

Surficial Soil Sampling Analysis Results **Golden Grove Elementary School**

Categories	Analyte	Units	Results		MDL	Soil Clean-up Target Level
						FDEP 62-777 F.A.C.
Metals						
	Mercury	mg/kg	0.0046U	0.0047U	0.0046	3
	Arsenic	mg/kg	0.67U	0.68U	0.67	2.1
	Barium	mg/kg	6.41I	11.4	0.35	120
	Cadmium	mg/kg	0.18U	0.19U	0.18	82
	Chromium	mg/kg	2.40	3.44	0.38	210
	Copper	mg/kg	4.49	3.95	0.34	150
	Lead	mg/kg	1.38	1.92	0.96	400
	Selenium	mg/kg	0.70U	0.72U	0.70	440
	Silver	mg/kg	0.18U	0.19U	0.18	410
Semi-Volatiles						
Organic Compounds						
	4,4-DDD	ug/kg	0.277U4	0.182U	0.277	4200
	4,4-DDE	ug/kg	0.302U4	0.208U	0.302	2900
	4,4-DDT	ug/kg	2.32I5	0.449U	0.439	2900
	Aldrin	ug/kg	0.160U	0.164U	0.160	60
	Dieldrin	ug/kg	0.249U4	0.186U	0.249	60
	Endosulfan I	ug/kg	0.204U	0.209U	0.204	4500000
	Endosulfan II	ug/kg	0.374U	0.382U	0.374	4500000
	Endosulfan sulfate	ug/kg	0.067U	0.068U	0.067	4500000

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	Endrin	ug/Kg	0.209U	0.213U	0.209	25000
	Endrin aldehyde	ug/Kg	0.198U	0.202U	0.198	25000
	Endrin ketone	ug/Kg	0.170U	0.174U	0.170	25000
	Heptachlor	ug/Kg	0.256U	0.261U	0.256	200
	Heptachlor epoxide	ug/Kg	0.236U	0.241U	0.236	100
	Methoxychlor	ug/Kg	0.381U	0.389U	0.381	420000
	Toxaphene	ug/Kg	21.6U	22.1U	21.6	900
	alpha-BHC	ug/Kg	0.410U	0.419U	0.410	100
	alpha-Chlordane	ug/Kg	0.231U	0.236U	0.231	2800
	beta-BHC	ug/Kg	0.273U	0.279U	0.273	500
	delta-BHC	ug/Kg	1.76I	1.80I	0.532	24000
	gamma-BHC (Lindane)	ug/Kg	0.634U	0.648U	0.634	700
	gamma-Chlordane	ug/Kg	0.275U4	0.207U4	0.275	2800
	PCB 1016	ug/Kg	2.5U3,J	2.6U3,J	2.5	500
	PCB 1221	ug/Kg	15U	16U	15	500
	PCB 1232	ug/Kg	5.5U	5.6U	5.5	500
	PCB 1242	ug/Kg	5.9U	6.1U	5.9	500
	PCB 1248	ug/Kg	11U	11U	11	500
	PCB 1254	ug/Kg	3.4U	3.5U	3.4	500
	PCB 1260	ug/Kg	3.2U	3.2U	3.2	500
	Aspon	ug/Kg	0.138U	0.141U	0.138	
	Atrazine (Aatrex)	ug/Kg	0.097U	0.099U	0.097	4300
	Azinphos methyl	ug/Kg	0.202U	0.207U	0.202	120000
	Azinphos-ethyl	ug/Kg	0.162U	0.165U	0.162	120000
	Bolstar	ug/Kg	0.113U	0.116U	0.113	

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	Carbophenothion	ug/Kg	0.182U	0.186U	0.182	11000
	Chlorpyrifos	ug/Kg	0.093U	0.095U	0.093	
	Chlorpyrifos-methyl	ug/Kg	0.109U	0.112U	0.109	
	Coumaphos	ug/Kg	0.133U	0.136U	0.133	21000
	Crotoxyphos	ug/Kg	0.142U	0.145U	0.142	
	Demeton-o	ug/Kg	0.154U	0.157U	0.154	
	Demeton-s	ug/Kg	0.065U	0.066U	0.065	
	Dichlorfenthion	ug/Kg	0.150U	0.153U	0.150	
	Dichlorovos	ug/Kg	0.061U	0.062U	0.061	
	Dicrotophos	ug/Kg	0.247U	0.252U	0.247	7400
	Dimethoate	ug/Kg	0.105U	0.108U	0.105	13000
	Dioxathion	ug/Kg	0.158U	0.161U	0.158	
	Disulfoton	ug/Kg	0.081U	0.083U	0.081	33000
	EPN	ug/Kg	0.101U	0.103U	0.101	800
	Ethion	ug/Kg	0.133U	0.108U	0.133	42000
	Ethioprop	ug/Kg	0.154U	0.145U	0.154	7400
	Famphur	ug/Kg	0.105U	0.116U	0.105	
	Fenithrothion	ug/Kg	0.142U	0.318U	0.142	
	Fenthion	ug/Kg	0.113U	0.339U	0.113	
	Leptophos	ug/Kg	0.311U	0.376U	0.311	
	Merphos	ug/Kg	0.332U	0.120U	0.332	2500
	Mevinphos	ug/Kg	0.368U	0.116U	0.368	18000
	Naled	ug/Kg	0.117U	0.157U	0.117	150000
	Phosphamidon	ug/Kg	0.129U	0.132U	0.129	
	Ronnel	ug/Kg	0.113U	0.116U	0.113	4200000

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			0 - 2 feet	2 - 4 feet		
	TEPP	ug/Kg	0.182U	0.186U	0.182	
	Terbufos	ug/Kg	0.077U	0.079U	0.077	1900
	Tetrachlorvinphos (Stirofos)	ug/Kg	0.146U	0.149U	0.146	
	Thionazine	ug/Kg	0.396U	0.405U	0.396	11000
	Tokuthion (Prothiophos)	ug/Kg	0.121U	0.124U	0.121	
	Trichlorfon	ug/Kg	0.044U	0.045U	0.044	
	2,4,5-T	ug/Kg	17.6U	18.0U	17.6	
	2,4,5-TP (Silvex)	ug/Kg	7.16U	7.32U	7.16	660000
	2,4-D	ug/Kg	20.1U	20.6U	20.1	
	2,4-DB	ug/Kg	12.1U	12.4U	12.1	
	Dalapon	ug/Kg	20.5U	21.0U	20.5	
	Dicamba	ug/Kg	5.22U	5.33U	5.22	2300000
	Dichlorprop	ug/Kg	5.95U	6.08U	5.95	370000
	Dinoseb	ug/Kg	14.0U	14.3U	14.0	65000
	MCPA	ug/Kg	1380U	1410U	1380	3500
	MCPP	ug/Kg	1130U	1160U	1130	6400
	1,2,4-Trichlorobenzene	mg/Kg	0.032U	0.032U	0.032	660
	1,2-Dichlorobenzene	mg/Kg	0.030U	0.030U	0.030	880
	1,2-Diphenylhydrazine	mg/Kg	0.0671U	0.033U	0.033	1.1
	1,3-Dichlorobenzene	mg/Kg	0.030U	0.030U	0.030	380
	1,4-Dichlorobenzene	mg/Kg	0.024U	0.024U	0.024	6.4
	1-Methylnapthalene	mg/Kg	0.0529U	0.033U	0.033	1.1
	2,4,5-Trichlorophenol	mg/Kg	0.033U	0.034U	0.033	7700
	2,4,6-Trichlorophenol	mg/Kg	0.034U	0.035U	0.034	70
	2,4-Dichlorophenol	mg/Kg	0.039U	0.040U	0.039	190

Categories	Analyte	Units	Results		MDL	Soil Clean-up Target Level
			0 - 2 feet	2 - 4 feet		FDEP 62-777 F.A.C.
	2,4-Dinitrophenol	mg/kg	0.052U	0.053U	0.052	1300
	2,4-Dinitrotoluene	mg/kg	0.035U	0.035U	0.035	1.2
	2,6-Dinitrotoluene	mg/kg	0.037U	0.038U	0.037	1.2
	2-Chloronaphthalene	mg/kg	0.026U	0.026U	0.026	5000
	2-Chlorophenol	mg/kg	0.041U	0.042U	0.041	130
	2-Methylnaphthalene	mg/kg	0.033U	0.034U	0.033	210
	2-Methylphenol	mg/kg	0.042U	0.043U	0.042	2900
	2-Nitroaniline	mg/kg	0.021U	0.022U	0.021	24
	2-Nitrophenol	mg/kg	0.022U	0.023U	0.022	24
	3,3-Dichlorobenzidine	mg/kg	0.023U	0.024U	0.023	2.1
	3-Nitroaniline	mg/kg	0.023U	0.024U	0.023	21
	4,6-Dinitro-2-methylphenol	mg/kg	0.030U	0.030U	0.030	
	4-Chloro-3-methylphenol	mg/kg	0.030U	0.031U	0.030	600
	4-Chloroaniline	mg/kg	0.035U	0.036U	0.035	270
	4-Chlorophenyl phenyl ether	mg/kg	0.025U	0.025U	0.025	
	Acenaphthene	mg/kg	0.027U	0.028U	0.027	2400
	Acenaphthylene	mg/kg	0.036U	0.037U	0.036	1800
	Aniline	mg/kg	0.038U	0.038U	0.038	27
	Anthracene	mg/kg	0.043U	0.044U	0.043	21000
	Benzidine	mg/kg	0.023U	0.024U	0.023	0.0004
	Benzo(a)anthracene	mg/kg	0.034U	0.034U	0.034	0.8
	Benzo(a)pyrene	mg/kg	0.031U	0.032U	0.031	0.1
	Benzo(b)fluoranthene	mg/kg	0.024U	0.024U	0.024	2.4
	Benzo(g,h,i)perylene	mg/kg	0.033U	0.033U	0.033	2500
	Benzo(k)fluoranthene	mg/kg	0.040U	0.040U	0.040	24

Categories	Analyte	Units	Results		MDL	Soil Clean-up Target Level
			0 - 2 feet	2 - 4 feet		FDEP 62-777 F.A.C.
	Benzoic acid	mg/kg	0.028U	0.029U	0.028	180000
	Benzyl alcohol	mg/kg	0.025U	0.026U	0.025	26000
	Bis(2-Chloroethoxy)methane	mg/kg	0.033U	0.034U	0.033	250
	Bis(2-Chloroethyl)ether	mg/kg	0.037U	0.038U	0.037	0.3
	Bis(2-Chloroisopropyl)ether	mg/kg	0.023U	0.024U	0.023	6
	Bis(2-Ethylhexyl)phthalate	mg/kg	0.027U	0.028U	0.027	72
	4-Bromophenyl phenyl ether	mg/kg	0.036U	0.037U	0.036	
	Butyl benzyl phthalate	mg/kg	0.0286U	0.023U	0.023	17000
	Carbazole	mg/kg	0.039U	0.040U	0.039	49
	Chrysene	mg/kg	0.028U	0.028U	0.028	77
	Di-n-butyl phthalate	mg/kg	0.038U	0.039U	0.038	8200
	Di-n-octyl phthalate	mg/kg	0.055U	0.056U	0.055	
	Dibenz(a,h)anthracene	mg/kg	0.033U	0.034U	0.033	0.7
	Dibenzofuran	mg/kg	0.0719U	0.034U	0.033	320
	Diethyl phthalate	mg/kg	0.0507U	0.038U	0.037	61000
	Dimethyl phthalate	mg/kg	0.0036U	0.0037U	0.0036	
	2,4-Dimethylphenol	mg/kg	0.027U	0.027U	0.027	1300
	Fluoranthene	mg/kg	0.046U	0.047U	0.046	3200
	Fluorene	mg/kg	0.0737U	0.028U	0.027	2600
	Hexachlorobenzene	mg/kg	0.028U	0.028U	0.028	0.4
	Hexachlorobutadiene	mg/kg	0.031U	0.032U	0.031	
	Hexachlorocyclopentadiene	mg/kg	0.025U	0.026U	0.025	0.1
	Hexachloroethane	mg/kg	0.032U	0.033U	0.032	38
	Indeno(1,2,3-cd)pyrene	mg/kg	0.041U	0.042U	0.041	6.6
	Isophorone	mg/kg	0.028U	0.028U	0.028	540

Categories	Analyte	Units	Results		MDL	Soil Clean-up Target Level
			0 - 2 feet	2 - 4 feet		
	Naphthalene	mg/kg	0.026U	0.026U	0.026	55
	4-Nitroaniline	mg/kg	0.044U	0.045U	0.044	14
	Nitrobenzene	mg/kg	0.034U	0.034U	0.034	18
	4-Nitrophenol	mg/kg	0.040U	0.041U	0.040	560
	Pentachlorophenol	mg/kg	0.030U	0.031U	0.030	7.2
	Phenanthrene	mg/kg	0.039U	0.040U	0.039	2200
	Phenol	mg/kg	0.041U	0.042U	0.041	500
	Pyrene	mg/kg	0.040U	0.041U	0.040	2400
	Pyridine	mg/kg	0.041U	0.041U	0.041	20
	m,p-Cresol	mg/kg	0.0041U	0.0042U	0.0041	600
	n-Nitrosodi-n-propylamine	mg/kg	0.041U	0.042U	0.041	0.08
	n-Nitrosodimethylamine	mg/kg	0.052U3,J	0.053U3,J	0.052	0.009
	n-Nitrosodiphenylamine	mg/kg	0.0866I	0.025U	0.025	180
Volatiles Organic Compounds						
	1,1,1,2-Tetrachloroethane	ug/Kg	0.347U	0.391U	0.347	2900
	1,1,1-Trichloroethane	ug/Kg	0.319U	0.360U	0.319	730000
	1,1,2,2-Tetrachloroethane	ug/Kg	0.391U	0.440U	0.391	2900
	1,1,2-Trichloroethane	ug/Kg	0.216U	0.243U	0.216	1400
	1,1-Dichloroethane	ug/Kg	0.250U	0.282U	0.250	390000
	1,1-Dichloroethene	ug/Kg	0.289U	0.326U	0.289	95000
	1,1-Dichloropropene	ug/Kg	0.138U	0.155U	0.138	
	1,2,3-Trichlorobenzene	ug/Kg	0.913U	1.03U	0.913	650000
	1,2,3-Trichloropropane	ug/Kg	0.345U	0.389U	0.345	60
	1,2,4-Trichlorobenzene	ug/Kg	0.813U	0.916U	0.813	660000

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			0 - 2 feet	2 - 4 feet		FDEP 62-777 F.A.C.
	1,2,4-Trimethylbenzene	ug/Kg	0.983I	1.08I	0.290	18000
	1,2-Dibromo-3-chloropropane	ug/Kg	0.901U	1.02U	0.901	700
	1,2-Dibromoethane	ug/Kg	0.465U	0.524U	0.465	10
	1,2-Dichlorobenzene	ug/Kg	0.419U	0.472U	0.419	880000
	1,2-Dichloroethane	ug/Kg	0.245U	0.276U	0.245	500
	1,2-Dichloropropane	ug/Kg	0.360U	0.406U	0.360	600
	1,3,5-Trimethylbenzene	ug/Kg	0.363I	0.445I	0.216	15000
	1,3-Dichlorobenzene	ug/Kg	0.415U	0.468U	0.415	380000
	1,3-Dichloropropane	ug/Kg	0.213U	0.239U	0.213	
	1,4-Dichlorobenzene	ug/Kg	0.333U	0.375U	0.333	6400
	2,2-Dichloropropane	ug/Kg	0.205U	0.231U	0.205	
	2-Butanone	ug/Kg	2.99U	3.37U	2.99	16000000
	2-Chloroethylvinyl ether	ug/Kg	0.415U	0.468U	0.415	
	2-Chlorotoluene	ug/Kg	0.337U	0.380U	0.337	200000
	2-Hexanone	ug/Kg	1.42U	1.61U	1.42	24000
	4-Chlorotoluene	ug/Kg	0.276U	0.310U	0.276	170000
	4-Isopropyltoluene	ug/Kg	0.327U	0.368U	0.327	
	4-Methyl-2-pentanone	ug/Kg	1.14U	1.29U	1.14	
	Acetone	ug/Kg	3.63I,2	4.01I,2	3.03	11000000
	Acrolein	ug/Kg	1.70U	1.92U	1.70	50
	Acrylonitrile	ug/Kg	1.43U	1.61U	1.43	300
	Benzene	ug/Kg	0.248U	0.279U	0.248	1200
	Bromobenzene	ug/Kg	0.157U	0.177U	0.157	
	Bromochloromethane	ug/Kg	0.492U	0.555U	0.492	95000
	Bromodichloromethane	ug/Kg	0.177U	0.200U	0.177	1500

Categories	Analyte	Units	Results		MDL	Soil Clean-up Target Level
			0 - 2 feet	2 - 4 feet		
	Bromoform	ug/Kg	0.309U	0.348U	0.309	48000
	Bromomethane	ug/Kg	1.06U	1.20U	1.06	3100
	n-Butylbenzene	ug/Kg	0.336U	0.379U	0.336	
	Carbon disulfide	ug/Kg	0.2781V	0.2411V	0.160	270000
	Carbon tetrachloride	ug/Kg	0.273U	0.308U	0.273	500
	Chlorobenzene	ug/Kg	1.06U	1.19U	1.06	120000
	Chloroethane	ug/Kg	0.426U	0.480U	0.426	3900
	Chloroform	ug/Kg	0.235U	0.265U	0.235	400
	Chloromethane	ug/Kg	0.587U	0.662U	0.587	4000
	Dibromochloromethane	ug/Kg	0.353U	0.398U	0.353	1500
	Dibromomethane	ug/Kg	0.616U	0.694U	0.616	100
	Dichlorodifluoromethane	ug/Kg	0.296U	0.333U	0.296	77000
	cis-1,3-Dichloropropene	ug/Kg	0.138U	0.155U	0.138	1400
	trans-1,3-Dichloropropene	ug/Kg	0.117U	0.132U	0.117	1400
	Ethylbenzene	ug/Kg	0.256I	0.277I	0.245	1500000
	Hexachlorobutadiene	ug/Kg	0.822U	0.927U	0.822	6200
	Isopropylbenzene (Cumene)	ug/Kg	0.223U	0.252U	0.223	220000
	Methyl-t-butyl ether	ug/Kg	0.182U	0.205U	0.182	4400000
	Methylene chloride	ug/Kg	0.6191V,J,2	0.4331V,J,2	0.164	17000
	Naphtthalene	ug/Kg	0.915U	1.03U	0.915	55000
	Styrene	ug/Kg	0.156U	0.176U	0.156	3600000
	Tetrachloroethene	ug/Kg	0.388U	0.437U	0.388	8800
	Toluene	ug/Kg	0.395I	0.469I	0.269	7500000
	Trichloroethene	ug/Kg	0.491U	0.554U	0.491	6400
	Trichlorofluoromethane	ug/Kg	0.396U	0.446U	0.396	270000

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			0 - 2 feet	2 - 4 feet		FDEP 62-777 F.A.C.
	Vinyl acetate	ug/Kg	0.461U	0.520U	0.461	320000
	Vinyl chloride	ug/Kg	0.381U	0.430U	0.381	200
	Xylene, m,p-	ug/Kg	0.619U	0.662U	0.294	130000
	Xylene, o-	ug/Kg	0.197U	0.221U	0.197	130000
	Xylenes (total)	ug/Kg	0.619U	0.662U	0.490	130000
	cis-1,2-Dichloroethene	ug/Kg	0.313U	0.353U	0.313	33000
	n-Propylbenzene	ug/Kg	0.258U	0.291U	0.258	
	sec-Butylbenzene	ug/Kg	0.253U	0.285U	0.253	
	tert-Butylbenzene	ug/Kg	0.187U	0.211U	0.187	
	trans-1,2-Dichloroethene	ug/Kg	0.285U	0.321U	0.285	53000
Carbamates						
	Carbofuran	mg/Kg	0.0098U	0.041U	3.37	130
	Oxamyl	mg/Kg	0.0061U	0.0062U	0.415	1700

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I = Value between MDL and the lowest point of the calibration curve

J = Estimated value

Q = Out of hold

V = Value was positive in Blank (B for EPA Qualifiers)

U = Undetected

Semi-Volatile Organic Compounds: Also called synthetic organic compounds (SOC's). These chemical compounds include: pesticides, herbicides, polychlorinated biphenyls (PCBs), polynuclear aromatics (PAHs), plasticizers, wood preservatives.

Volatile Organic Compounds (VOCs): Are a group of commonly used chemicals that are widely used as cleaning and liquefying agents in fuels, degreasers, solvents, polishes, cosmetics, drugs, and dry cleaning solutions.

Carbamates - A synthetic organic compound made from carbamic acid often used as an insecticide.