

Pesticides and Nitrate Detected in Greenfields Bench Water, 2008

Analyte	Common Trade Names	Sites Detected (Groundwater) (Surface water)	Minimum Concentration (ppb)	Maximum Concentration (ppb)	Median Concentration (ppb)	Drinking Water Standard (ppb)	Lowest Available Aquatic Life Benchmark (ppb)
2,4-D	Various	S-2, S-4, S-6, S-7, S-8	<0.0045	0.44	0.026	70	299.2
Aminopyralid*	Milestone, Cleanwave	S-7	0.28	0.28	--	--	--
Atrazine	Aatrex	G-10, S-4	<0.0022	<0.0022	--	3	--
Azoxystrobin	Abound, Quatris	F-1, G-9, S-2, S-4, S-6, S-7, S-8	<0.0011	0.013	0.0034	1,000	--
Bentazon	Basagran	G-15, S-7	<0.0011	0.0024	--	200	4,500
Bromacil	Hyvar, Total, Bareground	S-6	<0.0074	<0.0074	--	90	6.8
Chlorsulfuron	Glean, Telar	G-13	<0.0056	0.0064	--	1,750	--
Clopyralid	Reclaim, Stinger, Transline	F-1, G-9, G-11, PWS-1, S-2, S-4, S-7, S-8	<0.022	1.0	0.087	3,500	--
Deeethyl Atrazine	Aatrex	G-10	<0.0017	<0.0017	--	3**	--
Diuron	Diuron, Karmex, Topsite	S-2	<0.01	<0.01	--	10	2.4
Hexazinone	Velpar, Pronone	G-15, S-2	<0.0059	0.055	0.0051	400	--
Imazamethabenz	Assert	F-1, G-9, G-10, G-11, G-13, G-14, G-15, PWS-1, S-2, S-4, S-6, S-7, S-8	0.0046	0.6	0.038	400**	--
Imazamethabenz metabolite	Assert	F-1, G-9, G-10, G-11, G-13, G-14, G-15, PWS-1, S-2, S-4, S-6, S-7, S-8	0.012	0.22	0.055	400**	--
Imazamox	Raptor, Odessy, Meridian, Viper	G-9, G-11, G-15, S-2, S-6, S-8	<0.012	0.056	0.031	20,000	--
Imazpyr	Arsenal, Chopper, Assault, Stalker	G-10	<0.011	<0.011	--	21,000	--
Imidacloprid	Admire, Gaucho, Marathon, Pravado	F-1, G-11, PWS-1	0.0018	0.0048	0.0035	400	--
MCPA	Encore, MCPA	S-6, S-7, S-8	0.0036	0.0075	0.0043	4	20
Nitrate	Fertilizer	F-1, G-9, G-10, G-11, G-13, G-14, G-15, PWS-1, S-2, S-4, S-6, S-7, S-8	1.0	19	5.0	10	--
NOA 407854	Axial	F-1, G-9, G-10, G-11, G-13, G-14, G-15, PWS-1, S-2, S-4, S-6, S-7, S-8	<0.0052	0.77	0.046	2000**	--
NOA 447204	Axial	F-1, G-9, G-10, G-11, G-13, G-14, G-15, PWS-1, S-2, S-4, S-6, S-7, S-8	<0.01	0.22	0.05	2000**	--
Prometon	Pamitol, Trimec	G-9, G-11, G-13, G-14, PWS-1, S-4, S-6	<0.0051	0.1	0.032	100	--
Propiconazole	Banner, Orbit, Radar, Tilt	G-9, S-4, S-6, S-7, S-8	<0.01	0.082	--	--	--
Prosulfuron*	Peak, Exceed	S-6	<0.005	<0.005	--	--	--
Tebuthiuron	Spike, Combine	G-9, G-10, G-11, S-2, S-4, S-6, S-7, S-8	<0.0011	0.0024	--	500	50
Tralkoxydim	Achieve	G-10, G-11, PWS-1, S-2, S-4, S-6, S-8	<0.0051	0.011	--	20**	--
Tralkoxydim acid	Achieve	G-10, G-11	<0.005	<0.005	--	20**	--
Triasulfuron	Amber	F-1, G-9, G-10, G-11, G-13, G-14, G-15, PWS-1, S-2, S-4, S-6, S-7, S-8	<0.026	0.26	0.1	70	--

* First ever detection on the Greensfield Bench

** Parent and metabolite (degradate) concentrations are added together before comparing to the drinking water standard