalene	91-20-3	1.2E-01	2.0E-02	1.2E-01	2.6E-03	5.5E-02	9.4E+00	1.1E-01	5.6E-01	9.2E-02	1.9E+01	7.3E+02	1.8E+01
Pyrene	129-00-0		3.0E-02		3.0E-02		1.1E+02				2.2E+02	1.1E+03	1.8E+02
Prochloraz	67747-09-5	1.5E-01	9.0E-03	1.5E-01	9.0E-03	4.4E-02	3.3E+01		4.5E-01	4.5E-01		3.3E+02	3.3E+02
Profluralin	26399-36-0		6.0E-03		6.0E-03		2.2E+01					2.2E+02	2.2E+02
Prometon	1610-18-0		1.5E-02		1.5E-02		5.5E+01					5.5E+02	5.5E+02
Prometryn	7287-19-6		4.0E-03		4.0E-03		1.5E+01					1.5E+02	1.5E+02
Pronamide	23950-58-5		7.5E-02		7.5E-02		2.7E+02					2.7E+03	2.7E+03
Propachlor	1918-16-7		1.3E-02		1.3E-02		4.7E+01					4.7E+02	4.7E+02

Table H-4
PRG Intercalculation Tables for Tap Water and Ambient Air with Updated OEHHA Toxicity Values

CONTAMINANT	CAS	SFo 1/(mg/kg-d)	RfDo (mg/kg-d)	SFi 1/(mg/kg-d)	RfDi (mg/kg-d)	AMBIENT AIR: Cancer Risk = 1E-06 (ug/m^3)	AMBIENT AIR: Chronic HQ = 1 (ug/m^3)	TAP WATER: Cancer Risk = 1E-06 water-inhale (ug/l)	TAP WATER: Cancer Risk = 1E-06 water-ingest (ug/l)	TAP WATER: Cancer Risk = 1E-06 combined (ug/l)	TAP WATER: Chronic HQ = 1 water-inhale (ug/l)	TAP WATER: Chronic HQ = 1 water-ingest (ug/l)	TAP WATER: Chronic HQ = 1 combined (ug/l)
Propanil	709-98-8		5.0E-03		5.0E-03		1.8E+01					1.8E+02	1.8E+02
Propargite	2312-35-8		2.0E-02		2.0E-02		7.3E+01					7.3E+02	7.3E+02
Propargyl alcohol	107-19-7		2.0E-03		2.0E-03		7.3E+00					7.3E+01	7.3E+01
Propazine	139-40-2		2.0E-02		2.0E-02		7.3E+01					7.3E+02	7.3E+02
Propham	122-42-9		2.0E-02		2.0E-02		7.3E+01					7.3E+02	7.3E+02
Propiconazole	60207-90-1		1.3E-02		1.3E-02		4.7E+01					4.7E+02	4.7E+02
Isopropylbenzene (see cumene)	98-82-8		1.0E-01		1.1E-01		4.0E+02				8.0E+02	3.7E+03	6.6E+02
n-Propylbenzene	103-65-1		4.0E-02		4.0E-02		1.5E+02				2.9E+02	1.5E+03	2.4E+02
Propylene glycol	57-55-6		5.0E-01		8.6E-04		3.1E+00					1.8E+04	1.8E+04
Propylene glycol, monoethyl ether	52125-53-8		7.0E-01		7.0E-01		2.6E+03					2.6E+04	2.6E+04
Propylene glycol, monomethyl ether	107-98-2		7.0E-01		2.0E+00		7.3E+03					2.6E+04	2.6E+04
Propylene oxide	75-56-9	2.4E-01	8.6E-03	1.3E-02	8.6E-03	5.1E-01	3.1E+01	1.0E+00	2.8E-01	2.2E-01	6.3E+01	3.1E+02	5.2E+01
Pursuit	81335-77-5		2.5E-01		2.5E-01		9.1E+02					9.1E+03	9.1E+03
Pydrin	51630-58-1		2.5E-02		2.5E-02		9.1E+01					9.1E+02	9.1E+02
Pyridine	110-86-1		1.0E-03		1.0E-03		3.7E+00					3.7E+01	3.7E+01
Quinalphos	13593-03-8		5.0E-04		5.0E-04		1.8E+00					1.8E+01	1.8E+01
Quinoline	91-22-5	3.0E+00		3.0E+00		2.2E-03			2.2E-02	2.2E-02			
RDX (Cyclonite)	121-82-4	1.1E-01	3.0E-03	1.1E-01	3.0E-03	6.0E-02	1.1E+01		6.1E-01	6.1E-01		1.1E+02	1.1E+02
Resmethrin	10453-86-8		3.0E-02		3.0E-02		1.1E+02					1.1E+03	1.1E+03
Ronnel	299-84-3		5.0E-02		5.0E-02		1.8E+02					1.8E+03	1.8E+03
Rotenone	83-79-4		4.0E-03		4.0E-03		1.5E+01					1.5E+02	1.5E+02
Savey	78587-05-0		2.5E-02		2.5E-02		9.1E+01					9.1E+02	9.1E+02
Selenious Acid	7783-00-8		5.0E-03									1.8E+02	1.8E+02
Selenium	7782-49-2		5.0E-03		5.7E-03		2.1E+01					1.8E+02	1.8E+02
Selenourea	630-10-4		5.0E-03									1.8E+02	1.8E+02
Sethoxydim	74051-80-2		9.0E-02		9.0E-02		3.3E+02					3.3E+03	3.3E+03
Silver and compounds	7440-22-4		5.0E-03									1.8E+02	1.8E+02
Simazine	122-34-9	1.2E-01	5.0E-03	1.2E-01	5.0E-03	5.5E-02	1.8E+01		5.6E-01	5.6E-01		1.8E+02	1.8E+02
Sodium azide	26628-22-8		4.0E-03									1.5E+02	1.5E+02
Sodium diethyldithiocarbamate	148-18-5	2.7E-01	3.0E-02	2.7E-01	3.0E-02	2.5E-02	1.1E+02		2.5E-01	2.5E-01		1.1E+03	1.1E+03
Sodium fluoroacetate	62-74-8		2.0E-05		2.0E-05		7.3E-02					7.3E-01	7.3E-01
Sodium metavanadate	13718-26-8		1.0E-03		1.0E-03		3.7E+00					3.7E+01	3.7E+01
Strontium, stable	7440-24-6		6.0E-01									2.2E+04	2.2E+04
Strychnine	57-24-9		3.0E-04		3.0E-04		1.1E+00					1.1E+01	1.1E+01
Styrene	100-42-5		2.0E-01		2.6E-01		9.4E+02				1.9E+03	7.3E+03	1.5E+03
1,1'-Sulfonylbis (4-chlorobenzene)	80-07-9		5.0E-03		5.0E-03		1.8E+01					1.8E+02	1.8E+02
Systhane	88671-89-0		2.5E-02		2.5E-02		9.1E+01					9.1E+02	9.1E+02
2,3,7,8-TCDD (dioxin)	1746-01-6	1.3E+05		1.3E+05	1.1E-08	5.1E-08	4.2E-05		5.2E-07	5.2E-07			
Tebuthiuron	34014-18-1		7.0E-02		7.0E-02		2.6E+02					2.6E+03	2.6E+03
Temephos	3383-96-8		2.0E-02		2.0E-02		7.3E+01					7.3E+02	7.3E+02
Terbacil	5902-51-2		1.3E-02		1.3E-02		4.7E+01					4.7E+02	4.7E+02
Terbufos	13071-79-9		2.5E-05		2.5E-05		9.1E-02					9.1E-01	9.1E-01
Terbutryn	886-50-0		1.0E-03		1.0E-03		3.7E+00					3.7E+01	3.7E+01
1,2,4,5-Tetrachlorobenzene	95-94-3		3.0E-04		3.0E-04		1.1E+00					1.1E+01	1.1E+01
1,1,1,2-Tetrachloroethane	630-20-6	2.6E-02	3.0E-02	2.6E-02	3.0E-02	2.6E-01	1.1E+02	5.1E-01	2.6E+00	4.3E-01	2.2E+02	1.1E+03	1.8E+02
1,1,2,2-Tetrachloroethane	79-34-5	2.7E-01	6.0E-02	2.0E-01	6.0E-02	3.3E-02	2.2E+02	6.6E-02	2.5E-01	5.2E-02	4.4E+02	2.2E+03	3.7E+02
Tetrachloroethylene (PCE)	127-18-4	5.4E-01	1.0E-02	2.1E-02	1.0E-02	3.2E-01	3.7E+01	6.3E-01	1.2E-01	1.0E-01	7.3E+01	3.7E+02	6.1E+01
2,3,4,6-Tetrachlorophenol	58-90-2		3.0E-02		3.0E-02		1.1E+02					1.1E+03	1.1E+03
p,a,a,a-Tetrachlorotoluene	5216-25-1	2.0E+01		2.0E+01		3.3E-04			3.4E-03	3.4E-03			
Tetrachlorovinphos	961-11-5	2.4E-02	3.0E-02	2.4E-02	3.0E-02	2.8E-01	1.1E+02		2.8E+00	2.8E+00		1.1E+03	1.1E+03
Tetraethyldithiopyrophosphate	3689-24-5		5.0E-04		5.0E-04		1.8E+00					1.8E+01	1.8E+01
Tetrahydrofuran	109-99-9	7.6E-03	2.1E-01	6.8E-03	8.6E-02	9.8E-01	3.1E+02	2.0E+00	8.8E+00	1.6E+00	6.3E+02	7.7E+03	5.8E+02
Thallium and compounds+++	7440-28-0		6.6E-05									2.4E+00	2.4E+00

Table H-4
PRG Intercalculation Tables for Tap Water and Ambient Air with Updated OEHHA Toxicity Values

CONTAMINANT	CAS	SFo 1/(mg/kg-d)	RfDo (mg/kg-d)	SFi 1/(mg/kg-d)	RfDi (mg/kg-d)	AMBIENT AIR Cancer Risk = 1E-06 (ug/m3)	AMBIENT AIR Chronic HQ = 1 (ug/m3)	TAP WATER Cancer Risk = 1E-06 water-inhale (ug/l)	TAP WATER Cancer Risk = 1E-06 water-ingest (ug/l)	TAP WATER Cancer Risk = 1E-06 combined (ug/l)	TAP WATER Chronic HQ = 1 water-inhale (ug/l)	TAP WATER Chronic HQ = 1 water-ingest (ug/l)	TAP WATER Chronic HQ = 1 combined (ug/l)
Thiobencarb	28249-77-6		1.0E-02		1.0E-02		3.7E+01					3.7E+02	3.7E+02
Thiocyanate	N/A		5.0E-02		5.0E-02		1.8E+02					1.8E+03	1.8E+03
Thiofanox	39196-18-4		3.0E-04		3.0E-04		1.1E+00					1.1E+01	1.1E+01
Thiophanate-methyl	23564-05-8		8.0E-02		8.0E-02		2.9E+02					2.9E+03	2.9E+03
Thiram	137-26-8		5.0E-03		5.0E-03		1.8E+01					1.8E+02	1.8E+02
Tin (inorganic, also see tributyltin oxide)	7440-31-5		6.0E-01									2.2E+04	2.2E+04
Titanium	7440-32-6		4.0E+00		8.6E-03		3.1E+01					1.5E+05	1.5E+05
Toluene	108-88-3		2.0E-01		8.6E-02		3.1E+02				6.3E+02	7.3E+03	5.8E+02
Toluene-2,4-diamine	95-80-7	3.8E+00		4.0E+00		1.7E-03			1.8E-02	1.8E-02			
Toluene-2,5-diamine	95-70-5		6.0E-01		6.0E-01		2.2E+03					2.2E+04	2.2E+04
Toluene-2,6-diamine	823-40-5		2.0E-01		2.0E-01		7.3E+02					7.3E+03	7.3E+03
p-Toluidine	106-49-0	1.9E-01		1.9E-01		3.5E-02			3.5E-01	3.5E-01			
Toxaphene	8001-35-2	1.2E+00		1.2E+00		5.5E-03			5.6E-02	5.6E-02			
Tralomethrin	66841-25-6		7.5E-03		7.5E-03		2.7E+01					2.7E+02	2.7E+02
Triallate	2303-17-5		1.3E-02		1.3E-02		4.7E+01					4.7E+02	4.7E+02
Triasulfuron	82097-50-5		1.0E-02		1.0E-02		3.7E+01					3.7E+02	3.7E+02
1,2,4-Tribromobenzene	615-54-3		5.0E-03		5.0E-03		1.8E+01					1.8E+02	1.8E+02
Tributyl phosphate	126-73-8	9.2E-03	2.0E-01	9.2E-03	2.0E-01	7.2E-01	7.3E+02		7.3E+00	7.3E+00		7.3E+03	7.3E+03
Tributyltin oxide (TBTO)	56-35-9		3.0E-04									1.1E+01	1.1E+01
2,4,6-Trichloroaniline	634-93-5	3.4E-02		3.4E-02		2.0E-01			2.0E+00	2.0E+00			
2,4,6-Trichloroaniline hydrochloride	33663-50-2	2.9E-02		2.9E-02		2.3E-01			2.3E+00	2.3E+00			
1,2,4-Trichlorobenzene	120-82-1	3.6E-03	1.0E-02		1.0E-03		3.7E+00		1.9E+01	1.9E+01	7.3E+00	3.7E+02	7.2E+00
1,1,1-Trichloroethane	71-55-6		2.8E-01		2.9E-01		1.0E+03				2.1E+03	1.0E+04	1.7E+03
1,1,2-Trichloroethane	79-00-5	7.2E-02	4.0E-03	5.7E-02	4.0E-03	1.2E-01	1.5E+01	2.3E-01	9.3E-01	1.9E-01	2.9E+01	1.5E+02	2.4E+01
Trichloroethylene (TCE)	79-01-6	1.3E-02	3.0E-04	7.0E-03	1.7E-01	9.5E-01	6.3E+02	1.9E+00	5.2E+00	1.4E+00	1.3E+03	1.1E+01	1.1E+01
Trichlorofluoromethane	75-69-4		3.0E-01		2.0E-01		7.3E+02				1.5E+03	1.1E+04	1.3E+03
2,4,5-Trichlorophenol	95-95-4		1.0E-01		1.0E-01		3.7E+02					3.7E+03	3.7E+03
2,4,6-Trichlorophenol	88-06-2	7.0E-02	1.0E-04	7.0E-02	1.0E-04	9.5E-02	3.7E-01		9.6E-01	9.6E-01		3.7E+00	3.7E+00
2,4,5-Trichlorophenoxyacetic Acid	93-76-5		1.0E-02		1.0E-02		3.7E+01					3.7E+02	3.7E+02
2-(2,4,5-Trichlorophenoxy) propionic acid	93-72-1		8.0E-03		8.0E-03		2.9E+01					2.9E+02	2.9E+02
1,1,2-Trichloropropane	598-77-6		5.0E-03		5.0E-03		1.8E+01				3.7E+01	1.8E+02	3.0E+01
1,2,3-Trichloropropane	96-18-4	2.0E+00	6.0E-03	2.0E+00	1.4E-03	3.3E-03	5.1E+00	6.6E-03	3.4E-02	5.5E-03	1.0E+01	2.2E+02	9.8E+00
1,2,3-Trichloropropene	96-19-5		1.0E-02		3.0E-04		1.1E+00				2.2E+00	3.7E+02	2.2E+00
Tridiphane	58138-08-2		3.0E-03		3.0E-03		1.1E+01					1.1E+02	1.1E+02
Triethylamine	121-44-8		2.0E-03		5.7E-02		2.1E+02				4.2E+02	7.3E+01	6.2E+01
Trifluralin	1582-09-8	7.7E-03	7.5E-03	7.7E-03	7.5E-03	8.6E-01	2.7E+01		8.7E+00	8.7E+00		2.7E+02	2.7E+02
Trimellitic Anhydride (TMAN)	552-30-7		1.4E-04		1.4E-04		5.1E-01					5.1E+00	5.1E+00
1,2,4-Trimethylbenzene	95-63-6		5.0E-02		1.7E-03		6.2E+00				1.2E+01	1.8E+03	1.2E+01
1,3,5-Trimethylbenzene	108-67-8		5.0E-02		1.7E-03		6.2E+00				1.2E+01	1.8E+03	1.2E+01
Trimethyl phosphate	512-56-1	3.7E-02		3.7E-02		1.8E-01			1.8E+00	1.8E+00			
1,3,5-Trinitrobenzene	99-35-4		3.0E-02		3.0E-02		1.1E+02					1.1E+03	1.1E+03
Trinitrophenylmethylnitramine	479-45-8		1.0E-02		1.0E-02		3.7E+01					3.7E+02	3.7E+02
2,4,6-Trinitrotoluene	118-96-7	3.0E-02	5.0E-04	3.0E-02	5.0E-04	2.2E-01	1.8E+00		2.2E+00	2.2E+00		1.8E+01	1.8E+01
Triphenylphosphine oxide	791-28-6		2.0E-02		2.0E-02		7.3E+01					7.3E+02	7.3E+02
Tris(2-chloroethyl) phosphate	115-96-8	1.4E-02	3.1E-01	1.4E-02	3.1E-01	4.7E-01	1.1E+03		4.8E+00	4.8E+00		1.1E+04	1.1E+04
Tris(2-ethylhexyl) phosphate	78-42-2	3.2E-03	1.0E-01	3.2E-03	1.0E-01	2.1E+00	3.7E+02		2.1E+01	2.1E+01		3.7E+03	3.7E+03
Uranium (chemical toxicity only)	7440-61-1		2.0E-04									7.3E+00	7.3E+00
Vanadium and compounds	7440-62-2		1.0E-03									3.7E+01	3.7E+01
Vernam	1929-77-7		1.0E-03		1.0E-03		3.7E+00					3.7E+01	3.7E+01
Vinclozolin	50471-44-8		2.5E-02		2.5E-02		9.1E+01					9.1E+02	9.1E+02
Vinyl acetate	108-05-4		1.0E+00		5.7E-02		2.1E+02				4.2E+02	3.7E+04	4.1E+02
Vinyl bromide (bromoethene)	593-60-2	1.1E-01	8.6E-04	1.1E-01	8.6E-04	6.0E-02	3.1E+00	1.2E-01	6.1E-01	1.0E-01	6.3E+00	3.1E+01	5.2E+00

Table H-4
PRG Intercalculation Tables for Tap Water and Ambient Air with Updated OEHHA Toxicity Values

CONTAMINANT	CAS	SFo 1/(mg/kg-d)	RfDo (mg/kg-d)	SFi 1/(mg/kg-d)	RfDi (mg/kg-d)	AMBIENT AIR Cancer Risk = 1E-06 (ug/m3)	AMBIENT AIR Chronic HQ = 1 (ug/m3)	TAP WATER Cancer Risk = 1E-06 water-inhale (ug/l)	TAP WATER Cancer Risk = 1E-06 water-ingest (ug/l)	TAP WATER Cancer Risk = 1E-06 combined (ug/l)	TAP WATER Chronic HQ = 1 water-inhale (ug/l)	TAP WATER Chronic HQ = 1 water-ingest (ug/l)	TAP WATER Chronic HQ = 1 combined (ug/l)
Vinyl chloride (child/adult)+++	75-01-4	2.7E-01	3.0E-03	2.7E-01	2.9E-02	2.5E-02	1.0E+02	4.9E-02	2.5E-01	4.1E-02	2.1E+02	1.1E+02	7.2E+01
Vinyl chloride (adult)	75-01-4	2.7E-01	3.0E-03	2.7E-01	2.9E-02	2.5E-02	1.0E+02	4.9E-02	2.5E-01	4.1E-02	2.1E+02	1.1E+02	7.2E+01
Warfarin	81-81-2		3.0E-04		3.0E-04		1.1E+00					1.1E+01	1.1E+01
Xylenes	1330-20-7		2.0E-01		2.0E-01		7.3E+02				1.5E+03	7.3E+03	1.2E+03
Zinc	7440-66-6		3.0E-01									1.1E+04	1.1E+04
Zinc phosphide	1314-84-7		3.0E-04									1.1E+01	1.1E+01
Zineb	12122-67-7		5.0E-02		5.0E-02		1.8E+02					1.8E+03	1.8E+03
1,2,3,4,6,7,8,9-Octachlorodibenzofuran	39001-02-0	1.3E+01		1.3E+01		5.1E-04			5.2E-03	5.2E-03			
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin	3268-87-9	1.3E+01		1.3E+01		5.1E-04			5.2E-03	5.2E-03			
1,2,3,4,6,7,8-Heptachlorodibenzofuran	67562-39-4	1.3E+03		1.3E+03		5.1E-06			5.2E-05	5.2E-05			
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	37871-00-4	1.3E+03		1.3E+03		5.1E-06			5.2E-05	5.2E-05			
1,2,3,4,7,8,9-Heptachlorodibenzofuran	55673-89-7	1.3E+03		1.3E+03		5.1E-06			5.2E-05	5.2E-05			
1,2,3,4,7,8-Hexachlorodibenzofuran	70648-26-9	1.3E+04		1.3E+04		5.1E-07			5.2E-06	5.2E-06			
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	39227-28-6	1.3E+04		1.3E+04		5.1E-07			5.2E-06	5.2E-06			
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	57653-85-7	1.3E+04		1.3E+04		5.1E-07			5.2E-06	5.2E-06			
1,2,3,7,8,9-Hexachlorodibenzofuran	72918-21-9	1.3E+04		1.3E+04		5.1E-07			5.2E-06	5.2E-06			
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	19408-74-3	1.3E+04		1.3E+04		5.1E-07			5.2E-06	5.2E-06			
1,2,3,7,8-Pentachlorodibenzofuran	57117-41-6	6.5E+03		6.5E+03		1.0E-06			1.0E-05	1.0E-05			
1,2,3,7,8-Pentachlorodibenzo-p-dioxin	40321-76-4	1.3E+05		1.3E+05		5.1E-08			5.2E-07	5.2E-07			
1,2-Dimethylhydrazine	540-73-8	5.5E+02		5.5E+02		1.2E-05			1.2E-04	1.2E-04			
1,3-Propane sultone	1120-71-4	2.4E+00		2.4E+00		2.8E-03			2.8E-02	2.8E-02			
1,6-Dinitropyrene	42397-64-8	1.2E+02		3.9E+01		1.7E-04			5.6E-04	5.6E-04			
1,8-Dinitropyrene	42397-65-9	1.2E+01		3.9E+00		1.7E-03			5.6E-03	5.6E-03			
1-[(5-Nitrofurfurylidene)-amino]-2-imidazolidinone	555-84-0	1.8E+00		1.8E+00		3.7E-03			3.7E-02	3.7E-02			
1-Amino-2-methylanthraquinone	82-28-0	1.5E-01		1.5E-01		4.4E-02			4.5E-01	4.5E-01			
1-Nitropyrene	5522-43-0	1.2E+00		3.9E-01		1.7E-02			5.6E-02	5.6E-02			
2-(2-Formylhydrazino)-4-(5-nitro-2-furyl)thiazole	3570-75-0	2.3E+00		2.3E+00		2.9E-03			2.9E-02	2.9E-02			
2,3,3',4,4',5,5'-HpCB	39635-31-9	1.3E+01		1.3E+01		5.1E-04			5.2E-03	5.2E-03			
2,3,3',4,4',5'-HxCB	69782-90-7	6.5E+01		6.5E+01		1.0E-04			1.0E-03	1.0E-03			
2,3,3',4,4',5-HxCB	38380-08-4	6.5E+01		6.5E+01		1.0E-04			1.0E-03	1.0E-03			
2,3,3',4,4'-PeCB	32598-14-4	1.3E+01		1.3E+01		5.1E-04			5.2E-03	5.2E-03			
2,3',4,4',5,5'-HxCB	52663-72-6	1.3E+00		1.3E+00		5.1E-03			5.2E-02	5.2E-02			
2',3,4,4',5-PeCB	65510-44-3	1.3E+01		1.3E+01		5.1E-04			5.2E-03	5.2E-03			
2,3',4,4',5-PeCB	31508-00-6	1.3E+01		1.3E+01		5.1E-04			5.2E-03	5.2E-03			
2,3,4,4',5-PeCB	74472-37-0	6.5E+01		6.5E+01		1.0E-04			1.0E-03	1.0E-03			
2,3,4,6,7,8-Hexachlorodibenzofuran	60851-34-5	1.3E+04		1.3E+04		5.1E-07			5.2E-06	5.2E-06			
2,3,4,7,8,9-Hexachlorodibenzofuran	57117-44-9	1.3E+04		1.3E+04		5.1E-07			5.2E-06	5.2E-06			
2,3,4,7,8-Pentachlorodibenzofuran	57117-31-4	6.5E+04		6.5E+04		1.0E-07			1.0E-06	1.0E-06			
2,3,7,8-Hexachlorodibenzo-p-dioxin (mixture)	HCDBPmix	3.3E+03		1.3E+04		5.1E-07			2.0E-05	2.0E-05			
2,3,7,8-Tetrachlorodibenzofuran	51207-31-9	1.3E+04		1.3E+04		5.1E-07			5.2E-06	5.2E-06			
2,4-Diaminoanisole	615-05-4	2.3E-02		2.3E-02		2.9E-01			2.9E+00	2.9E+00			
2,4-Diaminoanisole sulfate	39156-41-7	1.3E-02		1.3E-02		5.1E-01			5.2E+00	5.2E+00			
2-Acetylaminofluorene	53-96-3	3.8E+00		3.8E+00		1.7E-03			1.8E-02	1.8E-02			
2-Amino-5-(5-nitro-2-furyl)-1,3,4-thiadiazol	712-68-5	1.6E+01		1.6E+01		4.1E-04			4.2E-03	4.2E-03			
2-Aminoanthraquinone	117-79-3	3.3E-02		3.3E-02		2.0E-01			2.0E+00	2.0E+00			
2-Methyl-1-nitroanthraquinone (of uncertain purity)	129-15-7	4.3E+00		4.3E+00		1.5E-03			1.6E-02	1.6E-02			
2-Naphthylamine	91-59-8	1.8E+00		1.8E+00		3.7E-03			3.7E-02	3.7E-02			

Table H-4
PRG Intercalculation Tables for Tap Water and Ambient Air with Updated OEHHA Toxicity Values

CONTAMINANT	CAS	SFo 1/(mg/kg-d)	RfDo (mg/kg-d)	SFi 1/(mg/kg-d)	RfDi (mg/kg-d)	AMBIENT AIR Cancer Risk = 1E-06 (ug/m^3)	AMBIENT AIR Chronic HQ = 1 (ug/m^3)	TAP WATER Cancer Risk = 1E-06 water-inhale (ug/l)	TAP WATER Cancer Risk = 1E-06 water-ingest (ug/l)	TAP WATER Cancer Risk = 1E-06 combined (ug/l)	TAP WATER Chronic HQ = 1 water-inhale (ug/l)	TAP WATER Chronic HQ = 1 water-ingest (ug/l)	TAP WATER Chronic HQ = 1 combined (ug/l)
2-Nitrofluorene	607-57-8	1.2E-01		3.9E-02		1.7E-01			5.6E-01	5.6E-01			
3,3',4,4',5,5'-HxCB	32774-16-6	1.3E+03		1.3E+03		5.1E-06			5.2E-05	5.2E-05			
3,3',4,4',5-PeCB	57465-28-8	1.3E+04		1.3E+04		5.1E-07			5.2E-06	5.2E-06			
3,3',4,4'-TCB	32598-13-3	1.3E+01		1.3E+01		5.1E-04			5.2E-03	5.2E-03			
3,4,4'5-TCB	70362-50-4	1.3E+01		1.3E+01		5.1E-04			5.2E-03	5.2E-03			
3-Amino-9-ethylcarbazolehydrochloride	6109-97-3	7.8E-02		7.8E-02		8.5E-02			8.6E-01	8.6E-01			
3-Chloro-2-methylpropene	563-47-3	1.4E-01		1.4E-01		4.7E-02			4.8E-01	4.8E-01			
3-Methylcholanthrene	56-49-5	2.2E+01		2.2E+01		3.0E-04			3.1E-03	3.1E-03			
4,4-Diaminodiphenyl ether	101-80-4	1.4E-01		1.4E-01		4.7E-02			4.8E-01	4.8E-01			
4,4-Methylene bis(2-methylaniline)	838-88-0	9.2E-01		9.2E-01		7.2E-03			7.3E-02	7.3E-02			
4,4-Methylenedianiline dihydrochloride	13552-44-8	1.2E+00		1.2E+00		5.5E-03			5.6E-02	5.6E-02			
4,4-Thiodianiline	139-65-1	1.5E+01		1.5E+01		4.4E-04			4.5E-03	4.5E-03			
4-Aminobiphenyl (4-aminodiphenyl)	92-67-1	2.1E+01		2.1E+01		3.2E-04			3.2E-03	3.2E-03			
4-Chloro-ortho-phenylenediamine	95-83-0	1.6E-02		1.6E-02		4.1E-01			4.2E+00	4.2E+00			
4-Dimethylaminoazobenzene	60-11-7	4.6E+00		4.6E+00		1.4E-03			1.5E-02	1.5E-02			
4-Nitropyrene	57835-92-4	1.2E+00		3.9E-01		1.7E-02			5.6E-02	5.6E-02			
5-Methylchrysene	3697-24-3	1.2E+01		3.9E+00		1.7E-03			5.6E-03	5.6E-03			
5-Nitroacenaphthene	602-87-9	1.3E-01		1.3E-01		5.1E-02			5.2E-01	5.2E-01			
6-Nitrochrysene	7496-02-8	1.2E+02		3.9E+01		1.7E-04			5.6E-04	5.6E-04			
7,12-Dimethylbenz(a)anthracene	57-97-6	2.5E+02		2.5E+02		2.7E-05			2.7E-04	2.7E-04			
7H-dibenzo(c,g)carbazole	194-59-2	1.2E+01		3.9E+00		1.7E-03			5.6E-03	5.6E-03			
A-alpha-C(2-Amino-9H-pyrido[2,3-b]indole)	26148-68-5	4.0E-01		4.0E-01		1.7E-02			1.7E-01	1.7E-01			
Acetamide	60-35-5	7.0E-02		7.0E-02		9.5E-02			9.6E-01	9.6E-01			
Actinomycin D	50-76-0	8.7E+03		8.7E+03		7.6E-07			7.7E-06	7.7E-06			
AF-2;[2-(2-furyl)-3(5-nitro-2-furyl)]acrylamide	3688-53-7	2.4E-01		2.4E-01		2.8E-02			2.8E-01	2.8E-01			
Amitrole	61-82-5	9.4E-01		9.4E-01		7.1E-03			7.2E-02	7.2E-02			
Asbestos [1/(100 PCM fibers/m^3)]^-1	1332-21-4			2.2E+02		3.0E-05							
Auramine	492-80-8	8.8E-01		8.8E-01		7.5E-03			7.6E-02	7.6E-02			
Azaserine	115-02-6	1.1E+01		1.1E+01		6.0E-04			6.1E-03	6.1E-03			
Azathioprine	446-86-6	1.8E+00		1.8E+00		3.7E-03			3.7E-02	3.7E-02			
Benzo(j)fluoranthene	205-82-3	1.2E+00		3.9E-01		1.7E-02			5.6E-02	5.6E-02			
Benzyl violet 4B	1694-09-3	2.0E-02		2.0E-02		3.3E-01			3.4E+00	3.4E+00			
Beryllium oxide	1304-56-9	7.0E+00		8.4E+00		7.9E-04			9.6E-03	9.6E-03			
Beryllium sulfate	13510-49-1	3.0E+03		3.0E+03		2.2E-06			2.2E-05	2.2E-05			
beta-Butyrolactone	3068-88-0	1.0E+00		1.0E+00		6.6E-03			6.7E-02	6.7E-02			
beta-Propiolactone	57-57-8	1.4E+01		1.4E+01		4.7E-04			4.8E-03	4.8E-03			
Butylated hydroxyanisole	25013-16-5	2.0E-04		2.0E-04		3.3E+01			3.4E+02	3.4E+02			
C.I. Basic Red 9 monohydrochloride	569-61-9	2.4E+02		2.5E-01		2.7E-02			2.8E-04	2.8E-04			
Chlorambucil	305-03-3	2.3E-03		4.4E+02		1.5E-05			2.9E+01	2.9E+01			
Chlordane	57-74-9	1.3E+00		1.2E+00		5.5E-03			5.2E-02	5.2E-02			
Chlorendic acid	115-28-6	9.1E-02		9.1E-02		7.3E-02			7.4E-01	7.4E-01			
Chlorinated paraffins (Avg. chain length,C12:approx.60	108171-26-2	8.9E-02		8.9E-02		7.5E-02			7.6E-01	7.6E-01			
Chloromethyl methyl ether (technical grade)	107-30-2	2.4E+00		2.4E+00		2.8E-03			2.8E-02	2.8E-02			
Chlorozotocin	54749-90-5	2.4E+02		2.4E+02		2.8E-05			2.8E-04	2.8E-04			
Cinnamyl anthranilate	87-29-6	4.6E-03		4.6E-03		1.4E+00			1.5E+01	1.5E+01			
Coke oven emissions	8007-45-2			2.2E+00		3.1E-03							

Table H-4
PRG Intercalculation Tables for Tap Water and Ambient Air with Updated OEHHA Toxicity Values

CONTAMINANT	CAS	SFo 1/(mg/kg-d)	RfDo (mg/kg-d)	SFi 1/(mg/kg-d)	RfDi (mg/kg-d)	AMBIENT AIR Cancer Risk = 1E-06 (ug/m^3)	AMBIENT AIR Chronic HQ = 1 (ug/m^3)	TAP WATER Cancer Risk = 1E-06 water-inhale (ug/l)	TAP WATER Cancer Risk = 1E-06 water-ingest (ug/l)	TAP WATER Cancer Risk = 1E-06 combined (ug/l)	TAP WATER Chronic HQ = 1 water-inhale (ug/l)	TAP WATER Chronic HQ = 1 water-ingest (ug/l)	TAP WATER Chronic HQ = 1 combined (ug/l)
Cupferron	135-20-6	2.2E-01		2.2E-01		3.0E-02			3.1E-01	3.1E-01			
Cyclophosphamide (anhydrous)	50-18-0	6.1E-01		6.1E-01		1.1E-02			1.1E-01	1.1E-01			
Cyclophosphamide (hydrated)	6055-19-2	5.7E-01		5.7E-01		1.2E-02			1.2E-01	1.2E-01			
D & C Red No. 9	5160-02-1	5.3E-03		5.3E-03		1.3E+00			1.3E+01	1.3E+01			
Dacarbazine	4342-03-4	4.9E+01		4.9E+01		1.4E-04			1.4E-03	1.4E-03			
Dantron	117-10-2	7.6E-02		7.6E-02		8.7E-02			8.8E-01	8.8E-01			
Dibenz(a,h)acridine	226-36-8	1.2E+00		3.9E-01		1.7E-02			5.6E-02	5.6E-02			
Dibenz(a,j)acridine	224-42-0	1.2E+00		3.9E-01		1.7E-02			5.6E-02	5.6E-02			
Dibenzo(a,e)pyrene	192-65-4	1.2E+01		3.9E+00		1.7E-03			5.6E-03	5.6E-03			
Dibenzo(a,h)pyrene	189-64-0	1.2E+02		3.9E+01		1.7E-04			5.6E-04	5.6E-04			
Dibenzo(a,i)pyrene	189-55-9	1.2E+02		3.9E+01		1.7E-04			5.6E-04	5.6E-04			
Dibenzo(a,l)pyrene	191-30-0	1.2E+02		3.9E+01		1.7E-04			5.6E-04	5.6E-04			
Diesel exhaust particulate	DEP			1.1E+00		6.0E-03							
Diglycidyl resorcinol ether (DGRE)	101-90-6	1.7E+00		1.7E+00		3.9E-03			4.0E-02	4.0E-02			
Dihydrosafrole	94-58-6	4.4E-02		4.4E-02		1.5E-01			1.5E+00	1.5E+00			
Dimethylcarbamyl chloride	79-44-7	1.3E+01		1.3E+01		5.1E-04			5.2E-03	5.2E-03			
Dimethylvinylchloride	513-37-1	4.5E-02		4.5E-02		1.5E-01			1.5E+00	1.5E+00			
Disperse Blue 1 (technical grade)	2475-45-8	4.5E-03		4.5E-03		1.5E+00			1.5E+01	1.5E+01			
Estradiol 17B	50-28-2	3.9E+01		3.9E+01		1.7E-04			1.7E-03	1.7E-03			
Ethyleneimine	151-56-4	6.5E+01		6.5E+01		1.0E-04			1.0E-03	1.0E-03			
d]imidazole)	67730-11-4	4.8E+00		4.8E+00		1.4E-03			1.4E-02	1.4E-02			
Glu-P-2 (2-Aminodipyrido[1,2-a:3',2'-d]indole)	67730-10-3	1.4E+00		1.4E+00		4.7E-03			4.8E-02	4.8E-02			
Gyromitrin	16568-02-8	1.0E+01		1.0E+01		6.6E-04			6.7E-03	6.7E-03			
HC Blue 1	2784-94-3	5.1E-02		5.1E-02		1.3E-01			1.3E+00	1.3E+00			
Hexachlorodibenzo-p-dioxin	34465-46-8	1.3E+04		1.3E+04		5.1E-07			5.2E-06	5.2E-06			
Hydrazine Sulfate	10034-93-2	3.0E+00		3.0E+00		2.2E-03			2.2E-02	2.2E-02			
IQ (2-Amino-3-methylimidazo-[4,5-f]quinoline)	76180-96-6	1.4E+00		1.4E+00		4.7E-03			4.8E-02	4.8E-02			
Lasiocarpine	303-34-4	7.8E+00		7.8E+00		8.5E-04			8.6E-03	8.6E-03			
Lead acetate	301-04-2	2.8E-01		2.8E-01		2.4E-02			2.4E-01	2.4E-01			
Lead subacetate	1335-32-6	3.8E-02		3.8E-02		1.7E-01			1.8E+00	1.8E+00			
Me-A-alpha-C (2-Amino-3-methyl-9H-pyrido[2,3-b]indole	68006-83-7	1.2E+00		1.2E+00		5.5E-03			5.6E-02	5.6E-02			
Melphalan	3223-07-2	1.3E+02		1.3E+02		5.1E-05			5.2E-04	5.2E-04			
Methyl methanesulfonate	66-27-3	9.9E-02		9.9E-02		6.7E-02			6.8E-01	6.8E-01			
Methylthiouracil	56-04-2	4.0E-01		4.0E-01		1.7E-02			1.7E-01	1.7E-01			
Michler's ketone	90-94-8	8.6E-01		8.6E-01		7.7E-03			7.8E-02	7.8E-02			
Mitomycin C	50-07-7	8.2E+03		8.2E+03		8.1E-07			8.2E-06	8.2E-06			
Monocrotaline	315-22-0	1.0E+01		1.0E+01		6.6E-04			6.7E-03	6.7E-03			
Nitrilotriacetic acid	139-13-9	5.3E-03		5.3E-03		1.3E+00			1.3E+01	1.3E+01			
Nitrilotriacetic acid, trisodium salt monohydrate	18662-53-8	1.0E-02		1.0E-02		6.6E-01			6.7E+00	6.7E+00			
Nitrofen (technical grade)	1836-75-5	8.2E-02		8.2E-02		8.1E-02			8.2E-01	8.2E-01			
N-Methyl-N-nitro-N-nitrosoguanidine	70-25-7	8.3E+00		8.3E+00		8.0E-04			8.1E-03	8.1E-03			
N-Nitrosomorpholine	59-89-2	6.7E+00		6.7E+00		9.9E-04			1.0E-02	1.0E-02			
N-Nitroso-N-ethylurea	759-73-9	2.7E+01		2.7E+01		2.5E-04			2.5E-03	2.5E-03			
N-Nitroso-N-methylurea	684-93-5	1.2E+02		1.2E+02		5.5E-05			5.6E-04	5.6E-04			
N-Nitroso-N-methylurethane	615-53-2	1.1E+02		1.1E+02		6.0E-05			6.1E-04	6.1E-04			
N-Nitrosonornicotine	16543-55-8	1.4E+00		1.4E+00		4.7E-03			4.8E-02	4.8E-02			

Table H-4
PRG Intercalculation Tables for Tap Water and Ambient Air with Updated OEHHA Toxicity Values

CONTAMINANT	CAS	SFo 1/(mg/kg-d)	RfDo (mg/kg-d)	SFi 1/(mg/kg-d)	RfDi (mg/kg-d)	AMBIENT AIR Cancer Risk = 1E-06 (ug/m^3)	AMBIENT AIR Chronic HQ = 1 (ug/m^3)	TAP WATER Cancer Risk = 1E-06 water-inhale (ug/l)	TAP WATER Cancer Risk = 1E-06 water-ingest (ug/l)	TAP WATER Cancer Risk = 1E-06 combined (ug/l)	TAP WATER Chronic HQ = 1 water-inhale (ug/l)	TAP WATER Chronic HQ = 1 water-ingest (ug/l)	TAP WATER Chronic HQ = 1 combined (ug/l)
N-Nitrosopiperidine	100-75-4	9.4E+00		9.4E+00		7.1E-04			7.2E-03	7.2E-03			
O-Phenylphenate, sodium	132-27-4	3.0E-03		3.0E-03		2.2E+00			2.2E+01	2.2E+01			
ortho-Aminoazotoluene	97-56-3	3.8E+00		3.8E+00		1.7E-03			1.8E-02	1.8E-02			
ortho-Anisidine	90-04-0	1.4E-01		1.4E-01		4.7E-02			4.8E-01	4.8E-01			
ortho-Anisidine hydrochloride	134-29-2	1.1E-01		1.1E-01		6.0E-02			6.1E-01	6.1E-01			
para-Cresidine	120-71-8	1.5E-01		1.5E-01		4.4E-02			4.5E-01	4.5E-01			
Phenacetin	62-44-2	2.2E-03		2.2E-03		3.0E+00			3.1E+01	3.1E+01			
Phenazopyridine	94-78-0	1.7E-01		1.7E-01		3.9E-02			4.0E-01	4.0E-01			
Phenazopyridine hydrochloride	136-40-3	1.5E-01		1.5E-01		4.4E-02			4.5E-01	4.5E-01			
Phenesterin	3546-10-9	1.5E+02		1.5E+02		4.4E-05			4.5E-04	4.5E-04			
Phenobarbital	50-06-6	4.6E-01		4.6E-01		1.4E-02			1.5E-01	1.5E-01			
Phenoxybenzamine	59-96-1	3.1E+00		3.1E+00		2.1E-03			2.2E-02	2.2E-02			
Phenoxybenzamine hydrochloride	63-92-3	2.7E+00		2.7E+00		2.5E-03			2.5E-02	2.5E-02			
p-Nitrosodiphenylamine	156-10-5	2.2E-02		2.2E-02		3.0E-01			3.1E+00	3.1E+00			
Polybrominated biphenyls	PBB	3.0E+01	7.0E-06	3.0E+01	7.0E-06	2.2E-04	2.6E-02		2.2E-03	2.2E-03		2.6E-01	2.6E-01
Polychlorinated biphenyls	133-63-63	5.0E+00		2.0E+00		3.3E-03			1.3E-02	1.3E-02			
Ponceau 3R	3564-09-8	1.6E-02		1.6E-02		4.1E-01			4.2E+00	4.2E+00			
Ponceau MX (D&C Red No.5)	3761-53-3	4.5E-03		4.5E-03		1.5E+00			1.5E+01	1.5E+01			
Potassium bromate	7758-01-2	4.9E-01		4.9E-01		1.4E-02			1.4E-01	1.4E-01			
Procarbazine	671-16-9	1.4E+01		1.4E+01		4.7E-04			4.8E-03	4.8E-03			
Procarbazine hydrochloride	366-70-1	1.2E+01		1.2E+01		5.5E-04			5.6E-03	5.6E-03			
Propylthiouracil	51-52-5	1.0E+00		1.0E+00		6.6E-03			6.7E-02	6.7E-02			
Reserpine	50-55-5	1.1E+01		1.1E+01		6.0E-04			6.1E-03	6.1E-03			
Safrole	94-59-7	2.2E-01		2.2E-01		3.0E-02			3.1E-01	3.1E-01			
Sterigmatocystin	10048-13-2	2.2E-01		3.5E+01		1.9E-04			3.1E-01	3.1E-01			
Streptozotocin	18883-66-4	1.1E+02		1.1E+02		6.0E-05			6.1E-04	6.1E-04			
Styrene oxide	96-09-3	1.6E-01		1.6E-01		4.1E-02			4.2E-01	4.2E-01			
Sulfallate	95-06-7	1.9E-01		1.9E-01		3.5E-02			3.5E-01	3.5E-01			
Thioacetamide	62-55-5	6.1E+00		6.1E+00		1.1E-03			1.1E-02	1.1E-02			
Thiourea	62-56-6	7.2E-02		7.2E-02		9.2E-02			9.3E-01	9.3E-01			
Toluene diisocyanate	26471-62-5	3.9E-02		3.9E-02		1.7E-01			1.7E+00	1.7E+00			
trans-2[(Dimethylamino)-methylimino]-5-[2-(5-nitro-2-fur	55738-54-0	4.4E-01		4.4E-01		1.5E-02			1.5E-01	1.5E-01			
Tris-(1-aziridinyl)phosphine sulfide	52-24-4	1.2E+01		1.2E+01		5.5E-04			5.6E-03	5.6E-03			
Tris(2,3-dibromopropyl)phosphate	126-72-7	2.3E+00		2.3E+00		2.9E-03			2.9E-02	2.9E-02			
Trp-P-1 (Tryptophan-P-1)	62450-06-0	2.6E+01		2.6E+01		2.6E-04			2.6E-03	2.6E-03			
Trp-P-2 (Tryptophan-P-2)	62450-07-1	3.2E+00		3.2E+00		2.1E-03			2.1E-02	2.1E-02			
Urethane	51-79-6	1.0E+00		1.0E+00		6.6E-03			6.7E-02	6.7E-02			

mg/kg-d = milligrams per kilogram per day
$\mu g/m^3$ = microgram per cubic meter
$\mu g/L$ = microgram per liter
mg/kg = milligrams per kilogram

Table H-5
Region 4 Agricultural Soil PRGs for Chemicals for Ingestion of Fruit and Vegetables

Analyte Name	CAS	Adult Ingestion of Fruit & Vegetables Contaminated Soil PRG Hazard Quotient = 1 (mg/kg)	Child Ingestion of Fruit & Vegetables Contaminated Soil PRG Hazard Quotient = 1 (mg/kg)	Ingestion of Fruit & Vegetables Contaminated Soil PRG Cancer Risk = 10^{-6} (mg/kg)
ALAR	1596845	8.90E+00	6.40E+00	—
Acenaphthene	83329	7.30E+02	5.20E+02	—
Acenaphthylene	208968	—	—	—
Acephate	30560191	5.70E-01	4.10E-01	3.50E-02
Acetaldehyde	75070	—	—	—
Acetochlor	34256821	1.70E+02	1.30E+02	—
Acetone	67641	2.90E+02	2.10E+02	—
Acetone Cyanohydrin	75865	1.30E+00	9.00E-01	—
Acetonitrile	75058	1.70E+00	1.20E+00	—
Acetophenone	98862	3.30E+02	2.30E+02	—
Acrolein	107028	1.90E-01	1.40E-01	—
Acrylamide	79061	3.60E-02	2.60E-02	8.60E-05
Acrylic Acid	79107	2.70E+02	1.90E+02	—
Acrylonitrile	107131	6.00E-01	4.30E-01	2.40E-03
Alachlor	15972608	8.20E+01	5.90E+01	2.20E-01
Aldicarb	116063	1.80E+00	1.30E+00	—
Aldicarb Sulfone	1646884	2.10E-01	1.50E-01	—
Aldrin	309002	2.60E-01	1.90E-01	1.10E-03
Ally	74223646	1.10E+02	7.90E+01	—
Allyl Alcohol	107186	1.60E+00	1.20E+00	—
Allyl Chloride	107051	1.20E+02	8.60E+01	—
Aluminum	7429905	1.30E+04	9.50E+03	—
Aluminum Phosphide	20859738	—	—	—
Amdro	67485294	—	—	—
Ametryn	834128	3.20E+01	2.30E+01	—
Aminophenol, m-	591275	4.60E+01	3.30E+01	—
Aminophenol, p-	123308	—	—	—
Aminopyridine, 4-	504245	1.20E-02	8.90E-03	—
Amitraz	33089611	3.30E+01	2.30E+01	—
Ammonia	7664417	—	—	—
Ammonium Perchlorate	7790989	—	—	—
Ammonium Sulfamate	7773060	—	—	—
Aniline	62533	9.40E+00	6.80E+00	5.10E-01
Anthracene	120127	3.70E+03	2.60E+03	—
Antimony (metallic)	7440360	5.10E+00	3.70E+00	—
Antimony Pentoxide	1314609	—	—	—
Antimony Potassium Tartrate	304610	—	—	—
Antimony Tetroxide	1332816	—	—	—
Antimony Trioxide	1309644	—	—	—
Apollo	74115245	1.20E+02	8.40E+01	—
Aramite	140578	6.30E+02	4.60E+02	1.10E+00
Aroclor 1016	12674112	9.20E-01	6.60E-01	1.40E-02
Aroclor 1221	11104282	—	—	1.30E-02
Aroclor 1232	11141165	—	—	1.00E-02
Aroclor 1242	53469219	—	—	1.30E-02
Aroclor 1248	12672296	—	—	1.40E-02
Aroclor 1254	11097691	2.60E-01	1.90E-01	1.40E-02
Aroclor 1260	11096825	—	—	1.40E-02
Arsenic Salts	1	—	—	—
Arsenic, Inorganic	7440382	3.80E+00	2.80E+00	1.80E-02
Arsine	7784421	—	—	—
Asbestos	1332214	—	—	—
Assure	76578148	1.10E+02	7.80E+01	—

Table H-5
Region 4 Agricultural Soil PRGs for Chemicals for Ingestion of Fruit and Vegetables

Analyte Name	CAS	Adult Ingestion of Fruit & Vegetables Contaminated Soil PRG Hazard Quotient = 1 (mg/kg)	Child Ingestion of Fruit & Vegetables Contaminated Soil PRG Hazard Quotient = 1 (mg/kg)	Ingestion of Fruit & Vegetables Contaminated Soil PRG Cancer Risk = 10^{-6} (mg/kg)
Asulam	3337711	1.50E+01	1.10E+01	—
Atrazine	1912249	2.60E+02	1.90E+02	7.20E-02
Avermectin B1	65195553	—	—	—
Azobenzene	103333	—	—	2.20E-01
Barium	7440393	2.60E+03	1.90E+03	—
Barium Cyanide	542621	—	—	—
Baygon	114261	1.20E+01	8.50E+00	—
Bayleton	43121433	1.70E+02	1.20E+02	—
Baythroid	68359375	3.30E+02	2.40E+02	—
Benefin	1861401	3.70E+03	2.70E+03	—
Benomyl	17804352	2.80E+02	2.00E+02	—
Bentazon	25057890	5.10E+01	3.70E+01	—
Benz[a]anthracene	56553	—	—	3.90E-02
Benzaldehyde	100527	5.60E+02	4.00E+02	—
Benzene	71432	1.90E+01	1.40E+01	1.90E-01
Benzene, Ethyldimethyl	29224553	—	—	—
Benzene, Ethylmethyl	25550145	—	—	—
Benzene, Methylpropenyl	768003	—	—	—
Benzene, Methylpropyl	28729546	—	—	—
Benzene, Trimethyl	25551137	—	—	—
Benzenethiol	108985	6.50E-02	4.70E-02	—
Benzidine	92875	6.40E+00	4.60E+00	2.00E-05
Benzo[a]pyrene	50328	—	—	3.90E-03
Benzo[b]fluoranthene	205992	—	—	3.90E-02
Benzo[g,h,i]perylene	191242	—	—	—
Benzo[k]fluoranthene	207089	—	—	3.90E-01
Benzoic Acid	65850	1.60E+04	1.10E+04	—
Benzotrichloride	98077	—	—	1.40E-03
Benzyl Alcohol	100516	8.50E+02	6.10E+02	—
Benzyl Chloride	100447	1.10E+01	8.10E+00	7.10E-02
Beryllium and compounds	7440417	2.60E+01	1.90E+01	6.60E-03
Bidrin	141662	1.80E-02	1.30E-02	—
Biphenthrin	82657043	—	—	—
Biphenyl, 1,1'-	92524	5.90E+02	4.20E+02	—
Bis(2-chloro-1-methylethyl)ether (Technical)	108601	—	—	2.10E-01
Bis(2-chloroethoxy)methane	111911	6.20E+00	4.50E+00	
Bis(2-chloroethyl)ether	111444	—	—	4.20E-03
Bis(2-chloroisopropyl)ether	39638329	1.90E+02	1.40E+02	—
Bis(2-ethylhexyl)phthalate	117817	2.50E+02	1.80E+02	2.00E+00
Bis(chloromethyl)ether	542881	—	—	6.90E-06
Bisphenol A	80057	5.30E+02	3.80E+02	—
Boron And Borates Only	7440428	5.50E+02	3.90E+02	—
Boron Trifluoride	7637072	—	—	—
Bromate	15541454	2.20E+01	1.60E+01	1.70E-02
Bromobenzene	108861	—	—	—
Bromochloromethane	74975	—	—	—
Bromodichloromethane	75274	9.50E+01	6.80E+01	1.70E-01
Bromodiphenyl Ether, p-	101553	—	—	—
Bromoform	75252	1.20E+02	8.70E+01	1.70E+00
Bromomethane	74839	2.70E+00	1.90E+00	—
Bromophos	2104963	6.40E+01	4.60E+01	—
Bromotrichloromethane	75627	—	—	—

Table H-5
Region 4 Agricultural Soil PRGs for Chemicals for Ingestion of Fruit and Vegetables

Analyte Name	CAS	Adult Ingestion of Fruit & Vegetables Contaminated Soil PRG Hazard Quotient = 1 (mg/kg)	Child Ingestion of Fruit & Vegetables Contaminated Soil PRG Hazard Quotient = 1 (mg/kg)	Ingestion of Fruit & Vegetables Contaminated Soil PRG Cancer Risk = 10^{-6} (mg/kg)
Bromoxynil	1689845	1.60E+01	1.20E+01	—
Bromoxynil Octanoate	1689992	2.60E+02	1.90E+02	—
Butadiene, 1,3-	106990	—	—	—
Butanol, N-	71363	9.90E+01	7.10E+01	—
Butanone-2, 4-chloro-4,4-difluoro	2	—	—	—
Butyl Benzyl Phthlate	85687	2.50E+03	1.80E+03	1.40E+01
Butylate	2008415	5.90E+02	4.30E+02	—
Butylchloride, t-	507200	—	—	—
Butylphthalyl Butylglycolate	85701	1.20E+04	8.60E+03	—
Cacodylic Acid	75605	1.30E-01	9.40E-02	3.80E-03
Cadmium	7440439	8.70E+00	6.20E+00	—
Calcium Cyanide	592018	—	—	—
Caprolactam	105602	1.70E+02	1.20E+02	—
Captafol	2425061	1.30E+01	9.40E+00	1.60E+00
Captan	133062	7.30E+02	5.20E+02	3.50E+00
Carbaryl	63252	5.60E+02	4.00E+02	—
Carbazole	86748	—	—	1.20E+00
Carbofuran	1563662	1.50E+01	1.10E+01	—
Carbon Disulfide	75150	5.20E+02	3.70E+02	—
Carbon Tetrachloride	56235	5.40E+00	3.90E+00	1.30E-01
Carbosulfan	55285148	—	—	—
Carboxin	5234684	4.70E+02	3.40E+02	—
Ceric oxide	1306383	—	—	—
Cerium, Stable	7440451	—	—	—
Chloral	75876	—	—	—
Chloral Hydrate	302170	1.50E+02	1.10E+02	—
Chloramben	133904	4.40E+01	3.20E+01	—
Chloranil	118752	—	—	2.80E-02
Chlordane	57749	6.50E+00	4.70E+00	8.00E-02
Chlordecone (Kepone)	145500	—	—	—
Chloride	16887006	—	—	—
Chlorimuron, Ethyl-	90982324	1.30E+02	9.30E+01	—
Chlorine	7782505	1.90E+01	1.40E+01	—
Chlorine Dioxide	10049044	—	—	—
Chlorite (Sodium Salt)	7758192	—	—	—
Chloro-1,1-difluoroethane, 1-	75683	—	—	—
Chloro-1,3-butadiene, 2-	126998	7.20E+01	5.20E+01	—
Chloro-2-methylaniline HCl, 4-	3165933	—	—	2.60E-02
Chloro-2-methylaniline, 4-	95692	—	—	2.00E-02
Chloroacetic Acid	79118	3.80E+00	2.70E+00	—
Chloroacetophenone, 2-	532274	—	—	—
Chloroaniline, p-	106478	3.10E+01	2.20E+01	3.10E-01
Chlorobenzene	108907	1.60E+02	1.10E+02	—
Chlorobenzilate	510156	2.50E+02	1.80E+02	9.90E-02
Chlorobenzoic Acid, p-	74113	1.50E+03	1.10E+03	—
Chlorobenzotrifluoride, 4-	98566	2.20E+02	1.60E+02	—
Chlorobutane, 1-	109693	2.80E+02	2.00E+02	—
Chlorobutane, 2-	78864	—	—	—
Chlorocyclopentadiene	41851507	—	—	—
Chlorodibromoethane	73506942	—	—	—
Chlorodifluoromethane	75456	—	—	—
Chloroform	67663	4.30E+01	3.10E+01	1.50E+00
Chloromethane	74873	—	—	2.30E-01

Table H-5
Region 4 Agricultural Soil PRGs for Chemicals for Ingestion of Fruit and Vegetables

Analyte Name	CAS	Adult Ingestion of Fruit & Vegetables Contaminated Soil PRG Hazard Quotient = 1 (mg/kg)	Child Ingestion of Fruit & Vegetables Contaminated Soil PRG Hazard Quotient = 1 (mg/kg)	Ingestion of Fruit & Vegetables Contaminated Soil PRG Cancer Risk = 10^{-6} (mg/kg)
Chloromethyl Methyl Ether	107302	—	—	—
Chloronaphthalene, Beta-	91587	9.40E+02	6.80E+02	—
Chloronitrobenzene, o-	88733	5.20E+00	3.70E+00	1.20E+00
Chloronitrobenzene, p-	100005	6.00E+00	4.30E+00	1.90E+00
Chlorophenol, 2-	95578	2.60E+01	1.90E+01	—
Chlorophenyl Methyl Sulfide, p-	123091	—	—	—
Chlorophenyl Methyl Sulfoxide	934736	—	—	—
Chloropropane, 2-	75296	—	—	—
Chlorothalonil	1897456	1.70E+02	1.20E+02	2.20E+00
Chlorotoluene, o-	95498	2.00E+02	1.50E+02	—
Chlorotoluene, p-	106434	7.10E+02	5.10E+02	—
Chlorpropham	101213	1.60E+03	1.20E+03	—
Chlorpyrifos	2921882	3.90E+01	2.80E+01	—
Chlorpyrifos Methyl	5598130	1.20E+02	8.70E+01	—
Chlorsulfuron	64902723	3.70E+00	2.70E+00	—
Chlorthiophos	60238564	—	—	—
Chromium (III) (Insoluble Salts)	16065831	2.00E+04	1.40E+04	—
Chromium Salts	3	—	—	—
Chromium VI (particulates)	18540299	4.00E+01	2.90E+01	—
Chrysene	218019	—	—	3.90E+00
Cobalt	7440484	2.40E+02	1.80E+02	—
Coke Oven Emissions	8007452	—	—	—
Commercial Hexane	4	—	—	—
Copper	7440508	4.10E+02	2.90E+02	—
Copper Cyanide	544923	—	—	—
Creosote	8001589	—	—	—
Cresol, m-	108394	2.20E+02	1.60E+02	—
Cresol, o-	95487	2.00E+02	1.40E+02	—
Cresol, p-	106445	2.00E+01	1.40E+01	—
Cresol, p-chloro-m-	59507	—	—	—
Crotonaldehyde, trans-	123739	—	—	4.10E-03
Cumene	98828	1.00E+03	7.50E+02	—
Cyanazine	21725462	1.00E+01	7.60E+00	1.40E-02
Cyanide (CN-)	57125	3.40E+01	2.40E+01	—
Cyanogen	460195	1.90E+01	1.40E+01	—
Cyanogen Bromide	506683	—	—	—
Cyanogen Chloride	506774	2.80E+01	2.00E+01	—
Cyclohexane	110827	—	—	—
Cyclohexane, 1,2,3,4,5-pentabromo-6-chloro-	87843	—	—	1.20E+00
Cyclohexanone	108941	6.00E+03	4.30E+03	—
Cyclohexylamine	108918	5.30E+02	3.80E+02	—
Cyclopentadiene	542927	—	—	—
Cyhalothrin/karate	68085858	6.60E+01	4.80E+01	—
Cypermethrin	52315078	1.30E+02	9.50E+01	—
Cyromazine	66215278	—	—	—
DDD	72548	2.60E+01	1.90E+01	1.20E-01
DDE	72559	—	—	8.30E-02
DDT	50293	6.60E+00	4.70E+00	8.40E-02
Dacthal	1861321	1.20E+02	8.80E+01	—
Dalapon	75990	3.50E+01	2.50E+01	—
Decabromodiphenyl Ether	1163195	1.30E+02	9.30E+01	—
Demeton	8065483	—	—	—

Table H-5
Region 4 Agricultural Soil PRGs for Chemicals for Ingestion of Fruit and Vegetables

Analyte Name	CAS	Adult Ingestion of Fruit & Vegetables Contaminated Soil PRG Hazard Quotient = 1 (mg/kg)	Child Ingestion of Fruit & Vegetables Contaminated Soil PRG Hazard Quotient = 1 (mg/kg)	Ingestion of Fruit & Vegetables Contaminated Soil PRG Cancer Risk = 10^{-6} (mg/kg)
Di(2-ethylhexyl)adipate	103231	7.90E+03	5.70E+03	2.40E+01
Diallate	2303164	—	—	3.90E-02
Diathane, 1,4-	505293	2.30E+01	1.70E+01	—
Diazinon	333415	1.00E+01	7.30E+00	—
Dibenz[a,h]anthracene	53703	—	—	3.90E-03
Dibenzofuran	132649	2.40E+01	1.70E+01	—
Dibromo-3-chloropropane, 1,2-	96128	1.40E+00	9.90E-01	1.90E-02
Dibromobenzene, 1,4-	106376	1.10E+02	8.10E+01	—
Dibromochloromethane	124481	1.00E+02	7.40E+01	1.30E-01
Dibromodichloromethane	594183	—	—	—
Dibromodiphenyl Ether, p,p'-	2050477	—	—	—
Dibromoethane, 1,2-	106934	3.90E+01	2.80E+01	4.70E-03
Dibromomethane (Methylene Bromide)	74953	1.90E+01	1.40E+01	—
Dibutyl Phthalate	84742	1.30E+03	9.20E+02	—
Dibutyltin Compounds		—	—	—
Dicamba	1918009	2.60E+02	1.90E+02	—
Dichloro-2-butene, 1,4-	764410	—	—	—
Dichloroacetic Acid	79436	5.50E+00	4.00E+00	5.90E-02
Dichlorobenzene, 1,2-	95501	9.10E+02	6.50E+02	—
Dichlorobenzene, 1,3-	541731	—	—	—
Dichlorobenzene, 1,4-	106467	—	—	9.10E-01
Dichlorobenzidine, 3,3'-	91941	—	—	5.00E-02
Dichlorobenzophenone, 4,4'-	90982	3.70E+02	2.70E+02	—
Dichlorodifluoromethane	75718	1.00E+03	7.40E+02	—
Dichloroethane, 1,1-	75343	7.20E+02	5.20E+02	—
Dichloroethane, 1,2-	107062	5.30E+01	3.80E+01	6.30E-02
Dichloroethylene, 1,1-	75354	1.80E+02	1.30E+02	1.30E-02
Dichloroethylene, 1,2- (Mixed Isomers)	540590	7.20E+00	5.20E+00	—
Dichloroethylene, 1,2-cis-	156592	4.00E+01	2.90E+01	—
Dichloroethylene, 1,2-trans-	156605	1.60E+01	1.20E+01	—
Dichlorophenol, 2,4-	120832	2.50E+01	1.80E+01	—
Dichlorophenoxy Acetic Acid, 2,4-	94757	6.50E+01	4.70E+01	—
Dichlorophenoxy)butyric Acid, 4-(2,4-	94826	8.40E+01	6.00E+01	—
Dichloropropane, 1,2-	78875	—	—	1.40E-01
Dichloropropane, 1,3-	142289	—	—	—
Dichloropropanol, 2,3-	616239	9.20E-01	6.60E-01	—
Dichloropropene, 1,3-	542756	8.80E+01	6.40E+01	6.40E-02
Dichlorvos	62737	2.20E+00	1.60E+00	3.30E-02
Dicofol	115322	—	—	—
Dicyclopentadiene	77736	6.50E+01	4.70E+01	—
Dieldrin	60571	6.20E-01	4.50E-01	1.70E-03
Diethyl Phthalate	84662	5.20E+03	3.70E+03	—
Diethyl-p-nitrophenylphosphate	311455	—	—	—
Diethylene Glycol Dinitrate (DEGDN)	693210	—	—	—
Diethylene Glycol Monobutyl Ether	112345	1.30E+00	9.30E-01	—
Diethylene Glycol Monoethyl Ether	111900	2.30E+01	1.70E+01	—
Diethylformamide	617845	1.80E-01	1.30E-01	—
Diethylstilbesterol	56531	—	—	6.00E-06
Difenzoquat	43222486	—	—	—

Table H-5
Region 4 Agricultural Soil PRGs for Chemicals for Ingestion of Fruit and Vegetables

Analyte Name	CAS	Adult Ingestion of Fruit & Vegetables Contaminated Soil PRG Hazard Quotient = 1 (mg/kg)	Child Ingestion of Fruit & Vegetables Contaminated Soil PRG Hazard Quotient = 1 (mg/kg)	Ingestion of Fruit & Vegetables Contaminated Soil PRG Cancer Risk = 10^{-6} (mg/kg)
Diflubenzuron	35367385	2.30E+02	1.60E+02	—
Difluoroethane, 1,1-	75376	—	—	—
Diisopropyl Ether	108203	—	—	—
Diisopropyl Methylphosphonate	1445756	1.30E+02	9.00E+01	—
Dimethipin	55290647	6.90E+00	5.00E+00	—
Dimethoate	60515	1.50E+00	1.10E+00	—
Dimethoxybenzidine, 3,3'-	119904	—	—	5.60E-01
Dimethyl Sulfate	77781	—	—	—
Dimethyl methylphosphonate	756796	—	—	—
Dimethylaniline HCl, 2,4-	21436964	—	—	—
Dimethylaniline, 2,4-	95681	—	—	1.50E-02
Dimethylaniline, N,N-	121697	1.40E+01	1.00E+01	—
Dimethylbenzidine, 3,3'-	119937	—	—	5.30E-03
Dimethylethyl Lead	107584407	—	—	—
Dimethylformamide	68122	1.20E+01	8.40E+00	—
Dimethylhydrazine, 1,1-	57147	—	—	6.70E-04
Dimethylhydrazine, 1,2-	540738	—	—	—
Dimethylphenol, 2,4-	105679	1.10E+02	8.10E+01	—
Dimethylphenol, 2,6-	576261	3.50E+00	2.50E+00	—
Dimethylphenol, 3,4-	95658	5.20E+00	3.70E+00	—
Dimethylphthalate	131113	2.90E+04	2.10E+04	—
Dimethylterephthalate	120616	8.60E+02	6.20E+02	—
Dinitro-o-cresol, 4,6-	534521	7.30E-01	5.30E-01	—
Dinitro-o-cyclohexyl Phenol, 4,6-	131895	2.40E-02	1.80E-02	—
Dinitrobenzene, 1,2-	528290	2.90E-01	2.10E-01	—
Dinitrobenzene, 1,3-	99650	2.90E-01	2.10E-01	—
Dinitrobenzene, 1,4-	100254	2.70E-01	2.00E-01	—
Dinitrophenol, 2,4-	51285	5.30E+00	3.80E+00	—
Dinitrotoluene Mixture, 2,4/2,6-	25321146	8.70E+00	6.30E+00	1.40E-02
Dinitrotoluene, 2,4-	121142	8.70E+00	6.30E+00	1.40E-02
Dinitrotoluene, 2,6-	606202	3.30E+00	2.40E+00	1.00E-02
Dinitrotoluene, 2-Amino-4,6-	35572782	—	—	—
Dinitrotoluene, 4-Amino-2,6-	19406510	—	—	—
Dinoseb	88857	1.10E+01	7.90E+00	—
Dioxane, 1,4-	123911	—	—	6.00E-02
Diphenamid	957517	1.50E+02	1.10E+02	—
Diphenyl Sulfone	127639	—	—	—
Diphenylamine	122394	2.60E+02	1.90E+02	—
Diphenylhydrazine, 1,2-	122667	—	—	2.20E-02
Diquat	85007	1.70E-02	1.20E-02	—
Direct Black 38	1937377	—	—	1.10E-03
Direct Blue 6	2602462	—	—	—
Direct Brown 95	16071866	—	—	—
Direct Sky Blue	2610051	—	—	—
Disulfoton	298044	4.60E-01	3.30E-01	—
Diuron	330541	1.50E+01	1.10E+01	—
Dodine	2439103	2.80E+01	2.00E+01	—
EPTC	759944	2.40E+02	1.70E+02	—
Endosulfan	115297	6.30E+01	4.60E+01	—
Endothall	145733	8.00E+01	5.80E+01	—
Endrin	72208	3.70E+00	2.70E+00	—
Epichlorohydrin	106898	2.00E+00	1.50E+00	7.30E-02
Epoxybutane, 1,2-	106887	—	—	—

Table H-5
Region 4 Agricultural Soil PRGs for Chemicals for Ingestion of Fruit and Vegetables

Analyte Name	CAS	Adult Ingestion of Fruit & Vegetables Contaminated Soil PRG Hazard Quotient = 1 (mg/kg)	Child Ingestion of Fruit & Vegetables Contaminated Soil PRG Hazard Quotient = 1 (mg/kg)	Ingestion of Fruit & Vegetables Contaminated Soil PRG Cancer Risk = 10^{-6} (mg/kg)
Ethephon	16672870	2.30E+00	1.70E+00	—
Ethion	563122	6.40E+00	4.60E+00	—
Ethoxyethanol Acetate, 2-	111159	3.00E+02	2.10E+02	—
Ethoxyethanol, 2-	110805	1.50E+02	1.10E+02	—
Ethyl Acetate	141786	1.10E+03	7.80E+02	—
Ethyl Acrylate	140885	—	—	9.60E-02
Ethyl Chloride	75003	9.50E+02	6.90E+02	1.80E+00
Ethyl Ether	60297	2.60E+02	1.90E+02	—
Ethyl Methacrylate	97632	3.60E+02	2.60E+02	—
Ethyl-p-nitrophenyl Phosphonate	2104645	1.10E-01	8.10E-02	—
Ethylbenzene	100414	9.00E+02	6.50E+02	—
Ethylene Cyanohydrin	109784	1.80E+00	1.30E+00	—
Ethylene Diamine	107153	4.20E+01	3.00E+01	—
Ethylene Glycol	107211	7.10E+01	5.10E+01	—
Ethylene Glycol Monobutyl Ether	111762	6.20E+02	4.40E+02	—
Ethylene Oxide	75218	—	—	6.20E-04
Ethylene Thiourea	96457	1.50E-02	1.10E-02	3.60E-03
Ethylphthalyl Ethyl Glycolate	84720	1.50E+04	1.10E+04	—
Express	101200480	—	—	—
Fenamiphos	22224926	2.40E+00	1.70E+00	—
Fenpropathrin	39515418	3.30E+02	2.40E+02	—
Fluometuron	2164172	7.80E+01	5.60E+01	—
Fluoranthene	206440	5.10E+02	3.70E+02	—
Fluorene	86737	4.90E+02	3.50E+02	—
Fluorine (Soluble Fluoride)	7782414	—	—	—
Fluridone	59756604	7.40E+02	5.30E+02	—
Flurprimidol	56425913	2.00E+02	1.40E+02	—
Flutolanil	66332965	—	—	—
Fluvalinate	69409945	1.30E+02	9.50E+01	—
Folpet	133073	9.00E+02	6.50E+02	5.60E+00
Fomesafen	72178020	—	—	9.40E-02
Fonofos	944229	2.30E+01	1.70E+01	—
Formaldehyde	50000	8.70E+01	6.20E+01	—
Formic Acid	64186	4.30E+02	3.10E+02	—
Fosetyl-AL	39148248	—	—	—
Furan	110009	2.10E+00	1.50E+00	—
Furazolidone	67458	—	—	5.80E-04
Furfural	98011	3.10E+01	2.20E+01	—
Furium	531828	—	—	—
Furmecyclox	60568050	—	—	—
Glufosinate, Ammonium	77182822	—	—	—
Glycidyl	765344	6.70E-02	4.80E-02	—
Glyphosate	1071836	8.10E-01	5.90E-01	—
Goal	42874033	3.80E+01	2.70E+01	—
Haloxyfop, Methyl	69806402	5.20E-01	3.80E-01	—
Harmony	79277273	3.70E+01	2.60E+01	—
Heptachlor	76448	6.10E+00	4.40E+00	5.80E-03
Heptachlor Epoxide	1024573	1.70E-01	1.20E-01	3.10E-03
Heptane, N-	142825	—	—	—
Hexabromobenzene	87821	2.60E+01	1.90E+01	—
Hexachlorobenzene	118741	1.00E+01	7.50E+00	1.80E-02
Hexachlorobutadiene	87683	2.50E+00	1.80E+00	3.50E-01
Hexachlorocyclohexane, Alpha-	319846	—	—	3.90E-03

Table H-5
Region 4 Agricultural Soil PRGs for Chemicals for Ingestion of Fruit and Vegetables

Analyte Name	CAS	Adult Ingestion of Fruit & Vegetables Contaminated Soil PRG Hazard Quotient = 1 (mg/kg)	Child Ingestion of Fruit & Vegetables Contaminated Soil PRG Hazard Quotient = 1 (mg/kg)	Ingestion of Fruit & Vegetables Contaminated Soil PRG Cancer Risk = 10^{-6} (mg/kg)
Hexachlorocyclohexane, Beta-	319857	—	—	1.40E-02
Hexachlorocyclohexane, Delta-	319868	—	—	—
Hexachlorocyclohexane, Epsilon	6108107	—	—	—
Hexachlorocyclohexane, Gamma-	58899	3.30E+00	2.40E+00	1.80E-02
Hexachlorocyclohexane, Technical	608731	—	—	1.40E-02
Hexachlorocyclopentadiene	77474	7.00E+01	5.00E+01	—
Hexachlorodibenzo-p-dioxin, Mixture	19408743	—	—	4.60E-06
Hexachloroethane	67721	1.10E+01	8.20E+00	1.80E+00
Hexachlorophene	70304	4.00E+00	2.90E+00	—
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	121824	2.90E+01	2.10E+01	1.90E-01
Hexamethylene Diisocyanate, 1,6-	822060	—	—	—
Hexane, N-	110543	6.80E+02	4.90E+02	—
Hexanedioic Acid	124049	—	—	—
Hexanone, 2-	591786	—	—	—
Hexazinone	51235042	4.10E-02	3.00E-02	—
HpCDD, 2,3,7,8-	37871004	—	—	1.90E-05
HpCDF, 2,3,7,8-	38998753	—	—	—
HxCDD, 2,3,7,8-	34465468	—	—	—
HxCDF, 2,3,7,8-	55684941	—	—	—
Hydrazine	302012	—	—	2.00E-05
Hydrazine Sulfate	10034932	—	—	2.00E-05
Hydrogen Chloride	7647010	—	—	—
Hydrogen Cyanide	74908	1.40E+01	1.00E+01	—
Hydrogen Sulfide	7783064	4.30E+00	3.10E+00	—
Hydroquinone	123319	3.50E+01	2.50E+01	3.40E-02
Imazalil	35554440	1.50E+02	1.10E+02	—
Imazaquin	81335377	9.60E+02	6.90E+02	—
Indeno[1,2,3-cd]pyrene	193395	—	—	3.90E-02
Iprodione	36734197	3.40E+02	2.50E+02	—
Iron	7439896	4.00E+03	2.90E+03	—
Isobutyl Alcohol	78831	3.70E+02	2.70E+02	—
Isophorone	78591	6.50E+02	4.70E+02	7.40E+00
Isopropalin	33820530	2.00E+02	1.40E+02	—
Isopropanol	67630	—	—	—
Isopropyl Methyl Phosphonic Acid	1832548	6.10E+01	4.40E+01	—
Isoxaben	82558507	—	—	—
Kerb	23950585	7.60E+02	5.50E+02	—
Lactofen	77501634	2.50E+01	1.80E+01	—
Lead Alkyls	6	—	—	—
Lead And Compounds	7439921	—	—	—
Linuron	330552	1.90E+01	1.40E+01	—
Lithium	7439932	—	—	—
Londax	83055996	7.20E+02	5.20E+02	—
MCPA	94746	2.80E+00	2.00E+00	—
MCPB	94815	1.00E+02	7.50E+01	—
MCPP	93652	6.90E+00	5.00E+00	—
Magnesium	7439954	—	—	—
Malathion	121755	1.60E+02	1.20E+02	—
Maleic Anhydride	108316	4.30E+01	3.10E+01	—
Maleic Hydrazide	123331	1.30E+02	9.30E+01	—

Table H-5
Region 4 Agricultural Soil PRGs for Chemicals for Ingestion of Fruit and Vegetables

Analyte Name	CAS	Adult Ingestion of Fruit & Vegetables Contaminated Soil PRG Hazard Quotient = 1 (mg/kg)	Child Ingestion of Fruit & Vegetables Contaminated Soil PRG Hazard Quotient = 1 (mg/kg)	Ingestion of Fruit & Vegetables Contaminated Soil PRG Cancer Risk = 10^{-6} (mg/kg)
Malononitrile	109773	4.60E-02	3.30E-02	—
Mancozeb	8018017	—	—	—
Maneb	12427382	2.20E+00	1.60E+00	—
Manganese	7439965	1.50E+03	1.10E+03	—
Mephosfolan	950107	1.40E-01	1.00E-01	—
Mepiquat Chloride	24307264	—	—	—
Mercuric Chloride	7487947	—	—	—
Mercuric Sulfide	1344485	—	—	—
Mercury (elemental)	7439976	—	—	—
Mercury, Inorganic Salts	7439976	1.80E+00	1.30E+00	—
Merphos	150505	4.00E-01	2.90E-01	—
Merphos Oxide	78488	3.90E-01	2.80E-01	—
Metalaxyl	57837191	1.90E+02	1.30E+02	—
Methacrylonitrile	126987	8.60E-02	6.20E-02	—
Methamidophos	10265926	9.10E-03	6.60E-03	—
Methanol	67561	7.90E+01	5.70E+01	—
Methidathion	950378	6.10E+00	4.40E+00	—
Methomyl	16752775	2.30E+01	1.70E+01	—
Methoxy-5-nitroaniline, 2-	99592	—	—	1.20E-01
Methoxychlor	72435	6.10E+01	4.40E+01	—
Methoxyethanol Acetate, 2-	110496	1.10E+00	7.90E-01	—
Methoxyethanol, 2-	109864	4.70E-01	3.40E-01	—
Methyl Acetate	79209	5.50E+02	3.90E+02	—
Methyl Acrylate	96333	3.00E+01	2.20E+01	—
Methyl Ethyl Ketone	78933	3.70E+02	2.60E+02	—
Methyl Hydrazine	60344	—	—	7.90E-05
Methyl Isobutyl Ketone	108101	1.50E+02	1.10E+02	—
Methyl Mercaptan	74931	—	—	—
Methyl Mercury	22967926	—	—	—
Methyl Methacrylate	80626	3.00E+03	2.20E+03	—
Methyl Parathion	298000	9.90E-01	7.10E-01	—
Methyl Phosphonic Acid	993135	—	—	—
Methyl Styrene (Mixed Isomers)	25013154	5.90E+01	4.30E+01	—
Methyl tert-Butyl Ether (MTBE)	1634044	—	—	1.70E+00
Methyl-5-Nitroaniline, 2-	99558	—	—	2.90E-01
Methylanaline, N-	100618	—	—	—
Methylaniline Hydrochloride, 2-	636215	—	—	5.20E-03
Methylcyclohexane	108872	—	—	—
Methylcyclopentane	96377	—	—	—
Methylene Chloride	75092	1.20E+02	9.00E+01	6.00E-01
Methylene-bis(2-chloroaniline), 4,4'-	101144	2.30E+01	1.60E+01	2.20E-01
Methylene-bis(N,N-dimethyl) Aniline, 4,4'-	101611	—	—	5.90E-01
Methylenebisbenzenamine, 4,4'-	101779	—	—	2.60E-02
Methylenediphenyl Diisocyanate	101688	—	—	—
Methylstyrene, Alpha-	98839	6.90E+02	5.00E+02	—
Methyltriethyl Lead	1762283	—	—	—
Metolachlor	51218452	1.40E+03	9.90E+02	—
Metribuzin	21087649	8.20E+01	5.90E+01	—
Mirex	2385855	2.60E+00	1.90E+00	1.60E-02
Molinate	2212671	2.10E+01	1.50E+01	—
Molybdenum	7439987	5.10E+01	3.70E+01	—

Table H-5
Region 4 Agricultural Soil PRGs for Chemicals for Ingestion of Fruit and Vegetables

Analyte Name	CAS	Adult Ingestion of Fruit & Vegetables Contaminated Soil PRG Hazard Quotient = 1 (mg/kg)	Child Ingestion of Fruit & Vegetables Contaminated Soil PRG Hazard Quotient = 1 (mg/kg)	Ingestion of Fruit & Vegetables Contaminated Soil PRG Cancer Risk = 10^{-6} (mg/kg)
Monobutyltin Compounds		—	—	—
Monochloramine	10599903	—	—	—
Monochlorobutanes	25154421	—	—	—
N,N'-Diphenyl-1,4-benzenediamine	74317	—	—	—
Naled	300765	1.60E+01	1.10E+01	—
Naphthalene	91203	1.90E+02	1.40E+02	—
Naphthalene, 1-Methyl	90120	—	—	—
Naphthalene, 2-Methyl	91576	4.60E+01	3.30E+01	—
Napropamide	15299997	1.00E+02	7.20E+01	—
Niagara Blue 4B	2429745	—	—	—
Nickel Carbonyl	13463393	—	—	—
Nickel Refinery Dust	7	—	—	—
Nickel Soluble Salts	7440020	2.20E+02	1.60E+02	—
Nickel Subsulfide	12035722	—	—	—
Nitrapyrin	1929824	1.30E+01	9.30E+00	—
Nitrate	14797558	—	—	—
Nitric Oxide	10102439	—	—	—
Nitrite	14797650	—	—	—
Nitroaniline, 2-	88744	1.10E+01	7.80E+00	—
Nitroaniline, 3-	99092	—	—	—
Nitroaniline, 4-	100016	—	—	—
Nitrobenzene	98953	1.80E+00	1.30E+00	—
Nitrofurantoin	67209	1.70E+01	1.20E+01	—
Nitrofurazone	59870	—	—	8.30E-04
Nitrogen Dioxide	10102440	—	—	—
Nitroglycerin	55630	—	—	—
Nitroguanidine	556887	1.40E+01	9.80E+00	—
Nitromethane	75525	—	—	—
Nitrophenol, 4-	100027	3.20E+01	2.30E+01	—
Nitropropane, 2-	79469	—	—	2.00E-04
Nitroso-N-ethylurea, N-	759739	—	—	9.00E-06
Nitroso-N-methylurea, N-	684935	—	—	—
Nitroso-di-N-butylamine, N-	924163	—	—	1.60E-03
Nitroso-di-N-propylamine, N-	621647	—	—	7.40E-04
Nitrosodiethanolamine, N-	1116547	—	—	4.10E-05
Nitrosodiethylamine, N-	55185	—	—	1.20E-05
Nitrosodimethylamine, N-	62759	1.60E-03	1.20E-03	8.70E-06
Nitrosodiphenylamine, N-	86306	1.80E+02	1.30E+02	4.00E+00
Nitrosomethylethylamine, N-	10595956	—	—	4.50E-05
Nitrosomethylvinylamine, N-	4549400	—	—	—
Nitrosopyrrolidine, N-	930552	—	—	1.10E-04
Nitrotoluene, 4-Amino-2-	119324	—	—	—
Nitrotoluene, m-	99081	1.20E+02	8.70E+01	—
Nitrotoluene, o-	88722	5.60E+01	4.00E+01	5.30E-02
Nitrotoluene, p-	99990	6.00E+01	4.30E+01	7.70E-01
Norflurazon	27314132	2.20E+02	1.60E+02	—
Nustar	85509199	—	—	—
OCDD	3268879	—	—	1.90E-04
OCDF	39001020	—	—	1.90E-04
Octabromodiphenyl Ether	32536520	—	—	—
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetra (HMX) <	2691410	4.60E+01	3.30E+01	—

Table H-5
Region 4 Agricultural Soil PRGs for Chemicals for Ingestion of Fruit and Vegetables

Analyte Name	CAS	Adult Ingestion of Fruit & Vegetables Contaminated Soil PRG Hazard Quotient = 1 (mg/kg)	Child Ingestion of Fruit & Vegetables Contaminated Soil PRG Hazard Quotient = 1 (mg/kg)	Ingestion of Fruit & Vegetables Contaminated Soil PRG Cancer Risk = 10^{-6} (mg/kg)
Octamethylpyrophosphoramide	152169	4.40E-01	3.20E-01	—
Octyl Phthalate, di-N-	117840	5.30E+02	3.80E+02	—
Oryzalin	19044883	3.70E+02	2.70E+02	—
Oxadiazon	19666309	6.30E+01	4.60E+01	—
Oxamyl	23135220	5.80E+00	4.20E+00	—
Paclobutrazol	76738620	1.20E+02	8.80E+01	—
Paraquat	1910425	7.20E-03	5.20E-03	—
Parathion	56382	6.70E+01	4.80E+01	—
PeCDD, 2,3,7,8-	36088229	—	—	3.80E-07
PeCDF, 1,2,3,7,8-	57117416	—	—	3.80E-07
PeCDF, 2,3,4,7,8-	57117314	—	—	3.80E-06
Pebulate	1114712	5.60E+02	4.10E+02	—
Pendimethalin	40487421	5.20E+02	3.70E+02	—
Pentabromodiphenyl Ether	32534819	—	—	—
Pentachlorobenzene	608935	1.00E+01	7.40E+00	—
Pentachlorocyclopentadiene	25329355	—	—	—
Pentachloronitrobenzene	82688	3.70E+01	2.70E+01	1.00E-01
Pentachlorophenol	87865	3.90E+02	2.80E+02	2.40E-01
Pentyl Alcohol, N-	71410	—	—	—
Perchlorate and Perchlorate Salts	7790989	—	—	—
Permethrin	52645531	5.20E+02	3.70E+02	—
Phenanthrene	85018	—	—	—
Phenmedipham	13684634	2.00E+01	1.40E+01	—
Phenol	108952	8.00E+02	5.70E+02	—
Phenylenediamine, m-	108452	9.70E-01	7.00E-01	—
Phenylenediamine, o-	95545	—	—	3.50E-02
Phenylenediamine, p-	106503	1.70E+01	1.20E+01	—
Phenylmercuric Acetate	62384	8.50E-02	6.10E-02	—
Phenylphenol, 2-	90437	—	—	1.00E+01
Phorate	298022	6.50E-01	4.70E-01	—
Phosmet	732116	1.60E+02	1.10E+02	—
Phosphine	7803512	1.70E+00	1.20E+00	—
Phosphoric Acid	7664382	—	—	—
Phthalic Acid, P-	100210	3.30E+03	2.40E+03	—
Phthalic Anhydride	85449	3.90E+02	2.80E+02	—
Picloram	1918021	4.20E+02	3.00E+02	—
Picramic Acid (2-Amino-4,6-dinitrophenol)	96913	—	—	—
Picric Acid (2,4,6-Trinitrophenol)	88891	—	—	—
Pirimiphos, Methyl	29232937	1.20E+02	8.60E+01	—
Polybrominated Biphenyls	59536651	—	—	—
Polychlorinated Biphenyls (high risk)	1336363	—	—	1.40E-02
Polymeric Methylene Diphenyl Diisocyanate (PMDI)	9016879	—	—	—
Potassium Cyanide	151508	1.60E+01	1.10E+01	—
Potassium Perchlorate	7778747	—	—	—
Potassium Silver Cyanide	506616	—	—	—
Prochloraz	67747095	1.10E+02	7.60E+01	1.70E-01
Profluralin	26399360	7.80E+01	5.60E+01	—
Prometon	1610180	8.40E+01	6.00E+01	—
Prometryn	7287196	2.60E+01	1.90E+01	—
Propachlor	1918167	6.60E+01	4.80E+01	—

Table H-5
Region 4 Agricultural Soil PRGs for Chemicals for Ingestion of Fruit and Vegetables

Analyte Name	CAS	Adult Ingestion of Fruit & Vegetables Contaminated Soil PRG Hazard Quotient = 1 (mg/kg)	Child Ingestion of Fruit & Vegetables Contaminated Soil PRG Hazard Quotient = 1 (mg/kg)	Ingestion of Fruit & Vegetables Contaminated Soil PRG Cancer Risk = 10^{-6} (mg/kg)
Propanil	709988	4.50E+01	3.30E+01	—
Propargite	2312358	2.60E+02	1.80E+02	—
Propargyl Alcohol	107197	5.30E-01	3.80E-01	—
Propazine	139402	1.20E+02	8.70E+01	—
Propham	122429	1.90E+02	1.40E+02	—
Propiconazole	60207901	1.40E+02	9.70E+01	—
Propylene Glycol	57556	2.30E+01	1.70E+01	—
Propylene Glycol Monoethyl Ether	1569024	—	—	—
Propylene Glycol Monomethyl Ether	107982	2.40E+02	1.70E+02	—
Propylene Oxide	75569	—	—	4.10E-03
Pursuit	81335775	—	—	—
Pydrin	51630581	3.10E+02	2.20E+02	—
Pyrene	129000	3.80E+02	2.70E+02	—
Pyridine	110861	2.10E+00	1.50E+00	—
Quinalphos	13593038	4.40E+00	3.20E+00	—
Quinoline	91225	—	—	3.40E-03
Refractory Ceramic Fibers	8	—	—	—
Resmethrin	10453868	4.00E+02	2.90E+02	—
Ronnel	299843	6.40E+02	4.60E+02	—
Rotenone	83794	4.70E+01	3.40E+01	—
Savey	78587050	—	—	—
Selenious Acid	7783008	—	—	—
Selenite	14124675	—	—	—
Selenium	7782492	4.80E+01	3.40E+01	—
Selenium Sulfide	7446346	—	—	—
Selenourea	630104	—	—	—
Sethoxydim	74051802	1.10E+03	7.90E+02	—
Silver	7440224	6.60E+01	4.80E+01	—
Silver Cyanide	506649	—	—	—
Simazine	122349	2.60E+01	1.90E+01	9.30E-02
Sodium	7440235	—	—	—
Sodium Acifluorfen	62476599	—	—	—
Sodium Azide	26628228	—	—	—
Sodium Cyanide	143339	5.90E+00	4.30E+00	—
Sodium Diethyldithiocarbamate	148185	1.80E+01	1.30E+01	4.90E-03
Sodium Fluoroacetate	62748	5.70E-05	4.10E-05	—
Sodium Metavanadate	13718268	—	—	—
Sodium Perchlorate	7601890	—	—	—
Stirofos (Tetrachlorovinphos)	961115	3.10E+02	2.30E+02	9.50E-01
Strontium, Stable	7440246	4.40E+03	3.20E+03	—
Strychnine	57249	1.20E+00	8.60E-01	—
Styrene	100425	1.60E+03	1.20E+03	—
Sulfate	14808798	—	—	—
Sulfonylbis(4-chlorobenzene), 1,1'-	80079	—	—	—
Systhane	88671890	—	—	—
TCDD, 2,3,7,8-	1746016	—	—	1.90E-07
TCDF, 2,3,7,8-	51207319	—	—	1.90E-06
TCMTB	21564170	2.90E+02	2.10E+02	—
Tebuthiuron	34014181	3.70E+01	2.60E+01	—
Temephos	3383968	2.60E+02	1.90E+02	—
Terbacil	5902512	5.10E+01	3.70E+01	—
Terbufos	13071799	2.70E-01	2.00E-01	—

Table H-5
Region 4 Agricultural Soil PRGs for Chemicals for Ingestion of Fruit and Vegetables

Analyte Name	CAS	Adult Ingestion of Fruit & Vegetables Contaminated Soil PRG Hazard Quotient = 1 (mg/kg)	Child Ingestion of Fruit & Vegetables Contaminated Soil PRG Hazard Quotient = 1 (mg/kg)	Ingestion of Fruit & Vegetables Contaminated Soil PRG Cancer Risk = 10^{-6} (mg/kg)
Terbutryn	886500	1.10E+01	8.00E+00	—
Tetrabutyl Lead	1920907	—	—	—
Tetrachlorobenzene, 1,2,4,5-	95943	3.70E+00	2.70E+00	—
Tetrachloroethane, 1,1,1,2-	630206	2.60E+02	1.90E+02	7.20E-01
Tetrachloroethane, 1,1,2,2-	79345	3.60E+02	2.60E+02	6.50E-02
Tetrachloroethylene	127184	6.90E+01	5.00E+01	2.80E-02
Tetrachlorophenol, 2,3,4,6-	58902	3.50E+02	2.50E+02	—
Tetrachlorotoluene, p- alpha, alpha, alpha-	5216251	—	—	1.30E-03
Tetraethyl Dithiopyrophosphate	3689245	4.30E+00	3.10E+00	—
Tetraethyl Lead	78002	6.00E-04	4.30E-04	—
Tetrafluoroethane, 1,1,1,2-	811972	—	—	—
Tetramethyl Lead	75741	—	—	—
Tetrapropyl Lead	3440753	—	—	—
Thallic Oxide	1314325	—	—	—
Thallium (I) Nitrate	10102451	—	—	—
Thallium (Soluble Salts)	7440280	—	—	—
Thallium Acetate	563688	—	—	—
Thallium Carbonate	6533739	—	—	—
Thallium Chloride	7791120	—	—	—
Thallium Selenite	12039520	—	—	—
Thallium Sulfate	7446186	—	—	—
Thiobencarb	28249776	1.00E+02	7.30E+01	—
Thiocyanate	463569	1.80E-01	1.30E-01	—
Thiofanox	39196184	1.40E-02	1.00E-02	—
Thiophanate, Methyl	23564058	1.90E+02	1.40E+02	—
Thiram	137268	1.60E+01	1.20E+01	—
Thorium	232	—	—	—
Tin	7440315	3.70E+03	2.70E+03	—
Titanium	7440326	5.30E+04	3.80E+04	—
Toluene	108883	5.90E+02	4.20E+02	—
Toluene diisocyanate mixture (TDI)	26471625	—	—	—
Toluene-2,4-diamine	95807	—	—	4.50E-04
Toluene-2,5-diamine	95705	3.20E+02	2.30E+02	—
Toluene-2,6-diamine	823405	7.60E+01	5.50E+01	—
Toluidine, o- (Methylaniline, 2-)	95534	—	—	1.90E-02
Toluidine, p-	106490	—	—	5.00E-02
Total Petroleum Hydrocarbons (Aliphatic High)	9	—	—	—
Total Petroleum Hydrocarbons (Aliphatic Low)	10	—	—	—
Total Petroleum Hydrocarbons (Aliphatic Medium)	11	—	—	—
Total Petroleum Hydrocarbons (Aromatic High)	12	—	—	—
Total Petroleum Hydrocarbons (Aromatic Low)	13	—	—	—
Total Petroleum Hydrocarbons (Aromatic Medium)	14	—	—	—
Toxaphene	8001352	—	—	2.50E-02
Tralomethrin	66841256	—	—	—
Triallate	2303175	1.50E+02	1.10E+02	—

Table H-5
Region 4 Agricultural Soil PRGs for Chemicals for Ingestion of Fruit and Vegetables

Analyte Name	CAS	Adult Ingestion of Fruit & Vegetables Contaminated Soil PRG Hazard Quotient = 1 (mg/kg)	Child Ingestion of Fruit & Vegetables Contaminated Soil PRG Hazard Quotient = 1 (mg/kg)	Ingestion of Fruit & Vegetables Contaminated Soil PRG Cancer Risk = 10^{-6} (mg/kg)
Triasulfuron	82097505	—	—	—
Tribromobenzene, 1,2,4-	615543	6.30E+01	4.50E+01	—
Tribromochloromethane	594150	—	—	—
Tribromodiphenyl Ether	49690940	—	—	—
Tributyl Phosphate	126738	—	—	—
Tributyltin Compounds		—	—	—
Tributyltin Oxide	56359	—	—	—
Trichloro-1,2,2-trifluoroethane, 1,1,2-<sup>+</su	76131	2.10E+05	1.50E+05	—
Trichloro-2'-hydroxydiphenylether	3380345	—	—	—
Trichloroacetic Acid	76039	—	—	—
Trichloroaniline HCl, 2,4,6-	33663502	—	—	—
Trichloroaniline, 2,4,6-	634935	—	—	6.70E-01
Trichlorobenzene, 1,2,4-	120821	1.20E+02	8.40E+01	—
Trichloroethane, 1,1,1-	71556	1.30E+03	9.30E+02	—
Trichloroethane, 1,1,2-	79005	1.70E+01	1.30E+01	1.70E-01
Trichloroethylene	79016	1.80E+00	1.30E+00	3.30E-02
Trichlorofluoromethane	75694	1.90E+03	1.40E+03	—
Trichlorophenol, 2,4,5-	95954	1.10E+03	8.10E+02	—
Trichlorophenol, 2,4,6-	88062	—	—	2.20E+00
Trichlorophenoxy) Propionic Acid, 2(2,4,5-	93721	9.10E+01	6.60E+01	—
Trichlorophenoxyacetic Acid, 2,4,5-	93765	1.20E+02	8.40E+01	—
Trichloropropane, 1,1,2-	598776	1.60E+01	1.10E+01	—
Trichloropropane, 1,2,3-	96184	7.50E+01	5.40E+01	3.90E-03
Trichloropropene, 1,2,3-	96195	7.70E+01	5.50E+01	
Trichlorotoluene, 2,3,6-	2077465	—	—	—
Trichlorotoluene, alpha 2,6-	2014837	—	—	—
Tridiphane	58138082	—	—	—
Triethyl Lead	5224237	—	—	—
Triethylamine	121448	—	—	—
Trifluralin	1582098	9.70E+01	7.00E+01	3.60E+00
Trimethyl Lead	7442139	—	—	—
Trimethyl Phosphate	512561	—	—	1.10E-02
Trimethylbenzene, 1,2,4-	95636	5.60E+02	4.00E+02	—
Trimethylbenzene, 1,3,5-	108678	5.10E+02	3.70E+02	—
Trimethylethyl Lead	1762261	—	—	—
Trinitrobenzene, 1,3,5-	99354	5.70E+01	4.10E+01	—
Trinitrophenylmethylnitramine	479458	1.70E+01	1.30E+01	—
Trinitrotoluene, 2,4,6-	118967	2.80E+00	2.00E+00	4.00E-01
Triphenylphosphine Oxide	791286	—	—	—
Tripropyl Lead	6618037	—	—	—
Tris(2-chloroethyl)phosphate	115968	—	—	—
Tris(2-ethylhexyl)phosphate	78422	—	—	—
Tungsten	7440337	—	—	—
Uranium (Soluble Salts)	238	7.90E+00	5.70E+00	—
Vanadium Pentoxide	1314621	—	—	—
Vanadium Sulfate	36907423	—	—	—
Vanadium, Metallic	7440622	9.20E+01	6.60E+01	—
Vanadyl Sulfate	27774136	—	—	—
Vernolate	1929777	1.10E+01	8.10E+00	—
Vinclozolin	50471448	2.30E+02	1.60E+02	—
Vinyl Acetate	108054	1.10E+03	7.90E+02	—

Table H-5
Region 4 Agricultural Soil PRGs for Chemicals for Ingestion of Fruit and Vegetables

Analyte Name	CAS	Adult Ingestion of Fruit & Vegetables Contaminated Soil PRG Hazard Quotient = 1 (mg/kg)	Child Ingestion of Fruit & Vegetables Contaminated Soil PRG Hazard Quotient = 1 (mg/kg)	Ingestion of Fruit & Vegetables Contaminated Soil PRG Cancer Risk = 10^{-6} (mg/kg)
Vinyl Bromide	593602	—	—	—
Vinyl Chloride	75014	7.10E+00	5.10E+00	3.40E-03
Warfarin	81812	2.80E+00	2.00E+00	—
White Phosphorus	7723140	—	—	—
Xylene, Mixture	1330207	1.90E+03	1.40E+03	—
Xylene, P-	106423	—	—	—
Xylene, m-	108383	1.90E+04	1.30E+04	—
Xylene, o-	95476	1.90E+04	1.30E+04	—
Zinc (Metallic)	7440666	2.00E+03	1.40E+03	—
Zinc Cyanide	557211	—	—	—
Zinc Phosphide	1314847	—	—	—
Zineb	12122677	1.10E+02	7.70E+01	—
Zirconium	7440677	—	—	—

— = No PRG established for this chemical

mg/kg = milligrams per kilogram

PRG = Preliminary Remediation Goals

Source = Risk Assessment Information System (RAIS) developed for assessment of sites on the Oak Ridge Reservation in Oak Ridge, Tennessee and approved by EPA Region 4, , which were last updated in May 2007.

Table H-6

Updated Rural Resident PRGs including Updated OEHHA Toxicity Values and Ingestion of Fruits and Vegetables

Key : SFo,i=Cancer Slope Factor oral, inhalation RfDo,i=Reference Dose oral, inhalation i=IRIS p=PPRTV c=California EPA n=NCEA h=HEAST x=Withdrawn r=Route-extrapolation ca=Cancer PRG nc= Noncancer PRG
ca* (where: nc PRG < 100X ca PRG) ca** (where nc PRG < 10X ca PRG) +++=Non-Standard Method Applied (See User's Guide) sat=Soil Saturation (See User's Guide) max=Ceiling limit (See User's Guide)
DAF=Dilution Attenuation Factor (See User's Guide) CAS=Chemical Abstract Services

TOXICITY VALUES										CONTAMINANT	PRELIMINARY REMEDIATION GOALS (PRGs)							
							V	skin			Rural	"Direct Contact Exposure Pathways"						
SFo		RfDo		SFi		RfDi	O	abs.	CAS No.		Residential	Industrial		Ambient Air		Tap Water		
1/(mg/kg-d)		(mg/kg-d)		1/(mg/kg-d)		(mg/kg-d)	C	soils			Soil (mg/kg)	Soil (mg/kg)		(ug/m^3)		(ug/l)		
8.7E-03	i	4.0E-03	i	8.7E-03	r	4.0E-03	r	0.1	30560-19-1	Acephate	3.5E-02	ca	2.0E+02	ca	7.6E-01	ca	7.7E+00	ca
				1.0E-02	c	2.6E-03	i	y	75-07-0	Acetaldehyde	8.3E+00	ca	1.8E+01	ca	6.6E-01	ca	1.3E+00	ca
		2.0E-02	i			2.0E-02	r	0.1	34256-82-1	Acetochlor	1.2E+02	nc	1.2E+04	nc	7.3E+01	nc	7.3E+02	nc
		9.0E-01	i			9.0E-01	r	y	67-64-1	Acetone	2.1E+02	nc	5.4E+04	nc	3.3E+03	nc	5.5E+03	nc
		8.0E-04	h			8.0E-04	r	0.1	75-86-5	Acetone cyanohydrin	8.8E-01	nc	4.9E+02	nc	2.9E+00	nc	2.9E+01	nc
		1.7E-02	r			1.7E-02	i	y	75-05-8	Acetonitrile	1.2E+00	nc	1.8E+03	nc	6.2E+01	nc	1.0E+02	nc
		5.0E-04	i			1.7E-05	c	y	107-02-8	Acrolein	9.6E-02	nc	1.0E+00	nc	6.3E-02	nc	1.2E-01	nc
4.5E+00	i	2.0E-04	i	4.5E+00	i	2.0E-04	r	0.1	79-06-1	Acrylamide	8.6E-05	ca	3.8E-01	ca	1.5E-03	ca	1.5E-02	ca
		5.0E-01	i			2.9E-04	i	0.1	79-10-7	Acrylic acid	1.9E+02	nc	1.0E+05	max	1.0E+00	nc	1.8E+04	nc
								y	107-13-1	Acrylonitrile								
1.0E+00	r	1.0E-03	h	1.0E+00	c	1.4E-03	c	y		"CAL-Modified PRG"	2.3E-03	ca	1.2E-01	ca	6.6E-03	ca	1.1E-02	ca
5.6E-02	c	1.0E-02	i	8.0E-02	r	1.0E-02	r	0.1	15972-60-8	Alachlor	2.1E-01	ca	3.1E+01	ca	8.3E-02	ca	1.2E+00	ca
1.8E-02	c	1.5E-01	i	1.8E-02	c	1.5E-01	r	0.1	1596-84-5	Alar	6.4E+00	nc	9.6E+01	ca	3.7E-01	ca	3.7E+00	ca
		1.0E-03	i			1.0E-03	r	0.1	116-06-3	Aldicarb	1.3E+00	nc	6.2E+02	nc	3.7E+00	nc	3.7E+01	nc
		1.0E-03	i			1.0E-03	r	0.1	1646-88-4	Aldicarb sulfone	1.5E-01	nc	6.2E+02	nc	3.7E+00	nc	3.7E+01	nc
1.7E+01	i	3.0E-05	i	1.7E+01	c	3.0E-05	r	0.1	309-00-2	Aldrin	1.1E-03	ca	1.0E-01	ca	3.9E-04	ca	4.0E-03	ca
		2.5E-01	i			2.5E-01	r	0.1	74223-64-6	Ally	7.9E+01	nc	1.0E+05	max	9.1E+02	nc	9.1E+03	nc
		5.0E-03	i			5.0E-03	r	0.1	107-18-6	Allyl alcohol	1.2E+00	nc	3.1E+03	nc	1.8E+01	nc	1.8E+02	nc
2.1E-02	c	2.9E-04	r	2.1E-02	c	2.9E-04	i	0.1	107-05-1	Allyl chloride	1.5E+01	nc	8.2E+01	ca	3.2E-01	ca	3.2E+00	ca
		1.0E+00	p			1.4E-03	p		7429-90-5	Aluminum	8.4E+03	nc	1.0E+05	max	5.1E+00	nc	3.7E+04	nc
		4.0E-04	i						20859-73-8	Aluminum phosphide	3.1E+01	nc	4.1E+02	nc			1.5E+01	nc
		3.0E-04	i			3.0E-04	r	0.1	67485-29-4	Amdro	1.8E+01	nc	1.8E+02	nc	1.1E+00	nc	1.1E+01	nc
		9.0E-03	i			9.0E-03	r	0.1	834-12-8	Ametryn	2.2E+01	nc	5.5E+03	nc	3.3E+01	nc	3.3E+02	nc
		2.0E-04	n			2.0E-04	r	0.1	1321-12-6	Aminodinitrotoluene	1.2E+01	nc	1.2E+02	nc				
		7.0E-02	h			7.0E-02	r	0.1	591-27-5	m-Aminophenol	3.3E+01	nc	4.3E+04	nc	2.6E+02	nc	2.6E+03	nc
		2.0E-05	h			2.0E-05	r	0.1	504-24-5	4-Aminopyridine	8.8E-03	nc	1.2E+01	nc	7.3E-02	nc	7.3E-01	nc
		2.5E-03	i			2.5E-03	r	0.1	33089-61-1	Amitraz	2.0E+01	nc	1.5E+03	nc	9.1E+00	nc	9.1E+01	nc
						5.7E-02	c		7664-41-7	Ammonia	1.2E+08	nc	3.8E+08	nc	2.1E+02	nc		
		2.0E-01	i					0.1	7773-06-0	Ammonium sulfamate	1.2E+04	nc	1.0E+05	max			7.3E+03	nc
5.7E-03	i	7.0E-03	p	5.7E-03	r	2.9E-04	i	0.1	62-53-3	Aniline	5.1E-01	ca	3.0E+02	ca	1.0E+00	nc	1.2E+01	ca

Table H-6

Updated Rural Resident PRGs including Updated OEHHA Toxicity Values and Ingestion of Fruits and Vegetables

Key : SFo,i=Cancer Slope Factor oral, inhalation RfDo,i=Reference Dose oral, inhalation i=IRIS p=PPRTV c=California EPA n=NCEA h=HEAST x=Withdrawn r=Route-extrapolation ca=Cancer PRG nc= Noncancer PRG
ca* (where: nc PRG < 100X ca PRG) ca** (where nc PRG < 10X ca PRG) +++=Non-Standard Method Applied (See User's Guide) sat=Soil Saturation (See User's Guide) max=Ceiling limit (See User's Guide)
DAF=Dilution Attenuation Factor (See User's Guide) CAS=Chemical Abstract Services

TOXICITY VALUES									CONTAMINANT	PRELIMINARY REMEDIATION GOALS (PRGs)							
						V	skin			Rural	"Direct Contact Exposure Pathways"						
SFo		RfDo		SFi		O	abs.	CAS No.		Residential		Industrial		Ambient Air		Tap Water	
1/(mg/kg-d)		(mg/kg-d)		1/(mg/kg-d)		C	soils			Soil (mg/kg)		Soil (mg/kg)		(ug/m^3)		(ug/l)	
		4.0E-04	i					7440-36-0	Antimony and compounds	3.3E+00	nc	4.1E+02	nc			1.5E+01	nc
		1.3E-02	i			1.3E-02	r	0.1	74115-24-5 Apollo	7.6E+01	nc	8.0E+03	nc	4.7E+01	nc	4.7E+02	nc
3.0E-02	c	5.0E-02	h	3.0E-02	c	5.0E-02	r	0.1	140-57-8 Aramite	1.0E+00	ca	5.7E+01	ca	2.2E-01	ca	2.2E+00	ca
								0.03	7440-38-2 Arsenic								
9.5E+00	c	3.0E-04	i	1.2E+01	c	8.6E-06	c	0.03	"CAL-Modified PRG"	1.4E-02	ca	2.5E-01	ca	5.5E-04	ca	7.1E-03	ca
						1.4E-05	i		7784-42-1 Arsine	2.9E+04	nc	9.6E+04	nc	5.2E-02	nc		
		9.0E-03	i			9.0E-03	r	0.1	76578-14-8 Assure	6.8E+01	nc	5.5E+03	nc	3.3E+01	nc	3.3E+02	nc
		5.0E-02	i			5.0E-02	r	0.1	3337-71-1 Asulam	1.1E+01	nc	3.1E+04	nc	1.8E+02	nc	1.8E+03	nc
2.3E-01	c	3.5E-02	i	2.2E-01	r	3.5E-02	r	0.1	1912-24-9 Atrazine	7.0E-02	ca	7.5E+00	ca	3.0E-02	ca	2.9E-01	ca
		4.0E-04	i			4.0E-04	r	0.1	71751-41-2 Avermectin B1	2.4E+01	nc	2.5E+02	nc	1.5E+00	nc	1.5E+01	nc
1.1E-01	i			1.1E-01	c			0.1	103-33-3 Azobenzene	2.1E-01	ca	1.6E+01	ca	6.0E-02	ca	6.1E-01	ca
		7.0E-02	i			1.4E-04	h		7440-39-3 Barium and compounds	1.4E+03	nc	6.7E+04	nc	5.2E-01	nc	2.6E+03	nc
		4.0E-03	i			4.0E-03	r	0.1	114-26-1 Baygon	8.2E+00	nc	2.5E+03	nc	1.5E+01	nc	1.5E+02	nc
		3.0E-02	i			3.0E-02	r	0.1	43121-43-3 Bayleton	1.1E+02	nc	1.8E+04	nc	1.1E+02	nc	1.1E+03	nc
		2.5E-02	i			2.5E-02	r	0.1	68359-37-5 Baythroid	2.1E+02	nc	1.5E+04	nc	9.1E+01	nc	9.1E+02	nc
		3.0E-01	i			3.0E-01	r	0.1	1861-40-1 Benefin	2.4E+03	nc	1.0E+05	max	1.1E+03	nc	1.1E+04	nc
		5.0E-02	i			5.0E-02	r	0.1	17804-35-2 Benomyl	1.9E+02	nc	3.1E+04	nc	1.8E+02	nc	1.8E+03	nc
		3.0E-02	i			3.0E-02	r	0.1	25057-89-0 Bentazon	3.6E+01	nc	1.8E+04	nc	1.1E+02	nc	1.1E+03	nc
		1.0E-01	i			1.0E-01	r	0.1	100-52-7 Benzaldehyde	3.8E+02	nc	6.2E+04	nc	3.7E+02	nc	3.7E+03	nc
1.0E-01	c	4.0E-03	i	1.0E-01	c	1.7E-02	c	y	71-43-2 Benzene	9.1E-02	ca	3.9E-01	ca	6.6E-02	ca	1.1E-01	ca
5.0E+02	c	3.0E-03	i	5.0E+02	c	3.0E-03	r	0.1	92-87-5 Benzidine	2.0E-05	ca	3.4E-03	ca	1.3E-05	ca	1.3E-04	ca
		4.0E+00	i			4.0E+00	r	0.1	65-85-0 Benzoic acid	1.0E+05	max	1.0E+05	max	1.5E+04	nc	1.5E+05	nc
1.3E+01	i			1.3E+01	r			0.1	98-07-7 Benzotrichloride	1.3E-03	ca	1.3E-01	ca	5.1E-04	ca	5.2E-03	ca
		3.0E-01	h			3.0E-01	r	0.1	100-51-6 Benzyl alcohol	5.9E+02	nc	1.0E+05	max	1.1E+03	nc	1.1E+04	nc
1.7E-01	i	2.9E-03	r	1.7E-01	r	2.9E-03	n	y	100-44-7 Benzyl chloride	6.6E-02	ca	2.2E+00	ca	3.9E-02	ca	6.5E-02	ca
		2.0E-03	i	8.4E+00	i	2.0E-06	c		7440-41-7 Beryllium and compounds	6.6E-03	ca	1.8E+03	nc	7.9E-04	ca	7.3E+01	nc
		1.0E-04	i			1.0E-04	r	0.1	141-66-2 Bidrin	1.3E-02	nc	6.2E+01	nc	3.7E-01	nc	3.7E+00	nc
		1.5E-02	i			1.5E-02	r	0.1	82657-04-3 Biphenthrin (Talstar)	9.2E+02	nc	9.2E+03	nc	5.5E+01	nc	5.5E+02	nc
		5.0E-02	i			5.0E-02	r	y	92-52-4 1,1-Biphenyl	3.7E+02	nc	2.3E+04	nc	1.8E+02	nc	3.0E+02	nc
2.5E+00	c			2.5E+00	c			y	111-44-4 Bis(2-chloroethyl)ether	4.0E-03	ca	2.5E-01	ca	2.7E-03	ca	4.4E-03	ca