

Surficial Soil Sampling Analysis Results **Western Pines Community Middle School**

Categories	Analyte	Units	Results		MDL	Soil Clean-up Target Level
						FDEP 62-777 F.A.C.
Metals						
	Mercury	mg/kg	0.00999U	0.0050U	0.0053	3
	Arsenic	mg/kg	1.88	0.72U	0.76	2.1
	Barium	mg/kg	27.1	2.78U	0.40	120
	Cadmium	mg/kg	0.21U	0.20U	0.21	82
	Chromium	mg/kg	7.75	1.15	0.43	210
	Copper	mg/kg	4.65	6.10	0.39	150
	Lead	mg/kg	2.35	1.0U	1.1	400
	Selenium	mg/kg	0.80U	0.76U	0.80	440
	Silver	mg/kg	0.21U	0.20U	0.21	410
Semi-Volatiles						
	4,4'-DDD	ug/Kg	0.203U	0.191U	0.203	4200
	4,4'-DDE	ug/Kg	0.655U6	0.255U6	0.655	2900
	4,4'-DDT	ug/Kg	0.502U7	0.473U7	0.502	2900
	Aldrin	ug/Kg	0.183U	0.173U	0.183	60
	Dieldrin	ug/Kg	1.80U6	0.363U6	1.80	60
	Endosulfan I	ug/Kg	0.233U	0.220U	0.233	4500000
	Endosulfan II	ug/Kg	0.427U	0.402U	0.427	4500000
	Endosulfan sulfate	ug/Kg	0.076U	0.072U	0.076	4500000
	Endrin	ug/Kg	0.239U	0.225U	0.239	25000

Categories	Analyte	Units	Results		MDL	Soil Clean-up Target Level
			0 - 2 feet	2 - 4 feet		
	Endrin aldehyde	ug/Kg	0.226U	0.213U	0.226	25000
	Endrin ketone	ug/Kg	0.194U	0.667U6	0.194	25000
	Heptachlor	ug/Kg	0.292U	0.275U	0.292	200
	Heptachlor epoxide	ug/Kg	0.270U	0.254U	0.270	100
	Methoxychlor	ug/Kg	0.435U	0.410U	0.435	420000
	Toxaphene	ug/Kg	24.7U	23.3U	24.7	900
	alpha-BHC	ug/Kg	0.469U	0.442U	0.469	100
	alpha-Chlordane	ug/Kg	0.264U	0.248U	0.264	2800
	beta-BHC	ug/Kg	0.312U	0.294U	0.312	500
	delta-BHC	ug/Kg	0.607U	1.89U	0.607	24000
	gamma-BHC (Lindane)	ug/Kg	0.724U	0.683U	0.724	700
	gamma-Chlordane	ug/Kg	0.188U	0.183U6	0.188	2800
	PCB 1016	ug/Kg	2.9UJ,4	2.7UJ,4	2.9	500
	PCB 1221	ug/Kg	17U	16U	17	500
	PCB 1232	ug/Kg	6.2U	5.9U	6.2	500
	PCB 1242	ug/Kg	6.8U	6.4U	6.8	500
	PCB 1248	ug/Kg	12U	12U	12	500
	PCB 1254	ug/Kg	3.9U	3.7U	3.9	500
	PCB 1260	ug/Kg	3.6U	3.4U	3.6	500
	Aspon	ug/Kg	0.157U	0.148U	0.157	
	Atrazine (Aatrex)	ug/Kg	0.111U	0.105U	0.111	4300
	Azinphos methyl	ug/Kg	0.231U	0.218U	0.231	120000
	Azinphos-ethyl	ug/Kg	0.185U	0.174U	0.185	120000
	Bolstar	ug/Kg	0.129U	0.122U	0.129	
	Carbophenothion	ug/Kg	0.208U	0.196U	0.208	11000

Categories	Analyte	Units	Results		MDL	Soil Clean-up Target Level
			0 - 2 feet	2 - 4 feet		
	Chlorpyrifos	ug/Kg	0.106U	0.100U	0.106	FDEP 62-777 F.A.C.
	Chlorpyrifos-methyl	ug/Kg	0.125U	0.118U	0.125	
	Coumaphos	ug/Kg	0.153U	0.144U	0.153	21000
	Crotoxyphos	ug/Kg	0.162U	0.153U	0.162	
	Demeton-o	ug/Kg	0.176U	0.166U	0.176	
	Demeton-s	ug/Kg	0.074U	0.070U	0.074	
	Dichlorfenthion	ug/Kg	0.171U	0.161U	0.171	
	Dichlorovos	ug/Kg	0.069U	0.065U	0.069	
	Dicrotophos	ug/Kg	0.282U	0.266U	0.282	7400
	Dimethoate	ug/Kg	0.120U	0.113U	0.120	13000
	Dioxathion	ug/Kg	0.180U	0.170U	0.180	
	Disulfoton	ug/Kg	0.092U	0.087U	0.092	33000
	EPN	ug/Kg	0.116U	0.166U	0.116	800
	Ethion	ug/Kg	0.153U	0.113U	0.153	42000
	Ethoprop	ug/Kg	0.176U	0.153U	0.176	7400
	Famphur	ug/Kg	0.120U	0.122U	0.120	
	Fenithrothion	ug/Kg	0.162U	0.336U	0.162	
	Fenthion	ug/Kg	0.129U	0.357U	0.129	
	Leptophos	ug/Kg	0.356U	0.397U	0.356	
	Merphos	ug/Kg	0.379U	0.126U	0.379	2500
	Mevinphos	ug/Kg	0.421U	0.122U	0.421	18000
	Naled	ug/Kg	0.134U	0.166U	0.134	150000
	Phosphamidon	ug/Kg	0.148U	0.139U	0.148	
	Ronnel	ug/Kg	0.129U	0.122U	0.129	4200000
	TEPP	ug/Kg	0.208U	0.196U	0.208	

Categories	Analyte	Units	Results		MDL	Soil Clean-up Target Level
			0 - 2 feet	2 - 4 feet		
	Terbufos	ug/Kg	0.088U	0.083U	0.088	1900
	Tetrachlorvinphos (Stirofos)	ug/Kg	0.166U	0.157U	0.166	
	Thionazine	ug/Kg	0.453U	0.427U	0.453	11000
	Tokuthion (Prothiophos)	ug/Kg	0.139U	0.131U	0.139	
	Trichlorfon	ug/Kg	0.050U	0.047U	0.050	
	2,4,5-T	ug/Kg	20.1U	19.0U	20.1	
	2,4,5-TP (Silvex)	ug/Kg	8.18U	7.71U	8.18	660000
	2,4-D	ug/Kg	23.0U	21.7U	23.0	
	2,4-DB	ug/Kg	13.9U5	13.1U5	13.9	
	Dalapon	ug/Kg	23.4U	22.1U	23.4	
	Dicamba	ug/Kg	5.96U	5.62U	5.96	2300000
	Dichlorprop	ug/Kg	6.80U	6.41U	6.80	370000
	Dinoseb	ug/Kg	16.0U	15.0U	16.0	65000
	MCPA	ug/Kg	1580U	1490U	1580	3500
	MCPP	ug/Kg	1290U	1220U	1290	6400
	1,2,4-Trichlorobenzene	mg/kg	0.036U	0.034U	0.036	660
	1,2-Dichlorobenzene	mg/kg	0.034U	0.032U	0.034	880
	1,2-Diphenylhydrazine	mg/kg	0.037U	0.035U	0.037	1.1
	1,3-Dichlorobenzene	mg/kg	0.034U	0.032U	0.034	380
	1,4-Dichlorobenzene	mg/kg	0.027U	0.025U	0.027	6.4
	1-Methylnaphthalene	mg/kg	0.037U	0.035U	0.037	1.1
	2,4,5-Trichlorophenol	mg/kg	0.038U	0.036U	0.038	7700
	2,4,6-Trichlorophenol	mg/kg	0.039U	0.037U	0.039	70
	2,4-Dichlorophenol	mg/kg	0.044U	0.042U	0.044	190
	2,4-Dinitrophenol	mg/kg	0.059U	0.056U	0.059	1300

Categories	Analyte	Units	Results		MDL	Soil Clean-up Target Level
			0 - 2 feet	2 - 4 feet		
	2,4-Dinitrotoluene	mg/kg	0.040U	0.037U	0.040	1.2
	2,6-Dinitrotoluene	mg/kg	0.043U	0.040U	0.043	1.2
	2-Chloronaphthalene	mg/kg	0.029U	0.028U	0.029	5000
	2-Chlorophenol	mg/kg	0.047U	0.044U	0.047	130
	2-Methylnaphthalene	mg/kg	0.038U	0.036U	0.038	210
	2-Methylphenol	mg/kg	0.048U	0.045U	0.048	2900
	2-Nitroaniline	mg/kg	0.025U	0.023U	0.025	24
	2-Nitrophenol	mg/kg	0.025U	0.024U	0.025	24
	3,3'-Dichlorobenzidine	mg/kg	0.026U	0.025U	0.026	2.1
	3-Nitroaniline	mg/kg	0.026U	0.025U	0.026	21
	4,6-Dinitro-2-methylphenol	mg/kg	0.034U	0.032U	0.034	
	4-Chloro-3-methylphenol	mg/kg	0.035U	0.033U	0.035	600
	4-Chloroaniline	mg/kg	0.040U	0.038U	0.040	270
	4-Chlorophenyl phenyl ether	mg/kg	0.028U	0.027U	0.028	
	Acenaphthene	mg/kg	0.031U	0.029U	0.031	2400
	Acenaphthylene	mg/kg	0.041U	0.039U	0.041	1800
	Aniline	mg/kg	0.043U	0.041U	0.043	27
	Anthracene	mg/kg	0.049U	0.046U	0.049	21000
	Benzidine	mg/kg	0.027U	0.025U	0.027	0.0004
	Benzo(a)anthracene	mg/kg	0.038U	0.036U	0.038	0.8
	Benzo(a)pyrene	mg/kg	0.035U	0.033U	0.035	0.1
	Benzo(b)fluoranthene	mg/kg	0.027U	0.026U	0.027	2.4
	Benzo(g,h,i)perylene	mg/kg	0.037U	0.035U	0.037	2500
	Benzo(k)fluoranthene	mg/kg	0.045U	0.043U	0.045	24
	Benzoic acid	mg/kg	0.032U	0.219U	0.032	180000

Categories	Analyte	Units	Results		MDL	Soil Clean-up Target Level
			0 - 2 feet	2 - 4 feet		
	Benzyl alcohol	mg/kg	0.029U	0.027U	0.029	26000
	Bis(2-Chloroethoxy)methane	mg/kg	0.038U	0.036U	0.038	250
	Bis(2-Chloroethyl)ether	mg/kg	0.042U	0.040U	0.042	0.3
	Bis(2-Chloroisopropyl)ether	mg/kg	0.027U	0.025U	0.027	6
	Bis(2-Ethylhexyl)phthalate	mg/kg	0.031U	0.029U	0.031	72
	4-Bromophenyl phenyl ether	mg/kg	0.041U	0.039U	0.041	
	Butyl benzyl phthalate	mg/kg	0.026U	0.025U	0.026	17000
	Carbazole	mg/kg	0.045U	0.042U	0.045	49
	Chrysene	mg/kg	0.031U	0.030U	0.031	77
	Di-n-butyl phthalate	mg/kg	0.044U	0.041U	0.044	8200
	Di-n-octyl phthalate	mg/kg	0.063U	0.252V	0.063	
	Dibenz(a,h)anthracene	mg/kg	0.038U	0.036U	0.038	0.7
	Dibenzofuran	mg/kg	0.038U	0.036U	0.038	320
	Diethyl phthalate	mg/kg	0.043U	0.040U	0.043	61000
	Dimethyl phthalate	mg/kg	0.0042U	0.0039U	0.0042	
	2,4-Dimethylphenol	mg/kg	0.031U	0.029U	0.031	1300
	Fluoranthene	mg/kg	0.052U	0.049U	0.052	3200
	Fluorene	mg/kg	0.031U	0.030U	0.031	2600
	Hexachlorobenzene	mg/kg	0.032U	0.030U	0.032	0.4
	Hexachlorobutadiene	mg/kg	0.035U	0.033U	0.035	
	Hexachlorocyclopentadiene	mg/kg	0.029U	0.027U	0.029	0.1
	Hexachloroethane	mg/kg	0.037U	0.035U	0.037	38
	Indeno(1,2,3-cd)pyrene	mg/kg	0.047U	0.044U	0.047	6.6
	Isophorone	mg/kg	0.032U	0.030U	0.032	540
	Naphthalene	mg/kg	0.030U	0.028U	0.030	55

Categories	Analyte	Units	Results		MDL	Soil Clean-up Target Level
			0 - 2 feet	2 - 4 feet		
	4-Nitroaniline	mg/kg	0.050U	0.047U	0.050	14
	Nitrobenzene	mg/kg	0.038U	0.036U	0.038	18
	4-Nitrophenol	mg/kg	0.046U	0.043U	0.046	560
	Pentachlorophenol	mg/kg	0.035U	0.033U	0.035	7.2
	Phenanthrene	mg/kg	0.045U	0.042U	0.045	2200
	Phenol	mg/kg	0.047U	0.044U	0.047	500
	Pyrene	mg/kg	0.046U	0.043U	0.046	2400
	Pyridine	mg/kg	0.046U	0.044U	0.046	20
	m,p-Cresol	mg/kg	0.0047U	0.0044U	0.0047	600
	n-Nitrosodi-n-propylamine	mg/kg	0.046U	0.044U	0.046	0.08
	n-Nitrosodimethylamine	mg/kg	0.060UJ.4	0.056UJ.4	0.060	0.009
	n-Nitrosodiphenylamine	mg/kg	0.028U	0.026U	0.028	180
Volatiles						
	1,1,1,2-Tetrachloroethane	ug/Kg	0.383U	0.391U	0.383	2900
	1,1,1-Trichloroethane	ug/Kg	0.352U	0.360U	0.352	730000
	1,1,2,2-Tetrachloroethane	ug/Kg	0.431U	0.440U	0.431	2900
	1,1,2-Trichloroethane	ug/Kg	0.238U	0.243U	0.238	1400
	1,1-Dichloroethane	ug/Kg	0.276U	0.281U	0.276	390000
	1,1-Dichloroethene	ug/Kg	0.319U3,J.2	0.326U	0.319	95000
	1,1-Dichloropropene	ug/Kg	0.152U	0.155U	0.152	
	1,2,3-Trichlorobenzene	ug/Kg	1.01U	1.03U	1.01	650000
	1,2,3-Trichloropropane	ug/Kg	0.381U	0.388U	0.381	60
	1,2,4-Trichlorobenzene	ug/Kg	0.897U	0.915U	0.897	660000
	1,2,4-Trimethylbenzene	ug/Kg	1.07U	0.327U	0.321	18000

Categories	Analyte	Units	Results		MDL	Soil Clean-up Target Level
			0 - 2 feet	2 - 4 feet		
	1,2-Dibromo-3-chloropropane	ug/Kg	0.995U	1.02U	0.995	700
	1,2-Dibromoethane	ug/Kg	0.513U	0.523U	0.513	10
	1,2-Dichlorobenzene	ug/Kg	0.462U	0.471U	0.462	880000
	1,2-Dichloroethane	ug/Kg	0.270U	0.275U	0.270	500
	1,2-Dichloropropane	ug/Kg	0.397U	0.405U	0.397	600
	1,3,5-Trimethylbenzene	ug/Kg	0.238U	0.243U	0.238	15000
	1,3-Dichlorobenzene	ug/Kg	0.459U	0.468U	0.459	380000
	1,3-Dichloropropane	ug/Kg	0.235U	0.239U	0.235	
	1,4-Dichlorobenzene	ug/Kg	0.368U	0.375U	0.368	6400
	2,2-Dichloropropane	ug/Kg	0.226U	0.231U	0.226	
	2-Butanone	ug/Kg	3.30U	3.37U	3.30	16000000
	2-Chloroethylvinyl ether	ug/Kg	0.459U	0.468U	0.459	
	2-Chlorotoluene	ug/Kg	0.373U	0.380U	0.373	200000
	2-Hexanone	ug/Kg	1.57U	1.60U	1.57	24000
	4-Chlorotoluene	ug/Kg	0.304U	0.310U	0.304	170000
	4-Isopropyltoluene	ug/Kg	0.361U	0.368U	0.361	
	4-Methyl-2-pentanone	ug/Kg	1.26U	1.29U	1.26	
	Acetone	ug/Kg	3.34U	63.5	3.34	11000000
	Acrolein	ug/Kg	1.88U	1.92U	1.88	50
	Acrylonitrile	ug/Kg	1.58U	1.61U	1.58	300
	Benzene	ug/Kg	0.274U3,J,2	0.279U	0.274	1200
	Bromobenzene	ug/Kg	0.173U	0.177U	0.173	
	Bromochloromethane	ug/Kg	0.543U	0.554U	0.543	95000
	Bromodichloromethane	ug/Kg	0.196U	0.200U	0.196	1500

Categories	Analyte	Units	Results		MDL	Soil Clean-up Target Level
			0 - 2 feet	2 - 4 feet		
	Bromoform	ug/Kg	0.341U	0.348U	0.341	48000
	Bromomethane	ug/Kg	1.17U	1.20U	1.17	3100
	n-Butylbenzene	ug/Kg	0.371U	0.379U	0.371	
	Carbon disulfide	ug/Kg	0.177U	0.613U	0.177	270000
	Carbon tetrachloride	ug/Kg	0.302U	0.308U	0.302	500
	Chlorobenzene	ug/Kg	1.16U3,J,2	1.19U	1.16	120000
	Chloroethane	ug/Kg	0.470U	0.480U	0.470	3900
	Chloroform	ug/Kg	0.259U	0.265U	0.259	400
	Chloromethane	ug/Kg	0.648U	0.661U	0.648	4000
	Dibromochloromethane	ug/Kg	0.390U	0.398U	0.390	1500
	Dibromomethane	ug/Kg	0.680U	0.694U	0.680	100
	Dichlorodifluoromethane	ug/Kg	0.327U	0.333U	0.327	77000
	cis-1,3-Dichloropropene	ug/Kg	0.152U	0.155U	0.152	1400
	trans-1,3-Dichloropropene	ug/Kg	0.130U	0.132U	0.130	1400
	Ethylbenzene	ug/Kg	0.271U	0.275U	0.270	1500000
	Hexachlorobutadiene	ug/Kg	0.908U	0.926U	0.908	6200
	Isopropylbenzene (Cumene)	ug/Kg	0.246U	0.251U	0.246	220000
	Methyl-t-butyl ether	ug/Kg	0.200U	0.204U	0.200	4400000
	Methylene chloride	ug/Kg	0.182U	0.185U	0.182	17000
	Naphthalene	ug/Kg	1.01U	1.03U	1.01	55000
	Styrene	ug/Kg	0.172U	0.176U	0.172	3600000
	Tetrachloroethene	ug/Kg	0.428U	0.437U	0.428	8800
	Toluene	ug/Kg	0.342U3,J,2	0.303U	0.297	7500000
	Trichloroethene	ug/Kg	0.542U3,J,2	0.553U	0.542	6400
	Trichlorofluoromethane	ug/Kg	0.437U	0.446U	0.437	270000

Categories	Analyte	Units	Results		MDL	Soil Clean-up Target Level
			0 - 2 feet	2 - 4 feet		
	Vinyl acetate	ug/Kg	0.509U	0.520U	0.509	320000
	Vinyl chloride	ug/Kg	0.421U	0.429U	0.421	200
	Xylene, m,p-	ug/Kg	0.542I	0.331U	0.324	130000
	Xylene, o-	ug/Kg	0.217U	0.221U	0.217	130000
	Xylenes (total)	ug/Kg	0.542I	0.552U	0.541	130000
	cis-1,2-Dichloroethene	ug/Kg	0.345U	0.352U	0.345	33000
	n-Propylbenzene	ug/Kg	0.285U	0.291U	0.285	
	sec-Butylbenzene	ug/Kg	0.279U	0.285U	0.279	
	tert-Butylbenzene	ug/Kg	0.206U	0.210U	0.206	
	trans-1,2-Dichloroethene	ug/Kg	0.315U	0.321U	0.315	53000
Carbamates						
	Carbofuran	mg/kg	0.01U	0.0088U	0.01	130
	Oxamyl	mg/kg	0.0065U	0.0055U	0.0065	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.