UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF CRIMINAL ENFORCEMENT, FORENSICS AND TRAINING
NATIONAL ENFORCEMENT INVESTIGATIONS CENTER
BUILDING 53, BOX 25227, DENVER FEDERAL CENTER
DENVER, COLORADO 80225

May 13, 2015

MEMRANDUM

SUBJECT: Errata Sheet for Technical Report NEICVP1060E02, Characterization of Lead in Soils, Chicago, Illinois, February 2015, NEIC Project Number VP1060

FROM: David Parker, Civil Program Coordinator
National Enforcement Investigations Center

TO: Ramon Mendoza, On-site Coordinator
U.S. Environmental Protection Agency, Region 5
77 West Jackson Boulevard, Mail Code SE-5J
Chicago, Illinois 60604-3507

Attached to this memorandum is an errata sheet with corrected Tables 1, 4, and 5 in NEIC Project VP1060, Report Number NEICVP1060E02. These corrections do not impact the scientific interpretations and/or conclusions stated in the report.

Please distribute a copy of the errata sheet to all individuals who received a copy of the final report.

Please contact Steve Machemer at (303) 462-9108 or Theresa Hosick at (303) 462-9125 with any concerns you may have.

Attachment

cc: Steve Machemer, PhD, Chemist, NEIC
Theresa Hosick, MS, Chemist, NEIC
Mike Pribil, MS, Chemist, USGS
Kathy Triantafillou, Region 5, OECA (memo)

May 13, 2015

ERRATA SHEET 01
for
Characterization of Lead in Soils
Pilsen Neighborhood
Chicago, Illinois
February 2015
Technical Report
NEICVP1060E02 NEIC Project
Number VP1060

Transcription errors occurred in Table 1, pages 19-25, Table 4, pages 62-63, and in Table 5, pages 64-67. in NEIC Technical Report NEICVP1060E02, Characterization of Lead in Soils, Chicago, Illinois, February 2015, NEIC Project Number VP1060. These corrections do not impact the scientific interpretations and/or conclusions stated in the report

A hardcopy of the correction is attached to this Errata sheet and both will be placed in the NEIC project file with the final report for future reference.

Table 1. LIST OF SAMPLES[a]
Characterization of Lead in Soils
Pilsen Neighborhood, Chicago, Illinois

Location ID	Field Sample ID	Laboratory Information Management System (LIMS) No.	Sampling Date	Depth Interval (inches)	Sampling Area	Sample Description	Lead concentration (mg/kg)[b]	Elemental Results[b]	Lead Isotope Ratio Results	SEM/EDS Results
BH1	BH 1	N105006-05	3/17/2011	n.a.[c]	H. Kramer baghouse 1	Rotary furnace	51000	Yes	Yes	(NEIC 2011)
BH2	BH 2	N105006-06	3/17/2011	n.a.[c]	H. Kramer baghouse 2	Rotary furnace	42000	Yes	Yes	(NEIC 2011)
BH4	BH 4	N105006-08	4/29/2011	n.a.[c]	H. Kramer baghouse 4	Electric induction furnace	12000	Yes	Yes	(NEIC 2011)
BH4 Duplicate	BH 4	N105006-09	4/29/2011	n.a.[c]	H. Kramer baghouse 4	Electric induction furnace	13000	Yes	Yes	No
BH5	BH 5	N105006-07	3/17/2011	n.a.[c]	H. Kramer baghouse 5	Rotary furnace	34000	Yes	Yes	(NEIC 2011)
AC01	PA-AC01(0-6)-121912	N312001-CK	12/19/2012	0–6	Alley	Composite soil	2700	Yes	Yes	No
AC01	PA-AC01(0-6)-121912D	N312001-CL	12/19/2012	0–6	Alley	Composite soil	2600	Yes	No	No
AC02	PA-AC02(0-6)-121912	N312001-CM	12/19/2012	0–6	Alley	Composite soil	1900	Yes	Yes	No
AC02	PA-AC02(0-6)-121912D	N312001-CN	12/19/2012	0–6	Alley	Composite soil	2000	Yes	No	No
AC03	PA-AC03(0-6)-121912	N312001-CO	12/19/2012	0–6	Alley	Composite soil	5600	Yes	Yes	No
AC03HS	PA-AC03HS(0-6)-121912	N312001-DY	12/19/2012	0–6	Alley	Composite soil	2600	Yes	Yes	No
AC04	PA-AC04(0-6)-121912	N312001-CP	12/19/2012	0–6	Alley	Composite soil	5000	Yes	Yes	No
AC05	PA-AC-05(0-6)-121912	N312001-EA	12/19/2012	0–6	Alley	Composite soil	3900	Yes	Yes	No
AC06	PA-AC06(0-6)-121912	N312001-CQ	12/19/2012	0–6	Alley	Composite soil	3000	Yes	Yes	No
AC07	PA-AC07(0-6)-121912	N312001-01	12/19/2012	0–6	Alley	Composite soil	940	Yes	Yes	Yes
AC08	PA-AC08(0-6)-121912	N312001-CR	12/19/2012	0–6	Alley	Composite soil	570	Yes	Yes	No
AC09	PA-AC09(0-6)-121912	N312001-02	12/19/2012	0–6	Alley	Composite soil	340	Yes	Yes	No
AC10	PA-AC10(0-6)-121912	N312001-CS	12/19/2012	0–6	Alley	Composite soil	63	Yes	Yes	No
AY02	PA-AY02(6-12)-121912	N312001-10	12/19/2012	6–12	Alley	Grab soil	2500	Yes	No	No
AY04	PA-AY04(6-12) -121912	N312001-07	12/19/2012	0–6	Alley	Grab soil	8700	Yes	No	No
AY05	PA-AY05(6-12)-121912	N312001-08	12/19/2012	6–12	Alley	Grab soil	8800	Yes	No	No
AY07	PA-AY07(12-24)-121912	N312001-09	12/19/2012	12–24	Alley	Grab soil	16000	Yes	No	No
AY09	PA-AY09(12-24)-121912	N312001-CT	12/19/2012	12–24	Alley	Grab soil	15000	Yes	Yes	No
AY12	PA-AY12(6-12)-121912	N312001-11	12/19/2012	6–12	Alley	Grab soil	1700	Yes	No	No
AY13	PA-AY13(12-24)-121912	N312001-06	12/19/2012	12–24	Alley	Grab soil	3200	Yes	No	No
AY16	PA-AY16(12-24)-121912	N312001-05	12/19/2012	12–24	Alley	Grab soil	2100	Yes	No	No
AY18	PA-AY18(6-12)-121912	N312001-03	12/19/2012	6–12	Alley	Grab soil	3400	Yes	No	Yes
AY19	PA-AY19(12-24)-121912	N312001-04	12/19/2012	12–24	Alley	Grab soil	1600	Yes	No	No
PA-RR01,02	PA-RR01,02(0-6)-050613	N312001-BV	5/6/2013	0–6	Railroad	Composite	4000	Yes	Yes	Yes
PA-RR01,02	PA-RR01,02(6-24)-050613	N312001-BW	5/6/2013	6–24	Railroad	Composite	1700	Yes	Yes	No
PA-RR01,02	PA-RR01,02(6-24)-050613D	N312001-CU	5/6/2013	6–24	Railroad	Composite	1500	Yes	No	No
PA-RR04,06	PA-RR04,06(0-6)-050613	N312001-BX	5/6/2013	0–6	Railroad	Composite	11000	Yes	Yes	Yes
PA-RR04,06	PA-RR04,06(6-24)-050613	N312001-BY	5/6/2013	6–24	Railroad	Composite	1700	Yes	Yes	No
PA-RR07,08	PA-RR07,08(0-6)-050613	N312001-CV	5/6/2013	0–6	Railroad	Composite	6800	Yes	Yes	No

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PA-RR07,08	PA-RR07,08(6-24)-050613	N312001-BU	5/6/2013	6–24	Railroad	Composite	5500	Yes	Yes	No
PA-RR10,12	PA-RR10,12(0-6)-050613	N312001-BR	5/6/2013	0–6	Railroad	Composite	1800	Yes	No	No
PA-RR10,12	PA-RR10,12(6-24)-050613	N312001-BT	5/6/2013	6–24	Railroad	Composite	2400	Yes	No	No
PA-RR11,13	PA-RR11,13(0-6)-050613	N312001-BQ	5/6/2013	0–6	Railroad	Composite	940	Yes	No	No
PA-RR11,13	PA-RR11,13(6-24)-050613	N312001-BS	5/6/2013	6–24	Railroad	Composite	1000	Yes	No	No
PA-RR14,15,16	PA-RR14,15,16(0-6)-050613	N312001-BP	5/6/2013	0–6	Railroad	Composite	1500	Yes	Yes	No
PA-RR14,15,16	PA-RR14,15,16(6-24)-050613	N312001-CG	5/6/2013	6–24	Railroad	Composite	2200	Yes	Yes	No
PA-84-01	PA-84-01(0-6)-050813	N312001-DX	5/8/2013	0–6	Res 2	Front yard soil	600	Yes	Yes	No
PA-84-02	PA-84-02(0-6)-050813	N312001-47	5/8/2013	0–6	Res 2	Back yard soil	1100	Yes	No	No
PA-84-02	PA-84-02(0-6)-050813D	N312001-48	5/8/2013	0–6	Res 2	Back yard soil	740	Yes	No	No
PA-92-01	PA-92-01(0-6)-050813	N312001-DU	5/8/2013	0–6	Res 2	Back yard soil	880	Yes	Yes	No
PA-92-01	PA-92-01(6-12)-070913	N312001-52	7/9/2013	6–12	Res 2	Back yard soil	920	Yes	No	No
PA-92-01	PA-92-01(12-24)-070913	N312001-53	7/9/2013	12–24	Res 2	Back yard soil	1000	Yes	No	No
PA-92-02	PA-92-02(0-12)-050813	N312001-BN	5/8/2013	0–12	Res 2	Garden soil	400	Yes	No	No
PA-104-01	PA-104-01(0-6)-050213	N312001-94	5/2/2013	0–6	Res 2	Front yard soil	930	Yes	Yes	No
PA-104-01	PA-104-01(6-12)-071613	N312001-AD	7/16/2013	6–12	Res 2	Front yard soil	890	Yes	No	No
PA-104-01	PA-104-01(12-24)-071613	N312001-AE	7/16/2013	12–24	Res 2	Front yard soil	500	Yes	Yes	No
PA-104-02	PA-104-02(0-6)-050213	N312001-CW	5/2/2013	0–6	Res 2	Back yard soil	1400	Yes	No	Yes
PA-105-01	PA-105-01(0-6)-050213	N312001-93	5/2/2013	0–6	Res 2	Front yard soil	640	Yes	Yes	No
PA-105-02	PA-105-02(0-6)-050213	N312001-12	5/2/2013	0–6	Res 2	Back yard soil	990	Yes	No	No
PA-122-01	PA-122-01(0-6)-050313	N312001-14	5/3/2013	0–6	Res 1	Back yard soil	1900	Yes	Yes	Yes
PA-122-01	PA-122-01(6-18)-071513	N312001-38	7/15/2013	6–18	Res 1	Back yard soil	1900	Yes	No	No
PA-122-01	PA-122-01(18-24)-071513	N312001-39	7/15/2013	18–24	Res 1	Back yard soil	470	Yes	No	No
PA-122-01	PA-122-01(18-24)-071513D	N312001-40	7/15/2013	18–24	Res 1	Back yard soil	250	Yes	No	No
PA-122-02	PA-122-02(0-6)-050313	N312001-BE	5/3/2013	0–6	Res 1	Garden soil	920	Yes	Yes	No
PA-123-01	PA-123-01(0-12)-050313	N312001-BD	5/3/2013	0–12	Res 2	Garden soil	1100	Yes	Yes	No
PA-125-01	PA-125-01(0-6)-050313	N312001-CC	5/3/2013	0–6	Res 2	Yard (west 1/2 lot)	1500	Yes	Yes	Yes
PA-125-02	PA-125-02(0-6)-050313	N312001-CX	5/3/2013	0–6	Res 2	Yard (east 1/2 lot)	1100	Yes	Yes	No
PA-125-03	PA-125-03(0-12)-050313	N312001-BC	5/3/2013	0–12	Res 2	Garden soil	700	Yes	No	No
PA-127-01	PA-127-01(0-6)-050313	N312001-CY	5/3/2013	0–6	Res 1	Back yard soil	2500	Yes	No	Yes
PA-127-01	PA-127-01(6-21)-071613	N312001-41	7/16/2013	6–21	Res 1	Back yard soil	4200	Yes	Yes	No
PA-14-01	PA-14-01(0-6)-050913	N312001-51	5/9/2013	0–6	Res 2	Back yard soil	140	Yes	No	No
PA-14-02	PA-14-02(0-6)-050913	N312001-CZ	5/9/2013	0–6	Res 2	Front yard soil	480	Yes	No	No
PA-14-03	PA-14-03(0-6)-050913	N312001-82	5/9/2013	0–6	Res 2	Drip zone soil	710	Yes	No	No

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PA-141-01	PA-141-01(0-6)-050713	N312001-CD	5/7/2013	0–6	Res 2	Yard (west 1/2 lot)	860	Yes	No	No
PA-141-02	PA-141-02(0-6)-050713	N312001-CI	5/7/2013	0–6	Res 2	Yard (east 1/2 lot)	1600	Yes	No	Yes
PA-141-03	PA-141-03(0-12)-050713	N312001-BJ	5/7/2013	0–12	Res 2	Garden soil	3300	Yes	No	No
PA-163-01	PA-163-01(0-6)-050113	N312001-AZ	5/1/2013	0–6	Res 2	Garden soil	19	Yes	Yes	No
PA-163-02	PA-163-02(0-6)-050113	N312001-BA	5/1/2013	0–6	Res 2	Garden soil	130	Yes	No	No
PA-163-03	PA-163-03(0-6)-050113	N312001-80	5/1/2013	0–6	Res 2	Drip zone soil	130	Yes	No	No
PA-180-01	PA-180-01(0-6)-050213	N312001-CB	5/2/2013	0–6	Res 1	Yard (east 1/2 lot)	810	Yes	Yes	No
PA-180-02	PA-180-02(0-6)-050213	N312001-CF	5/2/2013	0–6	Res 1	Yard (west 1/2 lot)	3000	Yes	No	No
PA-183-01	PA-183-01(0-12)-050213	N312001-BB	5/2/2013	0–12	Res 1	Garden soil	1300	Yes	Yes	No
PA-186-01	PA-186-01(0-6)-050213	N312001-95	5/2/2013	0–6	Res 1	Front yard soil	360	Yes	No	No
PA-186-02	PA-186-02(0-6)-050213	N312001-DA	5/2/2013	0–6	Res 1	Back yard soil	320	Yes	Yes	No
PA-191-01	PA-191-01(0-6)-050213	N312001-DB	5/2/2013	0–6	Res 1	Back yard soil	2000	Yes	Yes	No
PA-191-01	PA-191-01(0-6)-050213D	N312001-DC	5/2/2013	0–6	Res 1	Back yard soil	2400	Yes	No	No
PA-193-01	PA-193-01(0-6)-050313	N312001-13	5/3/2013	0–6	Res 1	Back yard soil	580	Yes	Yes	No
PA-272-01	PA-272-01(0-6)-050113	N312001-DD	5/1/2013	0–6	Res 1	Back yard soil	2000	Yes	Yes	Yes
PA-274-01	PA-274-01(0-6)-050113	N312001-DE	5/1/2013	0–6	Res 1	Back yard soil	1900	Yes	Yes	Yes
PA-274-02	PA-274-02(0-6)-050113	N312001-DF	5/1/2013	0–6	Res 1	Drip zone soil	2000	Yes	Yes	No
PA-276-01	PA-276-01(0-6)-050113	N312001-DG	5/1/2013	0–6	Res 1	Back yard soil	2400	Yes	No	No
PA-276-01	PA-276-01(0-6)-050113D	N312001-42	5/1/2013	0–6	Res 1	Back yard – duplicate	3600	Yes	No	No
PA-276-01	PA-276-01(6-18)-071513	N312001-43	7/15/2013	6–18	Res 1	Back yard	1700	Yes	No	No
PA-276-01	PA-276-01(18-24)-071513	N312001-44	7/15/2013	18–24	Res 1	Back yard	550	Yes	No	No
PA-291-01	PA-291-01(0-6)-050113	N312001-92	5/1/2013	0–6	Res 1	Front yard soil	500	Yes	No	No
PA-291-03	PA-291-03(0-6)-050113	N312001-DH	5/1/2013	0–6	Res 1	Garden soil	34	Yes	Yes	No
PA-304-01	PA-304-01(0-6)-050913	N312001-DI	5/9/2013	0–6	Res 2	Back yard soil	58	Yes	Yes	No
PA-349-01	PA-349-01(0-6)-050713	N312001-DJ	5/7/2013	0–6	Res 2	Front yard soil	890	Yes	Yes	No
PA-349-02	PA-349-02(0-12)-050713	N312001-BH	5/7/2013	0–12	Res 2	Garden soil	630	Yes	No	No
PA-349-03	PA-349-03(0-6)-050713	N312001-46	5/7/2013	0–6	Res 2	Back yard soil	1400	Yes	No	No
PA-349-03	PA-349-03(6-14)-071613	N312001-54	7/16/2013	6–14	Res 2	Back yard soil	680	Yes	No	No
PA-351-01	PA-351-01(0-6)-050713	N312001-BI	5/7/2013	0–6	Res 2	Garden soil	390	Yes	No	No
PA-369-01	PA-369-01(0-2)-050713	N312001-45	5/7/2013	0–2	Res 2	Back yard soil	480	Yes	No	No
PA-369-01	PA-369-01(0-6)-050713	N312001-DK	5/7/2013	0–6	Res 2	Back yard soil	1500	Yes	No	No
PA-369-02	PA-369-02(0-12)-050713	N312001-BG	5/7/2013	0–12	Res 2	Garden soil	1700	Yes	No	No
PA-369-03,04	PA-369-03,04(0-6)-050713	N312001-91	5/7/2013	0–6	Res 2	Front yard soil	2300	Yes	No	No
PA-370-01	PA-370-01(0-6)-050713	N312001-DL	5/7/2013	0–6	Res 1	Back yard soil	700	Yes	Yes	No

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PA-370-01	PA-370-01(0-6)-050713D	N312001-DM	5/7/2013	0–6	Res 1	Back yard soil	950	Yes	No	No
PA-370-02	PA-370-02(0-6)-050713	N312001-CJ	5/7/2013	0–6	Res 1	Garden soil	1700	Yes	Yes	No
PA-370-02	PA-370-02(6-12)-050713	N312001-DN	5/7/2013	6–12	Res 1	Garden soil	1700	Yes	No	No
PA-371-01	PA-371-01(0-6)-050713	N312001-DO	5/7/2013	0–6	Res 2	Back yard soil	1800	Yes	No	Yes
PA-371-02	PA-371-02(0-6)-050713	N312001-DP	5/7/2013	0–6	Res 2	Front yard soil	320	Yes	Yes	No
PA-371-02	PA-371-02(0-6)-050713D	N312001-96	5/7/2013	0–6	Res 2	Front yard soil	410	Yes	No	No
PA-375-01	PA-375-01(0-6)-050713	N312001-DQ	5/7/2013	0–6	Res 1	Back yard soil	1800	Yes	Yes	No
PA-375-02	PA-375-02(0-12)-050713	N312001-BF	5/7/2013	0–12	Res 1	Garden soil	2500	Yes	No	No
PA-464-01	PA-464-01(0-6)-050813	N312001-CA	5/8/2013	0–6	Res 3	Yard (east 1/2 lot)	910	Yes	Yes	No
PA-464-02	PA-464-02(0-6)-050813	N312001-DR	5/8/2013	0–6	Res 3	Yard (west 1/2 lot)	240	Yes	Yes	No
PA-464-03	PA-464-03(0-12)-050813	N312001-BK	5/8/2013	0–12	Res 3	Garden soil	670	Yes	No	No
PA-464-04	PA-464-04(0-12)-050813	N312001-BL	5/8/2013	0–12	Res 3	Garden soil	450	Yes	No	No
PA-464-04	PA-464-04(0-12)-050813D	N312001-BM	5/8/2013	0–12	Res 3	Garden soil	390	Yes	No	No
PA-465-01	PA-465-01(0-6)-050913	N312001-BZ	5/9/2013	0–6	Res 3	Yard soil	370	Yes	Yes	No
PA-465-01	PA-465-01(0-6)-050913D	N312001-DS	5/9/2013	0–6	Res 3	Yard soil	340	Yes	Yes	No
PA-465-02,03,04	PA-465-02,03,04(0-12)-050913	N312001-BO	5/9/2013	0–12	Res 3	Garden/drip zone	350	Yes	No	No
PA-466-01	PA-466-01(0-6)-050913	N312001-DT	5/9/2013	0–6	Res 2	Yard (east 1/2 lot)	730	Yes	Yes	No
PA-466-02	PA-466-02(0-6)-050913	N312001-CE	5/9/2013	0–6	Res 2	Yard (west 1/2 lot)	650	Yes	Yes	No
PA-466-05	PA-466-05(0-6)-050913	N312001-81	5/8/2013	0–6	Res 2	Drip zone soil	2400	Yes	No	No
PA-467-01	PA-467-01(0-6)-050913	N312001-49	5/8/2013	0–6	Res 2	Back yard soil	1400	Yes	No	No
PA-468-01	PA-468-01(0-6)-050913	N312001-50	5/8/2013	0–6	Res 2	Back yard soil	1300	Yes	Yes	No
PA-469-01	PA-469-01(0-6)-051013	N312001-CH	5/10/2013	0–6	Res 3	Field – NW quadrant	130	Yes	Yes	No
PA-469-01	PA-469-01(0-6)-051013D	N312001-85	5/10/2013	0–6	Res 3	Field – NW quadrant	120	Yes	No	No
PA-469-01	PA-469-01(6-15)-071113	N312001-86	7/11/2013	6–15	Res 3	Field – NW quadrant	340	Yes	Yes	No
PA-469-02	PA-469-02(0-6)-051013	N312001-83	5/10/2013	0–6	Res 3	Field – NE quadrant	100	Yes	No	No
PA-469-02	PA-469-02(6-15)-071113	N312001-84	7/11/2013	6–15	Res 3	Field – NE quadrant	330	Yes	No	No
PA-469-03	PA-469-03(0-6)-051013	N312001-88	5/10/2013	0–6	Res 3	Field – SW quadrant	120	Yes	No	No
PA-469-03	PA-469-03(6-15)-071113	N312001-89	7/11/2013	6–15	Res 3	Field – SW quadrant	560	Yes	No	No
PA-469-03	PA-469-03(6-15)-071113D	N312001-90	7/11/2013	6–15	Res 3	Field – SW quadrant	250	Yes	No	No
PA-469-04	PA-469-04(0-6)-051013	N312001-87	5/10/2013	0–6	Res 3	Field – SE quadrant	110	Yes	No	No
PA-469-04	PA-469-04(0-6)-051013D	N312001-DV	5/10/2013	0–6	Res 3	Field – SE quadrant	80	Yes	No	No
PA-469-05	PA-469-05(0-6)-051013	N312001-DW	5/10/2013	0–6	Res 3	Playground	340	Yes	Yes	No
PA-470-01	PA-470-01(0-6)-070913	N312001-15	7/9/2013	0–6	Res 2	Back yard soil	3200	Yes	No	No
PA-471-01	PA-471-01(0-6)-070913	N312001-16	7/9/2013	0–6	Harrison Park	Back yard soil	1900	Yes	No	No

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Pilsen Neighborhood, Chicago, Illinois

Location ID	Field Sample ID	Laboratory Information Management System (LIMS) No.	Sampling Date	Depth Interval (inches)	Sampling Area	Sample Description	Lead concentration (mg/kg)[b]	Elemental Results[b]	Lead Isotope Ratio Results	SEM/EDS Results
PA-472-01	PA-472-01(0-6)-070913	N312001-17	7/9/2013	0–6	Harrison Park	Back yard soil	940	Yes	No	No
PA-472-01	PA-472-01(0-6)-070913D	N312001-18	7/9/2013	0–6	Harrison Park	Back yard soil	1200	Yes	No	No
PA-473-01	PA-473-01(0-6)-070913	N312001-19	7/9/2013	0–6	Harrison Park	Back yard soil	1700	Yes	No	No
PA-473-01	PA-473-01(6-18)-070913	N312001-20	7/9/2013	6–18	Harrison Park	Back yard soil	1600	Yes	No	No
PA-473-01	PA-473-01(18-24)-070913	N312001-21	7/9/2013	18–24	Harrison Park	Back yard soil	140	Yes	No	No
PA-474-01	PA-474-01(0-6)-071013	N312001-22	7/10/2013	0–6	Harrison Park	Back yard soil	2600	Yes	No	Yes
PA-474-01	PA-474-01(6-18)-071013	N312001-23	7/10/2013	6–18	Harrison Park	Back yard soil	2300	Yes	No	No
PA-474-02	PA-474-02(0-6)-071013	N312001-97	7/10/2013	0–6	Harrison Park	Front yard soil	2200	Yes	No	No
PA-475-01	PA-475-01(0-6)-071013	N312001-24	7/10/2013	0–6	Harrison Park	Back yard soil	3700	Yes	No	Yes
PA-476-01	PA-476-01(0-6)-071013	N312001-25	7/10/2013	0–6	Harrison Park	Back yard soil	2000	Yes	No	No
PA-477-01	PA-477-01(0-6)-071013	N312001-26	7/10/2013	0–6	Harrison Park	Back yard soil	1700	Yes	Yes	No
PA-477-01	PA-477-01(6-18)-071013	N312001-27	7/10/2013	6–18	Harrison Park	Back yard soil	1100	Yes	No	No
PA-478-01	PA-478-01(0-6)-071013	N312001-AN	7/10/2013	0–6	Harrison Park	Front/back comp	1400	Yes	No	No
PA-478-01	PA-478-01(0-6)-071013D	N312001-AO	7/10/2013	0–6	Harrison Park	Front/back comp	1700	Yes	No	No
PA-479-01	PA-479-01(0-6)-071113	N312001-98	7/11/2013	0–6	Harrison Park	Front yard soil	1200	Yes	No	No
PA-480-01	PA-480-01(0-6)-071113	N312001-99	7/11/2013	0–6	Harrison Park	Front yard soil	3200	Yes	Yes	Yes
PA-481-01	PA-481-01(0-6)-071113	N312001-28	7/11/2013	0–6	Harrison Park	Back yard soil	1600	Yes	No	No
PA-482-01	PA-482-01(0-6)-071113	N312001-AA	7/11/2013	0–6	Res 3	Front yard soil	210	Yes	No	No
PA-482-01	PA-482-01(6-18)-071113	N312001-AB	7/11/2013	6–18	Res 3	Front yard soil	250	Yes	No	No
PA-483-01	PA-483-01(0-6)-071213	N312001-29	7/12/2013	0–6	Res 2	Back yard soil	200	Yes	No	No
PA-483-01	PA-483-01(6-24)-071213	N312001-30	7/12/2013	6–24	Res 2	Back yard soil	140	Yes	No	No
PA-484-01	PA-484-01(0-6)-071213	N312001-31	7/12/2013	0–6	Harrison Park	Back yard soil	1700	Yes	No	No
PA-484-01	PA-484-01(6-18)-071213	N312001-32	7/12/2013	6–18	Harrison Park	Back yard soil	4300	Yes	No	No
PA-485-01	PA-485-01(0-6)-071213	N312001-33	7/12/2013	0–6	Harrison Park	Back yard soil	510	Yes	No	No
PA-486-01	PA-486-01(0-6)-071213	N312001-34	7/12/2013	0–6	Harrison Park	Back yard soil	880	Yes	No	No
PA-486-01	PA-486-01(6-24)-071213	N312001-35	7/12/2013	6–24	Harrison Park	Back yard soil	1100	Yes	No	No
PA-486-01	PA-486-01(6-24)-071213D	N312001-36	7/12/2013	6–24	Harrison Park	Back yard soil	960	Yes	No	No
PA-487-01	PA-487-01(0-6)-071513	N312001-37	7/15/2013	0–6	Harrison Park	Back yard soil	1400	Yes	No	No
PA-488-01	PA-488-01(0-6)-071513	N312001-AC	7/15/2013	0–6	Harrison Park	Front yard soil	410	Yes	Yes	No
PA-489-01	PA-489-01(0-6)-081213	N312001-AF	8/12/2013	0–6	Little Italy	Front yard soil	160	Yes	No	No
PA-489-01	PA-489-01(6-18)-081213	N312001-AG	8/12/2013	6–18	Little Italy	Front yard soil	92	Yes	No	No
PA-490-01	PA-490-01(0-6)-081213	N312001-AH	8/12/2013	0–6	Little Italy	Front yard soil	220	Yes	Yes	No
PA-491-01	PA-491-01(0-6)-081213	N312001-AI	8/12/2013	0–6	Little Italy	Front yard soil	260	Yes	No	No
PA-491-01	PA-491-01(6-18)-081213	N312001-AJ	8/12/2013	6–18	Little Italy	Front yard soil	270	Yes	No	No

Table 1. LIST OF SAMPLES[a]
Characterization of Lead in Soils
Pilsen Neighborhood, Chicago, Illinois

Location ID	Field Sample ID	Laboratory Information Management System (LIMS) No.	Sampling Date	Depth Interval (inches)	Sampling Area	Sample Description	Lead concentration (mg/kg)[b]	Elemental Results[b]	Lead Isotope Ratio Results	SEM/EDS Results
PA-491-01	PA-491-01(6-18)-081213D	N312001-AK	8/12/2013	6–18	Little Italy	Front yard soil	260	Yes	No	No
PA-492-01	PA-492-01(0-6)-081313	N312001-AL	8/13/2013	0–6	Little Italy	Front yard soil	260	Yes	No	No
PA-493-01	PA-493-01(0-6)-081313	N312001-AM	8/13/2013	0–6	Little Italy	Front yard soil	190	Yes	Yes	No
PA-494-01	PA-494-01(0-6)-081313	N312001-79	8/13/2013	0–6	Little Italy	Back yard common area	120	Yes	Yes	No
PA-495-01	PA-495-01(0-6)-081313	N312001-55	8/13/2013	0–6	Res 3	Back yard soil	930	Yes	No	No
PA-495-01	PA-495-01(6-24)-081313	N312001-56	8/13/2013	6–24	Res 3	Back yard soil	1800	Yes	No	No
PA-496-01	PA-496-01(0-6)-081313	N312001-57	8/13/2013	0–6	Res 3	Back yard soil	230	Yes	No	No
PA-497-01	PA-497-01(0-6)-081313	N312001-58	8/13/2013	0–6	Res 3	Back yard soil	460	Yes	No	No
PA-498-01	PA-498-01(0-6)-081313	N312001-59	8/13/2013	0–6	Res 3	Back yard soil	270	Yes	No	No
PA-498-01	PA-498-01(0-6)-081313D	N312001-60	8/13/2013	0–6	Res 3	Back yard soil	280	Yes	No	No
PA-498-01	PA-498-01(6-15)-081313	N312001-61	8/13/2013	6–15	Res 3	Back yard soil	550	Yes	No	No
PA-499-01	PA-499-01(0-6)-081413	N312001-AP	8/14/2013	0–6	Res 3	Front yard soil	1200	Yes	No	No
PA-500-01	PA-500-01(0-6)-081413	N312001-62	8/14/2013	0–6	Little Italy	Back yard soil	760	Yes	No	No
PA-500-01	PA-500-01(6-24)-081413	N312001-63	8/14/2013	6–24	Little Italy	Back yard soil	930	Yes	No	No
PA-501-01	PA-501-01(0-6)-081413	N312001-AQ	8/14/2013	0–6	Little Italy	Front yard soil	66	Yes	No	No
PA-502-01	PA-502-01(0-6)-081413	N312001-64	8/14/2013	0–6	Harrison Park	Back yard soil	780	Yes	No	No
PA-502-01	PA-502-01(6-24)-081413	N312001-65	8/14/2013	6–24	Harrison Park	Back yard soil	580	Yes	No	No
PA-503-01	PA-503-01(0-6)-081413	N312001-AR	8/14/2013	0–6	Harrison Park	Front yard soil	1400	Yes	No	No
PA-503-01	PA-503-01(6-24)-081413	N312001-AS	8/14/2013	6–24	Harrison Park	Front yard soil	840	Yes	No	No
PA-504-01	PA-504-01(0-6)-081513	N312001-AT	8/15/2013	0–6	Res 3	Front yard soil	390	Yes	No	No
PA-505-01	PA-505-01(0-6)-081513	N312001-66	8/15/2013	0–6	Res 3	Back yard soil	1300	Yes	No	No
PA-505-01	PA-505-01(0-6)-081513D	N312001-67	8/15/2013	0–6	Res 3	Back yard soil	1400	Yes	No	No
PA-506-01	PA-506-01(0-6)-081513	N312001-68	8/15/2013	0–6	Res 3	Back yard soil	940	Yes	No	No
PA-507-01	PA-507-01(0-6)-081513	N312001-69	8/15/2013	0–6	Harrison Park	Back yard soil	270	Yes	No	No
PA-508-01	PA-508-01(0-6)-081513	N312001-70	8/15/2013	0–6	Res 3	Back yard soil	580	Yes	No	No
PA-508-01	PA-508-01(6-24)-081513	N312001-71	8/15/2013	6–24	Res 3	Back yard soil	140	Yes	No	No
PA-509-01	PA-509-01(0-6)-081513	N312001-72	8/15/2013	0–6	Res 3	Back yard soil	1400	Yes	No	No
PA-510-01	PA-510-01(0-6)-081513	N312001-AU	8/15/2013	0–6	Res 3	Front yard soil	1700	Yes	No	Yes
PA-511-01	PA-511-01(0-6)-081613	N312001-AV	8/16/2013	0–6	Little Italy	Front yard soil	210	Yes	No	No
PA-512-01	PA-512-01(0-6)-081613	N312001-AW	8/16/2013	0–6	Little Italy	Front yard soil	320	Yes	No	No
PA-513-01	PA-513-01(0-6)-081613	N312001-AX	8/16/2013	0–6	Little Italy	Front yard soil	170	Yes	No	No
PA-513-01	PA-513-01(0-6)-081613D	N312001-AY	8/16/2013	0–6	Little Italy	Front yard soil	140	Yes	No	No
PA-514-01	PA-514-01(0-6)-081613	N312001-73	8/16/2013	0–6	Res 3	Back yard soil	410	Yes	No	No
PA-514-01	PA-514-01(6-24)-081613	N312001-74	8/16/2013	6–24	Res 3	Back yard soil	760	Yes	No	No

Table 1. LIST OF SAMPLES[a]
Characterization of Lead in Soils
Pilsen Neighborhood, Chicago, Illinois

Location ID	Field Sample ID	Laboratory Information Management System (LIMS) No.	Sampling Date	Depth Interval (inches)	Sampling Area	Sample Description	Lead concentration (mg/kg)[b]	Elemental Results[b]	Lead Isotope Ratio Results	SEM/EDS Results
PA-515-01	PA-515-01(0-6)-081613	N312001-75	8/16/2013	0–6	Res 3	Back yard soil	1600	Yes	No	Yes
PA-516-01	PA-516-01(0-6)-081613	N312001-76	8/16/2013	0–6	Harrison Park	Back yard soil	520	Yes	No	No
PA-516-01	PA-516-01(0-6)-081613D	N312001-77	8/16/2013	0–6	Harrison Park	Back yard soil	560	Yes	No	No
PA-516-01	PA-516-01(6-18)-081613	N312001-78	8/16/2013	6–18	Harrison Park	Back yard soil	550	Yes	No	No
Perez	040001	N105006-12	1/03/11	n.a.[c]	Perez Elementary	TSP filter	1.09[d]	No	Yes	(NEIC 2011)
Perez	040016	N105006-11	4/2/10	n.a.[c]	Perez Elementary	TSP filter	1.40[d]	No	Yes	(NEIC 2011)
Perez	040041	N105006-13	8/30/10	n.a.[c]	Perez Elementary	TSP filter	0.90[d]	No	Yes	(NEIC 2011)
Perez	040058	N105006-10	12/10/10	n.a.[c]	Perez Elementary	TSP filter	1.53[d]	No	Yes	(NEIC 2011)

[a] Soil sampling areas were shown in colored text for easier differentiation; soil areas designated Res 1, Res 2, and Res 3 were defined in Canar et al. (2014) and EPA (2014b).
[b] Lead data for unsieved soil samples from STAT Analysis Corp by SW 846 6020 ICP-MS (EPA, 2014a and b) (milligrams per kilogram [mg/kg]).
[c] n.a. = not applicable.
[d] Data collected by the CCDEC and available from EPA (2011) (micrograms per cubic meter [$\mu g/m^3$]).

Table 4. Pb ISOTOPE RATIO RESULTS
Characterization of Lead in Soils
Pilsen Neighborhood, Chicago, Illinois

Sample	LIMS No.	Description	$^{206}Pb/^{207}Pb$	$^{208}Pb/^{207}Pb$
BH1	N105006-05	H. Kramer baghouse dust	1.1974	2.4490
BH2	N105006-06	H. Kramer baghouse dust	1.1971	2.4492
BH4	N105006-08	H. Kramer baghouse dust	1.2000	2.4513
BH4 Duplicate	N105006-09	H. Kramer baghouse dust	1.2000	2.4513
BH5	N105006-07	H. Kramer baghouse dust	1.1964	2.4491
PA-**AC01**(0-6)-121912[a]	N312001-**CK**	Alley – composite soil	1.2106	2.4592
PA-**AC02**(0-6)-121912	N312001-**CM**	Alley – composite soil	1.2039	2.4556
PA-**AC03**(0-6)-121912	N312001-**CO**	Alley – composite soil	1.2188	2.4606
PA-**AC03**HS(0-6)-121912	N312001-**DY**	Alley – composite soil	1.2107	2.4578
PA-**AC04**(0-6)-121912	N312001-**CP**	Alley – composite soil	1.1995	2.4543
PA-**AC05**(0-6)-121912	N312001-**EA**	Alley – composite soil	1.1965	2.4470
PA-**AC06**(0-6)-121912	N312001-**CQ**	Alley – composite soil	1.1992	2.4512
PA-**AC07**(0-6)-121912	N312001-**01**	Alley – composite soil	1.2031	2.4539
PA-**AC08**(0-6)-121912	N312001-**CR**	Alley – composite soil	1.2433	2.4717
PA-**AC09**(0-6)-121912	N312001-**02**	Alley – composite soil	1.1967	2.4517
PA-**AC10**(0-6)-121912	N312001-**CS**	Alley – composite soil	1.2096	2.4585
PA-**AY09**(12-24)-121912	N312001-**CT**	Alley – grab soil	1.1972	2.4460
PA-**RR-01,02**(0-6)-050613[b]	N312001-**BV**	Railroad – composite soil	1.2095	2.4581
PA-**RR-01,02**(6-24)-050613	N312001-**BW**	Railroad – composite soil	1.2043	2.4549
PA-**RR-04,06**(0-6)-050613	N312001-**BX**	Railroad – composite soil	1.2037	2.4519
PA-**RR-04,06**(6-24)-050613	N312001-**BY**	Railroad – composite soil	1.2067	2.4572
PA-**RR-07,08**(0-6)-050613	N312001-**CV**	Railroad – composite soil	1.2067	2.4536
PA-**RR-07,08**(6-24)-050613	N312001-**BU**	Railroad – composite soil	1.2052	2.4545
PA-**RR14,15,16**(0-6)-050613	N312001-**BP**	Railroad – composite soil	1.1993	2.4530
PA-**RR14,15,16**(6-24)-050613	N312001-**CG**	Railroad – composite soil	1.2098	2.4598
PA-**122**-01(0-6)-050313	N312001-**14**	Res 1 soil	1.2210	2.4652
PA-**122**-02(0-6)-050313	N312001-**BE**	Res 1 soil	1.2133	2.4621
PA-**127**-01(6-21)-071613	N312001-**41**	Res 1 soil	1.2064	2.4525
PA-**180**-01(0-6)-050213	N312001-**CB**	Res 1 soil	1.2019	2.4537
PA-**183**-01(0-12)-050213	N312001-**BB**	Res 1 soil	1.2084	2.4587
PA-**186**-02(0-6)-050213	N312001-**DA**	Res 1 soil	1.2077	2.4618
PA-**191**-01(0-6)-050213	N312001-**DB**	Res 1 soil	1.2147	2.4623
PA-**193**-01(0-6)-050313	N312001-**13**	Res 1 soil	1.2071	2.4589
PA-**272**-01(0-6)-050113	N312001-**DD**	Res 1 soil	1.2085	2.4645
PA-**274**-01(0-6)-050113	N312001-**DE**	Res 1 soil	1.2072	2.4564
PA-**274**-02(0-6)-050113	N312001-**DF**	Res 1 soil	1.2005	2.4525
PA-**291**-03(0-12)-050113	N312001-**DH**	Res 1 soil	1.2244	2.4745
PA-**370**-01(0-6)-050713	N312001-**DL**	Res 1 soil	1.2023	2.4549
PA-**370**-02(0-6)-050713	N312001-**CJ**	Res 1 soil	1.2061	2.4604
PA-**375**-01(0-6)-050713	N312001-**DQ**	Res 1 soil	1.2077	2.4626
PA-**84**-01(0-6)-050813	N312001-**DX**	Res 2 soil	1.2245	2.4743
PA-**92**-01(0-6)-050813	N312001-**DU**	Res 2 soil	1.2181	2.4697
PA-**104**-01(0-6)-050213	N312001-**94**	Res 2 soil	1.2146	2.4659
PA-**104**-01(12-24)-071613	N312001-**AE**	Res 2 soil	1.2248	2.4750
PA-**105**-01(0-6)-050213	N312001-**93**	Res 2 soil	1.2069	2.4610
PA-**123**-01(0-12)-050313	N312001-**BD**	Res 1 soil	1.2185	2.4692
PA-**125**-01(0-6)-050313	N312001-**CC**	Res 2 soil	1.1993	2.4545
PA-**125**-02(0-6)-050313	N312001-**CX**	Res 2 soil	1.2137	2.4675
PA-**163**-01(0-6)-050113	N312001-**AZ**	Res 2 soil	1.2134	2.4636
PA-**304**-01(0-6)-050913	N312001-**DI**	Res 2 soil	1.2181	2.4654
PA-**349**-01(0-6)-050713	N312001-**DJ**	Res 2 soil	1.2129	2.4644
PA-**371**-02(0-6)-050713	N312001-**DP**	Res 2 soil	1.2210	2.4710
PA-**466**-01(0-6)-050913	N312001-**DT**	Res 2 soil	1.2059	2.4623

Table 4. Pb ISOTOPE RATIO RESULTS
Characterization of Lead in Soils
Pilsen Neighborhood, Chicago, Illinois

PA-**466**-02(0-6)-050913	N312001-**CE**	Res 2 soil	1.2155	2.4689
PA-**468**-01(0-6)-050913	N312001-**50**	Res 2 soil	1.2082	2.4578
PA-**464**-01(0-6)-050813	N312001-**CA**	Res 3 soil	1.2093	2.4638
PA-**464**-02(0-6)-050813	N312001-**DR**	Res 3 soil	1.1987	2.4548
PA-**465**-01(0-6)-050913	N312001-**BZ**	Res 3 soil	1.2205	2.4776
PA-**465**-01(0-6)-050913D	N312001-**DS**	Res 3 soil	1.2203	2.4778
PA-**469**-01(0-6)-051013	N312001-**CH**	Res 3 soil	1.2107	2.4650
PA-**469**-01(6-15)-071113	N312001-**86**	Res 3 soil	1.1798	2.4443
PA-**469**-05(0-6)-051013	N312001-**DW**	Res 3 soil	1.2061	2.4622
PA-**477**-01(0-6)-071013	N312001-**26**	Harrison Park area soil	1.2146	2.4652
PA-**480**-01(0-6)-071113	N312001-**99**	Harrison Park area soil	1.1966	2.4538
PA-**488**-01(0-6)-071513	N312001-**AC**	Harrison Park area soil	1.2243	2.4685
PA-**490**-01(0-6)-081213	N312001-**AH**	Little Italy area soil	1.2112	2.4638
PA-**493**-01(0-6)-081313	N312001-**AM**	Little Italy area soil	1.2135	2.4700
PA-**494**-01(0-6)-081313	N312001-**79**	Little Italy area soil	1.2161	2.4667
040001 (**1/03/11**)	N105006-12	TSP filter – Perez	1.1970	2.4473
040016 (**4/2/10**)	N105006-11	TSP filter – Perez	1.1968	2.4475
040041 (**8/30/10**)	N105006-13	TSP filter – Perez	1.1966	2.4476
040058 (**12/10/10**)	N105006-10	TSP filter – Perez	1.1987	2.4472

[a] Alley soil samples numbered from west to east (AC01 to AC10).
[b] Railroad soil samples numbered from north to south (RR01,02 to RR14,15,16).

ELEMENTAL ANALYSIS RESULTS

Results of elemental analysis by STAT Analysis Corp (EPA, 2014a and b) using ICP-MS are presented in **Table 5**. Elemental data reports from STAT Analysis Corp indicated that all quality control (QC) results were within acceptable limits established by EPA Method 6020, indicating the precision and accuracy of the analyses were within the ranges listed in Table 5 of EPA Method 6020 for solid matrices. Extraction and measurement bias was assumed to be consistent throughout the analysis of soil samples from all locations. In particular, residential soils were analyzed independent of the Res 1, Res 2, and Res 3 groupings because these subdivisions were only defined after the completion of the elemental analysis (Canar et al., 2014; EPA, 2014b). Conclusions made regarding the elemental data were based on elemental relationships in which individual sample measurement uncertainty was negligible. The strength of the elemental relationships observed and the associated statistical significance were indicated by the Spearman rank correlation coefficients (r_s) and p-values, respectively.

Table 5. ELEMENTAL ANALYSIS RESULTS[a]
Characterization of Lead in Soils
Pilsen Neighborhood, Chicago, Illinois

Field Sample ID	LIMS No.	Sampling Date	Sampling Area	Sample Description	Pb (mg/kg)	Sb (mg/kg)	Cd (mg/kg)	Cr (mg/kg)	Cu (mg/kg)	Sn (mg/kg)	Zn (mg/kg)
BH 1	N105006-05	3/17/2011	H. Kramer baghouse 1	Rotary furnace	51000	75.0	1500	44	12000	5800	600000
BH 2	N105006-06	3/17/2011	H. Kramer baghouse 2	Rotary furnace	42000	68.0	1100	90	12000	11000	550000
BH 4	N105006-08	3/17/2011	H. Kramer baghouse 4	Electric induction furnace	12000	180	510	92	62000	5800	400000
BH 4 duplicate	N105006-09	3/17/2011	H. Kramer baghouse 4	Electric induction furnace	13000	140	500	71	61000	5100	480000
BH 5	N105006-07	3/17/2011	H. Kramer baghouse 5	Rotary furnace	34000	49	700	<18	<4400	6300	650000
PA-AC01(0-6)-121912	N312001-CK	12/19/2012	Alley	Composite	2700	<25	10	1600	870	120	4800
PA-AC02(0-6)-121912	N312001-CM	12/19/2012	Alley	Composite	1900	<22.0	18	1700	1100	150	4400
PA-AC03(0-6)-121912	N312001-CO	12/19/2012	Alley	Composite	5600	290	42.0	260	8400	1100	8100
PA-AC03HS(0-6)-121912	N312001-DY	12/19/2012	Alley	Composite	2600	13	17	380	1500	190	4800
PA-AC04(0-6)-121912	N312001-CP	12/19/2012	Alley	Composite	5000	78	40	150	5400	600	14000
PA-AC05(0-6)-121912	N312001-EA	12/19/2012	Alley	Composite	3900	29	25	110	5700	480	13000
PA-AC06(0-6)-121912	N312001-CQ	12/19/2012	Alley	Composite	3000	130	18	53	1900	1600	5300
PA-AC07(0-6)-121912	N312001-01	12/19/2012	Alley	Composite	940	<24	9.3	24	2100	130	2600
PA-AC08(0-6)-121912	N312001-CR	12/19/2012	Alley	Composite	570	<21	4.5	17	660	65	1700
PA-AC09(0-6)-121912	N312001-02	12/19/2012	Alley	Composite	340	<19	2.1	11	580	37	750
PA-AC10(0-6)-121912	N312001-CS	12/19/2012	Alley	Composite	63	<19	<0.96	7	230	14	180
PA-RR01,02(0-6)-050613	N312001-BV	5/6/2013	Railroad	Composite	4000	19	16	64	9400	1300	26000
PA-RR04,06(0-6)-050613	N312001-BX	5/6/2013	Railroad	Composite	11000	18	140	56	11000	980	78000
PA-RR07,08(0-6)-050613	N312001-CV	5/6/2013	Railroad	Composite	6800	12	71	45	6500	540	46000
PA-RR10,12(0-6)-050613	N312001-BR	5/6/2013	Railroad	Composite	1800	14	17	53	1000	150	3800
PA-RR11,13(0-6)-050613	N312001-BQ	5/6/2013	Railroad	Composite	940	6.4	9.3	220	650	70	2200
PA-RR14,15,16(0-6)-050613	N312001-BP	5/6/2013	Railroad	Composite	1500	4.7	9.5	900	770	130	5800
PA-122-01(0-6)-050313	N312001-14	5/3/2013	Res 1	Back yard	1900	<2.3	6.7	36	540	57	3000
PA-127-01(0-6)-050313	N312001-CY	5/3/2013	Res 1	Back yard	2500	2.6	7.6	26	520	61	3200
PA-180-01(0-6)-050213	N312001-CB	5/2/2013	Res 1	Yard (east 1/2 vacant lot)	810	42	6.0	28	300	36	2300
PA-180-02(0-6)-050213	N312001-CF	5/2/2013	Res 1	Yard (west 1/2 vacant lot)	3000	<2.2	6.5	18	330	140	2800
PA-186-01(0-6)-050213	N312001-95	5/2/2013	Res 1	Front yard	360	<2.2	1.9	23	180	19	970
PA-186-02(0-6)-050213	N312001-DA	5/2/2013	Res 1	Back yard	320	<2.3	2.0	19	160	20	900
PA-191-01(0-6)-050213	N312001-DB	5/2/2013	Res 1	Back yard	2000	39	14	28	1100	120	7200
PA-193-01(0-6)-050313	N312001-13	5/3/2013	Res 1	Back yard	580	<2.3	2.3	30	210	19	1000
PA-272-01(0-6)-050113	N312001-DD	5/1/2013	Res 1	Back yard	2000	33	6.7	21	520	190	2500
PA-274-01(0-6)-050113	N312001-DE	5/1/2013	Res 1	Back yard	1900	3.6	12	55	1100	110	4900

Table 5. ELEMENTAL ANALYSIS RESULTS[a]
Characterization of Lead in Soils
Pilsen Neighborhood, Chicago, Illinois

Field Sample ID	LIMS No.	Sampling Date	Sampling Area	Sample Description	Pb (mg/kg)	Sb (mg/kg)	Cd (mg/kg)	Cr (mg/kg)	Cu (mg/kg)	Sn (mg/kg)	Zn (mg/kg)
PA-276-01(0-6)-050113	N312001-DG	5/1/2013	Res 1	Back yard	2400	13	17	49	1600	200	6300
PA-291-01(0-6)-050113	N312001-92	5/1/2013	Res 1	Front yard	500	<2.4	3.1	24	100	39	620
PA-370-01(0-6)-050713	N312001-DL	5/7/2013	Res 1	Back yard	700	<4.6	6.9	44	150	28	1600
PA-375-01(0-6)-050713	N312001-DQ	5/7/2013	Res 1	Back yard	1800	<4.9	11	40	680	84	2900
PA-84-01(0-6)-050813	N312001-DX	5/8/2013	Res 2	Front yard	600	<4.5	2.0	19	56	30	470
PA-84-02(0-6)-050813	N312001-47	5/8/2013	Res 2	Back yard	1100	<4.5	4.5	31	110	26	880
PA-92-01(0-6)-050813	N312001-DU	5/8/2013	Res 2	Back yard	880	<4.5	4.9	25	170	140	1300
PA-104-01(0-6)-050213	N312001-94	5/2/2013	Res 2	Front yard	930	2.3	6.0	24	190	34	1500
PA-104-02(0-6)-050213	N312001-CW	5/2/2013	Res 2	Back yard	1400	2.8	7.6	33	340	53	2400
PA-105-01(0-6)-050213	N312001-93	5/2/2013	Res 2	Front yard	640	<2.2	2.1	23	99	30	930
PA-105-02(0-6)-050213	N312001-12	5/2/2013	Res 2	Back yard	990	<2.3	2.6	28	240	21	1100
PA-125-01(0-6)-050313	N312001-CC	5/3/2013	Res 2	Yard (west 1/2 lot)	1500	4.7	10	61	410	63	2900
PA-125-02(0-6)-050313	N312001-CX	5/3/2013	Res 2	Yard (east 1/2 lot)	1100	3.1	7.4	51	280	50	2200
PA-14-01(0-6)-050913	N312001-51	5/9/2013	Res 2	Back yard	140	<4.7	<1.2	18	55	13	220
PA-14-02(0-6)-050913	N312001-CZ	5/9/2013	Res 2	Front yard	480	<5.9	<1.5	24	96	<15	520
PA-141-01(0-6)-050713	N312001-CD	5/7/2013	Res 2	Yard (west 1/2 lot)	860	<4.7	3.3	33	200	39	700
PA-141-02(0-6)-050713	N312001-CI	5/7/2013	Res 2	Yard (east 1/2 lot)	1600	<4.6	3.5	40	190	26	970
PA-304-01(0-6)-050913	N312001-DI	5/9/2013	Res 2	Back yard	58	<4.2	<1.0	13	27	<10	130
PA-349-01(0-6)-050713	N312001-DJ	5/7/2013	Res 2	Front yard	890	<5	5.4	29	250	28	1800
PA-349-03(0-6)-050713	N312001-46	5/7/2013	Res 2	Back yard	1400	<4.2	2.5	27	99	19	930
PA-369-01(0-2)-050713	N312001-45	5/7/2013	Res 2	Back yard	480	<4.8	<1.2	<24	100	<12	560
PA-369-01(0-6)-050713	N312001-DK	5/7/2013	Res 2	Back yard	1500	<5.3	7.5	43	440	52	1700
PA-369-03,04(0-6)-050713	N312001-91	5/7/2013	Res 2	Front yard	2300	<4.6	5.8	24	410	49	2700
PA-371-01(0-6)-050713	N312001-DO	5/7/2013	Res 2	Back yard	1800	<5.1	7.7	40	450	49	2800
PA-371-02(0-6)-050713	N312001-DP	5/7/2013	Res 2	Front yard	320	<5.3	<1.3	14	54	<13	360
PA-466-01(0-6)-050913	N312001-DT	5/9/2013	Res 2	Yard (east 1/2 lot)	730	<4.5	3.4	23	210	25	900
PA-466-02(0-6)-050913	N312001-CE	5/9/2013	Res 2	Yard (west 1/2 lot)	650	<4.3	2.8	47	120	23	780
PA-467-01(0-6)-050913	N312001-49	5/8/2013	Res 2	Back yard	1400	5.2	7.0	55	250	34	1600
PA-468-01(0-6)-050913	N312001-50	5/8/2013	Res 2	Back yard	1300	5.2	5.9	36	290	30	1600
PA-470-01(0-6)-070913	N312001-15	7/9/2013	Res 2	Back yard	3200	<5.2	12	39	430	120	3500
PA-483-01(0-6)-071213	N312001-29	7/12/2013	Res 2	Back yard	200	<4.1	1.2	17	35	<10	180
PA-464-01(0-6)-050813	N312001-CA	5/8/2013	Res 3	Yard (east 1/2 lot)	910	8.6	3.2	21	170	36	750
PA-464-02(0-6)-050813	N312001-DR	5/8/2013	Res 3	Yard (west 1/2 lot)	240	<4.3	1.9	22	74	15	260
PA-465-01(0-6)-050913	N312001-BZ	5/9/2013	Res 3	Yard	370	<4.7	1.7	46	84	17	300

Table 5. ELEMENTAL ANALYSIS RESULTS[a]
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Pilsen Neighborhood, Chicago, Illinois

Field Sample ID	LIMS No.	Sampling Date	Sampling Area	Sample Description	Pb (mg/kg)	Sb (mg/kg)	Cd (mg/kg)	Cr (mg/kg)	Cu (mg/kg)	Sn (mg/kg)	Zn (mg/kg)
PA-469-01(0-6)-051013	N312001-CH	5/10/2013	Res 3	Field - NW quadrant	130	<4.5	<1.1	35	56	14	180
PA-469-02(0-6)-051013	N312001-83	5/10/2013	Res 3	Field - NE quadrant	100	<4.6	<1.1	17	44	13	170
PA-469-03(0-6)-051013	N312001-88	5/10/2013	Res 3	Field - SW Quadrant	120	<4.9	<1.2	19	50	17	160
PA-469-04(0-6)-051013	N312001-87	5/10/2013	Res 3	Field - SE quadrant	110	<4.8	<1.2	34	59	12	190
PA-482-01(0-6)-071113	N312001-AA	7/11/2013	Res 3	Front yard	210	<4.5	3.7	24	66	13	380
PA-495-01(0-6)-081313	N312001-55	8/13/2013	Res 3	Back yard	930	<3.8	2.6	25	56	16	430
PA-496-01(0-6)-081313	N312001-57	8/13/2013	Res 3	Back yard	230	<4.4	2.8	19	64	11	380
PA-497-01(0-6)-081313	N312001-58	8/13/2013	Res 3	Back yard	460	<4.4	2.2	18	53	15	350
PA-498-01(0-6)-081313	N312001-59	8/13/2013	Res 3	Back yard	270	<3.9	1.5	16	38	<9.7	200
PA-499-01(0-6)-081413	N312001-AP	8/14/2013	Res 3	Front yard	1200	<4.5	2.5	14	86	26	500
PA-504-01(0-6)-081513	N312001-AT	8/15/2013	Res 3	Front yard	390	<4.8	1.8	21	41	26	240
PA-505-01(0-6)-081513	N312001-66	8/15/2013	Res 3	Back yard	1300	<5.3	5.5	53	170	33	1300
PA-506-01(0-6)-081513	N312001-68	8/15/2013	Res 3	Back yard	940	<4.6	4.1	28	94	17	780
PA-508-01(0-6)-081513	N312001-70	8/15/2013	Res 3	Back yard	580	<4.4	2.7	26	52	<11	400
PA-509-01(0-6)-081513	N312001-72	8/15/2013	Res 3	Back yard	1400	<5.0	4.7	40	120	53	830
PA-510-01(0-6)-081513	N312001-AU	8/15/2013	Res 3	Front yard	1700	<4.3	4.1	28	100	25	790
PA-514-01(0-6)-081613	N312001-73	8/16/2013	Res 3	Back yard	410	<4.3	2.1	23	59	<11	370
PA-515-01(0-6)-081613	N312001-75	8/16/2013	Res 3	Back yard	1600	9.2	7.4	22	140	29	1100
PA-471-01(0-6)-070913	N312001-16	7/9/2013	Harrison Park	Back yard	1900	<5.4	7.2	46	230	40	2000
PA-472-01(0-6)-070913	N312001-17	7/9/2013	Harrison Park	Back yard	940	<4.6	5.6	45	130	52	1100
PA-473-01(0-6)-070913	N312001-19	7/9/2013	Harrison Park	Back yard	1700	<5.2	9.1	87	160	43	970
PA-474-01(0-6)-071013	N312001-22	7/10/2013	Harrison Park	Back yard	2600	<5.1	3.5	34	130	180	870
PA-474-02(0-6)-071013	N312001-97	7/10/2013	Harrison Park	Front yard	2200	<4.9	3.1	26	95	24	740
PA-475-01(0-6)-071013	N312001-24	7/10/2013	Harrison Park	Back yard	3700	<5.0	6.6	53	160	55	1700
PA-476-01(0-6)-071013	N312001-25	7/10/2013	Harrison Park	Back yard	2000	<5.0	8.5	34	170	32	1800
PA-477-01(0-6)-071013	N312001-26	7/10/2013	Harrison Park	Back yard	1700	<5.1	4.1	42	98	26	720
PA-478-01(0-6)-071013	N312001-AN	7/10/2013	Harrison Park	Front & back composite	1400	<4.3	17	220	230	42	1400
PA-479-01(0-6)-071113	N312001-98	7/11/2013	Harrison Park	Front yard	1200	<4.3	5.3	53	140	33	970
PA-480-01(0-6)-071113	N312001-99	7/11/2013	Harrison Park	Front yard	3200	<4.8	4.9	58	180	37	1300
PA-481-01(0-6)-071113	N312001-28	7/11/2013	Harrison Park	Back yard	1600	<4.5	5.4	30	120	36	1300
PA-484-01(0-6)-071213	N312001-31	7/12/2013	Harrison Park	Back yard	1700	5.4	75	770	740	110	2300
PA-485-01(0-6)-071213	N312001-33	7/12/2013	Harrison Park	Back yard	510	<4.8	1.8	21	100	<12	390
PA-486-01(0-6)-071213	N312001-34	7/12/2013	Harrison Park	Back yard	880	<4.7	4.4	32	130	26	840

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Characterization of Lead in Soils
Pilsen Neighborhood, Chicago, Illinois

Field Sample ID	LIMS No.	Sampling Date	Sampling Area	Sample Description	Pb (mg/kg)	Sb (mg/kg)	Cd (mg/kg)	Cr (mg/kg)	Cu (mg/kg)	Sn (mg/kg)	Zn (mg/kg)
PA-487-01(0-6)-071513	N312001-37	7/15/2013	Harrison Park	Back yard	1400	<5.0	3.1	<25	140	65	600
PA-488-01(0-6)-071513	N312001-AC	7/15/2013	Harrison Park	Front yard	410	<4.7	1.7	<24	56	17	390
PA-502-01(0-6)-081413	N312001-64	8/14/2013	Harrison Park	Back yard	780	<4.8	7.3	60	300	20	610
PA-503-01(0-6)-081413	N312001-AR	8/14/2013	Harrison Park	Front yard	1400	<4.7	6.1	25	130	21	830
PA-507-01(0-6)-081513	N312001-69	8/15/2013	Harrison Park	Back yard	270	<4.0	3.2	15	48	<9.9	280
PA-516-01(0-6)-081613	N312001-76	8/16/2013	Harrison Park	Back yard	520	<4.8	5.3	32	70	<12	500
PA-490-01(0-6)-081213	N312001-AH	8/12/2013	Little Italy	Front yard	220	<4.4	1.6	19	33	<11	150
PA-491-01(0-6)-081213	N312001-AI	8/12/2013	Little Italy	Front yard	260	<4.8	1.8	21	68	16	270
PA-492-01(0-6)-081313	N312001-AL	8/13/2013	Little Italy	Front yard	260	<4.4	2.7	24	66	13	210
PA-493-01(0-6)-081313	N312001-AM	8/13/2013	Little Italy	Front yard	190	<4.3	1.8	16	45	<11	170
PA-494-01(0-6)-081313	N312001-79	8/13/2013	Little Italy	Back yard common area	120	<4.6	2.0	33	46	<12	170
PA-500-01(0-6)-081413	N312001-62	8/14/2013	Little Italy	Back yard	760	<4.4	3.4	26	72	27	620
PA-501-01(0-6)-081413	N312001-AQ	8/14/2013	Little Italy	Front yard	66.0	<5.2	1.4	22	28	<13	150
PA-511-01(0-6)-081613	N312001-AV	8/16/2013	Little Italy	Front yard	210	<4.4	1.7	21	40	<11	170
PA-512-01(0-6)-081613	N312001-AW	8/16/2013	Little Italy	Front yard	320	<4.7	1.7	19	37	<12	230
PA-513-01(0-6)-081613	N312001-AX	8/16/2013	Little Italy	Front yard	170	4.2	1.4	31	45	<10	200
H. Kramer slag data – lower range[b]	n.a.[c]	n.a.[c]	H. Kramer	Slag	10000[b]	n.a.[c]	n.a.[c]	n.a.[c]	150000[b]	2500[b]	17500[b]
H. Kramer slag data – upper range[b]	n.a.[c]	n.a.[c]	H. Kramer	Slag	20000[b]	n.a.[c]	n.a.[c]	n.a.[c]	180000[b]	10000[b]	25000[b]
H. Kramer slag data – typical[b]	n.a.[c]	n.a.[c]	H. Kramer	Slag	12000[b]	n.a.[c]	n.a.[c]	n.a.[c]	160000[b]	4000[b]	20000[b]

[a] Metals data for unsieved soil samples from STAT Analysis Corp by SW 846 6020 ICP-MS (EPA, 2014a and b).
[b] Data of slag material composition provided by H. Kramer (2014a), representing a typical average and range of values.
[c] n.a. = not applicable/available.