Deposition Soil Box (EPA ID)

(Results are three averaged Niton XRF reading's)

EPA ID 43

Date	*Pb (mg/kg)*	*Comments*
3 /6 /2003	39 ND	
4 /11/2003	74	
5 /7 /2003	42 ND	
6 /6 /2003	69	
7 /11/2003	67	
8 /11/2003	79	
9 /15/2003	75	
10/15/2003	73.5	
11/18/2003	108	
12/17/2003	121	
1 /19/2004	68	
2 /19/2004	123.4	
3 /19/2004	125.5	
4 /21/2004	161.9	
5 /24/2004	71.6 ND	
6 /24/2004	106.3	
8 /27/2004	80	
9 /28/2004	130	
10/29/2004	117.6	
12/1 /2004	79	
1 /10/2005	135	

EPA ID 69

Date	*Pb (mg/kg)*	*Comments*
3 /6 /2003	40 ND	
4 /11/2003	50 ND	
5 /7 /2003	39 ND	
6 /6 /2003	41 ND	
7 /11/2003	46 ND	
8 /11/2003	54 ND	

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Superfund

9 /15/2003	42 ND	
10/15/2003	34	
11/17/2003	46.5	
12/17/2003	39	
1 /19/2004	34 ND	
2 /19/2004	32.5	
3 /19/2004	48.6	
4 /21/2004	46.2	
5 /24/2004	73.8	
6 /24/2004	51.2 ND	
8 /27/2004	69	
9 /28/2004	67.7	
10/28/2004		Sampling will no longer be performed due to contamination of depostion box by lead

EPA ID 102

Date	*Pb (mg/kg)*	*Comments*
3 /6 /2003	35 ND	
4 /16/2003	46 ND	
5 /7 /2003	48 ND	
6 /6 /2003	52 ND	
7 /11/2003	65 ND	
8 /11/2003	60 ND	
9 /15/2003	47 ND	
10/15/2003	42	
11/18/2003	43.4	
12/17/2003	46	
1 /19/2004	55	
2 /19/2004	80.45	
3 /19/2004	64.35	
4 /21/2004	55.4	
5 /24/2004	66.6	
6 /24/2004	65.7	
8 /27/2004	40	
9 /28/2004	92.9	
10/28/2004	76	
12/1 /2004	32.3 ND	
1 /10/2005	59	

EPA ID 148

Date	*Pb (mg/kg)*	*Comments*
2 /14/2003	24 ND	Has not been excavated
4 /11/2003	55	Has not been excavated
5 /7 /2003	29 ND	Has not been excavated
6 /6 /2003	42 ND	Has not been excavated
7 /11/2003	34 ND	Has not been excavated
8 /11/2003	59	Has not been excavated
9 /15/2003	31 ND	Has not been excavated
10/15/2003	53	Has not been excavated
11/17/2003	74.2	Has not been excavated
12/17/2003	149	Has not been excavated
1 /19/2004	92	Has not been excavated
2 /19/2004	111.5	Has not been excavated
3 /19/2004	34.55	Has not been excavated
4 /21/2004	227	Has not been excavated
5 /24/2004	174.7	Has not been excavated
6 /24/2004	344.7	Has not been excavated
8 /27/2004	173	Has not been excavated
9 /28/2004	370.75	Has not been excavated
10/29/2004	267	Has not been excavated
12/1 /2004	157	Has not been excavated
1 /10/2005	291	Has not been excavated

EPA ID 309

Date	*Pb (mg/kg)*	*Comments*
3 /6 /2003	32 ND	
4 /11/2003	64 ND	
5 /7 /2003	37	
6 /6 /2003	56 ND	Homeowner repainted home and scraped LBP onto soil

7 /11/2003	64	ND	
8 /11/2003	61		
9 /15/2003	53		
10/15/2003	35		
11/17/2003	66		
12/17/2003	61		
1 /19/2004	44		
2 /19/2004	73.85		
3 /19/2004	71.15		
4 /21/2004	115.5		
5 /24/2004	85.6		
6 /24/2004	95.5		
8 /27/2004	90		
9 /28/2004	176		
10/29/2004	123		Home has been remodeled at rear porch, now a liveable space
12/1 /2004	116		
1 /10/2005	162		

***EPA ID** 397*

Date	*Pb (mg/kg)*		*Comments*
3 /6 /2003	22	ND	
4 /11/2003	38	ND	
5 /7 /2003	23	ND	
6 /6 /2003	32	ND	
7 /11/2003	28	ND	
8 /11/2003	50	ND	
9 /15/2003	26	ND	
10/15/2003	20	ND	
11/17/2003	19.3	ND	
12/17/2003	26	ND	
1 /19/2004	29	ND	
2 /19/2004	20	ND	
3 /19/2004	37.6	ND	
4 /21/2004	29.8		

5 /24/2004	29.8	ND
6 /24/2004	25.3	ND
8 /27/2004	25	ND
9 /28/2004	28.6	
10/29/2004	30	ND
12/1 /2004	37	ND
1 /10/2005	51.5	

EPA ID 442

Date	*Pb (mg/kg)*		*Comments*
3 /6 /2003	39	ND	
4 /11/2003	53	ND	
5 /7 /2003	39	ND	
6 /6 /2003	48	ND	
7 /11/2003	45	ND	
8 /11/2003	49	ND	
9 /15/2003	53	ND	
10/15/2003	33	ND	
11/17/2003	33.6		
12/17/2003	43		
1 /19/2004	46	ND	
2 /19/2004	39.75		
3 /19/2004	58.3	ND	
4 /21/2004	55.9		
5 /24/2004	50.6		
6 /24/2004	52		
8 /27/2004	39		
9 /28/2004	73.5		
10/29/2004	44		
12/1 /2004	47.6	ND	
1 /10/2005	51.2	ND	

EPA ID 937

Date	*Pb (mg/kg)*		*Comments*
1 /7 /2003	24	ND	Has not been excavated
2 /14/2003	32	ND	Has not been excavated
4 /11/2003	119		Has not been excavated
5 /7 /2003	41		Has not been excavated
6 /6 /2003	107		Has not been excavated

7 /11/2003	167	Has not been excavated
8 /11/2003	406	Has not been excavated
9 /15/2003	294	Has not been excavated
10/15/2003	230	Has not been excavated
11/17/2003	269	Has not been excavated
12/17/2003	209	Has not been excavated
1 /19/2004	231	Has not been excavated
2 /19/2004	291	Has not been excavated
3 /19/2004	370	Has not been excavated
4 /21/2004	527	Has not been excavated
5 /24/2004	266.3	Has not been excavated
6 /24/2004	335.5	Has not been excavated
8 /27/2004	151	Has not been excavated
9 /28/2004	358	Has not been excavated
10/29/2004	161	Has not been excavated
12/1 /2004	173	Has not been excavated
1 /10/2005	202.3	Has not been excavated

EPA ID 938

Date	*Pb (mg/kg)*	*Comments*
3 /7 /2003	22 ND	Has not been excavated
4 /11/2003	35 ND	Has not been excavated
5 /7 /2003	21 ND	Has not been excavated
6 /6 /2003	26 ND	Has not been excavated
7 /11/2003	33 ND	Has not been excavated
8 /11/2003	28 ND	Has not been excavated
9 /15/2003	27 ND	Has not been excavated
10/15/2003	17 ND	Has not been excavated
11/18/2003	17 ND	Has not been excavated
12/17/2003	17 ND	Has not been excavated
1 /19/2004	22 ND	Has not been excavated
2 /19/2004	18.5	Has not been excavated
3 /19/2004	20.5 ND	Has not been excavated
4 /21/2004	29 ND	Has not been excavated
5 /24/2004	20 ND	Has not been excavated
6 /24/2004	30 ND	Has not been excavated
8 /27/2004	21 ND	Has not been excavated
9 /28/2004	27.5 ND	Has not been excavated
10/28/2004	28 ND	Has not been excavated
12/1 /2004	30.3 ND	Has not been excavated
1 /10/2005	28 ND	Has not been excavated

EPA ID 939

Date	*Pb (mg/kg)*	*Comments*
1 /7 /2003	24 ND	Has not been excavated
2 /14/2003	26 ND	Has not been excavated
4 /11/2003	77	Has not been excavated
5 /7 /2003	28 ND	Has not been excavated
6 /6 /2003	48	Has not been excavated
7 /11/2003	79	Has not been excavated
8 /11/2003	154	Has not been excavated
9 /15/2003	103	Has not been excavated
10/15/2003	66	Has not been excavated
11/18/2003	79	Has not been excavated
12/17/2003	92	Has not been excavated
1 /19/2004	127	Has not been excavated
2 /19/2004	114.5	Has not been excavated
3 /19/2004	108.85	Has not been excavated
4 /21/2004	203.67	Has not been excavated
5 /24/2004	125.9	Has not been excavated
6 /24/2004	177.7	Has not been excavated
8 /27/2004	125	Has not been excavated
9 /28/2004	239.7	Has not been excavated
10/29/2004	124.7	Has not been excavated
12/1 /2004	58.2	Has not been excavated
1 /10/2005	75.3	Has not been excavated

Lead Deposition Air Monitors

Location of Sample	Sample Number (LDS-)	Setup Date	Coll. Date	Lead Result in mg/sq. ft
United Methodist (1 foot)	9	3/7/2003	4/7/2003	11.904
	29	4/7/2003	5/7/2003	10.046
	50	5/7/2003	6/6/2003	2.579
		6/6/2003	7/11/2003	
United Methodist (10 feet)	10	3/7/2003	4/7/2003	12.295
	30	4/7/2003	5/7/2003	11.758
	49	5/7/2003	6/6/2003	2.57
		6/6/2003	7/11/2003	
292 Park (1 foot)	11	3/7/2003	4/7/2003	3.937
	31	4/7/2003	5/7/2003	5.204
	51	5/7/2003	6/6/2003	1.122
		6/6/2003	7/11/2003	
292 Park (10 feet)	12	3/7/2003	4/7/2003	4.234
	32	4/7/2003	5/7/2003	3.422
	52	5/7/2003	6/6/2003	0.798
		6/6/2003	7/11/2003	
434 Sherman (1 foot)	13	3/7/2003	4/7/2003	2.645
	34	4/7/2003	5/7/2003	1.035
	53	5/7/2003	6/6/2003	0.452
		6/6/2003	7/11/2003	
434 Sherman (10 feet)	14	3/7/2003	4/7/2003	1.523
	33	4/7/2003	5/7/2003	1.193
	54	5/7/2003	6/6/2003	0.263
		6/6/2003	7/11/2003	
422 Reservoir (1 foot)	15	3/7/2003	4/7/2003	1.991
	37	4/7/2003	5/7/2003	1.827
	57	5/7/2003	6/6/2003	0.716
		6/6/2003	7/11/2003	
422 Reservoir (10 feet)	16	3/7/2003	4/7/2003	1.994
	38	4/7/2003	5/7/2003	1.519
	58	5/7/2003	6/6/2003	0.514
		6/6/2003	7/11/2003	
407 Hill (1 foot)	17	3/7/2003	4/7/2003	3.343
	36	4/7/2003	5/7/2003	3.684
	55	5/7/2003	6/6/2003	0.516
		6/6/2003	7/11/2003	
407 Hill (10 feet)	18	3/7/2003	4/7/2003	4.432
	35	4/7/2003	5/7/2003	2.699
	56	5/7/2003	6/6/2003	0.459
		6/6/2003	7/11/2003	

695 Joachim (1 foot)	19	3/7/2003	4/7/2003	3.924
	39	4/7/2003	5/7/2003	3.727
	59	5/7/2003	6/6/2003	1.131
		6/6/2003	7/11/2003	
695 Joachim (10 feet)	20	3/7/2003	4/7/2003	4.128
	40	4/7/2003	5/7/2003	4.01
	60	5/7/2003	6/6/2003	1.068
		6/6/2003	7/11/2003	
Amvets (1 foot)	21	3/7/2003	4/7/2003	7.798
	42	4/7/2003	5/7/2003	6.195
	61	5/7/2003	6/6/2003	2.296
		6/6/2003	7/11/2003	
Amvets (10 feet)	22	3/7/2003	4/7/2003	8.346
	41	4/7/2003	5/7/2003	6.507
	62	5/7/2003	6/6/2003	1.677
		6/6/2003	7/11/2003	
Ursuline (1 foot)	23	3/7/2003	4/7/2003	0.588
	43	4/7/2003	5/7/2003	0.774
	63	5/7/2003	6/6/2003	0.268
		6/6/2003	7/11/2003	
Ursuline (10 feet)	24	3/7/2003	4/7/2003	12.125
	44	4/7/2003	5/7/2003	0.601
	64	5/7/2003	6/6/2003	0.292
		6/6/2003	7/11/2003	
812 Brown (1 foot)	25	3/7/2003	4/7/2003	0.774
	45	4/7/2003	5/7/2003	10.928
	65	5/7/2003	6/6/2003	3.657
		6/6/2003	7/11/2003	
812 Brown (10 feet)	26	3/7/2003	4/7/2003	10.318
	46	4/7/2003	5/7/2003	6.041
	66	5/7/2003	6/6/2003	5.266
		6/6/2003	7/11/2003	
351 Station (1 foot)	27	3/7/2003	4/7/2003	14.764
	47	4/7/2003	5/7/2003	19.453
	67	5/7/2003	6/6/2003	4.673
		6/6/2003	7/11/2003	
351 Station (10 feet)	28	3/7/2003	4/7/2003	17.635
	48	4/7/2003	5/7/2003	7.265
	68	5/7/2003	6/6/2003	4.611
		6/6/2003	7/11/2003	

Dep Rate – 4.096 $g_{Pb}/m^2/yr \Rightarrow$

Soil density – 1.5 g_{soil}/cm^3

$$\left(4.096\ g_{Pb}/m^2/yr\right)\left(\frac{1}{10{,}000}\ \frac{m^2}{cm^2}\right) = .0004096\ \frac{g_{Pb}}{cm^2}/yr$$

$1\ IN = 2.54\ cm$

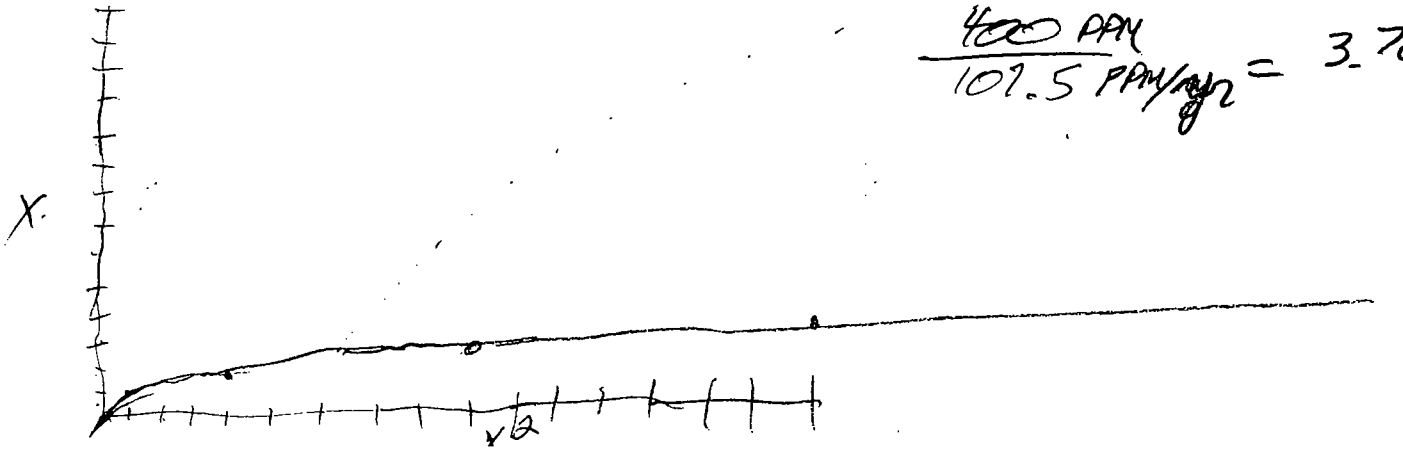
$1.5\ g_{soil}/cm^3$

$$\left(.0004096\ \frac{g_{Pb}}{cm^2}\right)\left(\frac{1}{2.54\ cm}\right) = .0001613\ \frac{g_{Pb}}{cm^3}$$

$$\frac{.0001613\ \frac{g_{Pb}}{cm^3}}{1.5\ g_{soil}/cm^3} = .0001075\ \frac{g_{Pb}}{g_{soil}}$$

107.5 PPM

$$\frac{400\ PPM}{107.5\ PPM/yr} = 3.72\ yrs$$



redesignation (65 FR 37879, 37886-37889) (June 19, 2000) and the Pittsburgh redesignation (66 FR 53094) (October 19, 2001).

Comment 20: If improvements in St. Louis air quality were due to permanent and enforceable emission reductions, the trend in monitored concentrations would be to go down. However, exceedances tripled from 2000 to 2001 and more than doubled from 2001 to 2002.

Response 20: As noted in the response to Comment 4 above, assessment of attainment of the one-hour ozone NAAQS is based on three year averages of ozone standard exceedance numbers at each monitoring site. One may also consider trends in ozone design values (the fourth highest ozone concentrations over three year periods at each monitoring site) as a more robust indicator of trends in peak ozone concentrations. Conclusions cannot and should not be drawn based on year-to-year exceedance variations over short time periods, such as year-to-year within a three year period since variations in other factors, such as year-to-year changes in meteorology, can mask or overwhelm the year-to-year ozone impacts of changes in emissions. Such an approach is not robust and is technically unstable and unreliable. In addition, for purposes of considering ozone redesignations as explained above, it is technically incorrect to consider changes in the annual totals of ozone standard exceedances for all monitoring

Deposition Sampling

Address	Date of Screening	Niton (mg/kg)	Actual XRF Readings	Comments
F3 Soil Box (EPA Trailer)	1/7/2003	24	<23, <22, <26	
	2/14/2003	32	<32, <35, <28	
	4/11/2003	119	135, 119, 102	
	5/7/2003	41	47, 37.4, 37.8	
F8 Soil Box (UM Church)	2/14/2003	24	<25, <26, <21	
	4/11/2003	55	60.2, 65.5, <39	
		29	<32, <27, <29	
F10 Soil Box (Amvets)	1/7/2003	24	<25, <20, <28	
	2/14/2003	26	<30, <24, <25	
	4/11/2003	77	64.1, <63, 103, 77.2	
		28	<29, <26, <28	
434 Sherman	3/6/2003	22	<22, <23, <22	
	4/11/2003	38	<34, <46, <35	
		23	<20, <22, <28	
695 Joachim	3/6/2003	35	<30, <38, <37	
	4/16/2003	46	<49, <46, <43	
		48	<42, <48, <53	
292 Park	3/6/2003	32	<31, <32, <34	
	4/11/2003	64	<90, <47, <56	
		37	<32, <24, 53.5	
407 Hill	3/6/2003	40	<48, <31, <44, <36	
	4/11/2003	50	<50, <50, <51	
		39	<35, <48, <35	
422 Reservoir	3/6/2003	39	<36, <40, <42	
	4/11/2003	53	<71, <42, <46	
		39	<43, <35, <40	
812 Brown	3/6/2003	39	<40, <39, <38	
	4/11/2003	74	<58, 119, <54, <63	
		42	<36, <42, <47	
210 Glennon Heights (Background)	3/7/2003	22	<24, <21, <21	
	4/11/2003	35	<30, <36, <39	
		21	<22, <22, <20	

Lead Deposition Air Monitors

Location of Sample	Sample Number (LDS-)	Setup Date	Coll. Date	Lead Result in mg/sq. ft
United Methodist (1 foot)	9	3/7/2003	4/7/2003	11.904
United Methodist (10 feet)	10	3/7/2003	4/7/2003	12.295
292 Park (1 foot)	11	3/7/2003	4/7/2003	3.937
292 Park (10 feet)	12	3/7/2003	4/7/2003	4.234
434 Sherman (1 foot)	13	3/7/2003	4/7/2003	2.645
434 Sherman (10 feet)	14	3/7/2003	4/7/2003	1.523
422 Reservoir (1 foot)	15	3/7/2003	4/7/2003	1.991
422 Reservoir (10 feet)	16	3/7/2003	4/7/2003	1.994
407 Hill (1 foot)	17	3/7/2003	4/7/2003	3.343
407 Hill (10 feet)	18	3/7/2003	4/7/2003	4.432
695 Joachim (1 foot)	19	3/7/2003	4/7/2003	3.924
695 Joachim (10 feet)	20	3/7/2003	4/7/2003	4.128
Amvets (1 foot)	21	3/7/2003	4/7/2003	7.798
Amvets (10 feet)	22	3/7/2003	4/7/2003	8.346
Ursuline (1 foot)	23	3/7/2003	4/7/2003	0.588
Ursuline (10 feet)	24	3/7/2003	4/7/2003	12.125
812 Brown (1 foot)	25	3/7/2003	4/7/2003	0.774
812 Brown (10 feet)	26	3/7/2003	4/7/2003	10.318
351 Station (1 foot)	27	3/7/2003	4/7/2003	14.764
351 Station (10 feet)	28	3/7/2003	4/7/2003	17.635

Deposition Sampling

Address	Date of Screening	Niton Ave (mg/kg)	Actual XRF Readings	Comments
F3 Soil Box (EPA Trailer)	1/7/2003	24	<23, <22, <26	
	2/14/2003	32	<32, <35, <28	
	4/11/2003	119	135, 119, 102	
	5/7/2003	41	47, 37.4, 37.8	
	6/6/2003	107	115, 73.9, 133	
	7/11/2003	167	205, 153, 144	
F8 Soil Box (UM Church)	2/14/2003	24	<25, <26, <21	
	4/11/2003	55	60.2, 65.5, <39	
	5/7/2003	29	<32, <27, <29	
	6/6/2003	42	<51, <27, <48	
	7/11/2003	34	<32, <40, <30	
F10 Soil Box (Amvets)	1/7/2003	24	<25, <20, <28	
	2/14/2003	26	<30, <24, <25	
	4/11/2003	77	64.1, <63, 103, 77.2	
	5/7/2003	28	<29, <26, <28	
	6/6/2003	48	46.1, 41.1, 57.8	
	7/11/2003	79	93.9, 46,4, 95.2	
434 Sherman	3/6/2003	22	<22, <23, <22	
	4/11/2003	38	<34, <46, <35	
	5/7/2003	23	<20, <22, <28	
	6/6/2003	32	<33, <34, <29	
	7/11/2003	28	<28, <31, <26	
695 Joachim	3/6/2003	35	<30, <38, <37	
	4/16/2003	46	<49, <46, <43	
	5/7/2003	48	<42, <48, <53	
	6/6/2003	52	<35, <65, <56	
	7/11/2003	65	<62, <74, <59	
292 Park	3/6/2003	32	<31, <32, <34	
	4/11/2003	64	<90, <47, <56	
	5/7/2003	37	<32, <24, 53.5	
	6/6/2003	56	<69, <50, <48	
	7/11/2003	64	<81, <71, <39	
407 Hill	3/6/2003	40	<48, <31, <44, <36	
	4/11/2003	50	<50, <50, <51	
	5/7/2003	39	<35, <48, <35	
	6/6/2003	41	<56, <35, <31	
	7/11/2003	46	<53, <39, <46	

422 Reservoir	3/6/2003	39	<36, <40, <42
	4/11/2003	53	<71, <42, <46
	5/7/2003	39	<43, <35, <40
	6/6/2003	48	<43 <55, <47
	7/11/2003	45	<38, <46, <50
812 Brown	3/6/2003	39	<40, <39, <38
	4/11/2003	74	<58, 119, <54, <63
	5/7/2003	42	<36, <42, <47
	6/6/2003	69	116, <58, <52, <51
	7/11/2003	67	79.1, <55, 67.1
210 Glennon Heights (Background)	3/7/2003	22	<24, <21, <21
	4/11/2003	35	<30, <36, <39
	5/7/2003	21	<22, <22, <20
	6/6/2003	26	<22, <26, <30
	7/11/2003	33	<33, <33, <33

HERCULANEUM LEAD SMELTER SITE
DEPOSITION SOIL BOX RESULTS

EPA_ID	Date	Reading 1	Reading 2	Reading 3	Reading 4	Average
43	3/6/2003	40 ND	39 ND	38 ND		39 ND
43	4/11/2003	58 ND	119	54 ND	63 ND	74
43	5/7/2003	36 ND	42 ND	47 ND		42 ND
43	6/6/2003	116	58 ND	52 ND	51 ND	69
43	7/11/2003	79	55 ND	67		67
43	8/11/2003	80	82	54 ND	98	79
43	9/15/2003	57 ND	89	78		75
43	10/15/2003	70	51	99		74
43	11/18/2003	91	90	140	111	108
43	12/17/2003	165	81	107	132	121
43	1/19/2004	35	81	105	53	68
43	2/19/2004	186	159	88		123
43	3/19/2004	82	115	136		126
43	4/21/2004	96	213	177		162
43	5/24/2004	142	37 ND	36 ND		72 ND
43	6/24/2004	130	51 ND	139	105	106
43	8/27/2004	51	70	119		80
43	9/28/2004	119	162	110		130
43	10/29/2004	93	145	115		118
43	12/1/2004	101	54	83		79
43	1/10/2005	125	199	81		135
43	2/10/2005	147	82	127		119
43	3/16/2005	229	400	161		236
43	4/19/2005	227	316	412		318
43	5/23/2005	248	239	445	421	338
69	3/6/2003	48 ND	31 ND	44 ND	36 ND	40 ND
69	4/11/2003	50 ND	50 ND	51 ND		50 ND
69	5/7/2003	35 ND	48 ND	35 ND		39 ND
69	6/6/2003	56 ND	35 ND	31 ND		41 ND
69	7/11/2003	53 ND	39 ND	46 ND		46 ND
69	8/11/2003	59 ND	48 ND	56 ND		54 ND
69	9/15/2003	35 ND	51 ND	39 ND		42 ND
69	10/15/2003	33	40	30		34
69	11/17/2003	34 ND	59	46		47
69	12/17/2003	54	26 ND	37		39
69	1/19/2004	38 ND	31 ND	32 ND		34 ND
69	2/19/2004	64	30	35		33
69	3/19/2004	43	55	42		49
69	4/21/2004	44	49	46		46
69	5/24/2004	59	135	27 ND		74
69	6/24/2004	52 ND	65	37 ND		51 ND
69	8/27/2004	36	137	34		69
69	9/28/2004	84	49	70		68
69	10/28/2004					

HERCULANEUM LEAD SMELTER SITE
DEPOSITION SOIL BOX RESULTS

EPA_ID	Date	Reading 1	Reading 2	Reading 3	Reading 4	Average
102	3/6/2003	30 ND	38 ND	37 ND		35 ND
102	4/16/2003	49 ND	46 ND	43 ND		46 ND
102	5/7/2003	42 ND	48 ND	53 ND		48 ND
102	6/6/2003	35 ND	65 ND	56 ND		52 ND
102	7/11/2003	62 ND	74 ND	59 ND		65 ND
102	8/11/2003	54 ND	64 ND	63 ND		60 ND
102	9/15/2003	50 ND	45 ND	47 ND		47 ND
102	10/15/2003	33 ND	44	47		42
102	11/18/2003	47	46	38		43
102	12/17/2003	49	59	30 ND		46
102	1/19/2004	63	58	45 ND		55
102	2/19/2004	51	91	70		80
102	3/19/2004	47 ND	76	53		64
102	4/21/2004	53	49 ND	64		55
102	5/24/2004	43 ND	62	95		67
102	6/24/2004	67 ND	46 ND	84		66
102	8/27/2004	47	36 ND	37		40
102	9/28/2004	87	95	97		93
102	10/28/2004	95 ND	74	58		76
102	12/1/2004	39 ND	28	30 ND		32 ND
102	1/10/2005	85	48	45 ND		59
102	2/10/2005	63	75	57 ND		65
102	3/16/2005	146	48 ND	90		95
102	4/19/2005	231	236	191		219
102	5/23/2005	211	165	226		201
148	2/14/2003	25 ND	26 ND	21 ND		24 ND
148	4/11/2003	60	66	39 ND		55
148	5/7/2003	32 ND	27 ND	29 ND		29 ND
148	6/6/2003	51 ND	27 ND	48 ND		42 ND
148	7/11/2003	32 ND	40 ND	30 ND		34 ND
148	8/11/2003	80	47 ND	66	43 ND	59
148	9/15/2003	28 ND	30 ND	36 ND		31 ND
148	10/15/2003	38	28	92		53
148	11/17/2003	65	105	53		74
148	12/17/2003	198	119	129		149
148	1/19/2004	84	90	103		92
148	2/19/2004	161	106	117		112
148	3/19/2004	59	30 ND	39		35
148	4/21/2004	275	190	216		227
148	5/24/2004	155	152	217		175
148	6/24/2004	330	402	302		345
148	8/27/2004	67	278	59	289	173
148	9/28/2004	354	279	511	339	371
148	10/29/2004	260	262	278		267
148	12/1/2004	186	122	163		157
148	1/10/2005	311	265	298		291
148	2/10/2005	188	339	298		275
148	3/16/2005	823	618	907		783
148	4/19/2005	734	711	878		774
148	5/23/2005	659	510	718		629

HERCULANEUM LEAD SMELTER SITE
DEPOSITION SOIL BOX RESULTS

EPA_ID	Date	Reading 1	Reading 2	Reading 3	Reading 4	Average
309	3/6/2003	31 ND	32 ND	34 ND		32 ND
309	4/11/2003	90 ND	47 ND	56 ND		64 ND
309	5/7/2003	32 ND	24 ND	54		37
309	6/6/2003	69 ND	50 ND	48 ND		56 ND
309	7/11/2003	81 ND	71 ND	39 ND		64 ND
309	8/11/2003	70	65 ND	49 ND		61
309	9/15/2003	53	50 ND	56		53
309	10/15/2003	47	29 ND	29 ND		35
309	11/17/2003	74	65	59		66
309	12/17/2003	79	62	42		61
309	1/19/2004	59	38 ND	36 ND		44
309	2/19/2004	69	84	64		74
309	3/19/2004	84	46	96		71
309	4/21/2004	68	131	147		116
309	5/24/2004	107	89	60		86
309	6/24/2004	160	72	55 ND		96
309	8/27/2004	119	50 ND	102		90
309	9/28/2004	145	165	219		176
309	10/29/2004	176	117	76		123
309	12/1/2004	131	120	97		116
309	1/10/2005	186	94	206		162
309	2/10/2005	105	133	120		119
309	3/16/2005	219	510	184		304
309	4/19/2005	129	330	224		228
309	5/23/2005	166	151	451	273	260
397	3/6/2003	22 ND	23 ND	22 ND		22 ND
397	4/11/2003	34 ND	46 ND	35 ND		38 ND
397	5/7/2003	20 ND	22 ND	28 ND		23 ND
397	6/6/2003	33 ND	34 ND	29 ND		32 ND
397	7/11/2003	28 ND	31 ND	26 ND		28 ND
397	8/11/2003	49 ND	57 ND	44 ND		50 ND
397	9/15/2003	22 ND	22 ND	34 ND		26 ND
397	10/15/2003	19 ND	19 ND	21 ND		20 ND
397	11/17/2003	19 ND	19 ND	20 ND		19 ND
397	12/17/2003	24 ND	27 ND	26 ND		26 ND
397	1/19/2004	28 ND	28 ND	31 ND		29 ND
397	2/19/2004	19 ND	20 ND	20 ND		20 ND
397	3/19/2004	23 ND	23 ND	52		38 ND
397	4/21/2004	28 ND	32	30		30
397	5/24/2004	41	24 ND	24 ND		30 ND
397	6/24/2004	24 ND	29 ND	23 ND		25 ND
397	8/27/2004	25 ND	26 ND	23 ND		25 ND
397	9/28/2004	17 ND	34	35		29
397	10/29/2004	22 ND	30 ND	37 ND		30 ND
397	12/1/2004	27 ND	42 ND	43 ND		37 ND
397	1/10/2005	34 ND	54	66		52
397	2/10/2005	47 ND	43 ND	34 ND		41 ND
397	3/16/2005	55	116	131		101
397	4/19/2005	52	34	100		62
397	5/23/2005					

HERCULANEUM LEAD SMELTER SITE
DEPOSITION SOIL BOX RESULTS

EPA_ID	Date	Reading 1	Reading 2	Reading 3	Reading 4	Average
442	3/6/2003	36 ND	40 ND	42 ND		39 ND
442	4/11/2003	71 ND	42 ND	46 ND		53 ND
442	5/7/2003	43 ND	35 ND	40 ND		39 ND
442	6/6/2003	43 ND	55 ND	47 ND		48 ND
442	7/11/2003	38 ND	46 ND	50 ND		45 ND
442	8/11/2003	53 ND	51 ND	44 ND		49 ND
442	9/15/2003	38 ND	50 ND	40 ND		53 ND
442	10/15/2003	24 ND	41 ND	35 ND		33 ND
442	11/17/2003	39	33	29 ND		34
442	12/17/2003	60	34 ND	35		43
442	1/19/2004	42 ND	50 ND	45 ND		46 ND
442	2/19/2004	41	30 ND	50		40
442	3/19/2004	36 ND	75	42 ND		58 ND
442	4/21/2004	68	63	36 ND		56
442	5/24/2004	63	54	36		51
442	6/24/2004	49 ND	42 ND	65		52
442	8/27/2004	54	36	28 ND		39
442	9/28/2004	116	65	40		74
442	10/29/2004	40 ND	39 ND	54		44
442	12/1/2004	63	31 ND	49 ND		48 ND
442	1/10/2005	61	46 ND	47 ND		51 ND
442	2/10/2005	42 ND	41 ND	45 ND		43 ND
442	3/16/2005	49	55 ND	59 ND		54
442	4/19/2005	70 ND	67 ND	153		97
442	5/23/2005	62	91	81		78
937	1/7/2003	23 ND	22 ND	26 ND		24 ND
937	2/14/2003	32 ND	35 ND	28 ND		32 ND
937	4/11/2003	135	119	102		119
937	5/7/2003	47	37	38		41
937	6/6/2003	115	74	133		107
937	7/11/2003	205	153	144		167
937	8/11/2003	336	622	259		406
937	9/15/2003	288	301	294		294
937	10/15/2003	330	143	219	228	230
937	11/17/2003	309	218	281		269
937	12/17/2003	265	206	176	189	209
937	1/19/2004	188	317	188		231
937	2/19/2004	404	271	311	291	291
937	3/19/2004	278	306	434		370
937	4/21/2004	602	515	464		527
937	5/24/2004	210	229	360		266
937	6/24/2004	279	285	499	279	336
937	8/27/2004	166	143	143		151
937	9/28/2004	367	493	215		358
937	10/29/2004	107	220	156		161
937	12/1/2004	290	62 ND	167		173
937	1/10/2005	195	183	229		202
937	2/10/2005	168	216			128
937	3/16/2005	508	453	557		506
937	4/19/2005	513	651	878		681
937	5/23/2005	519	708	467	398	523

HERCULANEUM LEAD SMELTER SITE
DEPOSITION SOIL BOX RESULTS

EPA_ID	Date	Reading 1	Reading 2	Reading 3	Reading 4	Average
938	3/7/2003	24 ND	21 ND	21 ND		22 ND
938	4/11/2003	30 ND	36 ND	39 ND		35 ND
938	5/7/2003	22 ND	22 ND	20 ND		21 ND
938	6/6/2003	22 ND	26 ND	30 ND		26 ND
938	7/11/2003	33 ND	33 ND	33 ND		33 ND
938	8/11/2003	32 ND	25 ND	26 ND		28 ND
938	9/15/2003	26 ND	28 ND	28 ND		27 ND
938	10/15/2003	17 ND	16 ND	17 ND		17 ND
938	11/18/2003	17 ND	15 ND	19 ND		17 ND
938	12/17/2003	20 ND	13 ND	18 ND		17 ND
938	1/19/2004	24 ND	17 ND	24 ND		22 ND
938	2/19/2004	20	17	20		19
938	3/19/2004	13 ND	19 ND	22 ND		21 ND
938	4/21/2004	28 ND	36 ND	23 ND		29 ND
938	5/24/2004	21 ND	20 ND	19 ND		20 ND
938	6/24/2004	30 ND	30 ND	31 ND		30 ND
938	8/27/2004	20 ND	21 ND	21 ND		21 ND
938	9/28/2004	27	28 ND	28 ND		28 ND
938	10/28/2004	32 ND	27 ND	26 ND		28 ND
938	12/1/2004	27 ND	28 ND	36 ND		30 ND
938	1/10/2005	29 ND	29 ND	26 ND		28 ND
938	2/10/2005	25 ND	29 ND	26 ND		27 ND
938	3/16/2005	40 ND	51 ND	52 ND		48 ND
938	4/19/2005	36 ND	37 ND	79	36 ND	47
938	5/23/2005	23 ND	45	28 ND		32
939	1/7/2003	25 ND	20 ND	28 ND		24 ND
939	2/14/2003	30 ND	24 ND	25 ND		26 ND
939	4/11/2003	64	63 ND	103	77	77
939	5/7/2003	29 ND	26 ND	28 ND		28 ND
939	6/6/2003	46	41	58		48
939	7/11/2003	94	46	95		79
939	8/11/2003	165	108	190		154
939	9/15/2003	98	86	125		103
939	10/15/2003	55	68	76		66
939	11/18/2003	75	82	109	51	79
939	12/17/2003	87	55	146	80	92
939	1/19/2004	131	144	107		127
939	2/19/2004	172	125	104		115
939	3/19/2004	37	30 ND	188		109
939	4/21/2004	207	103	301		204
939	5/24/2004	96	93	189		126
939	6/24/2004	162	114	257		178
939	8/27/2004	205	35	136		125
939	9/28/2004	232	288	199		240
939	10/29/2004	96	156	122		125
939	12/1/2004	77	60	37 ND		58
939	1/10/2005	81	92	53 ND		75
939	2/10/2005	301	93	199		198
939	3/16/2005	387	252	448		362
939	4/19/2005	409	309	153		290
939	5/23/2005	149	105	193		149