

Appendix B:

TERA Reading of Rauh et al. (2011) Figure 1A. The first 33 points are zero or non-detectable and have been assigned chlorpyrifos levels with Rauh et al. (2011) page 1198. Specifically, 80% at 0.5pg/g and 20% 1.0pg/g. This set of data points was read from Figure 1A Rauh et al. (2011).

CPN (pg/g)	log Chlorpyrifos (pg/g)	ln Chlorpyrifos (pg/g)	ln Working Memory Index	Working Memory Index	Probits
0.5	-0.3	-0.7	4.26	71	-1.95
0.5	-0.3	-0.7	4.35	77	-1.50
0.5	-0.3	-0.7	4.38	80	-1.34
0.5	-0.3	-0.7	4.38	80	-1.34
0.5	-0.3	-0.7	4.45	86	-0.96
0.5	-0.3	-0.7	4.47	87	-0.84
0.5	-0.3	-0.7	4.47	87	-0.84
0.5	-0.3	-0.7	4.51	91	-0.61
0.5	-0.3	-0.7	4.55	95	-0.36
0.5	-0.3	-0.7	4.55	95	-0.36
0.5	-0.3	-0.7	4.58	98	-0.17
0.5	-0.3	-0.7	4.58	98	-0.17
0.5	-0.3	-0.7	4.6	99	-0.03
0.5	-0.3	-0.7	4.63	103	0.17

CPN (pg/g)	log Chlorpyrifos (pg/g)	ln Chlorpyrifos (pg/g)	ln Working Memory Index	Working Memory Index	Probits
0.5	-0.3	-0.7	4.63	103	0.17
0.5	-0.3	-0.7	4.65	105	0.31
0.5	-0.3	-0.7	4.68	108	0.52
0.5	-0.3	-0.7	4.68	108	0.52
0.5	-0.3	-0.7	4.7	110	0.66
0.5	-0.3	-0.7	4.7	110	0.66
0.5	-0.3	-0.7	4.73	113	0.89
0.5	-0.3	-0.7	4.75	116	1.04
0.5	-0.3	-0.7	4.75	116	1.04
0.5	-0.3	-0.7	4.79	120	1.35
0.5	-0.3	-0.7	4.81	123	1.52
1.0	0.0	0.0	4.42	83	-1.13
1.0	0.0	0.0	4.51	91	-0.61
1.0	0.0	0.0	4.55	95	-0.36
1.0	0.0	0.0	4.6	99	-0.03
1.0	0.0	0.0	4.65	105	0.31
1.0	0.0	0.0	4.68	108	0.52
1.0	0.0	0.0	4.73	113	0.89
1.0	0.0	0.0	4.81	123	1.52
2.25	0.1	0.2	4.26	71	-1.95
13	1.1	2.6	4.22	68	-2.13
3.75	0.6	1.3	4.3	74	-1.75

CPN (pg/g)	log Chlorpyrifos (pg/g)	ln Chlorpyrifos (pg/g)	ln Working Memory Index	Working Memory Index	Probits
8	0.9	2.1	4.35	77	-1.50
3	0.5	1.1	4.35	77	-1.50
1.2	0.1	0.2	4.35	77	-1.50
12	1.1	2.5	4.38	80	-1.34
8.7	0.9	2.2	4.38	80	-1.34
6.25	0.8	1.8	4.38	80	-1.34
6	0.8	1.8	4.38	80	-1.34
4	0.6	1.4	4.38	80	-1.34
3.75	0.6	1.3	4.38	80	-1.34
15	1.2	2.7	4.42	83	-1.13
12	1.1	2.5	4.42	83	-1.13
10	1.0	2.3	4.42	83	-1.13
6.25	0.8	1.8	4.42	83	-1.13
6.24	0.8	1.8	4.42	83	-1.13
6.23	0.8	1.8	4.42	83	-1.13
4	0.6	1.4	4.42	83	-1.13
3	0.5	1.1	4.42	83	-1.13
3	0.5	1.1	4.42	83	-1.13
2.5	0.4	0.9	4.42	83	-1.13
2.3	0.4	0.8	4.42	83	-1.13
2	0.3	0.7	4.42	83	-1.13
2.1	0.3	0.7	4.42	83	-1.13

CPN (pg/g)	log Chlorpyrifos (pg/g)	ln Chlorpyrifos (pg/g)	ln Working Memory Index	Working Memory Index	Probits
6.25	0.8	1.8	4.43	84	-1.07
21.3	1.3	3.1	4.45	86	-0.96
16.3	1.2	2.8	4.45	86	-0.96
17	1.2	2.8	4.45	86	-0.96
11	1.0	2.4	4.45	86	-0.96
9.5	1.0	2.3	4.45	86	-0.96
7.5	0.9	2.0	4.45	86	-0.96
5	0.7	1.6	4.45	86	-0.96
4.2	0.6	1.4	4.45	86	-0.96
2.5	0.4	0.9	4.45	86	-0.96
15	1.2	2.7	4.47	87	-0.84
13.8	1.1	2.6	4.47	87	-0.84
11	1.0	2.4	4.47	87	-0.84
5	0.7	1.6	4.47	87	-0.84
3	0.5	1.1	4.47	87	-0.84
2.9	0.5	1.1	4.47	87	-0.84
1.25	0.1	0.2	4.47	87	-0.84
23	1.4	3.1	4.52	92	-0.54
8	0.9	2.1	4.52	92	-0.54
7	0.8	1.9	4.52	92	-0.54
6.5	0.8	1.9	4.52	92	-0.54
5	0.7	1.6	4.52	92	-0.54

CPN (pg/g)	log Chlorpyrifos (pg/g)	ln Chlorpyrifos (pg/g)	ln Working Memory Index	Working Memory Index	Probits
4.8	0.7	1.6	4.52	92	-0.54
2.5	0.4	0.9	4.52	92	-0.54
2.3	0.4	0.8	4.52	92	-0.54
7	0.8	1.9	4.55	95	-0.36
5	0.7	1.6	4.55	95	-0.36
4	0.6	1.4	4.55	95	-0.36
3.75	0.6	1.3	4.55	95	-0.36
2.6	0.4	1.0	4.55	95	-0.36
2.5	0.4	0.9	4.55	95	-0.36
2.4	0.4	0.9	4.55	95	-0.36
2.2	0.3	0.8	4.55	95	-0.36
2	0.3	0.7	4.55	95	-0.36
1	0.0	0.0	4.55	95	-0.36
1	0.0	0.0	4.55	95	-0.36
12	1.1	2.5	4.58	98	-0.17
5.5	0.7	1.7	4.58	98	-0.17
3.75	0.6	1.3	4.58	98	-0.17
4	0.6	1.4	4.58	98	-0.17
4.1	0.6	1.4	4.58	98	-0.17
2.5	0.4	0.9	4.58	98	-0.17
2.3	0.4	0.8	4.58	98	-0.17
1.25	0.1	0.2	4.58	98	-0.17

CPN (pg/g)	log Chlorpyrifos (pg/g)	ln Chlorpyrifos (pg/g)	ln Working Memory Index	Working Memory Index	Probits
1.1	0.0	0.1	4.58	98	-0.17
12.6	1.1	2.5	4.6	99	-0.03
10	1.0	2.3	4.6	99	-0.03
8.75	0.9	2.2	4.6	99	-0.03
4.9	0.7	1.6	4.6	99	-0.03
4.8	0.7	1.6	4.6	99	-0.03
3.8	0.6	1.3	4.6	99	-0.03
2.5	0.4	0.9	4.6	99	-0.03
3	0.5	1.1	4.6	99	-0.03
3.6	0.6	1.3	4.6	99	-0.03
2.3	0.4	0.8	4.6	99	-0.03
11.3	1.1	2.4	4.63	103	0.17
8.75	0.9	2.2	4.63	103	0.17
7	0.8	1.9	4.63	103	0.17
3.75	0.6	1.3	4.63	103	0.17
4.25	0.6	1.4	4.63	103	0.17
2.5	0.4	0.9	4.63	103	0.17
2.6	0.4	1.0	4.63	103	0.17
1.25	0.1	0.2	4.63	103	0.17
1.2	0.1	0.2	4.63	103	0.17
2	0.3	0.7	4.63	103	0.17
1	0.0	0.0	4.63	103	0.17

CPN (pg/g)	log Chlorpyrifos (pg/g)	ln Chlorpyrifos (pg/g)	ln Working Memory Index	Working Memory Index	Probits
1.1	0.0	0.1	4.63	103	0.17
16	1.2	2.8	4.65	105	0.31
10	1.0	2.3	4.65	105	0.31
6.25	0.8	1.8	4.65	105	0.31
7	0.8	1.9	4.65	105	0.31
3.75	0.6	1.3	4.65	105	0.31
3.8	0.6	1.3	4.65	105	0.31
3.9	0.6	1.4	4.65	105	0.31
4	0.6	1.4	4.65	105	0.31
2.5	0.4	0.9	4.65	105	0.31
2.6	0.4	1.0	4.65	105	0.31
2	0.3	0.7	4.65	105	0.31
9	1.0	2.2	4.68	108	0.52
8	0.9	2.1	4.68	108	0.52
6.25	0.8	1.8	4.68	108	0.52
4.9	0.7	1.6	4.68	108	0.52
4.2	0.6	1.4	4.68	108	0.52
3.75	0.6	1.3	4.68	108	0.52
2.6	0.4	1.0	4.68	108	0.52
2.4	0.4	0.9	4.68	108	0.52
2	0.3	0.7	4.68	108	0.52
1.1	0.0	0.1	4.68	108	0.52

CPN (pg/g)	log Chlorpyrifos (pg/g)	ln Chlorpyrifos (pg/g)	ln Working Memory Index	Working Memory Index	Probits
11	1.0	2.4	4.7	110	0.66
4.9	0.7	1.6	4.7	110	0.66
2.7	0.4	1.0	4.7	110	0.66
2.9	0.5	1.1	4.7	110	0.66
1.75	0.2	0.6	4.7	110	0.66
1.25	0.1	0.2	4.7	110	0.66
14	1.1	2.6	4.73	113	0.89
9	1.0	2.2	4.73	113	0.89
5	0.7	1.6	4.73	113	0.89
2.6	0.4	1.0	4.73	113	0.89
1.25	0.1	0.2	4.73	113	0.89
1.2	0.1	0.2	4.73	113	0.89
9	1.0	2.2	4.75	116	1.04
4	0.6	1.4	4.75	116	1.04
2.6	0.4	1.0	4.75	116	1.04
2.4	0.4	0.9	4.75	116	1.04
1.25	0.1	0.2	4.75	116	1.04
1.2	0.1	0.2	4.75	116	1.04
3.75	0.6	1.3	4.79	120	1.35
1.2	0.1	0.2	4.79	120	1.35
5.1	0.7	1.6	4.81	123	1.52
3.75	0.6	1.3	4.81	123	1.52

CPN (pg/g)	log Chlorpyrifos (pg/g)	ln Chlorpyrifos (pg/g)	ln Working Memory Index	Working Memory Index	Probits
1.75	0.2	0.6	4.81	123	1.52
2	0.3	0.7	4.81	123	1.52

TERA Reading of Rauh et al. (2011) Figure 1E. The first 60 Points are zero or non-detectable and have been assigned chlorpyrifos levels consistent with the Rauh et al. (2011) page 1198. Specifically, 80% at .05pg/g and 20% 1.0 pg/g. This set of data points was read from Figure 1E of Rauh et al. (2011).

Chlorpyrifos (pg/g)	log Chlorpyrifos (pg/g)	ln Chlorpyrifos (pg/g)	ln Full Scale Composite Score	Full Scale Composite Score
0.5	-0.30	-0.7	4.27	72
0.5	-0.30	-0.7	4.32	75
1	0.00	0.0	4.34	77
0.5	-0.30	-0.7	4.35	77
0.5	-0.30	-0.7	4.38	80

Chlorpyrifos (pg/g)	log Chlorpyrifos (pg/g)	ln Chlorpyrifos (pg/g)	ln Full Scale Composite Score	Full Scale Composite Score
0.5	-0.30	-0.7	4.39	81
0.5	-0.30	-0.7	4.43	84
1	0.00	0.0	4.43	84
0.5	-0.30	-0.7	4.44	85
0.5	-0.30	-0.7	4.45	86
0.5	-0.30	-0.7	4.46	86
0.5	-0.30	-0.7	4.46	86
1	0.00	0.0	4.48	88
0.5	-0.30	-0.7	4.48	88
0.5	-0.30	-0.7	4.49	89
0.5	-0.30	-0.7	4.5	90
0.5	-0.30	-0.7	4.51	91
1	0.00	0.0	4.52	92
0.5	-0.30	-0.7	4.53	93
0.5	-0.30	-0.7	4.53	93
0.5	-0.30	-0.7	4.54	94
0.5	-0.30	-0.7	4.55	95
1	0.00	0.0	4.55	95
0.5	-0.30	-0.7	4.56	96
0.5	-0.30	-0.7	4.56	96
0.5	-0.30	-0.7	4.57	97
0.5	-0.30	-0.7	4.57	97

Chlorpyrifos (pg/g)	log Chlorpyrifos (pg/g)	ln Chlorpyrifos (pg/g)	ln Full Scale Composite Score	Full Scale Composite Score
1	0.00	0.0	4.58	98
0.5	-0.30	-0.7	4.59	98
0.5	-0.30	-0.7	4.59	98
0.5	-0.30	-0.7	4.6	99
0.5	-0.30	-0.7	4.61	100
1	0.00	0.0	4.61	100
0.5	-0.30	-0.7	4.62	101
0.5	-0.30	-0.7	4.62	101
0.5	-0.30	-0.7	4.63	103
0.5	-0.30	-0.7	4.63	103
1	0.00	0.0	4.64	104
0.5	-0.30	-0.7	4.64	104
0.5	-0.30	-0.7	4.65	105
0.5	-0.30	-0.7	4.66	106
0.5	-0.30	-0.7	4.67	107
1	0.00	0.0	4.68	108
0.5	-0.30	-0.7	4.68	108
0.5	-0.30	-0.7	4.69	109
0.5	-0.30	-0.7	4.69	109
0.5	-0.30	-0.7	4.7	110
1	0.00	0.0	4.71	111
0.5	-0.30	-0.7	4.72	112

Chlorpyrifos (pg/g)	log Chlorpyrifos (pg/g)	ln Chlorpyrifos (pg/g)	ln Full Scale Composite Score	Full Scale Composite Score
0.5	-0.30	-0.7	4.72	112
0.5	-0.30	-0.7	4.73	113
0.5	-0.30	-0.7	4.73	113
1	0.00	0.0	4.74	114
0.5	-0.30	-0.7	4.75	116
0.5	-0.30	-0.7	4.76	117
0.5	-0.30	-0.7	4.78	119
0.5	-0.30	-0.7	4.79	120
1	0.00	0.0	4.8	122
0.5	-0.30	-0.7	4.81	123
0.5	-0.30	-0.7	4.81	123
13	1.11	2.6	4.22	68
6	0.78	1.8	4.25	70
10	1.00	2.3	4.31	74
1.2	0.08	0.2	4.31	74
1.75	0.24	0.6	4.33	76
5.75	0.76	1.7	4.35	77
1.25	0.10	0.2	4.35	77
1.1	0.04	0.1	4.35	77
6.25	0.80	1.8	4.37	79
16.5	1.22	2.8	4.39	81
4.5	0.65	1.5	4.39	81

Chlorpyrifos (pg/g)	log Chlorpyrifos (pg/g)	ln Chlorpyrifos (pg/g)	ln Full Scale Composite Score	Full Scale Composite Score
1.2	0.08	0.2	4.39	81
14.75	1.17	2.7	4.41	82
4	0.60	1.4	4.42	83
3.75	0.57	1.3	4.42	83
8	0.90	2.1	4.43	84
6.25	0.80	1.8	4.43	84
1.25	0.10	0.2	4.43	84
21	1.32	3.0	4.44	85
3	0.48	1.1	4.45	86
2.5	0.40	0.9	4.45	86
10	1.00	2.3	4.46	86
4.75	0.68	1.6	4.46	86
4.25	0.63	1.4	4.46	86
2.5	0.40	0.9	4.46	86
2.25	0.35	0.8	4.46	86
2	0.30	0.7	4.46	86
1.25	0.10	0.2	4.46	86
12	1.08	2.5	4.48	88
4.75	0.68	1.6	4.48	88
2.2	0.34	0.8	4.48	88
2.1	0.32	0.7	4.48	88
4.5	0.65	1.5	4.49	89

Chlorpyrifos (pg/g)	log Chlorpyrifos (pg/g)	ln Chlorpyrifos (pg/g)	ln Full Scale Composite Score	Full Scale Composite Score
3.5	0.54	1.3	4.49	89
2.5	0.40	0.9	4.49	89
2	0.30	0.7	4.49	89
17	1.23	2.8	4.5	90
6	0.78	1.8	4.5	90
14.75	1.17	2.7	4.51	91
7.25	0.86	2.0	4.52	92
6	0.78	1.8	4.52	92
4.25	0.63	1.4	4.52	92
3.75	0.57	1.3	4.52	92
1.9	0.28	0.6	4.52	92
1.7	0.23	0.5	4.52	92
1.25	0.10	0.2	4.52	92
8.25	0.92	2.1	4.53	93
5.25	0.72	1.7	4.53	93
2.9	0.46	1.1	4.53	93
2.25	0.35	0.8	4.53	93
2	0.30	0.7	4.53	93
11	1.04	2.4	4.54	94
3.75	0.57	1.3	4.54	94
23	1.36	3.1	4.55	95
7.5	0.88	2.0	4.55	95

Chlorpyrifos (pg/g)	log Chlorpyrifos (pg/g)	ln Chlorpyrifos (pg/g)	ln Full Scale Composite Score	Full Scale Composite Score
4	0.60	1.4	4.55	95
2.8	0.45	1.0	4.55	95
1.75	0.24	0.6	4.55	95
8.5	0.93	2.1	4.56	96
2.8	0.45	1.0	4.56	96
5.9	0.77	1.8	4.57	97
4.75	0.68	1.6	4.57	97
4.25	0.63	1.4	4.57	97
2.5	0.40	0.9	4.57	97
2.25	0.35	0.8	4.57	97
16	1.20	2.8	4.59	98
11.8	1.07	2.5	4.59	98
8.75	0.94	2.2	4.59	98
6.8	0.83	1.9	4.59	98
3.85	0.59	1.3	4.59	98
2.5	0.40	0.9	4.59	98
2.25	0.35	0.8	4.59	98
1.75	0.24	0.6	4.59	98
1.25	0.10	0.2	4.59	98
1.1	0.04	0.1	4.59	98
4.75	0.68	1.6	4.6	99
2.55	0.41	0.9	4.6	99

Chlorpyrifos (pg/g)	log Chlorpyrifos (pg/g)	ln Chlorpyrifos (pg/g)	ln Full Scale Composite Score	Full Scale Composite Score
2.25	0.35	0.8	4.6	99
4.5	0.65	1.5	4.61	100
2.5	0.40	0.9	4.61	100
1.75	0.24	0.6	4.61	100
13	1.11	2.6	4.62	101
11	1.04	2.4	4.62	101
7.25	0.86	2.0	4.62	101
7	0.85	1.9	4.62	101
5.45	0.74	1.7	4.62	101
4.6	0.66	1.5	4.62	101
4.25	0.63	1.4	4.62	101
3.75	0.57	1.3	4.62	101
2.5	0.40	0.9	4.62	101
9.75	0.99	2.3	4.63	103
6	0.78	1.8	4.63	103
1.8	0.26	0.6	4.63	103
1.22	0.09	0.2	4.63	103
1.1	0.04	0.1	4.63	103
2.9	0.46	1.1	4.64	104
2.4	0.38	0.9	4.64	104
1.45	0.16	0.4	4.64	104
1.1	0.04	0.1	4.64	104

Chlorpyrifos (pg/g)	log Chlorpyrifos (pg/g)	ln Chlorpyrifos (pg/g)	ln Full Scale Composite Score	Full Scale Composite Score
11.4	1.06	2.4	4.65	105
4.9	0.69	1.6	4.65	105
3.9	0.59	1.4	4.65	105
3.75	0.57	1.3	4.65	105
2.6	0.41	1.0	4.65	105
2	0.30	0.7	4.65	105
1.5	0.18	0.4	4.65	105
11.9	1.08	2.5	4.66	106
4.75	0.68	1.6	4.66	106
3.9	0.59	1.4	4.66	106
2.35	0.37	0.9	4.66	106
2.25	0.35	0.8	4.66	106
9.75	0.99	2.3	4.67	107
6.8	0.83	1.9	4.67	107
4.15	0.62	1.4	4.67	107
3	0.48	1.1	4.67	107
2.6	0.41	1.0	4.67	107
6	0.78	1.8	4.68	108
5	0.70	1.6	4.68	108
4	0.60	1.4	4.68	108
2.8	0.45	1.0	4.68	108
2.65	0.42	1.0	4.68	108

Chlorpyrifos (pg/g)	log Chlorpyrifos (pg/g)	ln Chlorpyrifos (pg/g)	ln Full Scale Composite Score	Full Scale Composite Score
2	0.30	0.7	4.68	108
1.7	0.23	0.5	4.68	108
1.5	0.18	0.4	4.68	108
11	1.04	2.4	4.69	109
8.6	0.93	2.2	4.69	109
6.25	0.80	1.8	4.69	109
4.25	0.63	1.4	4.69	109
3.1	0.49	1.1	4.69	109
3	0.48	1.1	4.69	109
2.5	0.40	0.9	4.69	109
1.6	0.20	0.5	4.69	109
1.2	0.08	0.2	4.69	109
6.6	0.82	1.9	4.7	110
1	0.00	0.0	4.7	110
8.75	0.94	2.2	4.71	111
8	0.90	2.1	4.71	111
13.8	1.14	2.6	4.72	112
8.65	0.94	2.2	4.72	112
5	0.70	1.6	4.72	112
3.9	0.59	1.4	4.72	112
11	1.04	2.4	4.73	113
9.5	0.98	2.3	4.73	113

Chlorpyrifos (pg/g)	log Chlorpyrifos (pg/g)	ln Chlorpyrifos (pg/g)	ln Full Scale Composite Score	Full Scale Composite Score
4.6	0.66	1.5	4.73	113
4.5	0.65	1.5	4.73	113
4.8	0.68	1.6	4.74	114
4	0.60	1.4	4.74	114
2.65	0.42	1.0	4.74	114
1.25	0.10	0.2	4.74	114
2.2	0.34	0.8	4.75	116
5.15	0.71	1.6	4.76	117
2.75	0.44	1.0	4.76	117
2.7	0.43	1.0	4.76	117
1.22	0.09	0.2	4.76	117
1.25	0.10	0.2	4.77	118
1.2	0.08	0.2	4.77	118
4.2	0.62	1.4	4.78	119
8.75	0.94	2.2	4.79	120
4.85	0.69	1.6	4.79	120
1	0.00	0.0	4.79	120
10.75	1.03	2.4	4.8	122
6	0.78	1.8	4.8	122