

Lead Concentrations Found in Soil Samples
XRF Sampling Results vs. Validated Laboratory Results
California and Coal Center, PA

EPA considers several factors when interpreting screening-level sampling data, including the range of results, exceedances of screening levels, conditions that interrupt exposure pathways, and the frequency of an area's use.

Sample ID	XRF Sampling Results			Validated Lab Results (mg/kg) ⁴ Method SW846 6010D
	In-situ ¹ (ppm)	Intrusive Ex-situ ² (ppm)	Ex-situ ³ (ppm)	
California Borough				
CCC-SS-01	38	249	159	195
CCC-SS-02	142	---	366	408
CCC-SS-03	191	---	196	187
CCC-SS-04	189	239	179	185
CCC-SS-05	168	---	204	157
CCC-SS-06	127	---	178	180
CCC-SS-07	260	---	313	256
CCC-SS-08	198	230	225	198
CCC-SS-09	37	---	51	48.4
CCC-SS-10	130	---	128	135
CCC-SS-11	351	---	361	381
CCC-SS-12	423	834	626	1100
CCC-SS-13	226	---	245	273
CCC-SS-14	231	---	277	317
CCC-SS-15	267	---	221	222
CCC-SS-16	240	---	89	90.8
CCC-SS-17	334	441	344	371
CCC-SS-18	200	---	269	262
CCC-SS-19	99	---	88	88.9
CCC-SS-20	177	---	292	286
CCC-BKG-01	129	---	145	141
CCC-BKG-02	267	147	192	156
CCC-BKG-03	45	---	48	50.6
CCC-BKG-04	41	---	45	44
CCC-BKG-05	306	---	269	303
Coal Center Borough				
CCC-SS-21	294	---	237	249
CCC-SS-22	345	---	469	432
CCC-SS-23	1050	506	535	547
CCC-SS-24	115	---	119	139
CCC-SS-25	282	---	208	230
CCC-SS-26	271	---	250	274
CCC-SS-27	86	---	80	79.5
CCC-SS-28	211	---	222	262
CCC-SS-29	663	1025	727	276
CCC-SS-30	900	---	982	1250
CCC-SS-31	2785	1432	928	1440
CCC-BKG-06	87	---	90	84.1
CCC-BKG-07	658	1085	743	831
CCC-BKG-08	80	---	79	71.5
CCC-BKG-09	164	---	181	192

NOTES:

mg/Kg = milligrams per kilogram

ppm = Parts per million

XRF = X-Ray Fluorescence

¹In-situ readings collected immediately below vegetation layer

²Intrusive ex-situ sample aliquots were dried, ground, and sieved down to 250 micron before screening with the XRF. 20 percent of the total samples were selected to be processed following Method 6200 and the value is an average of 3 XRF results for the aliquot.

³Ex-situ screening was conducted after sample homogenization in a clear plastic bag, and the data presented is the average of four readings made on the homogenized sample.

⁴1 mg/Kg = 1 ppm