

Results of Soil Sampling in East Liverpool, OH and Glasgow, PA

Samples collected by EPA Region 5 on 10/18/16 and 10/19/16

Results in mg/kg or ppm

Cr = Total Chromium Fe = Total Iron Mn = Total Manganese

Sample Location	Cr – Field XRF	Cr- Adjusted XRF	Cr- Laboratory	Fe – Field XRF	Fe- Adjusted XRF	Fe- Laboratory	Mn- Field XRF	Mn- Adjusted XRF	Mn- Laboratory
NRS01	380	43	66	28559	27822	17500	1318	2151	2400
NRS02	582	55		14662	18596		1261	2070	
NRS03	318	39		11876	16372		1245	2047	
NRS07	206	31		20290	22629		715	1265	
NRS05D	1897	104		24459	25335		3823	5426	
WRS01	237	34	30	17490	20687	13200	1110	1853	1530
WRS02	388	44		18817	21622		1005	1700	
WRS03	411	45		12501	16888		1097	1834	
WRS04D	326	40		15913	19539		510	943	
WRS05	140	25	28	11891	16385	37900	576	1048	1520
WRS06D	156	27		33447	30609		520	959	
WRS07	480	49		16722	20134		1355	2204	
WRS08	119	23		17347	20585		833	1444	
WRS09	158	27		18710	21548		529	973	

WRS10	No analyses	No analyses		15824	19473		538	988	
WRS11	355	42	47	19847	22330	27200	1184	1960	2400
WRS13	353	42	23	22694	24214	13500	996	1687	1120
WRS14	501	50		17594	20762		1630	2587	
WRS15	139	25	17	14179	18223	14900	718	1269	663
WRS16	87	19		17623	20782		756	1327	
WRS17	171	28		14240	18271		617	1113	
WRS18	249	34		26599	26652		735	1295	
WRS19	197	30		28803	27965		813	1414	
WRS20	188	30		24577	25408		645	1156	
WRS21	336	41		13706	17854		938	1601	
WRS22	379	43		17464	20669		972	1651	
WRS23	247	34		17437	20649		1023	1726	
WRS24	250	35	33	17177	20463	13700	1038	1748	1060
WRS25	382	43	102	25240	25820	25900	1565	2498	2720
WRS26	217	32		14186	18229		894	1535	
WRS27D	372	43		23872	24966		1087	1820	
WRS28	162	27		18243	21221		303	600	
WRS29	231	33		13014	17303		692	1229	
WRS30	1218	82		26841	26798		3248	4710	
WRS31	328	40		20882	23026		872	1503	

WRS32	550	53		18236	21216		1777	2789	
WRS33	550	53		24740	25510		1174	1946	
WRS34	840	67		17093	20402		2108	3235	
WRS35	314	39		19711	22237		785	1371	
WRS36	310	39		25769	26146		957	1629	
WRS37	223	32		29373	28298		1323	2158	
WRS38	444	47		19900	22366		1174	1946	
WRS39	453	48		15644	19339		1348	2194	
WRS40	1388	88		19909	22372		3040	4447	
WRS41	263	35		11800	16309		709	1255	
WRS42	322	40		24314	25244		1016	1716	
WRS43	466	48		13682	17835		1177	1950	
WRS44	837	67		23433	24687		2128	3262	
WRS45	9140	244	1100	37606	32855	74800	15513	18322	58000
WRS46	409	45	137	16676	20100	23200	1466	2360	3180
WRS47	320	39		27805	27376		1393	2257	
WRS48	215	32		19340	21983		1020	1722	
WRS49	112	22		19014	21759		1048	1763	
WRSAM1	665	59	63	27417	27144	50600	1710	2697	3150
WRSAM2	374	43	46	20816	22982	32200	1140	1897	2340
ERS01	432	46		23642	24820		1691	2671	

ERS02	176	29	25	24621	25436	36800	482	898	952
ERS03	833	66		23156	24510		1538	2460	
ERS04	306	39		22496	24086		1046	1760	
ERS05	565	54		13094	17367		1402	2270	
ERS06	164	27		18988	21741		681	1212	
ERS07	208	31		21716	23578		1009	1706	
ERS08	266	36		31148	29320		857	1480	
ERS09	175	28		26696	26711		770	1349	
ERS010	598	55		23847	24950		2173	3322	
ERS011	439	47		26254	26442		1351	2198	
ERS012	285	37	31	33665	30729	38400	908	1556	1190
ERS013	910	70		16922	20279		1624	2579	
ERS014	179	29		21800	23633		727	1283	
ERS015	374	43	59	24379	25285	36300	1213	2002	2400

NOTES:

- 1) Field XRF = samples analyzed in the field with the X-Ray Fluorescence instrument. Three readings averaged per sample location.
- 2) Adjusted XRF = values are based on statistical computations performed by the EPA Region 5 FIELDS group comparing XRF field concentrations to the laboratory values recorded for a subset of the XRF samples. This method derives a best estimate of the field XRF sample concentration assuming it was in fact analyzed at the laboratory.
- 3) Laboratory = Results from the XRF screening instrument EPA used to screen the soil in the field routinely have some variation. EPA's standard practice is to submit 20 per cent of these field results for confirmatory analysis in a laboratory.
- 4) The highest soil value for each sample location was used to evaluate health risk.