Remedial Investigation
Residential Yard Soil

Omaha Lead Site
Omaha, Nebraska

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USEPA Region VII

Prepared by:
Black & Veatch Special Projects Corp.

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Acronyms and Abbreviations

ACS	American Community Survey
BVSPC	Black & Veatch Special Projects Corp.
CDC	U.S. Centers for Disease Control
CERCLA	Comprehensive Environmental Response Compensation and Liability Act
CERCLIS	Comprehensive Environmental Response Compensation and Liability Information System
COC	Chain of Custody
DCHD	Douglas County Health Department
dl	deciliter
EBL	Elevated Blood Lead
EPA	Environmental Protection Agency
FS	Feasibility Study
ft^2	square feet
g	gram
kg	kilogram
L	liter
MCL	Maximum Contaminant Level
mg	milligram
NDEQ	Nebraska Department of Environmental Quality
NERL	National Exposure Research Laboratory
NHHS	Nebraska Health and Human Services System
PA/SI	Preliminary Assessment/Site Inspection
ppm	parts per million
PRP	Potentially Responsible Party
QAPP	Quality Assurance Project Plan
RAPMA	State of Nebraska Remedial Action Plan Monitoring Act
RI	Remedial Investigation
SCS	Soil Conservation Service
UNO	University of Nebraska, Omaha
UTL	Upper Tolerance Limit
XRF	X-ray fluorescence

Executive Summary

The U.S. Environmental Protection Agency (EPA) has initiated remedial investigation (RI) efforts for the Omaha Lead site in Omaha, Nebraska (CERCLIS ID NESFN0703481). The RI process is the methodology that the Superfund program has established for investigating the risks posed by uncontrolled waste sites. The RI efforts were performed for EPA by Black & Veatch Special Projects Corp. (BVSPC) under EPA Work Assignment No. 070-RICO-07ZY.

The ASARCO lead facility, which was in operation from 1871 until 1997, was located at 500 Douglas Street in downtown Omaha on an approximately 23-acre site on the west bank of the Missouri River. The land where this ASARCO facility operated was owned by Union Pacific Railroad Company from the 1860s until it was sold to ASARCO in 1946. The ASARCO facility processed lead bullion containing recoverable amounts of gold, silver, antimony, and bismuth using the traditional pyro-metallurgical process. This process consists of adding metallic and nonmetallic compounds to molten lead, separation of the lead from the other metals, and removing impurities. While the ASARCO plant was in operation, lead and other metals were emitted to the atmosphere through smokestacks and these contaminants were transported downwind to be deposited on the ground surface by the combined action of turbulent diffusion and gravitational settling. The ASARCO facility was closed in 1997 and the property is now owned by the City of Omaha and being reutilized for commercial and public purposes.

Aaron Ferer and Sons Co. constructed a secondary lead smelter and a lead recycling facility in the early 1950s at 555 Farnam Street in Omaha. Aaron Ferer operated this facility until 1963 when the facility was sold to a predecessor of Gould Electronics, Inc. (Gould). Gould operated the facility until it was closed in 1982. While this facility was in operation lead was emitted into the atmosphere through a stack and transported downwind to be deposited on the ground surface by the combined action of turbulent diffusion and gravitational settling. Gould sold the property to Douglas County in the early 1980s. Douglas County performed a clean up at the property and it is now a county park. Several other businesses in the Omaha area utilized lead in their manufacturing processes. In 1998, the Omaha City Council solicited assistance from the EPA in addressing the problems with lead contamination in the area and the EPA initiated an investigation into the lead contamination under the authority of the Comprehensive Environmental Response Compensation and Liability Act (CERCLA), 42 U.S.C. § 9600 et seq., also known as the Superfund law.

As part of the investigation of the site, between March 1999 and January 2004, surface soil samples were collected and analyzed from 15,012 residential and child care properties within the Omaha Lead site and analyzed for total lead.

Of the 15,012 properties investigated, 5,172 yielded at least one mid-yard soil sample with a total lead concentration above EPA's site screening level of 400 ppm. This represents a rate exceeding 400 ppm of 34 percent. It should be noted that the exceedance rate increases to approximately 40 percent when only the results from the focus area are considered.

Previous investigations have disclosed that lead contamination on the site resulted from air deposition originating at industrial properties in downtown Omaha, including the former ASARCO and Gould facilities.

An investigation of lead concentrations in subsurface soil indicates that the lead has not migrated beyond the top 2-12 inches of soil. Conditions within the soil are not conducive to further migration.

Additional efforts should include widespread sampling of residential properties located at the site. Sampling to date has revealed elevated lead concentrations in the surface soils surrounding a large number of homes throughout the site. Additional sampling and analysis of soil from individual properties on the site is needed to determine the full extent of the contamination.

1.0 Introduction

This section includes a description of the Omaha Lead site and a review of the findings of previous investigations of site conditions. These previous investigations determined that lead contamination of surface water and groundwater from the identified industrial sources at the site would pose no threat of contamination to residents. The contaminants of concern are metal contaminates in site soils from airborne deposition. This investigation focused on soils sampling at child care and residential properties.

1.1 Purpose of Report

The U.S. Environmental Protection Agency (EPA) has initiated a remedial investigation (RI) of the Omaha Lead site in Omaha, Nebraska (CERCLIS Identification NESFN0703481). The RI is the methodology that the Superfund program has established for investigating the risks posed by uncontrolled hazardous waste sites. The RI of the Omaha Lead site was conducted for EPA by Black & Veatch Special Projects Corp. (BVSPC) under EPA Work Assignment No.07-RICO-07ZY.

Prior investigations, which are discussed later, demonstrated that the sources of lead contamination being addressed by this site did not adversely affect the surface water or groundwater exposure pathways for residents at this site. Therefore, this investigation focused on the soil contamination pathway. There were two main objectives for the RI. First, data was collected to develop a risk assessment for metal contaminants and to calculate a site specific clean-up level for these metal contaminants. Media evaluated for the risk assessment included surface soil, interior dust, and resident blood samples. The second objective was to collect data to attempt to define the extent of contamination. Approximately 15,000 residential properties within the site were sampled in order to provide the data necessary to complete these objectives. The scope of the RI/FS activities included:

- Sampled surface soil (maximum depth 2 inches) from approximately 15,012 residential yards in the area of investigation.
- Sampled subsurface soil (maximum depth 24 inches) from approximately 550 residential yards in the area of investigation.
- Sampled 159 randomly selected residential properties for interior dust.
- Conducted a demographic survey.
- Reviewed data for child (0-6 years of age) resident blood levels.
- Conducted bioavailability analyses on residential soil samples.
- Lead Attribution analysis

- Performed analyses on the origin of other metals

1.2 Site Background

1.2.1 Site Description

The site is occupied by numerous child care facilities, residences, and residential properties which have been contaminated as a result of air emissions from lead smelting and industrial operations (Ref. 1, p. 1). The ASARCO facility, which operated as a lead smelter/refinery, from the 1870s to 1997, was located at 500 Douglas Street at the intersection of I-480 and Abbott Drive in the eastern portion of Omaha, Nebraska or more specifically, at 41° 15' 64" north latitude and 95° 55' 47" west longitude (Ref. 1 pp. 1, 2; 2 and 3). The ASARCO property was cleaned up under the State of Nebraska Remedial Action Plan Monitoring Act (RAPMA) program. The former Gould facility, located at 555 Farnam Street, operated as a secondary lead smelter, was cleaned up and is now a county park. In addition, lead-based paint and leaded fuel emissions, which would be expected to be found in urban areas such as Omaha, may have contributed to the soil contamination. Land use within a 4-mile radius of the site area is residential, commercial, and industrial (Ref. 5, p. 1-1).

1.2.2 Site History

The ASARCO facility, which was in operation from 1871 until 1997, was located in downtown Omaha on an approximately 23-acre site on the west bank of the Missouri River (Ref. 1, p.1). The land where the ASARCO plant operated was owned by Union Pacific Railroad from the 1860s until it was sold to ASARCO in 1946. It processed lead bullion containing recoverable amounts of gold, silver, antimony, and bismuth using the traditional pyrometallurgical process, which consists of adding metallic and non-metallic compounds to molten lead, separation of the lead from the other metals, and removing impurities. The products of this process included refined lead and specialty metal by-products such as antimony-rich lead, bismuth, dore (silver-rich material), and antimony oxide (Ref. 5, pp. 1-3, 1-4). The fully refined lead, with all other metals and impurities removed, was formed into 100 pound castings or 1-ton blocks, which were then shipped to industries which used lead in manufacturing (Ref. 5, p. 1-4). While the ASARCO plant was in operation, lead and other metals were emitted into the atmosphere through smoke stacks and were transported downwind to be deposited on the ground surface by the combined action of turbulent diffusion and gravitational settling (Ref. 6, p. 1). The facility was closed in 1997 and the

property was transferred to the City of Omaha after clean up. The City now uses the property for commercial and public purposes..

Aaron Ferer and Sons Co. constructed a secondary lead smelter and a lead recycling facility in the early 1950s at 555 Farnam Street in Omaha, NE. Aaron Ferer operated this facility until 1963 when the facility was purchased by Gould Electronics, Inc. (Gould). Gould operated the facility until it was closed in 1982 (Ref. 7). While this facility was in operation lead was emitted into the atmosphere through a stack and transported downwind to be deposited on the ground surface by the combined action of turbulent diffusion and gravitational settling. The property where the Gould facility was located was sold after the facility closed to Douglas County. Douglas County performed a clean up at the property and it is now a county park. Several other businesses in the Omaha area utilized lead in their manufacturing processes. In 1998, the Omaha City Council solicited assistance from the EPA in addressing the problems with lead contamination in the area and the EPA initiated an investigation into the lead contamination under the authority of CERCLA (Ref. 7).

1.2.3 Miscellaneous Previous Investigations

In March 1995, Hydrometrics, Inc., prepared a report on the Phase I Detailed Site Assessment for Groundwater at the ASARCO facility on behalf of ASARCO (Ref. 5) which was conducted in accordance with the Detailed Site Assessment Work Plan for Groundwater.

Seven monitoring wells were installed and soil samples were collected using standard split spoons. Soil samples were sent to a laboratory for X-ray fluorescence spectrographic (XRF) analysis. Arsenic, lead, antimony, copper and zinc were detected in the samples. Concentrations of these metals exceeded 1,000 mg/kg. In the groundwater samples arsenic had the highest dissolved (filtered) metal concentrations, and with the exception of well MW-6D, arsenic concentrations in all monitoring wells exceeded the EPA Maximum Contaminant Level (MCL) for drinking water of 0.05 mg/l. The results of this investigation indicated that additional information is needed to adequately characterize the facility for remedial action (Ref. 5, p. 5-2).

In November 1995, Parametrix, Inc., prepared a report on behalf of ASARCO, titled Ecological Risks Associated with Releases of ASARCO Omaha Refinery Groundwater into the Missouri River (Ref. 8), which concluded that groundwater from the ASARCO facility contained concentrations of cadmium, copper, iron, lead, manganese, zinc, antimony, and arsenic. The report evaluated the potential risk of chronic toxicity to aquatic life based on the concentrations of metals and metalloids in the Missouri River water. Results of this evaluation indicated that groundwater infiltration posed no significant risks to the Missouri

River aquatic life, and that recommendations regarding groundwater cleanup were unnecessary (Ref. 8, pp. 1, 11).

In November 1995, Hydrometrics, Inc., conducted a Soil and Groundwater Characterization investigation and prepared a report for the ASARCO Omaha plant site on behalf of ASARCO. The investigation consisted of collection of stratigraphic samples from 30 monitoring wells and 32 test holes, the installation of 30 monitoring wells, and aquifer testing using pumping and non-pumping methods. Surface water samples were collected from five stations to assess the potential impacts from groundwater on the Missouri River. All data collected during the 1995 Phase I Detailed Site Assessment of Groundwater report and the 1995 Phase II Groundwater Detailed Site Assessment report are summarized in the report for ASARCO. Soil testing results indicated that of all stratigraphic types, shallow fill had contained the highest concentrations of arsenic and metals, and that some fill and shallow alluvial soils may contribute metals to the groundwater, because they were found to be saturated. Arsenic concentrations exceeded the MCL in 29 of the 32 monitoring wells, while lead and cadmium concentrations exceeded MCLs at some locations. Only slight increases in dissolved lead concentrations were observed at two surface water stations. The data presented in this report allowed the evaluation and development of selected remedial activities (Ref. 9, pp. 1-1, 5-7).

In January 1997, ASARCO and Nebraska Department of Environmental Quality (NDEQ) entered into a Consent Order. ASARCO agreed to completely and permanently terminate all pyrometallurgical processing and smelting of lead materials at the plant by July 1, 1997, and thereafter agreed to employ all reasonable means to limit emissions (Ref. 10).

In February 1997, Kleinfelder, Inc., prepared a Risk Evaluation Closure Activities report for the NDEQ, which stated that after the closure of the ASARCO plant, the site would be remediated, and subsequently the property will be developed as a park. The report evaluated the potential health effects during the operational period and the plant closure activities, demolition, select material cleanup, site regrading, construction of an engineered cap, provision for site utility corridors, stormwater controls, shoreline designs, institutional controls, and long term monitoring. This evaluation focused on human exposure to chemicals in soil at the ASARCO plant during remediation. According to previous evaluations exposure to groundwater and ecological receptors in the Missouri River was not found (Ref. 11, pp. i, 1-1). The results of this evaluation indicated that risks could be effectively managed during and after redevelopment of the site as a park (Ref. 11, p. 6-2).

In 1997, the Centers for Disease Control (CDC) issued a recommendation for local governments to analyze data pertinent to lead poisoning and to issue targeted screening

guidelines that reflect the lead risk at the local level. In November 1998, the Douglas County Health Department (DCHD) published the results of an early childhood blood screening study which reportedly indicated that lead concentrations in the blood samples tested exceeded the national average. (Ref. 38).

From July 1, 1997, to June 30, 1998, the DCHD Childhood Lead Poisoning Prevention Program screened 2,843 children for blood lead levels. The screening results indicated that 596 children had blood lead levels of 10 micrograms per deciliter (µg/dl) or higher (Ref. 12, p. 1).

In October 1998, the National Exposure Research Laboratory (NERL) issued an internal memorandum that served as documentation of initial contour plots of relative annual wet and dry deposition rates from the 180 foot black stack at the ASARCO facility. The contour plots are relative to historical deposition and indicate annual variability. EPA recommended that deposition rates from the 310 foot stack at ASARCO, which had been demolished, should also be evaluated (Ref. 13, p. 1).

On September 7, 1999, the Idaho National Environmental and Engineering Laboratory submitted a report titled Dispersion Modeling of Atmospheric Deposition Patterns around the ASARCO Omaha Lead Refinery to the EPA (Ref. 6). The air deposition modeling on the smokestack at the former ASARCO Refinery was performed in an attempt to focus soil testing to areas where contamination was likely to be greatest, but because important site-specific information such as stack exit velocity, exit temperature and particulate distribution was not available, the results of the modeling could not be used to predict lead concentrations in soil. However, the modeling did indicate that the highest concentrations of lead were likely to be found along the direction of prevailing winds. This information was used to select the direction of the sampling corridors (Ref. 6).

In January 2000, Jacobs Engineering prepared the Omaha Lead Site Investigation Background Summary Report on behalf of EPA (Ref. 14). Thirty background soil samples were collected approximately 8 miles north of the former ASARCO facility to determine the presence or absence of elevated concentrations of metals. The background samples were collected from a physical and environmental setting similar to the setting in the Omaha metropolitan area. The samples were tested using the upper tolerance limit (UTL) methodology, which is based on the EPA guidance for statistical analysis of background samples. The test results revealed that the background lead concentration in the soil was 26 ppm (Ref. 14). These background samples were outside the affect of lead-based paint and leaded fuel emissions, which can be found in urban areas such as Omaha.

On August 2, 2000, ASARCO submitted a letter describing the findings of a report prepared by the EnviroGroup Limited. Intensive lead paint and soil testing was conducted at 1819 Wirt Street in Omaha, the location of a child care facility identified by EPA for emergency soil removal. The report concluded that chips of lead paint might be responsible for the elevated lead concentrations in soil beyond the dripline of this facility (Ref. 18, pp. 1, 2).

In December 2001, the U.S. Geological Survey (USGS) published a report titled Toxicity and Bioavailability of Metals in the Missouri River Adjacent to a Metal Refinery. The report was prepared for EPA by USGS to determine the concentration, bioavailability and toxicity of metals entering the Missouri River from the groundwater at the ASARCO facility. The study sampled surface water, sediment, and sediment pore water from six different locations around the facility. A groundwater monitoring well at the facility was also sampled. The results indicated that the groundwater from the onsite monitoring well was highly toxic, but metals of toxicological concern were not highly elevated in sediments, sediment pore waters or river waters. The dilution factor of the Missouri River is immense, and apparently sediment does not linger long at the site before passing on downstream. Water quality variables for the surface and sediment pore water were within acceptable limits for *Ceriodaphnia dubia* (macroinvertibrate) growth and reproduction (Ref. 19).

1.2.4 Removal Actions

On August 2, 1999, EPA executed an Action Memorandum describing the time-critical removal action initiated at the Omaha Lead site, and requested exemption from the 12 month and $2 million limits (Ref. 7). This action memorandum was amended in August 2001 (Ref. 7). The removal action encompassed the eastern portions of Omaha, Nebraska and Council Bluffs, Iowa. Child care facilities and residences occupied by children with blood lead concentrations of 10 micrograms per deciliter (ug/dl) or higher (EBL) were included in the amended removal action if the soil on the property contained lead at concentrations equal to or greater than 400 milligrams per kilogram (mg/kg). The objective of the removal action was to eliminate or reduce ingestion exposure due to the presence of lead in soil (Ref. 7).

A second Action Memorandum was executed by EPA on August 22, 2002, describing a time-critical removal action to address highly contaminated residential properties at the Omaha Lead site and requesting the exemption from the 12 month and $2 million limits (Ref. 7). This action memorandum was amended in November 2003 (Ref. 7). The removal action encompassed eastern Omaha, Nebraska, Council Bluffs and Carter Lake, Iowa and properties with soil concentrations equal to or greater than 1,200 mg/kg were included in the

amended removal action. Again the objective was to eliminate or reduce ingestion exposure due to the presence of lead in soil. On March 25, 2004, the EPA amended this action memorandum again to combine the two removal actions and allow them to be funded as a single response action (Ref. 7). The EPA is now implementing one action memorandum to address childcare facilities and EBLs with soil lead concentrations greater than 400 mg/kg and residential properties with soil lead concentrations equal to or greater than 1,200 mg/kg.

1.2.5 Preliminary Assessment/Site Inspection

In August 2001, BVSPC submitted a Preliminary Assessment/Site Inspection (PA/SI) Report to EPA (Ref. 39), which included all data collected for EPA by Jacobs Engineering prior to July 2000 and data collected for EPA by BVSPC from July 2000 through April 2001. Based on the hazardous characteristics of lead, EPA determined that child care facilities and properties where children with EBLs live should be evaluated for possible removal action. In addition to testing child care facilities and EBL properties, EPA tested other residential properties in an effort to identify the extent of lead contamination from the industrial emission sources in downtown Omaha. Sampling corridors were drawn leading from downtown Omaha in north, south, east and west. Approximately eight properties were tested every tenth of a mile within each of these corridors until lead concentrations were consistently found to be below 400 parts per million. EPA designed its testing protocol to identify geographic trends in soil lead contamination in the Omaha area. The soil testing methodology was the same as used in the RI sampling described in Section 2.1. An average of 5 soil samples were collected from each property, four samples were collected within the property boundaries but away from the house foundation to minimize the influence of lead based paint on the soil lead concentration, and the fifth sample within 3 feet of the house foundation. The sample within 3 feet of the house may reflect the effect pealing paint might have on the soil lead concentrations.

During the SI for the Omaha Lead site, subsurface samples were collected at approximately 550 properties where surface samples were collected at the same location. The subsurface samples were collected from the 0-8 inch, 8-16 inch, and 16-24 inch ranges. The number of samples in which lead was detected decreased at each downward depth interval. The average, maximum, and median lead concentrations also decreased as depth increased, indicating little to no migration downward from surface soils. The results of the subsurface sampling are found in Table 5-1. The results indicate that, in general, if the surface soil lead concentrations are low there is no reason to believe that the concentrations

would increase with depth. This is consistent with airborne deposition of lead contamination. These results lead EPA to discontinue depth sampling at the end of the SI.

The PA/SI report recommended further investigation of lead concentrations in surface soils at the Omaha Lead site. However, EPA decided that further investigation of subsurface soil was not warranted based on the results of depth samples.

Also as part of the PA/SI, laboratory analysis was performed on 10 percent of the soil samples to determine the presence of other toxic metals in addition to lead (approximately 1125 samples). Additional soil volume was collected from each sample. After preparation of the portion of the sample for XRF analysis, the extra volume was sent to the PDP Laboratories for analysis. The results of this analysis show that eight other metals (besides lead) were identified as chemicals of potential concern, including aluminum, antimony, arsenic, barium, cadmium, iron, manganese and thallium. The risks associated with these other metals are discussed in the risk assessment.

1.2.6 ATSDR Health Consultations

The US Department of Health and Human Services, Public Health Service, Agency for Toxic Substances and Disease Registry (ATSDR) conducted two health consultations on request for the Omaha Lead Site. The first consultation conducted in March 2000 discussed the risks involved overall with the Omaha Lead Site. This consultation concluded that remediation of soils would most likely result in reduced blood lead levels in the exposed population. Blood lead levels should continue to be monitored for children in areas where soil concentrations are found to exceed the established cleanup level.

The second consultation conducted by the ATSDR in 2004 focused upon the soil remediation plan proposed which would involve soil excavation in the contaminated areas. This report concluded that the proposed excavation plan would be protective of public health. An educational program should also be established which would provide information to residents on the ways to deal with the installation of new gardens and lawns. Both of these ATSDR health consultations appear in Appendix E of this report.

1.2.7 Douglas County Health Department

The Douglas County Health Department's (DCHD) Childhood Lead Poisoning Prevention Program has evaluated the impacts to children exposed to lead contamination by collecting blood lead data in 11 DCHD target zip code areas (which include the Omaha Lead Superfund Site) in the eastern part of Omaha. From 1992-1998 the percentage of children with elevated blood lead levels, blood lead levels greater than or equal to 10 ug/dL (EBLs),

ranged from 29% - 42% in this part of the city. Year 2000 statistics for Douglas County (in general) indicate that 1 in 18 children tested had EBLs compared to the rest of the State where the rate is 1 in 38 children tested. Year 2002 blood lead screening results for Douglas County indicate that 437 children of 9,521 tested had EBLs. Four hundred ten of the 437 EBL children reside on the site. Overall, the percentage of children with elevated blood leads (EBLs) ranged from 5.6% to 11.8% in the DCHD target areas. In 2003, of 9,598 children that were tested in the county, 339 had blood lead levels at 10 ug/dL or greater. Three hundred three of these 339 EBL children reside on the site. Percent elevated blood leads in 2003 ranged from 0.6% to 8.7% in the DCHD target zip code areas.

1.2.8 Apportionment Study

On April 5, 2000, the EPA initiated an apportionment investigation in an effort to determine the sources of lead contamination found in the soil of residential properties at the site (Ref. 15). The EPA collected soil samples from the former ASARCO refinery property and the former Gould property and compared the lead in these samples to that found in the soils of residential properties. A report of this activity was finalized in September 2002 (Ref. 46).

On April 19-20, 2000, Jacobs Engineering, on behalf of EPA, collected twenty soil samples from borings and trenches at the former ASARCO facility. In addition 21 soil samples were collected from an ASARCO warehouse where they had archived soil samples from their former facility. The twenty samples collected from the facility were collected in accordance with the approved Field Study Plan Addendum dated April 5, 2000, using a stainless steel auger, and consisted of approximately 100 grams of soil. The samples were dried, if necessary, and sieved through a 10 mesh screen. The sieved soil was homogenized and analyzed by the XRF. In November 2001, boring samples were collected from the location of the former Gould facility, which is now part of Heartland of America Park. Soil samples were also collected from residential properties in the surrounding communities.

The apportionment study was conducted by personnel from the Laboratory for Environmental and Geological Studies, University of Colorado, in Boulder, Colorado for EPA and finalized on September 22, 2002 (Ref. 46). The objective of the lead apportionment study was to compare the sample results from the ASARCO facility and the Gould facility with the results of the residential soil samples, in an effort to identify the sources of elevated lead concentrations above background levels in residential soils (Ref. 16, pp. 2-5).

The community soil samples included soils with varied lead concentrations (60-2,400 mg/kg). These samples contained lead masses almost exclusively (74 percent of the relative lead mass) dominated by phosphates, cerussite ($PbCO_3$), manganite (MnOOH), and a mixed lead, with minor contributions from other forms of lead. The particle-size distribution for all lead species was near log normal. The phosphate and $PbCO_3$, particles were smaller, and generally cemented, with a median size of 2 microns, while the mixed lead (a combination of $PbCO_3$, lead sulfate ($PbSO_4$), and lead monoxide (PbO)), and the MnOOH are generally much coarser at 95 microns.

The community soils were found to contain lead in the form of slag, lead chloride, lead arsenate, PbMnO, lead antimony oxide (PbSbO), and lead metasilicate ($PbSiO_4$). The Final Study provides the results of the lead speciation study and evidence that smelting activity contributed to the elevated lead concentrations.

The apportionment calculation, based only on speciation results, indicates that on average a minimum of 38 percent of the bulk lead concentration in community yards would have a pyrometallurgical source, such as those activities that were performed at the ASARCO plant. This proportion could exceed 60 percent on average if only half of the non-source specific lead is attributed to pyrometallurgical activity. More than 80 percent of the community soils studied contained pyrometallurgical lead.

1.2.9 Bio-Availability Study

A draft report, A Relative Bioavailability of Lead in Test Materials from a Superfund Site in Omaha, Nebraska, was prepared by personnel from the University of Missouri, Columbia and the Syracuse Research Corporation Denver, Colorado. The draft report was submitted to EPA in April 2003.

EPA measured the bioavailability of two soil samples collected from the Omaha Lead site. One of these was composed of soil collected from two different residential properties located within the site. The same amount of soil was collected from each residence and mixed together. This soil sample was then sent to the University of Missouri for bioavailability analysis. A second soil sample was also collected and sent to the University of Missouri for bioavailability analysis. The second sample was collected from two different properties within the site. They were combined and sent to the University of Missouri for bioavailability analysis. The bioavailability study was performed in accordance with the Project Manual for Systemic Availability of Lead to Young Swine From Subchronic Administration of Lead-Contaminated Soil prepared by Stan W. Casteel, DVM, PhD,

Veterinary Medical Diagnostic Laboratory, University of Missouri-Columbia, Columbia, Missouri for Submission to: USEPA Region VIII, Denver, Colorado.

The investigation used juvenile swine as test animals and was performed to measure the gastrointestinal absorption of lead from the two test materials (Test Material 1 and Test Material 2). The relative bioavailability (RBA) of lead was assessed by comparing the absorption of lead from the test materials to that of a reference material (lead acetate). The lead concentrations of Test Material 1 and Test Material 2 were 1,650 ug/g and 1,630 ug/g, respectively. Groups of five swine were given oral doses of lead acetate or a test material twice a day for 15 days. The amount of lead absorbed by each animal was evaluated by measuring the amount of lead in the blood (measured on days 0, 1, 2, 3, 5, 7, 9, 12, and 15) and the amount of lead in liver kidney and bone measured on day 15 at study termination. The total amount of lead absorbed was measured by calculating the area under the curve (AUC) for blood lead vs. time. The amount of lead present in blood or tissues of animals exposed to test materials was compared to that for animals exposed to lead acetate, and the results were expressed as RBA.

The RBA results for the two samples in this study are summarized below:

Measurement Endpoint	Estimated RBA	
	Test Material 1	Test Material 2
Blood Lead AUC	1.01	0.76
Liver Lead	1.07	0.74
Kidney Lead	1.17	0.75
Bone Lead	0.98	0.65

Because the estimates of RBA based on blood, liver, kidney, and bone do not agree in all cases, judgment must be used in interpreting the data. EPA considers the plausible range to extend from the RBA on blood-lead AUC to the mean of the other three tissues (liver, kidney, and bone). The preferred range is the interval from the RBA based on blood to the mean of the blood-lead RBA and the tissue mean RBA. The suggested point estimate is the mid-point of the preferred range as presented below:

Relative Bioavailability of Lead	Test Material	
	Test Material 1	Test Material 2
Plausible Range	1.01 - 1.07	0.71 - 0.76
Preferred Range	1.01 - 1.04	0.74 - 0.76
Suggested Point Estimate	1.02	0.75

These RBA estimates may be used to assess lead risk at this site by refining the estimate of absolute bioavailability (ABA) of lead in soil as follows:

$ABA_{soil} = ABA_{soluble} \times RBA_{soil}$

Available data indicate that fully soluble forms of lead are about 50 percent absorbed by a child. Thus, the estimated ABA of lead in the site sample is as follows:

Absolute Bioavailability of Lead	Test Material	
	Test Material 1	Test Material 2
Plausible Range	0.50 - 0.54	0.35 - 0.38
Preferred Range	0.50 - 0.52	0.37 - 0.38
Suggested Point Estimate	0.51	0.37

These ABA estimates are appropriate for site specific use in EPA's Integrated Exposure Uptake Biokinetic Model for Lead in Children (IEUBK) model, although it is clear that there is both natural variability and uncertainty associated with physiological differences in individual animals and the extrapolation between swine and humans.

1.2.10 In-Vitro Bioavailability Sample Analysis

The University of Colorado Laboratory for Environmental and Geological Studies conducted an in vitro test on community soils using the Relative Bioavailability Leaching Procedure (RBLP). The RBLP has been calibrated to the EPA Region VIII swine model discussed previously in section 1.2.9 of this report, and has been independently validated. Several other animal models have been utilized on past efforts for measuring bioavailability. The in vitro test involves the introduction of a contaminant into an aqueous solution to simulate natural gastrointestinal conditions. The fraction of contamination liberated into the aqueous phase is defined as the bioavailable fraction in the test media.

In vitro tests were conducted during the Apportionment Study discussed previously in section 1.2.8 of this report. Relative bioavailability was determined for the potential source areas and for the community soils. The average Relative Bioavailability (RBA) for the community soils was determined to be 84% (Ref. 46). Available data indicate that fully soluble forms of lead are about 50 percent absorbed by a child. Thus, the estimated absolute bioavailability (ABA) of lead in the site sample is 50% of the RBA values. The RBA and

ABA values from the in vitro testing for the community soils are summarized and appear in Table 1-1.

Additional in vitro analysis was performed on community soil samples collected by BVSPC in February 2004. These samples were splits of mid-yard samples collected for lead soil analysis. The average RBA for the analysis on this set of samples was found to be 80%. Again the ABA value would be 50% of the RBA value. These values are also summarized in Table 1-1. The in vitro report on community soils appears in Appendix F of this report.

1.3 Report Organization

This report presents the results of the RI site characterization which covered the following subjects:

- Soil Sampling and Analysis Activities
- Physical Characteristics of the Site
- Nature and Extent of Contamination
- Contaminant Fate and Transport
- Summary and Conclusions

Table 1-1
In Vitro Bioassay Results Summary

Apportionment Study		BVSPC Sampling	
Lab ID	**%Pb RBA**	**Lab ID**	**%Pb RBA**
5083 DZ	97	13271	93
5083 B1	96	18343	77
5082 B1	90	22258	74
5080 B2	82	22412	96
5048 B2	76	29478	77
5079 B2	76	33449	89
5081 F2	87	34544	84
5046 DZ	89	36276	73
5046 B1	79	37666	80
5063 F2	88	38573	77
5061 F2	82	38775	78
5058 F2	84	40182	70
5044 B1	83	40229	80
5055 F1	82	41449	87
5088 F2	81	41488	82
5034 B1	91	44481	94
5017 F1	86	44837	84
5086 B1	89	47483	79
5087 G	80	47618	50
5060 B2	89	---	---
5020 B2	79	---	---
5098 B2	64	---	---
5008 B1	88	---	---
5056 F2	91	---	---
5030 B1	76	---	---
5007 F2	87	---	---
5059 B1	93	---	---
5041 B1	87	---	---

2.0 Remedial Investigation Methods

2.1 Soil Sampling

BVSPC obtained a database from the Office of the Douglas County Assessor that included all properties in the eight Zip Code areas that cover east Omaha (68102, 68105, 68107, 68108, 68110, 68111, 68112, and 68131). Non-residential properties were filtered out of the list of properties to be sampled. The residential properties were then checked against the database of properties that had already had surface soil samples collected in a previous investigation. Owners of residential properties that had not already been sampled were sent a letter requesting permission to sample the property.

After obtaining access to sample, surface soil samples were collected at each residence. Each property was divided into four quadrants of roughly equal surface area. First, the property was divided into front and back yard halves. Then the front and back yard halves were each divided into two equal quadrants. At the discretion of the field team, smaller yards were divided into fewer sampling areas. One composite sample composed of five aliquots of equal mass was collected from each quadrant. Each aliquot was collected from a randomly selected location in the quadrant and from the top 2 inches of soil away from influences of the drip zone. The drip zone included the area within 3 feet of the foundation of all buildings on the property. A drip zone sample was also collected. In addition, one sample was collected from the discrete play area and one sample from the garden area if they existed. If there was more than one play area or garden, at least one aliquot was collected from each play or garden area. These aliquots were composited to form one garden sample and one play area sample for each property.

Prior to sampling, an aerial view scaled sketch was made of each sampled property on the field sampling forms. An example of a field sampling sheet is included in Appendix B. The sketch showed the locations of all structures and major features, including child play areas and gardens. A digital photograph was taken of the front yard and back yard of each sampled property. A computer disk containing the photographs for each property was filed with the access sheet for that property. Pertinent information regarding the sampling of the property was recorded on the field sheet and in the field logbook.

A composite drip zone sample was collected from each residence. The sample consisted of a minimum of four aliquots collected between six-inches and three feet from the exterior wall of each house. Each aliquot was collected from the midpoint of each side. One of the four aliquots was collected from a bare spot instead of from the midpoint in the event there

were bare, non-vegetated areas within the drip zone sampling area. This sample was used to determine if lead paint is a potential source of contamination to the soils near the buildings.

All soil samples were completely homogenized to ensure that samples were representative of the entire quadrant. Grass and rocks were removed from the sample. Prior to analysis, soil was sieved through a no. 10 (2 mm) mesh screen, placed in an XRF specimen cup and covered with Mylar film.

Niton XRF spectrometers (an instrument used to resolve radiation into spectra to determine metal concentration measurements) were used to analyze soils for lead contamination. The Niton was internally calibrated before each day of field activities and whenever the operator determined there was a need to recalibrate. In addition, during bulk soil sampling (a mode in the Nition notifying the machine that the sample has depth), a set of three soil standards from the National Institute of Standards and Testing (i.e., low, medium, and high concentrations) was used to check the calibration of the Niton. At a minimum, the standards were analyzed after the initial calibration test and at the end of the day's field activities. The results were recorded in the field logbook assigned to that unit and on the standards check record sheet. The Niton XRF spectrometer has the ability to generate soil concentration data for other metals. However, the Niton was calibrated using a lead standard and therefore, it may be preferable to use laboratory data for determining concentrations of metals other than lead.

Additional volume was collected for 5 percent of samples. After preparation of the portion of the sample for XRF analysis, the extra volume was sent to the EPA Region VII Laboratory in Kansas City, Kansas for analysis. These results were then compared to the field XRF results for the sample to confirm the accuracy of field equipment.

For a few samples, additional volume was collected to perform in vitro tests using the Relative Bioavailability Leaching Procedure (RBLP) as described in section 1.2.10. After preparation of the portion of the sample for XRF analysis, the extra volume was sent to University of Colorado Laboratory for Environmental and Geological Studies for analysis.

2.2 Dust Sampling and Demographic Survey

A risk assessment is being conducted concurrently with this report by the Nebraska Health and Human Services System (NHHS) and EPA. In order to provide data necessary for the risk assessment, BVSPC collected dust samples from the interiors of residences on the site and collected demographic information about the residents.

As requested by NHHS, 159 homes were sampled for interior dust, the University of Nebraska, Omaha (UNO) administered a demographic survey and DCHD offered free blood lead screening for child residents 0-6 years of age in these homes.

The 159 homes were randomly chosen from the approximately 40,000 residential properties within the site. The site was broken into four acre parcels. These parcels were then assigned a random number. Starting with number one, the parcels were selected in order for collection of dust samples and demographic information. Only properties that had not already had soil samples collected were included in the property lists. Approximately 6,000 properties were made eligible by this random selection. The homes within the selected parcels were randomly ordered and the access teams used this order to contact the property owners for permission to collect samples. Permission to sample was granted at only 330 properties in spite of extensive efforts by access personnel. From the 330 properties only 159 allowed the collection of dust samples.

The amount of lead in settled dust samples can be expressed as a lead loading or as a lead concentration. Lead loading is the weight of lead per area sampled and the typical units are $\mu g/ft^2$ (EPA, 1995b). Lead concentration is the weight of lead per weight of sample and is typically reported as $\mu g/g$ (EPA, 1995b). When collecting a wipe dust sample, the results are reported in lead loading terms. Vacuum dust collection is able to generate both lead loading and lead concentration results. Only the lead concentration data is used in the risk assessment calculations in the IEUBK lead risk model.

At each residence where a dust sample was collected, a demographic survey was also taken. The survey was general and included such questions as the number of residents in the home, the age and sex of the residents, and the length of time the occupants have lived at the residence. This survey was completed before dust sample collection at each residence. An example copy of the survey is provided in Appendix C.

At each residence parents had the option of having DCHD collect blood samples from children under six who lived at the residence for blood lead measurement. Although many parents expressed interest in having their children's blood lead concentrations measured, none were interested in having the test conducted as part of this investigation.

The dust data collected will be used in the risk assessment to attempt to formulate a correlation between exterior soil contaminations and interior lead.

2.2.1 Wipe Sampling

The wipe sampling method provided for the collection of settled dust samples from hard, relatively smooth, nonporous surfaces. This method produces samples for lead results expressed in loading terms ($\mu g/ft^2$).

The sampling procedure for wipe sampling involves the collection of a settled dust sample in a restricted area (an area with limited dimensions) such as a window sill. This method is known as the Confined Area Sampling Procedure (Ref. 45).

2.2.2 Vacuum Sampling

The vacuum method of dust sampling was suitable for the collection of settled dust samples from both hard and smooth or highly textured surfaces, such as brickwork and rough concrete, and soft, fibrous surfaces, such as upholstery and carpeting. This method produced samples for lead with results expressed in concentration ($\mu g/g$) terms.

The following procedures are based on the American Standard of Testing and Materials Standard Practice for Collection of Floor Dust for Chemical Analysis from 2002 (Ref 43). The following is the sampling procedure for vacuum dust samples.

1. The area to be sampled was selected.
2. Immediately prior to testing, a field sheet was completed (Appendix B) and a sketch of the area to be sampled was completed.
3. Using measuring tapes, the sample area was marked.
4. The flow rate and the nozzle pressure drop were adjusted to accommodate different floor types.
5. The sampler was placed in one corner of the first sampling strip. The nozzle was moved between the ends of the two measuring tapes. The sampler was moved back and forth four times on each strip.
6. The sampler was angled over to the second strip on the next pass and the process was repeated for four double passes in the same manner as above.
7. After sampling approximately 0.5 m^2, the amount of collected material in the bottom of the catch bottle was determined.
8. The sampling was continued in the area laid out until an adequate sample amount was collected.
9. The catch bottle was then removed, labeled, and capped for storage and analysis.
10. The dimensions of the samples area were recorded on the field sheet.

2.3 Sample Numbering System

A sample numbering system was used to identify each sample analyzed. The purpose of this numbering system was to provide a tracking system for retrieval of information on each sample. The sample identification numbers allocated for all sampling efforts were used on sample labels, chain of custody (COC) records, field sheets, and all other applicable documentation used during the sampling activity. The sample identifier consisted of a series of eight alphabetic characters followed by a property identification number which was unique to each property. The alphabetic characters provided information about each sample in order as follows:

1. Type of property sampled
   - A ASARCO property
   - R Residential property
   - D Day care facility
   - H Railroad facility
   - C Other commercial property
   - I Other industrial property
   - Z Type of property not applicable
2. Sample location type
   - Y Ordinary yard sample
   - D Drip line sample
   - G Garden area sample
   - P Play area sample
   - I Interior Dust sample
   - L Paint sample (for lead)
   - Z Sample location type not applicable
3. Quadrant/ Sample location
   - A Front yard sample, the left quadrant (when facing the front of the house) - F1
   - B Front yard sample, the right quadrant (when facing the front of the house) - F2
   - C Back yard sample, directly behind F1 – B1
   - D Back yard sample, directly behind F2 – B2
   - E Entryway location
   - F Window sill location
   - G Floor location

H Bedroom location
Z Quadrant location type not applicable

4. Sample matrix
   S Soil
   D Dust
   W Water
   Z Sample matrix not applicable
5. Sample derivation
   C Composite
   G Grab
   V Vacuum
   W Wipe
   Z Sample derivation not applicable
6. Sample quality control status
   P Primary environmental sample
   D Field duplicate
   E Equipment rinsate
   Z Sample quality control status not applicable
7. Analytical method
   X Analyzed by field XRF
   L Analyzed by off-site laboratory
   Z Analytical method not applicable
8. Sampled interval
   A 0-2 inches
   B 0-8 inches
   C 8-16 inches
   D 16-24 inches
   Z Sampled interval not applicable

The property number at the end of the sample identification number ranged from 10000 to 99999. Each sampled property had a unique five digit code.

Based upon the preceding, a primary composite soil sample collected from a residential property in a play area from a depth of 0-2 inches and analyzed by XRF with a property number 10000 has the following sample ID:

2.4 Documentation

2.4.1 Field Sheets

Field sheets were used to track access to properties and sample collection. The field team completed a field sheet for each property sampled for soil or interior dust. The field sheet incorporated the property access, property information, the sketch of the property, and sample results. A different field sheet was used when collecting interior dust samples. This field sheet incorporated the type of dust sample collected and information regarding the type of sample and a sketch of the area sampled. Copies of both field sheets are located in Appendix B.

2.4.2 Field Book Documentation for Sampling Activities

The most important aspect of documentation is thorough, accurate record keeping. All information obtained during the sampling activities was recorded in a bound logbook with consecutively numbered pages. All entries in logbooks and on sample documentation forms were made in waterproof ink, and corrections consisted of line-out deletions that were initialed and dated.

- Name and title of author, date and time of entry, and physical/environmental conditions during field activity.
- Purpose of sampling activity.
- Name and address of field contact.
- Names and titles of field crew members.
- Names, titles, and affiliations of any site visitors.
- Type of waste, suspected waste concentration if known and sample matrix.
- Sample collection method.
- Number and volume of samples taken.
- Location, description, and log of photographs of the sampling activities and locations.
- References for all maps and photographs of the sampling site(s).
- Information concerning sampling changes, scheduling modifications, and change orders.
- Details of the sampling location.

- Date and time of collection.
- Field observations including observations of samples such as odor and color.
- Any field measurements made.
- Sample identification numbers.
- Information from container labels of reagents used, HPLC water used for blanks, etc.
- Sample preservation.
- Sample distribution and transportation (such as the names of the laboratory and approved carrier).
- All sample documentation, such as the following:
  -- Bottle QC lot numbers received from repository.
  -- Activity numbers received from the USEPA.
  -- COC record numbers received from the USEPA.
- Decontamination procedures.
- All documentation concerning derived wastes, such as the following:
  -- Contents and approximate volume of waste in each drum.
  -- Type and predicted level of contamination.
- Summary of daily tasks (including costs) and scope of work changes required by field conditions.
- Signature of the personnel responsible for observations and the date.

2.4.3 Photographs

All sampled properties were photographed. At each sampled property, photographs were taken of the front and back yards. Photographs from each sampled property were saved to a disk unique to the property. The computer disk was labeled with the property number, the property address, the date, and the number of photographs saved on each disk.

2.4.4 Sample Labels

All dust samples and soil samples sent to the laboratory for analysis were placed in labeled glass jars. The following information was included on each sample label:

- Site name.
- Sample number.
- Name of sampler.
- Sample collection date and time.

- Analysis requested and preservatives added.

2.4.5 USEPA Region VII Field Sheet

For each sample sent to the laboratory, EPA Region VII laboratory field sheets were used in order to document sample collection time, location, and field observations. After completing the field sheet, a photocopy of the field sheet was made. The original was provided to EPA with the samples for analysis. The photocopy was retained for reference.

2.4.6 Chain of Custody Record

A COC record was completed for each shipment of samples to the EPA laboratory. Standard laboratory COC records were used. After completion of the COC record, the record was photocopied and included with the shipment. The photocopy was retained for reference.

2.4.7 Custody Seals

For all shipments to the EPA laboratory, custody seals were used to ensure the integrity of the samples should they be unattended or when they are relinquished to a delivery service. All samples were shipped in an insulated shipping container and each shipping container was sealed with at least two custody seals. The seals were affixed to each shipping container so that it was necessary to break the seals to open the shipping container.

3.0 Physical Characteristics of the Study Area

3.1 Surface Water Hydrology

Surface water runoff from the site area flows easterly along the adjacent street sewer system prior to entering the Missouri River, where the 15-mile surface water pathway is completed (Ref. 1). The surface water pathway extends approximately four miles north of the site near mile marker 629. The 15-mile surface water pathway includes the northern most surface water runoff point within the site and 15 miles from the southern most surface water runoff entry point. Therefore, at the Omaha Lead site, the surface water migration pathway would be approximately 23 miles (8 miles for the site and 15 miles south of the site).

The Missouri River supports recreational fishing and boating (Ref. 30). There are wetlands located along the 15-mile surface water pathway. The Missouri River is the habitat location for the blacknose shiner (*Notropis heterolepis*), finescale dace (*P. neogaeus*), lake sturgeon (*Acipenser fulvescens*), northern redbelly dace (*P. eos*), pallid sturgeon (*Scaphirhynchus albus*), and pearl dace (*Margariscus margarita*) which are designated as threatened and/or endangered species (Ref. 30, p. 5; 32; 33). The Omaha Lead site is located outside the 500-year flood plain of the Missouri River (Ref. 35).

3.2 Geology

The Omaha Lead site lies within the Central Lowland region of the Interior Plains physiographic province (Ref. 20, p. C3). The entire area lies within a structural feature known as the Nemaha Uplift, a north-south feature bound on the east by the Humboldt fault zone (Refs. 20, p. C9; 21, p. 1). The topography of the Omaha area is defined by a hilly upland in the western portion of the area and the Missouri River floodplain to the east. The altitude at the site ranges from approximately 1,030 to 1,200 feet above mean sea level. Geologic units in the study area include, in descending stratigraphic order: undifferentiated Pleistocene deposits, the Kansas City Group, and undifferentiated strata of Cambrian through Pennsylvanian age (Refs. 20, pp. C10; 22, pp. 4, 5).

Unconsolidated materials beneath the site consist of Pleistocene to recent alluvial deposits and Pleistocene glacially derived loess deposits. Loess is the most common surface deposit in the Omaha area. The loess is underlain by either glacial till, Cretaceous-aged sandstone, or Pennsylvanian-aged sediments (Ref. 24, pp. 1, 2). The unconsolidated material

has a thickness of approximately 90 feet on the Missouri River Valley at Council Bluffs, Iowa (Ref. 22, pp. 1-5).

The Kansas City Group consists of interbedded shale and limestone and is greater than 50 feet thick in the Omaha/Council Bluffs area (Ref. 22, p. 5).

The undifferentiated strata of Cambrian through Pennsylvanian Age consists of interbedded sedimentary rock of undetermined thickness. The presence of a window in the Mississippian portion of the section across the southern Nemaha Uplift suggests that, if present, the Mississippian series is extremely thin in the Omaha area (Ref. 19, pp. C9, C10, C21, C23, C27). Lower, Cambrian rock units are present beneath the site and thicknesses generally exceed 1,000 feet in eastern Nebraska (Ref. 20, pp. C10, C19, C20).

3.3 Soils

The U.S. Soil Conservation Service (SCS) identifies soils in two distinct associations for the Omaha Lead site. The first soil series is the Albaton Haynie Association, with deep, poorly drained to moderately well drained, nearly level clayey and silty soils on bottom land along the Missouri River. To the west and out of the river bottom, the second soil series is the Monona-Ida Association. This is classified as a deep, well drained, nearly level to very steep silty soil on bluffs adjacent to the Missouri River valley. Both of these series are primarily characterized as Peoria loess or younger loess. Approximately one-third of the Omaha Lead site is in the Albaton-Haynie series (river bottoms) and two-thirds is in the Monona-Ida series (western upland). (Ref 23)

3.4 Hydrogeology

The surficial aquifer in the study area is composed of glacial drift deposits in the western portion of the study area and alluvial material adjacent to the Missouri River.

The average thickness of saturated alluvial material ranges from 50 to 80 feet. Water within the alluvial, stream-valley aquifer is generally under unconfined or water table conditions. Yields of wells drilled in the alluvial material range from 100 to 1,000 gallons per minute.

The thickness of glacial drift deposits is generally 100 to 200 feet. Within the glacial drift deposits, complex interbedding of fine- and coarse-grained material results in a large number of local confining units. Yields from the glacial drift aquifer are more variable and range from 10 to 1,000 gallons per minute (Ref. 24, pp. 1, 2, 7-9).

Topography in the area heavily influences the potentiometric surface of the surficial aquifer. Movement of water is from recharge areas to discharge areas along major streams.

The stream valley aquifers are in direct hydraulic connection with nearby streams and water levels are, therefore, closely related to river levels. A small amount of water enters the underlying bedrock aquifers by percolating downward (Ref. 24, p. 7).

The regional or bedrock aquifer system consists of permeable limestone, dolostone, and sandstone of Late Cambrian through Late Mississippian age that are separated by slightly permeable shale or dolostone, all of which overlay the basement confining unit. The top of the upper unit in the Western Interior Plains aquifer system generally slopes away from the Missouri River (Ref. 20, p. C19, C22). The western Interior Plains aquifer system is overlain by a confining unit of Pennsylvanian shale and limestone and is composed of three units: an upper unit, a confining unit, and lower unit. The upper, Mississippian unit, may only be present as a negligible unit due to erosion of the Nemeha Uplift. The thickness of the lower unit is greater than 1,000 feet in the eastern Nebraska region. The intermediate confining unit that separates the lower units from the upper unit in the Western Interior Plains aquifer system limits regional flow between the two units (Ref. 20, pp. C9, C10, C21, C23, C27). The thickness of this unit ranges from 0 to 300 feet thick (Ref. 20, p. C22).

3.5 Meteorology

Omaha is located in the heart of the North American landmass, and as such, has a climate which is continental in character. In winter the mean pressure of the central region is higher than that of the surrounding areas, and is accompanied by an outflow of cold, dry air. In summer the mean pressure of the central region is relatively low, and is accompanied by a general inflow of warm, moist air. Omaha has marked seasonal contrast in both temperature and precipitation which is characteristic of continental climates.

The normal annual total precipitation in the area is approximately 28 to 30 inches, and the mean annual lake evaporation is 28 inches, resulting in a net precipitation of 0 to 2 inches (Ref. 4). The 2-year, 24-hour rainfall is approximately 3.0 inches (Ref. 4, p. 95). Seasons typically consist of severe winters, wet springs, and warm summers with moderate thunderstorm activity (Ref. 5, p. 1-4).

3.6 Demography and Land Use

The Omaha Lead site is located in eastern Omaha, Nebraska, and is bordered on the east by the Missouri River. Land use within the area of the site is residential, commercial and industrial. With the exception of limited areas and individual lots, the site is completely developed. Approximately 40,000 residential properties are located within the site (Ref. 41). This includes both single-family and multi-family residential, as well as vacant lots with

residential zoning. According to the American Community Survey (ACS) conducted by the Census Bureau in 2002 (Ref. 40), the average household size in Douglas County was 2.49 people. The ACS also states that in 2002, 27 percent of the population in Douglas County was under the age of 18 and that 84 percent of the population had lived in the same residence for over one year. This information indicates that there is potentially a large population of young residents that have been exposed to conditions at the site for an extended period of time. While the survey area covered the entire county, data from site residents was included in the tabulation. Therefore, while these numbers may not exactly reflect conditions at the site, they are an indication of residential patterns within the area.

4.0 Nature and Extent of Contamination

This section presents, evaluates, and interprets results of the chemical analysis of soil samples collected during the RI. The health risks posed by the presence of the identified contaminants will be discussed in the Risk Assessment report being prepared for the site by the Nebraska Health and Human Services System and EPA.

4.1 Data Validation

As discussed in Section 2 of this report, all samples collected during this investigation were analyzed in the field by XRF technology. To verify the accuracy of field XRF equipment, 5 percent of samples were split. One split was analyzed by XRF in the Omaha field office and the other by the EPA Region VII laboratory in Kansas City, Kansas. The EPA Region VII laboratory validated the analytical data according to USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (February 1994). No duplicate samples were collected for XRF analysis.

To evaluate these results, a linear regression was developed by comparing the field XRF result to the corresponding laboratory result. The site-specific Quality Assurance Project Plan (QAPP) requires the coefficient of determination (R^2) between the XRF and laboratory results to be equal to or greater than 0.49. The coefficient of determination provided a measure of the strength of the correlation. In other words, it is the percentage of the observed values of Y (XRF data) that is explained by the observed values of X (EPA laboratory data). Raw laboratory and XRF values were used for the calculations.

When the linear regression was performed on the XRF and laboratory data from this investigation, the resulting R^2 value was 0.60. This value indicates that the field equipment was performing well and providing results that are comparable to laboratory results. A graph showing the relationship between XRF and lab data has been included as Figure 1.

4.2 Nature and Extent of Soil Contamination

Between March 1999 and January 2004, surface soil samples were collected from 15,012 residential, EBL, and child care properties within the Omaha Lead site and analyzed for lead. Not all of these samples were used in the risk assessment because sampling activities at the site are ongoing and the number of samples collected is being continuously updated. The properties are located in the eight Zip Code areas that cover east Omaha (68102, 68105, 68107, 68108, 68110, 68111, 68112, and 68131). The properties were relatively evenly

distributed throughout the site and represent lead concentrations in surface soil in all areas of the site. The locations of sampled properties are shown in Figure 2.

Between March 1999 and July 2000, sampling was conducted by Jacobs Engineering (Jacobs), and since July 2000 all sampling has been conducted by BVSPC. All data from the sampling conducted by both firms is presented in Appendix A to this report. Due to differences in data format, two tables are included in Appendix A. Table A-1 includes the results of sampling conducted by Jacobs, and table A-2 includes the results of sampling by BVSPC.

For the samples collected by Jacobs, 10 percent of the samples were split. One split was analyzed by XRF in the Omaha field office and the other by PDP Laboratories. This laboratory analysis was performed for all toxic metals. The summary results of this analysis are presented in Table 4-1. This analysis indicated that several metals, in addition to lead, were found in the soils in Omaha above their background concentrations. The risks associated with these other metals are discussed in the risk assessment.

Although an average of five samples were collected from each property, for the purposes of this discussion the highest lead concentration from a non-foundation (not drip zone) yard sample will be used to categorize each property. During this investigation, the projected screening action level at this site has been 400 ppm lead. A risk assessment is being conducted concurrently with this report. The final risk assessment report will present the final action level.

Of the 15,012 properties included in the investigation, 5,172 properties had at least one non-foundation sample with a total lead concentration above 400 ppm. This represents a rate exceeding 400 ppm of 34 percent. It should be noted that the exceedance rate increases to approximately 40 percent when only the results from the focus area are considered. Figure 2 represents the location of properties that had soil lead concentrations at less than 400 mg/kg and over 400 mg/kg.

4.3 Dust Sampling

Dust samples were collected from 159 properties within the site. At each property where interior samples were collected, three vacuum dust samples were collected as discussed in Section 2. For the purposes of the risk assessment these three concentrations were averaged for a single concentration for each residence. Averages included samples in which lead was detected and those where lead was not detected.

Among these properties the average lead loading for wipe samples was 550 µg/ft² and average lead concentrations for vacuum samples was 435 mg/kg. The median lead loading

for wipe samples was 46.5 µg/ft² and median lead concentration for vacuum samples was 232 mg/kg. The highest loading at an individual residence was 52,026 µg/ft² lead for wipe samples and concentration was 15900 mg/kg lead for vacuum samples. The lowest loading was 0.9 µg/ft² lead for wipe samples and concentration was 37 mg/kg for vacuum samples. The loadings and concentrations of lead in wipe and dust samples taken from each home are included in Table A-3 of Appendix A.

4.4 Presence of Arsenic

In addition to lead, arsenic is detected in approximately 17% of the soil samples analyzed by laboratory methods. Analyses performed by the XRF detect arsenic at almost the same frequency.

EPA had EPA=s National Exposure Research Laboratory (NERL) and the University of Colorado=s Laboratory for Environmental and Geological Studies (LEGS) analyzed data collected from the site to determine if the occasional detection of arsenic is related to the lead that is widely found in soil at the site. Arsenic at concentrations below 25 ppm is more difficult to characterize.

The NERL analyzed the site data and wrote a report titled, >Arsenic and Lead Contamination in Soils - Omaha Nebraska= which describes the analyses performed on the data and the conclusions that were revealed by this analysis. The report states that soil samples with arsenic above 25 ppm are not correlated with lead contamination. This report states that arsenic concentrations greater than 25 ppm occasionally found in residential soils are not related to lead contamination that is found in most residential yards. A 25 ppm concentration is significant because it is the approximate arsenic detection level for the Niton XRF. In addition, it is also near the EPA Region 9 Preliminary Remedial Goal for arsenic. To support their first report, the NERL wrote a second report titled, >Spatial Distribution of Lead and Arsenic Contamination - Omaha Nebraska= supplementing its earlier report with geo-spatial analyses of the lead and arsenic data. This report concludes that arsenic data does not have the same geo-spacial pattern as the lead data. This further supports the NERL's conclusion that arsenic that is found at levels above 25 ppm is not related to atmospheric deposition originating from the area of downtown Omaha.

The LEGS also analyzed the data from the site. In addition, EPA sent LEGS three soil samples from residential properties that had high arsenic concentrations. LEGS analysis of the soil data from the site revealed that arsenic and lead concentrations do not correlate with each other, indicating that the two metals are from different sources. The LEGS analysis of three residential soil samples with high arsenic concentrations show that the

arsenic is in a relatively pure form that is usually associated with the rotenticides arsenic trioxide and lead arsenate. The LEGS concluded that high arsenic concentrations occasionally found in residential soil is not from atmospheric deposition from an industrial source.

Both NERL and LEGS independently concluded that high arsenic concentrations are not caused by atmospheric deposition from a source or sources originating from the downtown Omaha area. These reports appear in Appendix D of this report.

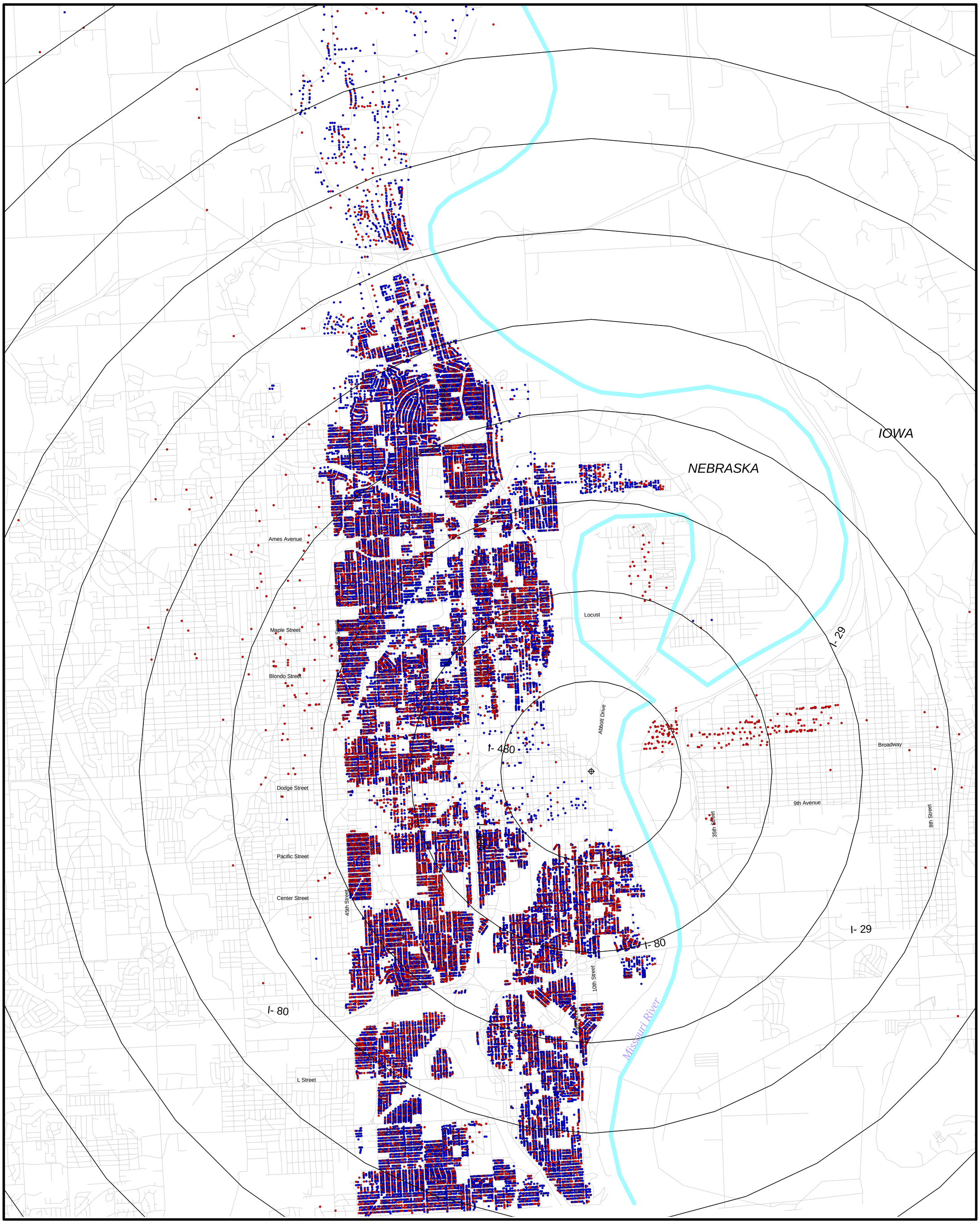
Table 4-1
Laboratory Results of Residential Sampling

	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Hg
# samples	1125	1125	1125	1125	1125	1125	1125	1125	1125	1125	1125	1125	727
# detects	405	1114	1114	1114	858	468	1114	1104	1114	1114	1114	1114	48
High	29.8	18400	1600	3360	1.72	58	150000	20.6	20	280	2300	44100	2
Average	1.4	6367.7	22.4	255.2	0.8	4.1	8926.8	1.5	7.0	16.2	31.5	11533.4	0.0
Low	0.2	4.1	0.513	0.256	ND	1	12.8	ND	0.347	0.256	0.256	13.4	ND
Median	2	5180	11.5	218	1	5	7090	1.155	7	13	23	9800	ND

	K	Mg	Mn	Mo	Na	Ni	Pb	Sb	Se	Tl	V	Zn
# samples	1125	1125	1125	1125	1125	1125	3604	1125	1125	398	1125	1125
# detects	1111	1113	1114	225	970	1113	3593	494	604	398	1114	1114
High	3710	21000	8300	2	14100	63	25500	21	10	10	130	9530
Average	1887.2	3018.4	538.4	2.0	570.0	15.7	667.0	3.8	4.8	6.2	18.6	374.3
Low	120	5.38	0.256	2	2.23	0.256	0.519	0.808	ND	0.638	0.385	0.256
Median	1870	2600	520	2	359.5	14.2	247	2	2.24	10	16	260

All sample results are reported in mg/kg.

Figure 1
Omaha Lead Remedial Investigation
Sampling Access Status of All Residential Properties



LEGEND

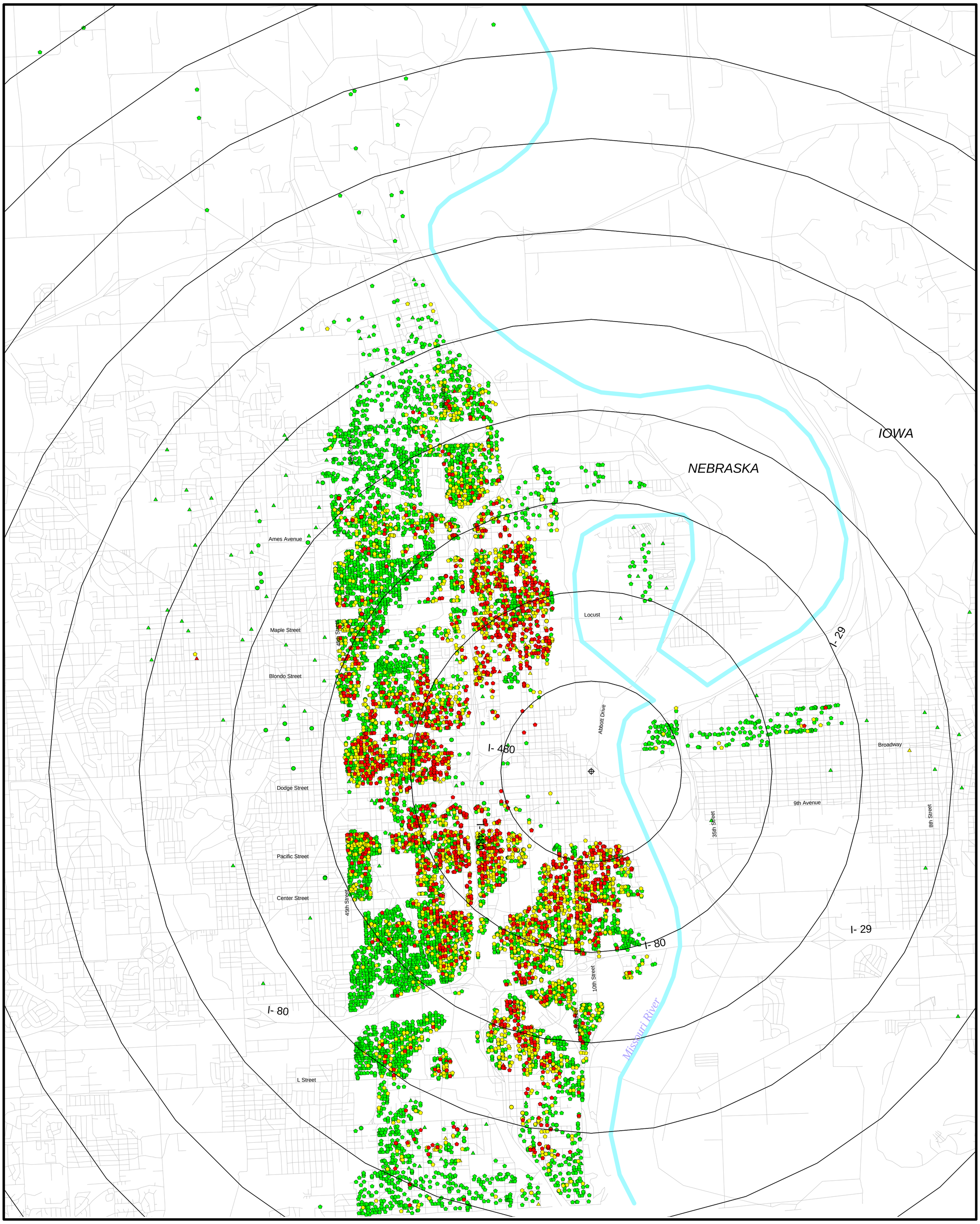
- Granted
- Not Accessed
- Roads
- Missouri River/State Line
- Mile Radius from Site Center

N

Resident properties for which access has been granted have been sampled.

2000 0 2000 4000 6000 8000 10000 Feet

Figure 2
Omaha Lead Remedial Investigation
Residential, Child Care, and EBL Properties - Lead Results



LEGEND

Residential | Child Care | EBL's

- 0 - 399 mg/kg Lead Concentrations
- 400 - 799 mg/kg Lead Concentrations
- 800+ mg/kg Lead Concentrations

Roads

Missouri River/State Line

Mile Radius from Site Center

N

Results shown are based on highest non-foundation lead concentration at each property.

2000 0 2000 4000 6000 8000 10000 Feet

Map No.: 142 Date of Map: January 22, 2004
Compiled from data taken in field from March 1999 to Dec 2004

5.0 Contaminant Fate and Transport

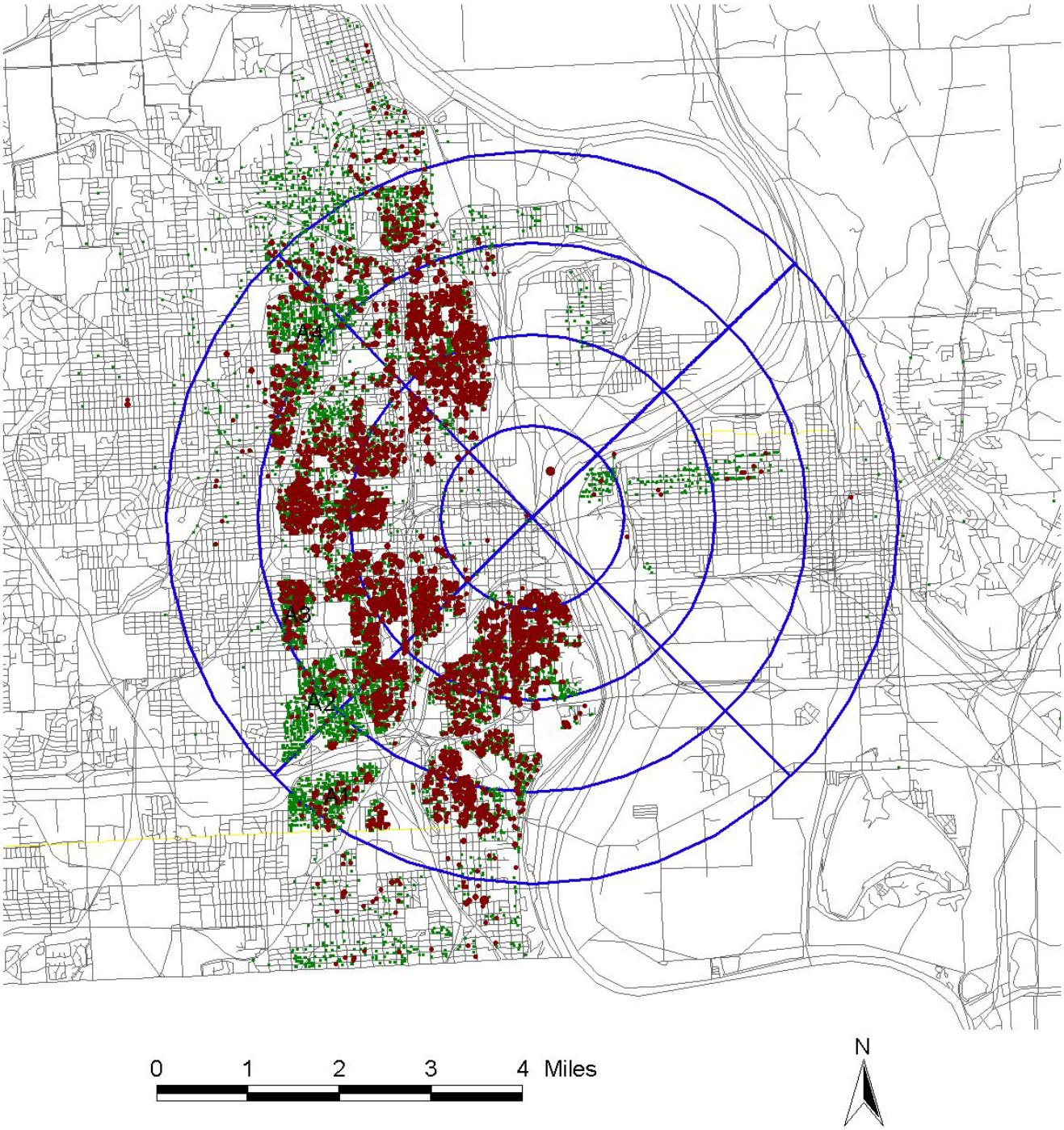
Early investigations at the Omaha Lead site found evidence of high lead concentrations in surface soils along the corridors of the prevailing wind currents which pass through downtown Omaha. At the same time, several industrial properties on the east side of downtown Omaha were being investigated as the sources of the contamination. The conclusions of these investigations demonstrated that the contamination was deposited from air currents originating in the east edge of downtown, along the Missouri River, and traveling outward, primarily to the north, south and west (Ref. 39 and 46). These potential sources have been closed and no other potential sources of lead contamination that would influence the site have been identified.

This RI, as well as previous investigations conducted at the site, has investigated potential migration of lead contamination from surface to subsurface soils. Investigations of soil chemistry and lead concentrations in subsurface soils at the site have indicated that the lead contamination at the site is concentrated in the top 2 to 12 inches of soil. The apportionment study conducted by Dr. Drexler states that "The near neutral (6-8.5 pH) acidity of the local soils stimulate very low metal mobility, generally concentrating metals in the surface horizons by preventing their downward distribution over time." (Ref. 46, pg. 8)

During the SI for the Omaha Lead site, subsurface samples were collected at 511 properties where surface samples were collected at the same location. The subsurface samples were collected from the 0-8 inch, 8-16 inch, and 16-24 inch ranges. The number of samples in which lead was detected decreased at each downward depth interval. The average, maximum, and median lead concentrations also decreased as depth increased, indicating little to no migration downward from surface soils. These results led EPA to discontinue depth sampling at the end of the SI. Table 5-1 provides a summary of the depth sampling.

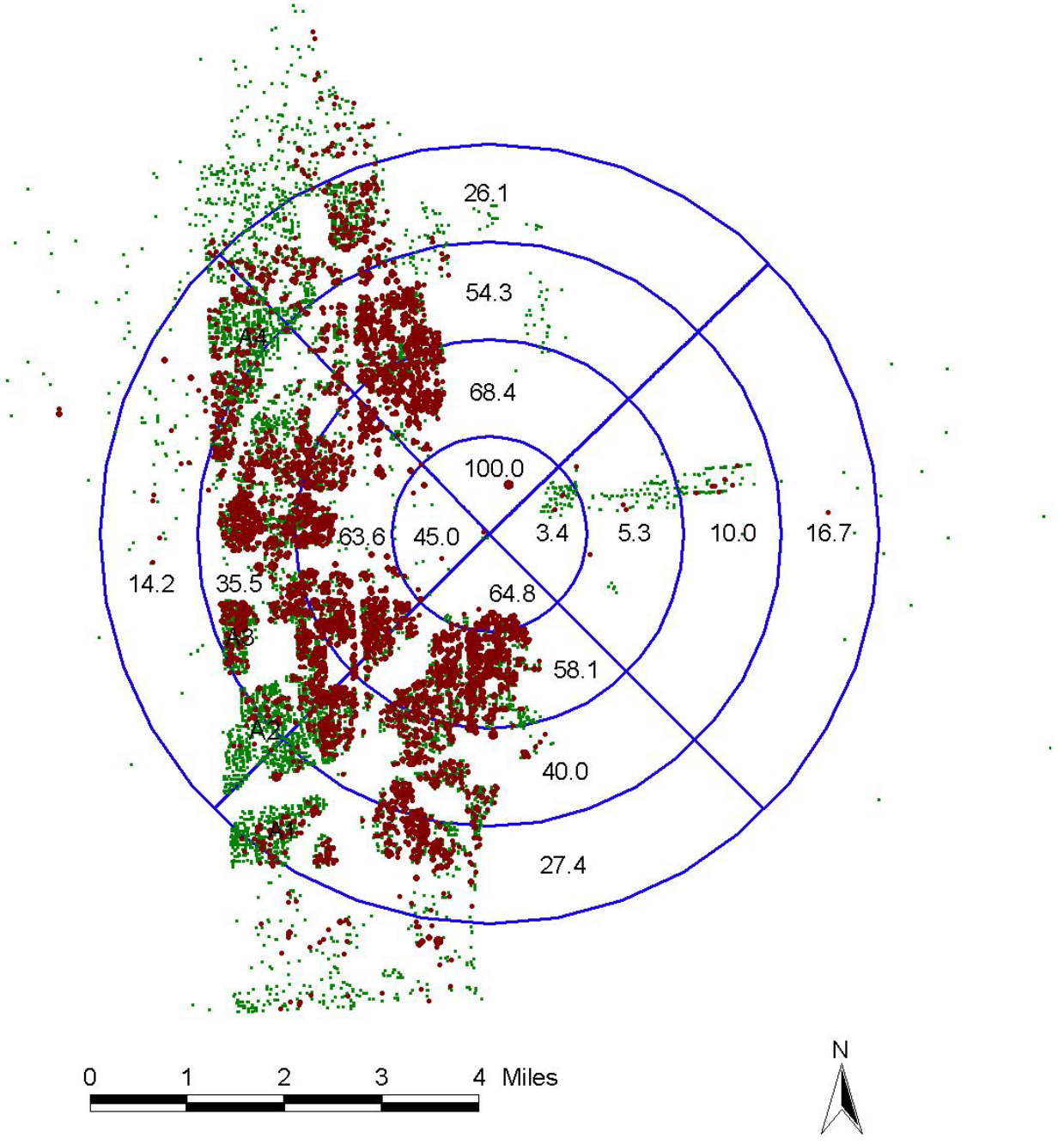
Sample results with 1 mile intervals have been plotted and appear on a figure at the end of this section. Another figure also appears which details the distribution of non-foundation sample results.

Additional migration of contaminants on the site may occur through wind and surface water erosion and human activity.



Maximum Non-Foundation Sample Results with 1-mile Intervals
Omaha Lead Site, Omaha, Nebraska

Notes:
1. Properties with maximum non-foundation lead result of 400 ppm or greater are indicated by red points.
2. Properties with maximum non-foundation lead result of less than 400 ppm are indicated by green points.



Distribution of Maximum Non-Foundation Sample Results
Omaha Lead Site, Omaha, Nebraska

Notes:

1. The number value within each 1-mile sector is the percentage of properties with maximum non-foundation lead result of 400 ppm or greater as indicated by red points.
2. Properties with maximum non-foundation lead result of less than 400 ppm are indicated by green points.

Table 5-1
Summary of Subsurface Soil Sampling

	0-2"	0-8"	8-16"	16-24"
Count	550	548	548	549
Detects	511	502	432	376
High	2729.6	1429.6	1580.0	970.4
low	ND	ND	ND	ND
Mean	280.3	223.4	175.1	128.3
# >=400	96.0	61.0	30.0	15.0

BVID	Quadrant	0-2"	0-8"	8-16"	16-24"
2	SW	203.5	54	ND	ND
3	SE	ND	ND	53.7	61.6
5	SW	297.8	114.9	ND	48.1
6	SW	239.2	230.6	186.3	ND
8	SW	56.2	88.6	50.1	64.3
13	NE	759.6	303.2	34.3	ND
14	NW	628.4	363.8	157.9	141.9
19	NE	127.7	101.3	98.2	88.6
22	NE	86.3	187.4	38.4	ND
24	NE	349.6	102.7	58.5	ND
25	NW	178.3	45.3	38	57.3
27	SE	40.7	30.8	ND	82.5
30	NW	111.8	89.8	112.2	ND
32	SW	405	209.2	73.8	201.9
35	NE	125.5	51.2	61	ND
38	SW	99.4	192.2	152.3	111
39	NW	302	232.8	296	52.1
41	SE	159.1	79.9	54	69
47	NW	193.7	173.8	80.9	45.1
52	SE	35.9	32.9	ND	26.4
53	SW	34.6	ND	ND	ND
58	NW	ND	ND	ND	ND
64	SE	209.4	93.5	50.9	ND
66	NW	190.9	311	286.4	218.4
68	SE	170.4	511.2	165.6	97.9
74	NE	64.3	32.3	ND	ND
78	SW	71.1	ND	ND	ND
79	SE	320.6	277	145.1	54.2
83	SE	286.8	359.4	176.6	ND
85	SE	324.8	297.8	181.5	145
88	SE	175.5	166.9	87.7	51.6
89	SE	502.8	433.2	303.8	149.3
91	SW	85.2	145.3	ND	ND
94	SW	ND	40.9	ND	37.7
97	NW	761.2	843.2	313	99.1
108	SE	69.8	279.4	222.8	184
109	SE	156	204	198.5	55.8
113	NW	584	973.6	504.4	75.3
114	SE	551.6	510.4	274.2	147.7
119	NW	1549.6	1300	891.2	506.8
121	SE	ND	ND	ND	ND
123	NW	532	184.4	146.3	ND

Table 5-1
Summary of Subsurface Soil Sampling

BVID	Quadrant	0-2"	0-8"	8-16"	16-24"
124	NW	116	284.6	152.3	84.6
129	NW	208.8	128.1	64.8	37.4
130	SW	206.8	287.6	222.6	175.6
131	SE	422	345	384	309.8
133	SE	340.8	134.9	58.6	61.1
134	SW	437.6	326	92	66.3
142	SE	212.2	139.5	62.3	52.3
148	NW	326	316	64.5	ND
150	SE	812.4	1429.6	232.8	71.2
153	SE	56.7	112.6	131.7	72.9
156	NW	196.6	169.5	98.1	103.2
159	NW	197.2	206.8	101.8	32.5
164	NW	ND	43.2	ND	43.3
165	SW	660.8	289.2	234.2	105.9
168	SW	321.6	692.4	920.8	286.8
171	NW	358.6	191.4	77.7	44
173	SE	164.7	74.9	104	47.7
174	SE	177.5	138	35.6	ND
175	NW	224.2	376.8	400	549.6
181	SW	315	510.8	331.4	174.7
183	NW	287	253.4	154.8	103.4
184		ND	ND	ND	ND
185	NE	146.4	235.6	80.8	130.1
186	SW	157.8	870.4	690.8	241.4
190	SE	502.4	241.2	ND	ND
194	SW	ND	ND	47.2	ND
197	NW	251.2	263	96.7	78.5
199	SE	709.6	276	117.9	124.5
206	NW	209.4	298.2	206.4	137
211	SE	382.4	208.4	148.3	65.6
214	NE	210	165.4	129.6	57.9
219	NE	833.6	412.4	216	75.8
220	NW	451.6	498	492	318
221	NE	ND	ND	ND	ND
224	SE	ND	ND	ND	ND
225	NW	729.2	98.6	ND	ND
234	SE	375.6	284	130.7	112.1
235	NW	449.6	236.6	206.6	ND
237	NW	589.2	608.4	277	244.6
238	SE	638	362.6	209	51.2
242	NE	416	500	79.4	58
247	NW	310.6	275.2	180.7	56.5
251	SE	816.4	409.2	349.8	173.7
252	SW	274.4	186.2	54.9	ND
253	NW	217.8	205.2	177.6	100
260	NW	236.2	308.8	71.8	ND
261	NW	1160	289.2	252.2	103.1
264	SW	114.1	116.4	54.9	ND
268	SW	301.4	328	412	142.6
274	SW	340.6	604.4	100.3	ND

Table 5-1
Summary of Subsurface Soil Sampling

BVID	Quadrant	0-2"	0-8"	8-16"	16-24"
275	SE	92.2	37.7	84.6	155.2
276	SW	539.6	552.8	188.3	97
280	SE	243.6	297.4	234.6	69.6
289	NW	190.4	244.6	257.2	189
292	SE	157.5	53.4	152.3	59.8
293	NW	577.2	154.6	246	ND
298	SW	380.2	515.6	586	570.4
299	SW	258.6	350.2	205.8	96.8
300	NW	1828.8	200	100.6	88.3
301	SE	633.2	496.8	97.1	77.4
302	NW	303	228.2	153	59.5
304	NW	836	205.2	146	80.7
306	NW	200.1	165.7	84.4	165.9
308	NW	1260	1029.6	568	777.6
309	NW	522.4	260.8	139.7	122.1
313	NW	564.4	105.4	ND	42
319	SW	286.8	212.8	151	124.1
325	SE	395	368.6	72.9	ND
326	SW	553.2	366.8	66.7	54.5
332	SW	372.8	395.8	101.5	31.5
334	NE	351	672.8	159.4	119
335	NE	157.4	494	119.3	ND
336	SE	481.2	231.6		41.6
346	SE	115.4	80.8	53.8	ND
348	SW	555.6	312.4	115.1	66.2
355	NW	348.2	418.8	210.2	ND
356	NE	325	279	291.6	67.4
357	NW	56.3	ND	44.9	ND
359	SW	125.1	58.5	ND	ND
360	NE	96.8	107.5	141.6	ND
361	SE	826.4	278.4	70.3	ND
362	NE	195.3	195.8	119.2	85.5
363	NW	860.8	120.8	201	ND
365	NW	190.8	185.4	175	386.2
373	SE	38.5	103.5	ND	86.6
374	NW	630	778.8	547.2	255.6
385	NE	39.4	52.1	ND	ND
388	SW	1979.2	308.4	163.8	80.8
389	SE	1640	332	302.4	79.2
390	SE	222.6	238.4	95.9	81.5
393	SE	270.4	37.5	34.2	ND
397	NE	70.6	60.5	115.7	91.7
400	NW	80.8	209.2	237	189.8
402	SE	84.1	126	110	ND
403	NE	146	264.6	187.6	103
405	SE	141.6	116	78.3	94.1
414	NE	44.1	ND	54.5	ND
415	SE	238.4	267.4	209.8	176.6
417	NW	ND	ND	ND	ND
418	NE	664.4	255	127.1	70.4

Table 5-1
Summary of Subsurface Soil Sampling

BVID	Quadrant	0-2"	0-8"	8-16"	16-24"
419	SE	167.4	56.9	ND	ND
422	NW	254	218.2	139.9	75.2
426	NW	311.8	169	135.1	70.2
427	NW	2729.6	979.2	391.6	746
429	SW	517.6	274	226.8	118.8
431	NW	298.4	262	80.3	ND
433	NE	309.8	97.5	428	940.8
434	SW	104.3	62.6	ND	65.8
439	NW	116.3	208.2	ND	ND
443	SE	60.6	ND	ND	118.4
446	NW	141.3	55.5	ND	30.8
448	SW	130.5	137.2	101.5	70.5
450	SE	316.6	334.2	216.4	94.6
455	NW	502.8	457.6	478.8	272.8
466	NE	626.8	630.8	438.4	100.3
468	NE	36.5	81.1	52.9	51.5
471	SE	995.2	1189.6	905.6	86.5
475	SE	335	245.8	104.8	48.7
476	SE	662	696	665.2	246.8
483	NW	562.4	185.2	186.4	83.7
484	NE	35.4	43.7	ND	ND
486	NW	170.1	186.8	148.2	98.2
488	SW	376.2	1009.6	1580	157.6
494	NW	78.2	69.4	ND	41.3
497	SE	243.2	154.4	211.4	238
498	SE	391.2	413.6	285.6	86.3
499	NE	141.9	213.6	132.3	ND
501	NE	389.2	256.6	85	77
503	SE	101.2	ND	119.8	107.1
505	NW	172.2	128.3	50.2	ND
508	NW	214.4	246.6	266.8	175.7
510	NW	302.4	ND	234	334.6
512	NE	436	170.1	217.8	53.5
515	NE	375.4	ND	32.8	ND
517	NE	269.6	328.4	148.9	53.5
521	SW	126.4	129.5	120.5	104.6
522	NE	117.8	305.4	300.8	198.2
533	NE	56	57	73.1	52.3
536	SW	92.3	ND	ND	ND
539	NE	ND	47.6	ND	ND
541	NE	398.8	353	110.5	96.6
545	SE	52.7	176.3	72.9	47.5
547	NE	104.6	494.8	1420	956
548	SW	260.2	270.2	203.9	98.5
565	NW	198.8	217.6	237.4	211.2
567	SE	531.2	535.2	239	213.2
570	SW	123	91.1	141	78.6
571	NW	237	196.1	238.4	200.9
575	NW	137.1	148.9	146.8	114.8
580	NE	178.7	120.4	58.8	86

Table 5-1
Summary of Subsurface Soil Sampling

BVID	Quadrant	0-2"	0-8"	8-16"	16-24"
581	SW	467.2	139	108.3	94.2
585	NW	880	289.2	178.1	90.3
587	SW	109.7	95.8	ND	ND
591	SE	229.2	191.7	102.6	ND
593	SW	81.9	134.8	73.8	ND
594	NW	610	155.1	153.8	107.8
600	NE	393.4	244.8	146.1	79.3
603	NE	240.8	304.4	249.8	ND
604	SW	666.4	366.2	274.8	48.1
615	NW	81.2	69.3	83.6	142.9
618	NW	186.5	129	78.5	ND
622	SW	2240	428.8	229	90.6
624	SE	331.4	387.8	204.8	76.3
626	NW	574	458.4	136.5	57.1
634	SE	77.5	59.7	ND	ND
636	SW	92	107.8	72.9	66.3
637	NW	250.2	196.6	343.2	412
640	SE	ND	65	43.8	ND
646	SW	256.2	259.6	306.2	63.7
648	NE	127	212.8	142.3	140.5
650	SE	331.4	364.2	267.2	557.6
651	SW	108	72.4	322.2	254.4
652	SW	75	56.5	98.7	66.6
659	SW	138.1	242	65.8	63.6
663	SW	217.2	120	84.1	54.3
665	SW	636.4	164.2	117.3	89.3
666	SE	263.2	168	143.3	98.2
669	SW	166.9	162.6	145.5	ND
672	SW	248	246	275.6	262.8
676	SE	101.5	197.4	119.3	72.4
678	SW	159.6	127	145.8	99.3
679	SE	120.6	100.8	ND	45
685	NW	134.5	50.6	ND	ND
686	NE	77.7	102.4	ND	ND
689	SE	57.8	71.9	ND	70.6
693	SE	198.1	82.8	51.1	ND
694	SW	128.3	126.2	146.7	98.7
697	SE	277.2	171.7	100.3	83.1
701	NW	188.5	206.6	205.2	132.4
702	NW	80.6	149.9	139	71.2
706	SW	366	780.8	270	112.6
708	NE	53.6	34.4	ND	ND
711	NW	379.6	153.2	93.6	77.2
714	NE	102	50.6	50.9	ND
716	NE	282.8	290	248.2	194.2
717	NW	604.8	286.2	81.5	ND
719	NE	81	177.9	159.8	144.7
721	NE	884.8	1349.6	734.8	299
724	NE	59.6	64.2	ND	ND
740	SE	162	101.2	76.3	62.7

Table 5-1
Summary of Subsurface Soil Sampling

BVID	Quadrant	0-2"	0-8"	8-16"	16-24"
741	NW	276.4	497.2	379.2	255.2
742	NW	173.8	427.2	313.8	159.3
744	NE	431.6	532.4	606	522.8
756	NE	101.5	74.4	ND	37.1
761	NE	82.7	251	134.5	ND
765	NW	146.9	88.5	60.3	58.6
766	NE	41.7	ND	ND	88.1
768	SE	686.4	264	208	267.2
771	SE	556.4	148.5	229	210.2
772	SW	71.1	33.9	ND	ND
774	NE	252.8	166.3	133	52.1
775	SW	101.6	80.6	76.5	ND
777	SE	551.6	418	195.6	57.9
778	SW	195.2	152.4	241.6	136.1
780	NW	177.9	114.5	55.7	ND
781	SW	279.4	343.2	252.6	191.6
783	NE	73.3	77.5	38.3	ND
788	SE	86	64.6	ND	38
794	NE	92.5	74.5	ND	56.9
796	SW	106.9	149.1	128.6	60.5
801	NE	273.4	112.4	73.6	63.4
806	NE	527.2	80.1	ND	ND
810	SW	82.6	64.7	47.3	ND
813	SE	147.9	108.4	63.5	38.2
818	SW	1560	415.2	324.6	68.5
820	SE	208.2	269.8	114.8	109.7
821	NW	130.4	338.6	149.4	ND
823	NW	ND	33.4	ND	ND
824	SE	156.5	220	342.2	150.3
827	SE	ND	60.8	48.5	ND
829	NE	191.7	179.7	112.3	65.7
831	SE	127.7	174.4	45.4	ND
832	NW	99.5	168.7	107	74.1
837	NE	307.8	384.4	287	127
841	SW	202.6	176.6	64.3	54.5
843	SE	194.1	116.2	70.5	ND
844	SE	340	247.4	88.8	ND
845	NW	160.3	76.8	59.8	ND
847	NE	512	90.9	ND	37.2
851	SE	138	75.8	75.2	49.2
852	SW	302	162	86.6	ND
853	NW	101.6	123.5	ND	59.7
861	NW	273.2	229.4	199	87.9
866	SE	63.7	105	116.3	38.6
867	SE	975.2	175.3	62.9	45.6
868	NE	ND	55.4	45.6	69.8
873	SW	126.7	117	92.4	94.2
876	NE	185.9	186	136.6	61.8
879	NW	343.6	212.4	95.3	39.9
880	NW	ND	ND	ND	ND

Table 5-1
Summary of Subsurface Soil Sampling

BVID	Quadrant	0-2"	0-8"	8-16"	16-24"
885	SW	218.2	43.1	86.4	59
889	NE	69.2	ND	ND	43.3
892	NW	68.4	70.9	63.2	ND
897	NE	453.2	699.2	450.8	230.2
898	SE	167.5	94.4	61.4	ND
899	NE	48.2	70.8	ND	37.6
901	SW	157.1	ND	ND	ND
905	SE	169.1	224.8	125.8	170.4
906	NW	536	211.8	177.8	ND
908	NE	ND	35.5	ND	ND
909	SE	336.2	182.3	75	ND
911	NE	137	82.2	58.5	77.3
915	NW	135.6	98.2	72.9	ND
916	NE	95.9	52.3	49.6	ND
925	SW	59.5	60.1	63.7	33.3
929	SE	182	135.9	131.3	ND
936	SW	79.4	39.6	ND	ND
941	NW	120.1	56.7	ND	59.9
942	NW	81.9	85.4	128.7	95.4
946	NW	349.2	276.6	183.1	97.4
948	SE	82.7	96.6	65.3	
949	NW	295.6	114.3	ND	75.8
950	SE	335.2	230.4	153.5	128.4
953	SW	100.4	ND	ND	ND
954	NE	304	494	229	127.9
956	NW	255	77.5	ND	ND
957	SW	ND	78.4	100.9	ND
958	NW	70.1	92.1	91	123.7
959	NW	66.9	34	46.3	60.4
962	SW	50.6	52.1	59.5	ND
964	SE	58.6	ND	ND	ND
965	NE	108	382.8	60.4	ND
966	NE	233.4	208.8	89.3	65.9
967	NW	198.5	332.6	320.6	598.8
971	SW	96.9	94.4	44.7	37.6
975	SW	303.2	296.8	208.4	131.3
976	NW	98.7	124.4	ND	45.6
984	NW	100.2	87.3	89.5	60.2
997	SE	233.4	287.8	82.3	54.9
1001	NW	263.2	196.8	52.1	110.4
1002	NE	ND	85.9	60.1	41.3
1008	SE	106.4	ND	289.6	67.9
1010	NE	48.8	48.3	41.9	123
1011	NE	451.6	190.8	43.2	65.8
1019	NE	91	ND	ND	ND
1021	NW	189.3	139.2	89.6	46
1025	SW	98.2	41.4	200.2	95.4
1028	NW	138	162.7	82.2	46.2
1030	SW	43.7	135.1	76.4	79.6
1035	NW	103.6	135.8	ND	ND

Table 5-1
Summary of Subsurface Soil Sampling

BVID	Quadrant	0-2"	0-8"	8-16"	16-24"
1036	NW	37	86.4	ND	ND
1039	NE	506.4	353.2	122.1	108.2
1044	NE	201.4	54	151.4	141.8
1049	SE	211.2	111	72.2	38.9
1050	SE	117.9	175.4	224.6	970.4
1052	NE	180	87	61.1	38.4
1058	NW	69.3	36	ND	56.3
1060	SW	42.8	63.3	ND	63.8
1061	SE	214.8	163.7	71.7	35.8
1062	NE	365.2	228	127.8	ND
1063	SW	97	85.4	51.2	ND
1065	NE	64.3	107	112	115.3
1066	NW	71.7	85.6	48.4	69.6
1067	NE	ND	60	ND	ND
1068	SW	496	376	142.2	ND
1072	SW	401	351.4	316	406.6
1074	SE	126.6	93.7	63.2	ND
1077	NE	340.6	246	222	182.7
1078	NW	233.2	154.2	149.4	131.9
1079	NE	146.7	101.3	80.9	57.1
1082	SW	39.4	39.2	ND	ND
1083	NE	134.2	329.8	84.1	67.6
1084	NE	94.2	191.3	232.6	221.2
1085	SE	181.2	ND	ND	147.6
1089	SE	388.4	212.6	240	126.5
1090	SE	49.5	136.2	107.7	ND
1100	NW	105	118	82.9	64.9
1112	NE	349.2	83.8	ND	ND
1114	NW	312.4	407.2	357.4	342.6
1115	NW	262.6	155.9	ND	81.7
1120	NW	ND	ND	ND	ND
1121	NW	198.3	253.2	199.4	83.7
1125	SE	358.4	112.7	156.9	101.3
1130	NE	308	343.6	219.2	129
1132	SW	228.8	169.3	60.8	ND
1135	NE	50.3	ND	ND	ND
1144	NE	148.5	116.2	97.3	150.8
1145	SW	113	177.3	80	45
1148	NW	ND	ND	36.1	ND
1150	SW	108	66.8	79.5	160.8
1152	SW	ND	ND	ND	47.3
1153	NW	390.4	658.8	673.2	380.8
1154	NW	139.8	343.2	401	348.8
1155	NW	84.5	165.2	97.2	72.8
1163	SW	39.2	65.6	46.9	45.3
1164	SW	196.7	103.5	79.6	ND
1166	SW	86.5	47.1	52.6	66.1
1169	NW	385.4	356.2	367.2	320
1170	NW	62.7	105.4	45.1	71
1176	SE	90.8	61.4	133.1	56.1

Table 5-1
Summary of Subsurface Soil Sampling

BVID	Quadrant	0-2"	0-8"	8-16"	16-24"
1180	SE	148.9	80.8	33.8	91
1181	SW	65.3	56	ND	ND
1193	SE	256	240.4	113.8	118.8
1194	SW	83.3	124	92.9	52.8
1197	SE	293.6	402	360.2	253.2
1198	NE	ND	93.4	103.5	67.1
1202	NE	293.2	424.4	325	174.8
1203	SE	107.2	146.3	ND	55.5
1205	NE	315.6	243.2	219.4	186.1
1210	NW	149	125.1	178	117.7
1211	NE	ND	50.3	ND	ND
1212	SE	ND	62.8	ND	57.4
1213	SE	372.6	141.3	95.5	78.3
1216	NW	255.4	245.8	195.8	97.2
1218	NW	79.1	ND	66.2	ND
1222	SE	216.4	98.2	61	ND
1225	SE	106.9	107	88.3	ND
1227	NE	82.7	107.8	ND	ND
1228	SE	54	73.4	ND	ND
1229	NE	768.8	287.4	472.4	362
1233	SW	151.4	254	192.4	99.9
1234	NE	135.8	ND	ND	ND
1237	SE	396.8	159.6	65.4	40.9
1239	NE	102.6	305	211.8	281.8
1241	SW	ND	131.9	51.2	48
1243	SE	102.5	207.6	119.1	183
1245	SE	110.5	81.3	34.1	ND
1247	SW	213.6	133.2	143.7	95.7
1254	SW	238.6	139.7	ND	37.8
1258	NE	346	139	62.2	ND
1262	SW	155	153.1	211.8	188.7
1264	NE	160.4	123.1	97.8	112.8
1267	SE	145.6	222	123	ND
1273	NE	600.4	132.3	ND	ND
1274	NW	37.4	74.5	94.6	55.2
1279	SW	309.4	67	56.5	117.5
1281	SW	226.8	ND	54.9	ND
1282	NW	189.9	70.7	41	ND
1287	SE	79	90.3	ND	ND
1288	SW	69.1	238.2	313	523.2
1295	NW	474	319.4	83.3	45.8
1300	NE	235	133.4	ND	ND
1302	NE	133.9	109.4	ND	ND
1303	SW	51.7	ND	ND	ND
1307	SW	48.3	ND	ND	ND
1309	NE	166.1	148.5	93.9	56.4
1312	SW	293.6	163.4	97.2	106.4
1313	SW	504	147.2	106.9	131.6
1315	SW	392	384	394.4	245.4
1318	NE	64.7	56.2	ND	ND

Table 5-1
Summary of Subsurface Soil Sampling

BVID	Quadrant	0-2"	0-8"	8-16"	16-24"
1321	SE	840.8	178.1	181.9	201.4
1326	SE	450.4	718.8	448.8	259.8
1328	NW	254.6	156.5	167.8	120.4
1332	SE	164.9	188.5	238	226.2
1336	SW	249.8	101.2	59.9	73.5
1343	NW	359	111.2	55.1	ND
1347	SW	272	353.4	135.7	55.8
1350	NE	222	111.3	50.2	71
1351	NW	1360	323.2	172.1	82.5
1352	SE	704.4	352	155.5	62.9
1356	SE	251.8	112.7	86.8	ND
1359	NE	197.7	195.5	68.9	ND
1360	SW	77.4	147.4	139.1	98.6
1361	NW	44.6	ND	ND	ND
1362	NW	149.3	179.8	73.8	83.7
1366	SW	100.7	48.1	ND	47.8
1369	NW	126.7	156.6	93.6	64.3
1370	NE	217.8	211.2	228.4	134.8
1372	NE	358.2	230.4	185.6	135.5
1373	SW	198.2	356.4	63.3	64.2
1378	SE	428	128.7	76.5	88.1
1382	NE	ND	65.1	ND	ND
1385	NW	414	244.8	240.6	163.7
1392	SE	ND	ND	ND	ND
1398	NE	551.2	400.2	236.8	140.4
1402	NE	86.6	69.7	ND	57.6
1409	NW	ND	77.5	85.1	53.7
1412	NW	ND	44.4	ND	66.4
1415	SE	66.4	ND	ND	ND
1416	SE	65.2	105.7	92.2	ND
1427	SE	194.3	186.7	169.1	97.8
1433	SE	214.6	126.5	56	96.3
1434	SE	195.6	116.3	104.9	74
1437	SW	105.1	118.2	68.4	ND
1439	NW	91.7	257.8	111.1	55.7
1445	NE	207.2	106.2	ND	ND
1447	NW	291.4	389	153.7	78.4
1453	SW	129.8	113.8	ND	98.4
1454	SW	ND	ND	ND	ND
1459	NE	126.1	90.7	139.4	63.5
1460	NW	183.6	50.7	28.6	146.8
1463	SE	56.6	42.6	ND	ND
1468	NE	104.9	481.6	580.4	140.4
1472	NW	189.8	125.6	81.6	78.3
1473	NW	146.2	172.2	78.6	33.6
1478	NW	251.8	369.2	205.2	81.5
1483	NW	67.6	55.4	93.9	107.5
1485	NE	ND	ND	ND	43
1487	NW	70.7	58	134.8	ND
1489	NW	179.6	192.3	179.9	153.9

Table 5-1
Summary of Subsurface Soil Sampling

BVID	Quadrant	0-2"	0-8"	8-16"	16-24"
1493	NE	54.8	ND	ND	ND
1495	NW	56.8	206.2	123.3	ND
1500	SE	183.2	68.7	ND	ND
1501	SW	ND	52.3	ND	ND
1502	SE	ND	46.3	ND	59.2
1503	NW	92.4	76.1	71.8	58.1
1504	SE	ND	70.9	41.6	ND
1508	SW	442.4	382	363.4	72.6
1510	NE	331.6	193.9	260.4	53.9
1511	SW	104.9	365.8	333.8	87.1
1516	NW	611.2	653.6	207.2	ND
1517	SE	233.8	118	52.1	ND
1518	SW	46.7	ND	28.9	ND
1519	NW	502	933.6	704.8	184.2
1520	SW	180.1	78	75	43.1
1524	SE	313	277.2	170.7	37.2
1527	NW	468.8	429.6	313.4	197.1
1532	NW	ND	ND	ND	ND
1535	NE	293.8	140.6	31.3	67.5
1538	SE	ND	62.9	ND	ND
1539	SW	327.8	374.2	50.8	91
1541	NW	40.9	ND	ND	ND
1546	SE	246.2	185.1	107.2	47.5
1547	SE	75	ND	ND	ND
1552	NE	130.4	60.5	ND	ND
1554	NW	100.4	178.5	133.9	67
1558	SE	107.3	106.2	117.2	174.9
1559	NW	446.4	574.4	244.2	ND
1566	NW	461.2	362.2	147	104.6
1569	NE	665.6	343.2	469.2	394.6
1573	NW	54.3	ND	ND	54.9
1579	NE	65.3	36.4	ND	117.1
1580	SE	ND	82.2	ND	ND
1587	SE	233.4	405.2	194	115.2
1589	SW	534.4	226.6	75.4	101.7
1590	SW	508.4	541.2	513.2	157.8
1592	NE	341.6	348.6	287	259
1593	NE	163.2	497.6	153	157.7
1599	SE	322.8	557.6	500.8	57.2
1602	SE	180	166.8	ND	ND
1604	SW	67.9	81.8	86.7	ND
1605	NW	309.2	325	138	171.6
1609	NW	1089.6	777.2	130.7	162.8
1616	NW	980	753.6	1029.6	481.2
1617	NE	218.8	45.7		ND
1621	NW	822.4	107.1	91.2	43.6
1624	NW	237.4	227.2	103.1	ND
1630	NW	92.6	111.7	123.8	78.2
1631	SE	262	256.8	247.2	304.2
1638	SW	116.8	104.1	66.9	ND

Table 5-1
Summary of Subsurface Soil Sampling

BVID	Quadrant	0-2"	0-8"	8-16"	16-24"
2016	F2	28.4	29.5	ND	ND
2017	B2	142.6	85.3	ND	ND
2018	F2	279.2	91.5	61	34.5
3015	B2	102.3	108.7	135.2	32.8
3033	F2	281.4		408.4	90.4
5013	F2	62.1		34	ND
5033	B1	85.5	49.8	ND	ND
5053	F1	153.6	280.2	147.2	35.1

6.0 Summary and Conclusions

6.1 Summary

6.1.1 Nature and Extent of Contamination

Between March 1999 and January 2004, surface soil samples were collected from 15,012 residential, EBL, and child care properties within the Omaha Lead site and analyzed for lead. Of the 15,012 properties included in the investigation, 5,172 properties had at least one non-foundation sample with a total lead concentration above 400 ppm, EPA's screening level for residential lead contamination sites. This represents a rate exceeding 400 ppm of 34 percent. It should be noted that the exceedance rate increases to approximately 40 percent when only the results from the focus area are considered.

6.1.2 Fate and Transport

Previous investigations determined that the lead contamination on the site resulted from air deposition originating at industrial properties in downtown Omaha. These facilities have been closed and no other potential sources that would influence residential lead concentrations at the site have been identified.

An investigation of subsurface soil lead concentrations in residential yards indicates that the lead has not migrated beyond the top 2-12 inches of soil. Conditions within the soil are not conducive to further migration.

6.2 Recommendations

Additional efforts at the site should include widespread sampling of residential properties located on the site. Sampling efforts have revealed a large number of homes with elevated lead concentrations in surface soils throughout the site. Sampling and analysis of soil from individual properties on the site is needed to determine the full extent of the contamination, and to identify each individual property within the site that exceeds EPA's action level as determined by the Risk Assessment.

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Appendix A
Sample Results

Appendix A
Table A-1
Results of All Surface Soil Samples Collected by Jacobs Engineering
Site Inspection
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	Method	Drip	Yard-NE	Yard-SE	Yard-SW	Yard-NW	Garden	Play
1	XRF	39	111.6	68.5	64.5	107	NA	NA
1	Lab	NA	NA	NA	NA	NA	NA	NA
2	XRF	94	47.9	58.2	203.5	234.1	93	NA
2	Lab	NA	NA	73	NA	191	NA	NA
3	XRF	66.4	65.6	ND	83.5	57.4	NA	NA
3	Lab	NA	NA	NA	NA	42.9	NA	NA
4	XRF	NA	150.1	67	363.2	69.4	NA	NA
4	Lab	NA	NA	NA	NA	NA	NA	NA
5	XRF	746	176.6	106.5	297.7	311.6	NA	190.6
5	Lab	NA	NA	NA	257	NA	NA	NA
6	XRF	NA	242.3	698	239.1	345.7	NA	NA
6	Lab	NA	NA	NA	NA	NA	NA	NA
7	XRF	97.5	158.1	368.6	279.6	100.1	NA	NA
7	Lab	NA	NA	NA	NA	NA	NA	NA
8	XRF	219.8	191.6	68	56.2	216.6	NA	NA
8	Lab	NA	NA	NA	NA	NA	NA	NA
9	XRF	345.6	317.3	683.2	252	274.7	NA	NA
9	Lab	326	848	NA	NA	NA	NA	NA
10	XRF	133.6	46	NA	69.9	ND	NA	NA
10	Lab	NA	NA	NA	NA	NA	NA	NA
11	XRF	NA	312	492	662	NA	228	NA
11	Lab	NA	NA	NA	NA	NA	NA	NA
12	XRF	308.6	113.8	73.1	131	ND	NA	NA
12	Lab	NA	NA	NA	NA	NA	NA	NA
13	XRF	590.7	759.5	373	231	782.4	NA	NA
13	Lab	NA	NA	NA	203	NA	NA	NA
14	XRF	581.5	383	NA	NA	628.4	NA	NA
14	Lab	NA	NA	NA	NA	NA	NA	NA
15	XRF	769.5	2308.8	NA	NA	1349.5	NA	NA
15	Lab	NA	3160	NA	NA	1970	NA	NA
16	XRF	923.2	NA	NA	204.8	148.8	NA	NA
16	Lab	1240	NA	NA	NA	NA	NA	NA
17	XRF	2889.6	488	612	NA	396.3	NA	NA
17	Lab	4090	NA	NA	NA	NA	NA	NA
18	XRF	284.7	148.3	159	170.3	63.4	NA	NA
18	Lab	NA	NA	NA	NA	NA	NA	NA
19	XRF	NA	127.6	NA	NA	161.6	80	NA
19	Lab	NA	NA	NA	NA	NA	NA	NA
20	XRF	366.3	82.6	92.5	33.7	91.8	NA	NA
20	Lab	NA	NA	NA	NA	50.4	NA	NA
21	XRF	NA	NA	NA	89.5	72.9	NA	NA
21	Lab	NA	NA	NA	NA	NA	NA	NA
22	XRF	109.9	86.3	492.3	44.2	47.5	NA	NA
22	Lab	NA	NA	268	NA	NA	NA	NA
23	XRF	189.1	71.3	191.1	187.1	81.5	NA	NA
23	Lab	NA	NA	NA	NA	NA	NA	NA
24	XRF	97.6	349.6	112.9	94.4	92.5	NA	NA

Appendix A
Table A-1
Results of All Surface Soil Samples Collected by Jacobs Engineering
Site Inspection
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	Method	Drip	Yard-NE	Yard-SE	Yard-SW	Yard-NW	Garden	Play
24	Lab	NA	NA	NA	NA	NA	NA	NA
25	XRF	139.1	93.5	62.5	90.3	178.3	NA	NA
25	Lab	NA	NA	NA	NA	83.3	NA	NA
26	XRF	56.7	34.7	109	120.4	ND	NA	NA
26	Lab	NA	NA	NA	NA	NA	NA	NA
27	XRF	55.7	111.3	40.7	ND	47.5	NA	NA
27	Lab	NA	NA	NA	NA	NA	NA	NA
28	XRF	544.7	206.1	104.1	177.6	188.5	NA	NA
28	Lab	1340	NA	NA	NA	NA	NA	NA
29	XRF	952.7	236.3	239.8	NA	NA	NA	494.7
29	Lab	NA	NA	NA	NA	NA	NA	437
30	XRF	181.6	68.5	83.1	134.8	111.8	163.3	105
30	Lab	NA	NA	NA	NA	NA	NA	NA
31	XRF	281.6	NA	240.3	245.3	107.5	NA	NA
31	Lab	NA	NA	NA	NA	NA	NA	NA
32	XRF	439.6	NA	344.2	405	323.7	NA	NA
32	Lab	NA	NA	NA	NA	NA	NA	NA
33	XRF	NA	NA	466.7	NA	NA	NA	663.5
33	Lab	NA	NA	NA	NA	NA	NA	NA
34	XRF	NA	116.3	271.3	67.4	103	NA	NA
34	Lab	NA	NA	NA	NA	NA	NA	NA
35	XRF	1220	125.5	67.6	67	417.6	75.5	ND
35	Lab	1610	NA	NA	NA	247	NA	NA
36	XRF	660.4	356	185.3	166.1	326	NA	NA
36	Lab	NA	NA	NA	NA	NA	NA	NA
37	XRF	NA	116	183.5	73	84.5	NA	NA
37	Lab	NA	NA	NA	NA	NA	NA	NA
38	XRF	431.6	119.5	322.7	99.4	150	NA	NA
38	Lab	NA	NA	NA	NA	NA	NA	NA
39	XRF	NA	144.3	118	461.6	302	126.8	NA
39	Lab	NA	NA	NA	355	239	NA	NA
40	XRF	524.4	266.6	189.6	257.2	148.6	299	NA
40	Lab	NA	NA	NA	NA	NA	NA	NA
41	XRF	74.5	514.4	159.1	301.3	337.6	366.2	NA
41	Lab	NA	648	NA	NA	NA	NA	NA
42	XRF	1380	252	556.4	997.5	ND	NA	52.5
42	Lab	1340	NA	NA	NA	NA	NA	NA
43	XRF	NA	83.1	NA	NA	NA	NA	NA
43	Lab	NA	NA	NA	NA	NA	NA	NA
46	XRF	70.3	100.5	130	201.1	NA	NA	NA
46	Lab	NA	NA	NA	NA	NA	NA	NA
47	XRF	135.3	287.2	68.1	107.5	193.6	NA	171.8
47	Lab	NA	NA	NA	NA	NA	NA	NA
48	XRF	176.8	261.2	NA	317.3	325.3	NA	NA
48	Lab	NA	NA	NA	NA	NA	NA	NA
49	XRF	906.4	140.6	237	243.1	124	NA	NA
49	Lab	1180	146	NA	NA	NA	NA	NA

Appendix A
Table A-1
Results of All Surface Soil Samples Collected by Jacobs Engineering
Site Inspection
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	Method	Drip	Yard-NE	Yard-SE	Yard-SW	Yard-NW	Garden	Play
50	XRF	ND	ND	ND	ND	51.5	NA	NA
50	Lab	NA	NA	NA	NA	NA	NA	NA
51	XRF	71.3	41.5	ND	49.2	ND	39.2	NA
51	Lab	NA	NA	NA	NA	NA	NA	NA
52	XRF	49.5	61	35.9	77.6	ND	NA	NA
52	Lab	NA	NA	NA	NA	NA	NA	NA
53	XRF	ND	ND	ND	34.5	63.7	NA	NA
53	Lab	NA	NA	NA	NA	NA	NA	NA
54	XRF	1060	470.7	737.2	472.3	404	NA	NA
54	Lab	1150	NA	NA	NA	NA	NA	NA
55	XRF	332.6	212.1	132.6	260.7	315	NA	NA
55	Lab	NA	NA	NA	NA	NA	NA	NA
56	XRF	238.3	137.8	694	58.2	235	NA	NA
56	Lab	NA	NA	749	NA	NA	NA	NA
57	XRF	620.7	76	127.3	71.3	311	133.3	188.6
57	Lab	NA	NA	NA	NA	NA	NA	NA
58	XRF	ND	93.8	ND	31.3	ND	NA	NA
58	Lab	NA	NA	NA	NA	NA	NA	NA
59	XRF	1849.5	633.5	196.3	244.8	249.8	NA	NA
59	Lab	7320	942	NA	NA	NA	NA	NA
60	XRF	1229.5	142.6	269	142.8	122	NA	NA
60	Lab	NA	NA	NA	NA	NA	NA	NA
61	XRF	ND	ND	NA	NA	ND	NA	NA
61	Lab	NA	NA	NA	NA	NA	NA	NA
63	XRF	3318.3	170.6	228.3	NA	NA	NA	939.2
63	Lab	10700	259	NA	NA	NA	NA	1190
64	XRF	NA	382.2	209.3	177.3	NA	NA	NA
64	Lab	NA	NA	185	NA	NA	NA	NA
65	XRF	96.1	59.5	ND	186.5	82.6	NA	NA
65	Lab	NA	NA	NA	NA	NA	NA	NA
66	XRF	415.2	301.2	NA	NA	190.8	NA	NA
66	Lab	NA	NA	NA	NA	NA	NA	NA
67	XRF	2080	696.4	316	NA	674	NA	NA
67	Lab	3450	970	NA	NA	697	NA	NA
68	XRF	320.2	351.3	170.3	ND	161.3	NA	NA
68	Lab	NA	NA	NA	NA	NA	NA	NA
69	XRF	65.6	NA	181.5	NA	NA	NA	NA
69	Lab	NA	NA	NA	NA	NA	NA	NA
70	XRF	2520	424	366.6	289.2	692	NA	NA
70	Lab	NA	NA	NA	NA	NA	NA	NA
71	XRF	NA	NA	NA	NA	NA	NA	ND
71	Lab	NA	NA	NA	NA	NA	NA	NA
73	XRF	NA	NA	ND	NA	NA	NA	NA
73	Lab	NA	NA	14.6	NA	NA	NA	NA
74	XRF	63	64.3	ND	45.5	45.4	NA	NA
74	Lab	NA	NA	NA	NA	NA	NA	NA
75	XRF	49.5	ND	34.9	ND	NA	NA	NA

Appendix A
Table A-1
Results of All Surface Soil Samples Collected by Jacobs Engineering
Site Inspection
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	Method	Drip	Yard-NE	Yard-SE	Yard-SW	Yard-NW	Garden	Play
75	Lab	NA	NA	NA	NA	NA	NA	NA
76	XRF	4828.7	496.7	NA	1189.5	336.2	NA	NA
76	Lab	7590	NA	NA	1220	NA	NA	NA
77	XRF	1200	NA	NA	385.6	487.2	NA	NA
77	Lab	NA	NA	NA	NA	NA	NA	NA
78	XRF	48.2	NA	NA	71	ND	NA	NA
78	Lab	NA	NA	NA	30.2	NA	NA	NA
79	XRF	283	332.6	320.6	109.3	156.3	NA	NA
79	Lab	NA	NA	NA	NA	NA	NA	NA
80	XRF	NA	864.7	332.3	318.2	844.7	NA	NA
80	Lab	NA	NA	NA	NA	NA	NA	NA
81	XRF	640.4	214.1	223.3	199.1	146.8	NA	NA
81	Lab	NA	NA	NA	NA	NA	NA	NA
82	XRF	89.5	ND	ND	42.2	48.5	NA	NA
82	Lab	NA	40.2	NA	NA	NA	NA	NA
83	XRF	451.2	289.2	286.7	201.3	753.5	NA	NA
83	Lab	NA	NA	217	NA	658	NA	NA
84	XRF	NA	969.5	218	247.6	736.7	NA	NA
84	Lab	NA	1180	NA	NA	NA	NA	NA
85	XRF	927.2	NA	324.7	192.6	150	NA	341.2
85	Lab	NA	NA	306	NA	NA	NA	NA
86	XRF	446	324.3	312	525.5	365	NA	NA
86	Lab	NA	NA	NA	NA	NA	NA	NA
87	XRF	ND	73.9	76.1	340.6	NA	NA	NA
87	Lab	NA	NA	NA	244	NA	NA	NA
88	XRF	899.2	239	175.5	117.6	159.6	NA	NA
88	Lab	893	NA	NA	NA	NA	NA	NA
89	XRF	1460	654.7	502.7	744	555.2	NA	NA
89	Lab	NA	NA	NA	NA	559	NA	NA
90	XRF	NA	291.2	200.1	NA	258.6	NA	317.6
90	Lab	NA	NA	NA	NA	NA	NA	NA
91	XRF	145.8	56.7	39.2	85.1	NA	NA	NA
91	Lab	NA	NA	NA	NA	NA	NA	NA
92	XRF	37.5	ND	32.5	ND	ND	NA	NA
92	Lab	NA	NA	49.2	NA	NA	NA	NA
93	XRF	82.8	79.1	137.3	192	140	NA	69.8
93	Lab	NA	NA	NA	NA	NA	NA	NA
94	XRF	ND	75.6	82.3	ND	ND	NA	NA
94	Lab	NA	NA	NA	NA	NA	NA	NA
95	XRF	46.5	ND	65.5	ND	ND	NA	NA
95	Lab	NA	NA	NA	NA	NA	NA	NA
96	XRF	378.2	NA	506	367	307.6	NA	NA
96	Lab	NA	NA	NA	NA	NA	NA	NA
97	XRF	286	310.2	NA	404	761.2	253.3	NA
97	Lab	NA	NA	NA	NA	NA	NA	NA
98	XRF	ND	ND	46.5	57.2	51.7	NA	NA
98	Lab	NA	NA	NA	NA	NA	NA	NA

Appendix A
Table A-1
Results of All Surface Soil Samples Collected by Jacobs Engineering
Site Inspection
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	Method	Drip	Yard-NE	Yard-SE	Yard-SW	Yard-NW	Garden	Play
99	XRF	170.1	NA	NA	82.1	80	117.1	NA
99	Lab	NA	NA	NA	NA	NA	109	NA
100	XRF	NA	59.2	52.7	59.5	ND	NA	NA
100	Lab	NA	NA	NA	NA	NA	NA	NA
101	XRF	NA	29.7	50.4	49.7	60.4	NA	NA
101	Lab	NA	NA	NA	NA	NA	NA	NA
102	XRF	580.7	84.5	344.3	263	251.1	NA	NA
102	Lab	NA	NA	315	NA	NA	NA	NA
103	XRF	87.1	55.9	50.5	62.7	93.5	NA	NA
103	Lab	NA	NA	NA	NA	NA	NA	NA
104	XRF	ND	60.7	52.7	75.8	80.1	NA	NA
104	Lab	NA	NA	NA	NA	NA	NA	NA
105	XRF	75.1	52.7	82	87.8	NA	NA	NA
105	Lab	NA	NA	NA	90.3	NA	NA	NA
106	XRF	416.3	204.1	228.3	786.7	154.3	NA	109.9
106	Lab	NA	NA	NA	759	NA	NA	NA
107	XRF	127.5	594.7	761.2	433.2	1249.5	NA	NA
107	Lab	NA	NA	NA	NA	1260	NA	NA
108	XRF	ND	82.8	69.8	64.8	ND	NA	NA
108	Lab	NA	NA	NA	NA	NA	NA	NA
109	XRF	151.8	382.7	156	94.3	148.1	NA	NA
109	Lab	NA	NA	NA	NA	NA	NA	NA
110	XRF	NA	227.3	355.2	236.1	150.3	NA	NA
110	Lab	NA	NA	NA	NA	110	NA	NA
111	XRF	NA	420.7	404.3	358.2	NA	NA	NA
111	Lab	NA	NA	NA	NA	NA	NA	NA
112	XRF	200.1	269.2	393.2	149.5	223.1	220.8	NA
112	Lab	NA	NA	NA	NA	NA	NA	NA
113	XRF	1300	1668.8	986.4	471.6	584	NA	NA
113	Lab	NA	NA	NA	NA	534	NA	NA
114	XRF	2769.6	894.4	551.5	1469.5	339.7	NA	NA
114	Lab	7610	NA	NA	1410	NA	NA	NA
116	XRF	168.6	138.8	156	171.3	427.6	NA	NA
116	Lab	NA	NA	NA	NA	NA	NA	NA
117	XRF	NA	ND	NA	NA	NA	NA	NA
117	Lab	NA	16.2	NA	NA	NA	NA	NA
118	XRF	84.3	55.2	60	153.1	93.1	97	NA
118	Lab	NA	NA	NA	NA	NA	NA	NA
119	XRF	1349.5	398.2	432.3	385	1549.5	NA	774.7
119	Lab	NA	NA	NA	NA	1320	NA	804
120	XRF	1180	NA	690.7	1149.5	NA	NA	NA
120	Lab	NA	NA	NA	NA	NA	NA	NA
121	XRF	62.9	NA	ND	ND	NA	NA	58.5
121	Lab	NA	NA	74	NA	NA	NA	NA
122	XRF	207.6	279.3	278.3	125.5	273.7	NA	NA
122	Lab	NA	NA	NA	NA	NA	NA	NA
123	XRF	604	115.6	292.6	449.6	532	NA	NA

Appendix A
Table A-1
Results of All Surface Soil Samples Collected by Jacobs Engineering
Site Inspection
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	Method	Drip	Yard-NE	Yard-SE	Yard-SW	Yard-NW	Garden	Play
123	Lab	NA	NA	NA	NA	641	NA	NA
124	XRF	691.5	492.7	154.5	206.8	116	NA	NA
124	Lab	NA	NA	NA	NA	NA	NA	NA
125	XRF	ND	ND	NA	ND	ND	NA	29.8
125	Lab	NA	NA	NA	NA	20	NA	NA
126	XRF	NA	379.7	NA	182.6	239.8	NA	NA
126	Lab	NA	NA	NA	NA	NA	NA	NA
127	XRF	1220	972	110.1	NA	422.3	NA	211.6
127	Lab	5930	2030	NA	NA	382	NA	NA
129	XRF	NA	215	276	NA	208.8	NA	NA
129	Lab	NA	NA	NA	NA	NA	NA	NA
130	XRF	1729.5	NA	NA	206.8	120.5	NA	NA
130	Lab	NA	NA	NA	NA	NA	NA	NA
131	XRF	NA	269.2	422	403.7	415.2	NA	NA
131	Lab	NA	NA	NA	NA	NA	NA	NA
132	XRF	NA	459.2	323.7	273.6	313.6	NA	NA
132	Lab	NA	424	NA	NA	NA	NA	NA
133	XRF	507.2	313.6	340.7	NA	NA	276	NA
133	Lab	NA	NA	NA	NA	NA	NA	NA
134	XRF	485.2	732.4	656	437.6	430	NA	NA
134	Lab	NA	NA	670	NA	NA	NA	NA
135	XRF	NA	363	486.3	NA	334.3	NA	NA
135	Lab	NA	NA	NA	NA	NA	NA	NA
136	XRF	NA	488.3	490	676	NA	NA	NA
136	Lab	NA	NA	NA	NA	NA	NA	NA
137	XRF	2779.1	NA	NA	972	600.7	NA	NA
137	Lab	3490	NA	NA	NA	603	NA	NA
138	XRF	1779.1	446	NA	360.2	294.2	NA	NA
138	Lab	2870	NA	NA	NA	NA	NA	NA
139	XRF	459.2	722	416.7	409.3	499.2	NA	NA
139	Lab	NA	NA	450	NA	NA	NA	NA
140	XRF	1189.5	302.3	372.3	245	360.7	NA	NA
140	Lab	NA	NA	NA	222	NA	NA	NA
141	XRF	ND	207.1	120.9	ND	100.3	51	NA
141	Lab	NA	177	NA	NA	NA	NA	NA
142	XRF	190	164.3	212.1	197.1	111	347	NA
142	Lab	NA	222	NA	NA	NA	NA	NA
143	XRF	NA	NA	466	228	260.6	NA	NA
143	Lab	NA	NA	NA	NA	NA	NA	NA
144	XRF	NA	NA	ND	54.4	NA	NA	NA
144	Lab	NA	NA	18.2	23.2	NA	NA	NA
145	XRF	NA	320	274.3	NA	364.3	NA	NA
145	Lab	NA	NA	NA	NA	NA	NA	NA
146	XRF	584	147.5	102.5	117.5	395	NA	NA
146	Lab	NA	NA	109	NA	NA	NA	NA
147	XRF	1280	342.6	763.2	NA	4928	442	543.2
147	Lab	NA	NA	NA	NA	NA	NA	NA

Appendix A
Table A-1
Results of All Surface Soil Samples Collected by Jacobs Engineering
Site Inspection
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	Method	Drip	Yard-NE	Yard-SE	Yard-SW	Yard-NW	Garden	Play
148	XRF	911.2	434	333.6	540.7	326	NA	NA
148	Lab	NA	NA	NA	NA	NA	NA	NA
149	XRF	1060	640.7	NA	821.5	2849.6	NA	NA
149	Lab	2430	1010	NA	696	2480	NA	NA
150	XRF	3129.6	402.6	812.4	207.8	144.1	NA	NA
150	Lab	NA	NA	630	NA	NA	NA	NA
151	XRF	NA	164.1	313.6	403.2	620	NA	NA
151	Lab	NA	NA	NA	NA	NA	NA	NA
152	XRF	657.2	305.6	699.2	504.7	782.7	NA	NA
152	Lab	NA	NA	NA	NA	1370	NA	NA
153	XRF	204.8	79.3	56.7	174.6	NA	NA	67.1
153	Lab	NA	NA	NA	NA	NA	NA	NA
154	XRF	474	179.3	72.4	NA	NA	NA	103.8
154	Lab	NA	NA	NA	NA	NA	NA	NA
155	XRF	NA	744.4	374.3	NA	298.7	NA	NA
155	Lab	NA	650	NA	NA	NA	NA	NA
156	XRF	NA	NA	NA	253.3	196.6	155.6	NA
156	Lab	NA	NA	NA	NA	NA	NA	NA
157	XRF	1600	445.2	NA	468.7	350.7	NA	NA
157	Lab	NA	NA	NA	4460	NA	NA	NA
158	XRF	NA	496	497.6	NA	NA	NA	NA
158	Lab	NA	NA	449	NA	NA	NA	NA
159	XRF	340.7	91.5	68.6	132.6	197.1	NA	NA
159	Lab	NA	NA	NA	NA	NA	NA	NA
160	XRF	350.6	NA	136.6	134.1	248.6	NA	NA
160	Lab	NA	NA	NA	NA	NA	NA	NA
161	XRF	NA	NA	NA	NA	320.3	NA	NA
161	Lab	NA	NA	NA	NA	NA	NA	NA
162	XRF	NA	170.1	621.5	NA	NA	NA	NA
162	Lab	NA	NA	NA	NA	NA	NA	NA
163	XRF	85.3	NA	NA	287.3	299.7	NA	NA
163	Lab	NA	NA	NA	NA	NA	NA	NA
164	XRF	68	41.9	ND	39.2	ND	NA	NA
164	Lab	NA	NA	NA	NA	NA	NA	NA
165	XRF	NA	410.3	503.2	660.7	NA	NA	NA
165	Lab	NA	NA	NA	NA	NA	NA	NA
166	XRF	NA	665.5	NA	NA	442	113.5	NA
166	Lab	NA	NA	NA	NA	NA	NA	NA
167	XRF	NA	255.3	188.6	NA	NA	NA	NA
167	Lab	NA	NA	NA	NA	NA	NA	NA
168	XRF	4988.7	1340	NA	321.6	931.2	NA	NA
168	Lab	NA	NA	NA	NA	921	NA	NA
169	XRF	NA	189.6	1509.5	412	NA	NA	NA
169	Lab	NA	NA	5380	NA	NA	NA	NA
170	XRF	1389.5	NA	1988.8	363.2	488	NA	272.3
170	Lab	1140	NA	504	NA	NA	NA	NA
171	XRF	ND	237.8	NA	991.2	358.6	NA	NA

Appendix A
Table A-1
Results of All Surface Soil Samples Collected by Jacobs Engineering
Site Inspection
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	Method	Drip	Yard-NE	Yard-SE	Yard-SW	Yard-NW	Garden	Play
171	Lab	NA	NA	NA	NA	4890	NA	NA
172	XRF	NA	398.6	488.3	594	595.5	NA	NA
172	Lab	NA	NA	NA	NA	908	NA	NA
173	XRF	NA	NA	164.6	169.1	NA	215.8	NA
173	Lab	NA	NA	147	170	NA	NA	NA
174	XRF	788.7	143.8	177.5	285.7	124.6	NA	NA
174	Lab	NA	NA	NA	NA	NA	NA	NA
175	XRF	220.3	NA	216	254.6	224.1	NA	NA
175	Lab	NA	NA	NA	NA	NA	NA	NA
176	XRF	NA	356.6	NA	NA	202.8	490.7	NA
176	Lab	NA	NA	NA	NA	NA	NA	NA
177	XRF	249.3	140.8	233.6	174.5	212.1	NA	NA
177	Lab	NA	NA	NA	NA	NA	NA	NA
178	XRF	1200	139.6	60.9	132.6	213.3	NA	NA
178	Lab	NA	NA	91.1	NA	NA	NA	NA
179	XRF	NA	NA	339.2	NA	581.2	NA	NA
179	Lab	NA	NA	NA	NA	713	NA	NA
181	XRF	NA	483.2	NA	315	314	NA	NA
181	Lab	NA	3100	NA	NA	NA	NA	NA
182	XRF	77.3	128.1	142.8	NA	182.3	NA	123.6
182	Lab	NA	NA	145	NA	143	NA	NA
183	XRF	1120	375	240	404	287	NA	NA
183	Lab	NA	NA	NA	NA	NA	NA	NA
184	XRF	NA	NA	NA	ND	NA	NA	NA
184	Lab	NA	NA	NA	19.2	NA	NA	NA
185	XRF	606.4	146.3	228	725.2	658.7	NA	NA
185	Lab	NA	NA	NA	715	NA	NA	NA
186	XRF	314.3	302	242.6	157.8	348.6	NA	NA
186	Lab	NA	NA	NA	NA	NA	NA	NA
187	XRF	776.4	232.6	173.5	185.3	443.6	NA	NA
187	Lab	NA	NA	NA	NA	NA	NA	NA
188	XRF	540.7	1029.5	337	487.2	872.7	NA	NA
188	Lab	NA	696	NA	NA	NA	NA	NA
189	XRF	652.4	NA	NA	1840	350.6	NA	NA
189	Lab	NA	NA	NA	NA	292	NA	NA
190	XRF	413.6	713.2	502.3	630.7	626	NA	NA
190	Lab	NA	NA	793	NA	NA	NA	NA
191	XRF	2080	582.7	NA	221.1	NA	NA	NA
191	Lab	8760	527	NA	NA	NA	NA	NA
192	XRF	453.6	300	363	458.3	584	NA	NA
192	Lab	NA	NA	NA	NA	NA	NA	NA
193	XRF	2160	252.6	NA	772.7	585.2	NA	NA
193	Lab	NA	NA	NA	742	NA	NA	NA
194	XRF	117	56.7	ND	ND	ND	NA	NA
194	Lab	NA	NA	NA	9.7	NA	NA	NA
195	XRF	360.3	219.8	135.3	194.6	193.5	NA	NA
195	Lab	NA	NA	NA	NA	NA	NA	NA

Appendix A
Table A-1
Results of All Surface Soil Samples Collected by Jacobs Engineering
Site Inspection
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	Method	Drip	Yard-NE	Yard-SE	Yard-SW	Yard-NW	Garden	Play
196	XRF	302	748.4	183.1	183.1	NA	NA	NA
196	Lab	NA	NA	NA	NA	NA	NA	NA
197	XRF	332	479.6	825.5	229	251.1	NA	NA
197	Lab	326	NA	NA	NA	250	NA	NA
198	XRF	5488	506.3	368	744.4	456.3	NA	NA
198	Lab	NA	NA	246	NA	NA	NA	NA
199	XRF	331.7	184	709.5	465.6	300.6	NA	NA
199	Lab	NA	204	NA	NA	NA	NA	NA
200	XRF	370	254.3	331.3	972.7	219.3	NA	NA
200	Lab	422	NA	259	NA	NA	NA	NA
201	XRF	ND	ND	NA	NA	35.2	NA	ND
201	Lab	26.1	NA	NA	NA	NA	NA	NA
202	XRF	431.6	71.4	99	69.6	129.8	ND	104.9
202	Lab	NA	NA	NA	NA	NA	ND	NA
203	XRF	NA	NA	466.7	506.7	NA	NA	NA
203	Lab	NA	NA	NA	NA	NA	NA	NA
204	XRF	816.7	552	400.3	600.4	626.7	NA	NA
204	Lab	NA	500	NA	NA	639	NA	NA
205	XRF	551.5	672	188.1	136.5	252.6	NA	NA
205	Lab	NA	NA	NA	NA	NA	NA	NA
206	XRF	1549.5	414.3	596.4	104.5	209.3	NA	NA
206	Lab	NA	NA	677	NA	NA	NA	NA
207	XRF	NA	147.3	372.7	225.8	218.1	NA	NA
207	Lab	NA	NA	NA	NA	NA	NA	NA
208	XRF	73	NA	102.9	106	NA	NA	46.4
208	Lab	NA	NA	NA	NA	NA	NA	NA
209	XRF	1948.8	203.8	385.7	333.2	300	NA	NA
209	Lab	NA	NA	NA	NA	NA	NA	NA
210	XRF	1609.5	211.6	341.7	319.3	224	NA	NA
210	Lab	NA	NA	NA	NA	NA	NA	NA
211	XRF	NA	280.7	382.3	185.8	418.7	NA	NA
211	Lab	NA	NA	NA	NA	NA	NA	NA
212	XRF	1289.5	287.3	416.3	479.6	759.5	NA	NA
212	Lab	1270	NA	NA	NA	NA	NA	NA
213	XRF	653.5	210.8	206.3	379.2	98.6	NA	NA
213	Lab	NA	NA	NA	NA	108	NA	NA
214	XRF	305	210	161.6	1089.5	1009.5	NA	NA
214	Lab	NA	NA	NA	844	NA	NA	NA
215	XRF	NA	1389.5	485.6	155.3	732.4	NA	NA
215	Lab	NA	1570	NA	NA	NA	NA	NA
216	XRF	840	534	488.7	NA	447.6	NA	NA
216	Lab	NA	503	NA	NA	NA	NA	NA
217	XRF	1469.5	NA	NA	456	421.2	NA	NA
217	Lab	NA	NA	NA	NA	NA	NA	NA
218	XRF	NA	331.7	NA	120.8	152.1	NA	NA
218	Lab	NA	NA	NA	NA	NA	NA	NA
219	XRF	1240	833.5	1140	932.7	1849.5	NA	NA

Appendix A
Table A-1
Results of All Surface Soil Samples Collected by Jacobs Engineering
Site Inspection
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	Method	Drip	Yard-NE	Yard-SE	Yard-SW	Yard-NW	Garden	Play
219	Lab	NA	NA	1540	NA	2810	NA	NA
220	XRF	1589.5	NA	624.7	911.2	451.6	NA	NA
220	Lab	NA	NA	NA	968	NA	NA	NA
221	XRF	ND	ND	ND	ND	ND	NA	NA
221	Lab	9.8	8.4	NA	NA	NA	NA	NA
222	XRF	148.3	34	ND	46.5	ND	NA	NA
222	Lab	NA	NA	NA	NA	NA	NA	NA
223	XRF	6976	136.6	545.2	553.5	88.9	NA	NA
223	Lab	21600	NA	1370	529	NA	NA	NA
224	XRF	ND	NA	ND	40.5	52.9	NA	ND
224	Lab	NA	NA	14.1	NA	NA	NA	NA
225	XRF	2080	237	498	255.1	729.2	NA	NA
225	Lab	1540	NA	NA	NA	480	NA	NA
226	XRF	1140	1009.5	NA	306	747.2	NA	NA
226	Lab	NA	NA	NA	NA	NA	NA	NA
227	XRF	1300	154.6	NA	NA	NA	NA	637.5
227	Lab	NA	NA	NA	NA	NA	NA	583
228	XRF	NA	1859.1	825.5	1580	NA	NA	NA
228	Lab	NA	NA	NA	NA	NA	NA	NA
229	XRF	504.7	545.2	704.4	211.8	NA	NA	NA
229	Lab	NA	NA	709	NA	NA	NA	NA
230	XRF	NA	NA	238.8	1089.5	840.7	NA	NA
230	Lab	NA	NA	NA	NA	NA	NA	NA
231	XRF	1540	336	266.2	163.3	311.6	NA	NA
231	Lab	NA	NA	310	NA	NA	NA	NA
232	XRF	860.7	353	504.7	400	169	NA	NA
232	Lab	NA	NA	373	NA	NA	NA	NA
233	XRF	1129.5	212.8	138.3	159.8	417.6	NA	NA
233	Lab	1210	NA	NA	NA	NA	NA	NA
234	XRF	557.2	NA	375.6	361.6	NA	NA	NA
234	Lab	NA	NA	NA	NA	NA	NA	NA
235	XRF	1760	411.6	316.2	494	449.6	NA	NA
235	Lab	NA	NA	NA	NA	NA	NA	NA
236	XRF	223.1	426	729.2	426.7	305.2	NA	NA
236	Lab	679	NA	NA	NA	NA	NA	NA
237	XRF	NA	1300	205.6	369.6	589.2	NA	367.2
237	Lab	NA	1260	NA	NA	NA	NA	NA
238	XRF	4489.6	332.2	638	432	376.2	NA	NA
238	Lab	NA	NA	NA	463	NA	NA	NA
239	XRF	4028.8	162	400.7	180.8	267	NA	NA
239	Lab	NA	NA	413	NA	NA	NA	NA
240	XRF	983.2	846.4	150.3	289.2	367.6	NA	NA
240	Lab	NA	NA	NA	NA	NA	NA	NA
241	XRF	850.4	455.2	283.3	598	211.1	NA	NA
241	Lab	NA	NA	NA	515	NA	NA	NA
242	XRF	1049.5	418.7	179.6	574.4	133.3	NA	NA
242	Lab	NA	NA	NA	518	NA	NA	NA

Appendix A
Table A-1
Results of All Surface Soil Samples Collected by Jacobs Engineering
Site Inspection
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	Method	Drip	Yard-NE	Yard-SE	Yard-SW	Yard-NW	Garden	Play
243	XRF	1229.5	419.2	1189.5	251.1	380.6	NA	NA
243	Lab	NA	NA	NA	NA	NA	NA	NA
244	XRF	1240	406.7	556.4	372.3	382	NA	NA
244	Lab	NA	396	NA	NA	NA	NA	NA
245	XRF	1629.5	1269.5	356.2	239.8	516.7	NA	NA
245	Lab	1970	1000	NA	NA	NA	NA	NA
246	XRF	162.1	143.3	208	131.6	304.7	NA	NA
246	Lab	NA	NA	NA	NA	NA	NA	NA
247	XRF	4768	228	592.4	235	310.6	NA	331.2
247	Lab	NA	NA	NA	NA	224	NA	NA
248	XRF	932.7	348	343.3	506.3	328.7	NA	NA
248	Lab	NA	NA	NA	492	NA	NA	NA
249	XRF	3360	NA	406	NA	NA	NA	482
249	Lab	NA	NA	NA	NA	NA	NA	NA
250	XRF	810.4	388.7	NA	NA	524.4	NA	71.5
250	Lab	NA	NA	NA	NA	531	NA	NA
251	XRF	2280	253.1	816.4	326.6	337	NA	NA
251	Lab	NA	NA	NA	NA	350	NA	NA
252	XRF	273.2	164.3	259.6	274.3	203.1	NA	NA
252	Lab	NA	NA	NA	NA	NA	NA	NA
253	XRF	309	216	244.6	460.3	217.8	NA	NA
253	Lab	NA	NA	NA	NA	NA	NA	NA
254	XRF	83	295.7	1289.5	282.6	189.3	NA	NA
254	Lab	64	NA	1070	NA	NA	NA	NA
255	XRF	54.7	67.1	80.5	90.5	ND	NA	NA
255	Lab	NA	NA	NA	NA	NA	NA	NA
256	XRF	974.4	426	2348.8	336.2	NA	NA	NA
256	Lab	NA	NA	3580	NA	NA	NA	NA
257	XRF	NA	259.6	238	238.6	188.6	NA	NA
257	Lab	NA	NA	NA	NA	NA	NA	NA
258	XRF	171.1	286.6	414.3	NA	NA	NA	NA
258	Lab	NA	NA	411	NA	NA	NA	NA
259	XRF	378	NA	NA	163.1	NA	NA	NA
259	Lab	NA	NA	NA	NA	NA	NA	NA
260	XRF	NA	144.1	132.6	344.3	236.1	NA	110.6
260	Lab	NA	NA	NA	NA	215	NA	NA
261	XRF	NA	NA	458.7	397	1160	NA	NA
261	Lab	NA	NA	NA	NA	1090	NA	NA
262	XRF	NA	NA	NA	134.6	191.3	NA	128.3
262	Lab	NA	NA	NA	NA	NA	NA	NA
263	XRF	NA	NA	NA	196.3	472.3	97.8	NA
263	Lab	NA	NA	NA	NA	NA	NA	NA
264	XRF	399.6	254.6	NA	114	190.5	NA	NA
264	Lab	NA	NA	NA	NA	NA	NA	NA
265	XRF	NA	284	326.3	261.2	273.6	NA	NA
265	Lab	NA	NA	NA	NA	NA	NA	NA
266	XRF	295	374.7	264	155.3	587.2	NA	NA

Appendix A
Table A-1
Results of All Surface Soil Samples Collected by Jacobs Engineering
Site Inspection
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	Method	Drip	Yard-NE	Yard-SE	Yard-SW	Yard-NW	Garden	Play
266	Lab	NA	NA	NA	NA	NA	NA	NA
267	XRF	410.3	802.7	386.7	126.6	180.3	NA	NA
267	Lab	NA	NA	NA	NA	NA	NA	NA
268	XRF	1769.5	852.7	320.2	301.3	1440	NA	NA
268	Lab	NA	NA	NA	NA	NA	NA	NA
269	XRF	229.3	84.9	291.6	108.1	207.8	134.6	NA
269	Lab	NA	NA	NA	NA	NA	NA	NA
270	XRF	NA	410	409.6	213.6	266.6	NA	NA
270	Lab	NA	NA	NA	NA	NA	NA	NA
271	XRF	NA	272.6	170.3	395.3	351.3	135.1	NA
271	Lab	NA	NA	NA	NA	NA	NA	NA
272	XRF	53.7	288.6	232.1	103.4	201.1	NA	NA
272	Lab	NA	NA	NA	NA	NA	NA	NA
273	XRF	NA	211.1	NA	729.5	301.2	NA	NA
273	Lab	NA	NA	NA	NA	NA	NA	NA
274	XRF	NA	95	360.7	340.6	329.7	211.1	NA
274	Lab	NA	NA	NA	NA	NA	NA	NA
275	XRF	NA	NA	92.1	NA	166.3	NA	NA
275	Lab	NA	NA	NA	NA	NA	NA	NA
276	XRF	8339.2	734.7	258.3	539.5	203.8	NA	NA
276	Lab	NA	754	NA	494	NA	NA	NA
277	XRF	NA	430.3	390.2	309.7	1080	NA	NA
277	Lab	NA	NA	NA	NA	943	NA	NA
278	XRF	1620	NA	610.4	727.5	409.6	620	NA
278	Lab	4350	NA	NA	NA	NA	495	NA
279	XRF	222.8	387.6	200.3	276	NA	269	NA
279	Lab	NA	NA	NA	NA	NA	NA	NA
280	XRF	883.2	376	243.6	222.3	200.8	NA	NA
280	Lab	NA	NA	227	NA	NA	NA	NA
281	XRF	1859.1	224.8	154.3	NA	NA	NA	516
281	Lab	NA	NA	NA	NA	NA	NA	NA
282	XRF	659.5	323	518.4	206	283.3	NA	NA
282	Lab	NA	NA	5070	NA	NA	NA	NA
283	XRF	ND	ND	ND	85.3	ND	NA	NA
283	Lab	NA	NA	NA	NA	NA	NA	NA
284	XRF	NA	214.6	299.7	70.8	328	NA	NA
284	Lab	NA	NA	NA	NA	312	NA	NA
285	XRF	1309.5	437.2	523.5	639.2	931.2	NA	NA
285	Lab	4670	NA	NA	NA	5830	NA	NA
286	XRF	415.6	322.7	249.6	281.6	193.8	NA	NA
286	Lab	NA	NA	NA	NA	NA	NA	NA
287	XRF	3299.1	927.2	600	962.4	1480	NA	NA
287	Lab	3910	NA	NA	1340	NA	NA	NA
288	XRF	257	NA	NA	184.3	282.6	150.8	NA
288	Lab	NA	NA	NA	NA	NA	NA	NA
289	XRF	41	140.8	191	293.6	190.3	NA	275.6
289	Lab	NA	NA	NA	NA	164	NA	NA

Appendix A
Table A-1
Results of All Surface Soil Samples Collected by Jacobs Engineering
Site Inspection
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	Method	Drip	Yard-NE	Yard-SE	Yard-SW	Yard-NW	Garden	Play
290	XRF	349.6	299.3	250.3	138.3	362.6	325.3	NA
290	Lab	553	NA	NA	NA	NA	NA	NA
291	XRF	1309.5	384.3	196.3	182.6	455.2	354.3	NA
291	Lab	NA	NA	NA	NA	NA	NA	NA
292	XRF	36.7	247.3	157.5	634.4	174.1	NA	NA
292	Lab	NA	NA	131	642	NA	NA	NA
293	XRF	NA	687.5	975.2	NA	577.2	NA	NA
293	Lab	NA	3900	NA	NA	NA	NA	NA
294	XRF	243.8	256.2	473.2	238.1	423.2	NA	NA
294	Lab	NA	NA	NA	NA	NA	NA	NA
295	XRF	780	NA	NA	1180	226.8	149.6	NA
295	Lab	NA	NA	NA	NA	NA	NA	NA
296	XRF	NA	253.1	147.6	209	479.2	NA	NA
296	Lab	NA	NA	NA	NA	NA	NA	NA
297	XRF	256.6	399.7	1149.5	764	892	487.2	NA
297	Lab	NA	NA	NA	NA	NA	NA	NA
298	XRF	3299.1	286.7	NA	380.2	299.6	NA	NA
298	Lab	NA	NA	NA	NA	NA	NA	NA
299	XRF	1629.5	162.6	NA	258.6	203	NA	NA
299	Lab	NA	NA	NA	NA	NA	NA	NA
300	XRF	424.7	215	287.3	200.6	1828.8	NA	NA
300	Lab	NA	NA	NA	NA	1840	NA	NA
301	XRF	2139.1	631.2	633.2	957.5	519.2	NA	NA
301	Lab	NA	NA	NA	NA	2060	NA	NA
302	XRF	712.4	355	374.7	417.2	303	NA	NA
302	Lab	NA	NA	NA	NA	NA	NA	NA
303	XRF	1680	290.3	270.6	275.2	208.1	NA	NA
303	Lab	NA	NA	NA	NA	NA	NA	NA
304	XRF	1569.5	810.4	118.8	410	836	NA	NA
304	Lab	NA	NA	NA	NA	722	NA	NA
305	XRF	599.5	269.6	218.8	NA	752.4	NA	NA
305	Lab	NA	NA	NA	NA	NA	NA	NA
306	XRF	NA	142.3	280.3	375.6	200.1	NA	NA
306	Lab	NA	NA	226	NA	NA	NA	NA
307	XRF	1948.8	1349.5	1160	1080	NA	NA	NA
307	Lab	NA	726	NA	NA	NA	NA	NA
308	XRF	556.4	852.7	290.7	590.7	1260	NA	NA
308	Lab	NA	NA	NA	NA	8710	NA	NA
309	XRF	339	684.4	249.3	429.6	522.4	NA	NA
309	Lab	NA	NA	NA	NA	653	NA	NA
310	XRF	1429.5	269	NA	NA	NA	NA	NA
310	Lab	1800	NA	NA	NA	NA	NA	NA
311	XRF	1748.8	962.4	357.2	823.2	339.2	NA	NA
311	Lab	NA	NA	NA	NA	321	NA	NA
312	XRF	574	145.1	745.2	399	82.8	NA	NA
312	Lab	NA	NA	830	NA	NA	NA	NA
313	XRF	2188.8	342.2	356.2	350.7	564.4	NA	NA

Appendix A
Table A-1
Results of All Surface Soil Samples Collected by Jacobs Engineering
Site Inspection
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	Method	Drip	Yard-NE	Yard-SE	Yard-SW	Yard-NW	Garden	Play
313	Lab	NA	NA	357	NA	NA	NA	NA
314	XRF	1160	1140	668.7	302.6	361.2	NA	NA
314	Lab	1350	1760	581	NA	NA	NA	NA
315	XRF	351.7	1169.5	NA	NA	327.7	526.4	NA
315	Lab	NA	834	NA	NA	NA	NA	NA
316	XRF	682	693.5	482.7	NA	NA	NA	NA
316	Lab	NA	NA	NA	NA	NA	NA	NA
317	XRF	117	352	193.1	239	334.3	NA	NA
317	Lab	NA	NA	NA	NA	NA	NA	NA
318	XRF	766.4	194.6	267.3	125.9	122	NA	NA
318	Lab	NA	NA	NA	NA	NA	NA	NA
319	XRF	1449.5	272.7	178	286.7	327.3	NA	NA
319	Lab	NA	NA	NA	163	NA	NA	NA
320	XRF	NA	NA	510.3	364.3	333.2	NA	NA
320	Lab	NA	NA	NA	NA	NA	NA	NA
321	XRF	124.1	170.6	631.5	514	415.2	NA	NA
321	Lab	NA	NA	522	NA	NA	NA	NA
322	XRF	288.3	397.2	168	215.3	288	NA	NA
322	Lab	NA	73.3	NA	NA	NA	NA	NA
323	XRF	813.2	2960	230.8	486	548	NA	NA
323	Lab	NA	NA	NA	NA	NA	NA	NA
324	XRF	3987.1	166.8	262.2	414.7	164.1	NA	NA
324	Lab	NA	NA	NA	NA	NA	NA	NA
325	XRF	720	482.7	395	111	750.4	NA	NA
325	Lab	NA	NA	NA	NA	585	NA	NA
326	XRF	3779.1	738.4	353	553.2	689.2	NA	NA
326	Lab	NA	NA	NA	NA	NA	NA	NA
327	XRF	636	316.3	442.3	568.4	484	NA	NA
327	Lab	NA	NA	NA	NA	NA	NA	NA
328	XRF	860.7	123.4	106.3	184	206.8	NA	NA
328	Lab	NA	NA	NA	NA	NA	NA	NA
329	XRF	NA	249.3	257	222	NA	NA	NA
329	Lab	NA	240	NA	NA	NA	NA	NA
330	XRF	80.3	33.2	81.1	34	NA	NA	NA
330	Lab	NA	NA	NA	NA	NA	NA	NA
331	XRF	302.6	440.7	246.6	242.6	706	NA	NA
331	Lab	NA	NA	NA	NA	NA	NA	NA
332	XRF	488.3	428.3	992	372.7	334.3	244.1	NA
332	Lab	NA	NA	527	NA	NA	217	NA
333	XRF	798.4	1629.5	540.7	505.6	NA	NA	NA
333	Lab	NA	NA	NA	NA	NA	NA	NA
334	XRF	276.7	351	234.3	230.8	259.3	NA	NA
334	Lab	NA	NA	NA	NA	NA	NA	NA
335	XRF	1460	157.3	212.8	334.7	327.2	NA	NA
335	Lab	NA	NA	NA	NA	NA	NA	NA
336	XRF	719.2	NA	481.2	NA	NA	NA	NA
336	Lab	NA	NA	NA	NA	NA	NA	NA

Appendix A
Table A-1
Results of All Surface Soil Samples Collected by Jacobs Engineering
Site Inspection
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	Method	Drip	Yard-NE	Yard-SE	Yard-SW	Yard-NW	Garden	Play
337	XRF	1120	800.4	519.5	317.7	221.1	NA	NA
337	Lab	NA	NA	NA	NA	NA	NA	NA
338	XRF	306.6	157.3	107.1	128.6	212	106.3	NA
338	Lab	NA	NA	NA	NA	NA	NA	NA
339	XRF	1988.8	373.7	644.4	696.7	369.6	NA	NA
339	Lab	NA	399	NA	NA	NA	NA	NA
340	XRF	560	199.3	252.8	289.6	809.5	NA	NA
340	Lab	NA	NA	NA	NA	558	NA	NA
341	XRF	2068.8	677.2	286.7	1089.5	286.6	NA	NA
341	Lab	NA	NA	NA	994	NA	NA	NA
342	XRF	NA	209.8	530.7	394.2	215	NA	NA
342	Lab	NA	NA	NA	NA	NA	NA	NA
343	XRF	779.5	370	687.2	207.8	233	NA	NA
343	Lab	NA	ND	NA	NA	NA	NA	NA
344	XRF	NA	55.4	82.8	NA	82	NA	NA
344	Lab	NA	NA	NA	NA	NA	NA	NA
345	XRF	1720	NA	NA	366.7	270	NA	NA
345	Lab	NA	NA	NA	NA	NA	NA	NA
346	XRF	NA	89.4	115.4	203.3	121.4	NA	74.6
346	Lab	NA	NA	NA	NA	114	NA	NA
347	XRF	510.3	442	720	296.2	156.6	NA	NA
347	Lab	NA	NA	NA	NA	NA	NA	NA
348	XRF	1948.8	656.4	257	555.5	NA	NA	NA
348	Lab	NA	NA	NA	NA	NA	NA	NA
349	XRF	2960	326.6	293.2	2628.8	NA	NA	NA
349	Lab	3900	NA	NA	NA	NA	NA	NA
350	XRF	868	NA	793.2	371.2	889.5	NA	NA
350	Lab	NA	NA	NA	NA	NA	NA	NA
351	XRF	144	141.8	319.3	300.6	186	NA	NA
351	Lab	NA	NA	NA	NA	NA	NA	NA
352	XRF	1819.1	113.6	299.6	192.8	237.6	217.3	NA
352	Lab	NA	NA	NA	NA	NA	NA	NA
353	XRF	182.3	388.3	271.6	145.3	482.3	NA	NA
353	Lab	NA	NA	NA	NA	NA	NA	NA
354	XRF	NA	808.4	915.2	639.5	300.3	NA	NA
354	Lab	NA	NA	NA	NA	NA	NA	NA
355	XRF	354.7	123.8	112.9	365.2	348.2	NA	NA
355	Lab	NA	NA	NA	NA	443	NA	NA
356	XRF	NA	325	275.3	576	266.2	NA	NA
356	Lab	NA	NA	NA	NA	NA	NA	NA
357	XRF	55.7	57.5	136.8	100.1	56.2	NA	112.6
357	Lab	NA	NA	NA	NA	NA	NA	28
358	XRF	902.4	311	324	280.7	224.6	NA	NA
358	Lab	NA	NA	NA	NA	NA	NA	NA
359	XRF	217.1	95.8	110.5	125	94.5	NA	NA
359	Lab	NA	NA	NA	NA	NA	NA	NA
360	XRF	94.1	96.8	290.2	107.4	90	NA	ND

Appendix A
Table A-1
Results of All Surface Soil Samples Collected by Jacobs Engineering
Site Inspection
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	Method	Drip	Yard-NE	Yard-SE	Yard-SW	Yard-NW	Garden	Play
360	Lab	NA	121	NA	NA	NA	NA	NA
361	XRF	401.7	270.2	826.4	NA	331.2	NA	NA
361	Lab	NA	NA	NA	NA	NA	NA	NA
362	XRF	153.3	195.3	139	260.2	187.8	NA	NA
362	Lab	NA	NA	NA	NA	NA	NA	NA
363	XRF	1360	255	250.1	478.3	860.7	NA	NA
363	Lab	NA	NA	NA	NA	896	NA	NA
364	XRF	163	992.7	247	366.7	492.7	NA	140.8
364	Lab	NA	NA	NA	NA	NA	NA	126
365	XRF	126	255.1	NA	42.2	190.8	NA	NA
365	Lab	NA	NA	NA	NA	NA	NA	NA
366	XRF	152.8	338.3	409.6	171	263.6	NA	NA
366	Lab	NA	NA	386	NA	NA	NA	NA
367	XRF	3308.8	807.5	419.6	395.6	493.2	NA	NA
367	Lab	6060	NA	333	NA	NA	NA	NA
368	XRF	117	183.1	102	NA	165.3	NA	NA
368	Lab	NA	NA	NA	NA	120	NA	NA
369	XRF	72	170.3	96.9	176.1	136.5	NA	NA
369	Lab	NA	NA	NA	NA	NA	NA	NA
370	XRF	75.9	63	47.5	86.8	33.2	NA	41.9
370	Lab	NA	NA	NA	NA	NA	NA	31.7
371	XRF	223.8	57.7	ND	61.7	65.6	NA	NA
371	Lab	NA	NA	NA	NA	NA	NA	NA
372	XRF	NA	NA	275	167.5	190.1	NA	NA
372	Lab	NA	NA	NA	NA	NA	NA	NA
373	XRF	127.5	284.6	38.5	64.5	146.5	NA	NA
373	Lab	NA	NA	NA	NA	NA	NA	NA
374	XRF	967.2	605.2	924	594.7	630	687.5	NA
374	Lab	NA	NA	NA	782	NA	537	NA
375	XRF	948	91.4	94.5	NA	NA	NA	NA
375	Lab	NA	NA	NA	NA	NA	NA	NA
376	XRF	976.7	260.6	NA	331.3	302	NA	NA
376	Lab	NA	NA	NA	NA	NA	NA	NA
377	XRF	453.2	643.2	138.3	239.8	259.6	297.2	NA
377	Lab	NA	391	NA	NA	NA	NA	NA
378	XRF	477.6	234	278.7	163.8	166.6	NA	NA
378	Lab	NA	NA	302	NA	NA	NA	NA
379	XRF	136.5	71.9	111.3	228.1	98.5	NA	NA
379	Lab	NA	NA	NA	NA	NA	NA	NA
380	XRF	NA	282	151.3	109	131	NA	NA
380	Lab	NA	197	NA	NA	NA	NA	NA
381	XRF	1100	160.6	300.6	248.3	150.3	NA	NA
381	Lab	4600	NA	NA	NA	NA	NA	NA
382	XRF	1349.5	319.3	329.6	554	517.5	NA	NA
382	Lab	NA	NA	NA	525	NA	NA	NA
383	XRF	1089.5	270.3	NA	698.4	382	1069.5	NA
383	Lab	NA	NA	NA	NA	NA	NA	NA

Appendix A
Table A-1
Results of All Surface Soil Samples Collected by Jacobs Engineering
Site Inspection
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	Method	Drip	Yard-NE	Yard-SE	Yard-SW	Yard-NW	Garden	Play
384	XRF	171.6	214.6	NA	NA	328.6	NA	NA
384	Lab	4500	NA	NA	NA	NA	NA	NA
385	XRF	57.7	39.4	ND	48.2	38.5	NA	NA
385	Lab	NA	NA	NA	NA	NA	NA	NA
386	XRF	3049.6	283.6	509.2	357.3	1149.5	1929.5	NA
386	Lab	NA	NA	NA	NA	1160	NA	NA
387	XRF	2788.8	250.8	250.6	347.7	232.3	NA	NA
387	Lab	3940	NA	NA	NA	NA	NA	NA
388	XRF	25088	466.3	281.6	1979.1	764	NA	NA
388	Lab	NA	NA	NA	NA	NA	NA	NA
389	XRF	NA	689.2	1640	434	243	NA	NA
389	Lab	NA	NA	1830	NA	NA	NA	NA
390	XRF	3049.6	432.7	222.6	429.6	266	NA	NA
390	Lab	NA	NA	NA	NA	NA	NA	NA
392	XRF	NA	131.8	77	NA	364.2	NA	NA
392	Lab	NA	NA	NA	NA	NA	NA	NA
393	XRF	134	254.8	270.3	120	421.2	NA	NA
393	Lab	NA	4350	NA	NA	NA	NA	NA
394	XRF	276.2	197.6	382.3	131	145.3	238	NA
394	Lab	NA	NA	NA	NA	NA	NA	NA
395	XRF	3878.3	325.7	NA	732.4	197.1	NA	NA
395	Lab	6930	NA	NA	651	NA	NA	NA
396	XRF	1629.5	406.2	611.2	141.3	NA	NA	NA
396	Lab	NA	NA	NA	NA	NA	NA	NA
397	XRF	ND	70.5	64	84.5	66.4	NA	40.5
397	Lab	NA	NA	NA	63	NA	NA	NA
398	XRF	210.1	187.6	245.8	199.8	157.3	NA	NA
398	Lab	NA	NA	NA	NA	NA	NA	NA
399	XRF	164.6	NA	235.3	232	235	NA	NA
399	Lab	NA	NA	NA	NA	NA	NA	NA
400	XRF	190.3	218.8	259	107	80.8	NA	NA
400	Lab	NA	NA	NA	NA	NA	NA	NA
401	XRF	141.5	276.7	260.2	83.1	64	NA	NA
401	Lab	NA	NA	NA	NA	NA	NA	NA
402	XRF	66.1	100.1	84	99.9	83.1	NA	50.5
402	Lab	NA	NA	55	NA	NA	NA	NA
403	XRF	1200	146	105.8	NA	NA	92.5	NA
403	Lab	NA	NA	NA	NA	NA	NA	NA
404	XRF	1149.5	NA	215.8	285.2	343.3	NA	NA
404	Lab	NA	NA	NA	NA	NA	NA	NA
405	XRF	1009.5	157.6	141.6	160.8	253.6	NA	NA
405	Lab	NA	NA	NA	NA	NA	NA	NA
406	XRF	940.7	431.6	404	1149.5	420	NA	NA
406	Lab	1300	NA	NA	NA	NA	NA	NA
407	XRF	NA	146.8	129.8	NA	373.2	NA	NA
407	Lab	NA	NA	NA	NA	NA	NA	NA
408	XRF	NA	156.6	NA	545.2	NA	866.4	347.3

Appendix A
Table A-1
Results of All Surface Soil Samples Collected by Jacobs Engineering
Site Inspection
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	Method	Drip	Yard-NE	Yard-SE	Yard-SW	Yard-NW	Garden	Play
408	Lab	NA	NA	NA	NA	NA	1050	NA
409	XRF	371.3	210.6	406.3	223.6	147	NA	NA
409	Lab	NA	NA	NA	NA	NA	NA	NA
410	XRF	3718.3	1020	3657.6	1668.8	1140	NA	NA
410	Lab	6870	1100	6640	NA	NA	NA	NA
411	XRF	1908.8	996	619.5	810.4	NA	NA	NA
411	Lab	NA	818	584	NA	NA	NA	NA
412	XRF	NA	246.1	712.4	239.6	273	NA	NA
412	Lab	NA	214	636	NA	NA	NA	NA
413	XRF	96.5	59.5	72.4	NA	70.3	NA	44.7
413	Lab	NA	NA	NA	NA	NA	NA	NA
414	XRF	52.7	44	ND	86.8	49.5	58.4	NA
414	Lab	NA	NA	NA	NA	NA	NA	NA
415	XRF	884.7	1680	238.3	391.7	890.4	NA	NA
415	Lab	NA	1660	NA	NA	NA	NA	NA
416	XRF	NA	946.4	594	525.2	684.7	NA	NA
416	Lab	NA	950	NA	NA	NA	NA	NA
417	XRF	NA	50	ND	ND	ND	NA	NA
417	Lab	NA	NA	NA	NA	NA	NA	NA
418	XRF	NA	664.4	271.6	897.5	886.4	NA	NA
418	Lab	NA	NA	203	NA	NA	NA	NA
419	XRF	285.6	385.2	167.3	284.3	43.4	NA	NA
419	Lab	NA	NA	109	NA	NA	NA	NA
420	XRF	1189.5	772.4	843.2	522	544	NA	NA
420	Lab	NA	NA	NA	NA	NA	NA	NA
421	XRF	169.3	53.9	137.6	ND	ND	NA	NA
421	Lab	NA	NA	NA	NA	NA	NA	NA
422	XRF	784.4	680	283.7	1620	254	NA	NA
422	Lab	NA	NA	NA	1260	NA	NA	NA
423	XRF	1609.5	96	193.1	230.6	138.1	158.1	NA
423	Lab	3500	NA	NA	NA	NA	NA	NA
424	XRF	ND	NA	234.8	257	244.8	NA	NA
424	Lab	NA	NA	NA	NA	NA	NA	NA
425	XRF	378.3	267	355.2	315.3	328.7	NA	NA
425	Lab	NA	NA	NA	NA	NA	NA	NA
426	XRF	3600	NA	NA	267.2	311.7	189.8	NA
426	Lab	NA	NA	NA	NA	NA	NA	NA
427	XRF	410.3	441.2	267.3	859.2	2729.6	NA	NA
427	Lab	NA	NA	NA	NA	NA	NA	NA
428	XRF	903.2	NA	386.3	158.8	515.2	NA	371.7
428	Lab	NA	NA	NA	NA	NA	NA	NA
429	XRF	514.4	NA	526	517.5	824	NA	NA
429	Lab	364	NA	NA	NA	NA	NA	NA
430	XRF	261.7	488.3	NA	165.8	596.7	NA	NA
430	Lab	NA	NA	NA	NA	NA	NA	NA
431	XRF	1549.5	329.3	NA	NA	298.3	NA	NA
431	Lab	2070	NA	NA	NA	NA	NA	NA

Appendix A
Table A-1
Results of All Surface Soil Samples Collected by Jacobs Engineering
Site Inspection
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	Method	Drip	Yard-NE	Yard-SE	Yard-SW	Yard-NW	Garden	Play
432	XRF	481.6	259.2	1720	484.3	694	NA	NA
432	Lab	NA	NA	NA	NA	NA	NA	NA
433	XRF	621.2	309.7	487.6	163.1	234.3	NA	NA
433	Lab	NA	NA	NA	NA	196	NA	NA
434	XRF	62.2	76.5	ND	104.3	ND	NA	NA
434	Lab	NA	NA	NA	NA	NA	NA	NA
435	XRF	1380	161.8	NA	NA	153.8	197.3	NA
435	Lab	NA	NA	NA	NA	NA	200	NA
436	XRF	863.2	246.3	451.6	NA	382.7	NA	NA
436	Lab	NA	NA	418	NA	NA	NA	NA
437	XRF	2129.6	352.3	NA	NA	457.2	NA	NA
437	Lab	NA	NA	NA	NA	NA	NA	NA
438	XRF	ND	99.8	70.5	NA	NA	ND	NA
438	Lab	NA	NA	NA	NA	NA	NA	NA
439	XRF	271.2	650.7	85.5	266	116.3	NA	NA
439	Lab	NA	NA	NA	NA	52	NA	NA
440	XRF	1020	218.8	241.1	126.8	375.6	NA	NA
440	Lab	NA	NA	NA	119	NA	NA	NA
441	XRF	841.5	473.6	422.7	340.7	234.3	NA	544.7
441	Lab	862	418	396	NA	NA	NA	426
442	XRF	87	NA	ND	54.5	ND	NA	ND
442	Lab	NA	NA	NA	NA	NA	NA	NA
443	XRF	ND	ND	60.5	45	ND	NA	NA
443	Lab	NA	NA	NA	NA	NA	NA	NA
444	XRF	71.3	54.5	59.2	72.1	89.5	ND	NA
444	Lab	NA	NA	NA	NA	NA	NA	NA
445	XRF	137.5	191.1	219.1	209.8	137.5	NA	NA
445	Lab	NA	NA	NA	NA	NA	NA	NA
446	XRF	85	105.4	53.5	55.2	141.3	NA	NA
446	Lab	137	NA	NA	NA	NA	NA	NA
447	XRF	76.5	51.4	103.1	93.8	94	NA	NA
447	Lab	NA	NA	NA	NA	NA	NA	NA
448	XRF	163.8	86.8	155.1	130.5	123.5	NA	104
448	Lab	NA	NA	NA	NA	NA	NA	NA
450	XRF	1060	542	316.6	413.6	642	NA	NA
450	Lab	NA	NA	NA	NA	674	NA	NA
451	XRF	576.4	336.7	868.7	313	660.7	NA	NA
451	Lab	NA	NA	NA	NA	NA	NA	NA
452	XRF	3718.3	376.2	1140	840.7	332.2	NA	NA
452	Lab	NA	NA	NA	NA	NA	NA	NA
453	XRF	40	37	137.3	ND	95	NA	NA
453	Lab	NA	NA	NA	NA	NA	NA	NA
454	XRF	NA	698.7	525.5	NA	NA	NA	NA
454	Lab	NA	NA	NA	NA	NA	NA	NA
455	XRF	1240	276.3	420	576.7	502.7	NA	NA
455	Lab	NA	NA	NA	674	NA	NA	NA
456	XRF	72.5	91.5	92.8	145.6	254.8	NA	NA

Appendix A
Table A-1
Results of All Surface Soil Samples Collected by Jacobs Engineering
Site Inspection
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	Method	Drip	Yard-NE	Yard-SE	Yard-SW	Yard-NW	Garden	Play
456	Lab	NA	NA	129	NA	NA	NA	NA
457	XRF	NA	177.3	NA	NA	224.6	NA	NA
457	Lab	NA	NA	NA	NA	NA	NA	NA
458	XRF	4819.2	832.7	382.2	2040	715.5	NA	NA
458	Lab	NA	NA	NA	1830	NA	NA	NA
459	XRF	708.4	307.7	261	228	104.1	NA	NA
459	Lab	NA	NA	NA	NA	NA	NA	NA
460	XRF	253.6	160	224.1	252.3	130.1	NA	NA
460	Lab	NA	NA	NA	NA	NA	NA	NA
461	XRF	1300	213.3	351.3	205.1	273.3	NA	NA
461	Lab	1040	NA	NA	NA	NA	NA	NA
462	XRF	NA	NA	ND	NA	NA	NA	NA
462	Lab	NA	NA	29.8	NA	NA	NA	NA
463	XRF	762.7	NA	584.7	NA	NA	NA	NA
463	Lab	NA	NA	NA	NA	NA	NA	NA
464	XRF	2200	1329.5	267.2	257.2	582.4	NA	NA
464	Lab	NA	NA	NA	NA	527	NA	NA
465	XRF	350.3	NA	256.6	279	287.3	NA	108
465	Lab	NA	NA	NA	NA	301	NA	NA
466	XRF	663.2	626.7	432	465.2	230.6	NA	NA
466	Lab	NA	NA	NA	NA	NA	NA	NA
468	XRF	ND	36.5	96.6	70.3	50	50.7	NA
468	Lab	NA	NA	NA	49	NA	NA	NA
469	XRF	NA	99.6	283.6	118.4	80.5	NA	NA
469	Lab	NA	NA	NA	NA	NA	NA	NA
470	XRF	376.3	NA	469.6	377	303.6	NA	NA
470	Lab	NA	NA	NA	NA	NA	NA	NA
471	XRF	834.4	365.2	995.2	1160	457.6	NA	NA
471	Lab	NA	NA	NA	NA	NA	NA	NA
472	XRF	182.1	177.5	124	NA	172.8	NA	NA
472	Lab	NA	NA	NA	NA	NA	NA	NA
473	XRF	966.4	1040	NA	NA	494	NA	NA
473	Lab	NA	490	NA	NA	NA	NA	NA
475	XRF	572	341.7	335	325.2	291.2	NA	NA
475	Lab	NA	NA	NA	NA	NA	NA	NA
476	XRF	2428.8	467.6	662	NA	380.3	NA	NA
476	Lab	NA	NA	650	NA	NA	NA	NA
477	XRF	410.3	241	295.3	289.7	412.3	NA	NA
477	Lab	NA	NA	NA	NA	4570	NA	NA
478	XRF	2459.1	630.4	1600	548.7	NA	NA	NA
478	Lab	12300	NA	NA	NA	NA	NA	NA
479	XRF	48.7	64.3	ND	ND	ND	NA	NA
479	Lab	23	NA	NA	NA	NA	NA	NA
480	XRF	2880	241	753.5	354.6	NA	NA	NA
480	Lab	NA	NA	NA	NA	NA	NA	NA
481	XRF	1529.5	295.3	306.2	658.7	542	NA	NA
481	Lab	NA	NA	NA	NA	NA	NA	NA

Appendix A
Table A-1
Results of All Surface Soil Samples Collected by Jacobs Engineering
Site Inspection
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	Method	Drip	Yard-NE	Yard-SE	Yard-SW	Yard-NW	Garden	Play
482	XRF	NA	541.2	513.2	426.3	420.7	NA	NA
482	Lab	NA	NA	NA	NA	NA	NA	NA
483	XRF	7008	295.6	423.2	614	562.4	NA	NA
483	Lab	NA	NA	NA	598	NA	NA	NA
484	XRF	567.5	35.4	59.2	98.3	178.8	NA	NA
484	Lab	555	NA	NA	NA	NA	NA	NA
486	XRF	1629.5	317.2	362.2	147.1	170.1	NA	NA
486	Lab	NA	NA	NA	NA	NA	NA	NA
487	XRF	626	NA	262.6	730.7	1600	NA	NA
487	Lab	NA	NA	NA	NA	NA	NA	NA
488	XRF	NA	NA	650.7	376.2	754.7	NA	NA
488	Lab	NA	NA	NA	NA	NA	NA	NA
489	XRF	889.5	465.2	144.1	147.8	401	NA	NA
489	Lab	NA	NA	NA	NA	NA	NA	NA
490	XRF	1509.5	335.7	522.7	325.2	335.7	NA	NA
490	Lab	NA	NA	NA	NA	NA	NA	NA
491	XRF	729.2	530.4	520.4	561.5	648.4	460.7	NA
491	Lab	NA	NA	NA	NA	569	NA	NA
492	XRF	NA	425.6	2788.8	1080	301.7	NA	NA
492	Lab	NA	NA	NA	NA	NA	NA	NA
493	XRF	888.7	NA	230.6	169.5	71.9	NA	NA
493	Lab	NA	NA	NA	NA	NA	NA	NA
494	XRF	295	139.6	74.3	83	78.1	NA	62.5
494	Lab	NA	920	NA	NA	NA	NA	NA
495	XRF	ND	163.6	82.5	126	28.2	NA	ND
495	Lab	NA	NA	NA	NA	46.2	NA	NA
496	XRF	NA	NA	105.9	180.6	NA	NA	NA
496	Lab	NA	NA	NA	NA	NA	NA	NA
497	XRF	4707.2	191.8	243.1	179.6	75.8	NA	NA
497	Lab	25500	160	NA	NA	NA	NA	NA
498	XRF	542.7	549.5	391.2	439.6	696.4	NA	NA
498	Lab	NA	NA	NA	NA	712	NA	NA
499	XRF	1828.8	141.8	90.4	376.6	NA	NA	NA
499	Lab	NA	NA	NA	NA	NA	NA	NA
500	XRF	105	101.1	66	82.1	157.8	NA	188.1
500	Lab	NA	NA	NA	NA	NA	NA	NA
501	XRF	1080	389.2	395.7	215.1	267.7	323.7	NA
501	Lab	958	NA	NA	NA	NA	NA	NA
502	XRF	NA	43.5	63.2	41.4	45.5	ND	65.3
502	Lab	NA	NA	NA	NA	34	NA	NA
503	XRF	1720	NA	101.1	222.8	375.3	ND	NA
503	Lab	NA	NA	NA	NA	NA	NA	NA
504	XRF	NA	427.6	233.3	384	355.3	94.1	NA
504	Lab	NA	NA	NA	NA	NA	NA	NA
505	XRF	265.3	74	71.6	156.3	172.1	NA	NA
505	Lab	NA	NA	NA	NA	NA	NA	NA
506	XRF	1160	ND	112.5	NA	NA	NA	47.7

Appendix A
Table A-1
Results of All Surface Soil Samples Collected by Jacobs Engineering
Site Inspection
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	Method	Drip	Yard-NE	Yard-SE	Yard-SW	Yard-NW	Garden	Play
506	Lab	NA	NA	NA	NA	NA	NA	NA
507	XRF	218.1	151.8	NA	52.5	483.6	NA	NA
507	Lab	NA	NA	NA	NA	546	NA	NA
508	XRF	275	74.4	150.8	204.3	214.3	NA	NA
508	Lab	NA	NA	NA	NA	NA	NA	NA
509	XRF	3817.6	462.3	NA	449.6	NA	NA	NA
509	Lab	NA	NA	NA	NA	NA	NA	NA
510	XRF	539.2	NA	323.2	241.3	302.3	NA	NA
510	Lab	NA	NA	NA	NA	NA	NA	NA
511	XRF	233.3	96.1	51	214.1	212.1	NA	ND
511	Lab	NA	NA	NA	NA	NA	NA	NA
512	XRF	678.4	436	NA	NA	736	NA	NA
512	Lab	NA	NA	NA	NA	NA	NA	NA
513	XRF	346.2	145.8	141.5	376.7	658	NA	NA
513	Lab	NA	NA	NA	NA	NA	NA	NA
514	XRF	ND	NA	ND	52	56.7	NA	NA
514	Lab	NA	NA	NA	NA	NA	NA	NA
515	XRF	643.2	375.3	61	198.5	160.1	NA	NA
515	Lab	NA	3820	NA	NA	NA	NA	NA
516	XRF	3360	374.2	145.3	99.4	286.6	NA	NA
516	Lab	NA	NA	NA	NA	NA	NA	NA
517	XRF	NA	269.6	136.1	NA	NA	NA	193.6
517	Lab	NA	NA	NA	NA	NA	NA	NA
518	XRF	274.7	102.1	111.6	NA	NA	NA	140.8
518	Lab	NA	NA	ND	NA	NA	NA	NA
519	XRF	802.4	55.7	114.9	372.3	308.2	NA	NA
519	Lab	NA	NA	NA	NA	NA	NA	NA
520	XRF	6688	179	348.2	577.5	213	NA	NA
520	Lab	NA	NA	NA	592	NA	NA	NA
521	XRF	180.6	NA	203.1	126.4	164	NA	126
521	Lab	NA	NA	NA	NA	NA	NA	NA
522	XRF	824.7	117.8	NA	276	1060	NA	NA
522	Lab	NA	NA	NA	NA	1010	NA	NA
523	XRF	3548.8	427.2	225.6	191	200.3	NA	NA
523	Lab	NA	NA	NA	NA	NA	NA	NA
524	XRF	2680	195.3	193.1	313.6	311.7	NA	151.8
524	Lab	NA	NA	NA	NA	NA	NA	NA
525	XRF	74.5	141.8	158.1	99.9	40.2	NA	72.9
525	Lab	NA	NA	NA	NA	NA	NA	NA
526	XRF	NA	198.8	NA	194.5	292.6	NA	NA
526	Lab	NA	NA	NA	NA	NA	NA	NA
527	XRF	238	49	36	ND	ND	NA	NA
527	Lab	NA	NA	NA	NA	NA	NA	NA
528	XRF	55.9	ND	ND	NA	NA	NA	ND
528	Lab	NA	NA	NA	NA	NA	NA	NA
529	XRF	1529.5	NA	392.6	194.8	257	NA	NA
529	Lab	NA	NA	NA	NA	NA	NA	NA

Appendix A
Table A-1
Results of All Surface Soil Samples Collected by Jacobs Engineering
Site Inspection
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	Method	Drip	Yard-NE	Yard-SE	Yard-SW	Yard-NW	Garden	Play
530	XRF	33.2	51.2	46.2	NA	37.7	NA	ND
530	Lab	NA	38	NA	NA	NA	NA	NA
531	XRF	817.2	139.3	140.5	713.2	NA	NA	NA
531	Lab	NA	NA	NA	NA	NA	NA	NA
532	XRF	ND	67.5	63.2	NA	70	NA	NA
532	Lab	NA	NA	NA	NA	NA	NA	NA
533	XRF	NA	56	ND	ND	87.1	ND	NA
533	Lab	NA	NA	NA	NA	NA	NA	NA
534	XRF	NA	467.2	342.2	340.7	NA	NA	NA
534	Lab	NA	NA	NA	343	NA	NA	NA
535	XRF	458.3	78.4	97.4	39.4	96	NA	NA
535	Lab	NA	NA	NA	NA	NA	NA	NA
536	XRF	NA	54.7	ND	53.7	60.5	NA	NA
536	Lab	NA	NA	NA	NA	50.5	NA	NA
537	XRF	1640	328.3	NA	NA	182	NA	NA
537	Lab	NA	NA	NA	NA	NA	NA	NA
538	XRF	999.2	538.4	349.7	344	632.4	NA	NA
538	Lab	NA	NA	NA	NA	635	NA	NA
539	XRF	137.1	ND	46.2	ND	64	NA	82
539	Lab	NA	20.7	NA	NA	NA	NA	NA
540	XRF	1060	171.5	70	71.1	245	NA	NA
540	Lab	1250	NA	NA	54.9	NA	NA	NA
541	XRF	1948.8	398.7	450	589.5	1089.5	NA	NA
541	Lab	NA	287	NA	NA	NA	NA	NA
542	XRF	1049.5	289.7	ND	135.3	416	NA	NA
542	Lab	NA	NA	NA	NA	NA	NA	NA
543	XRF	NA	164.5	NA	98.3	130.6	91.4	NA
543	Lab	NA	NA	NA	NA	NA	NA	NA
544	XRF	6937.6	917.5	666.4	479.2	494.3	NA	NA
544	Lab	NA	NA	NA	NA	NA	NA	NA
545	XRF	76.5	393.7	52.7	489.6	129.1	NA	NA
545	Lab	NA	NA	NA	NA	NA	NA	NA
546	XRF	281.3	286	315.2	394.3	178.1	NA	NA
546	Lab	NA	NA	NA	NA	NA	NA	NA
547	XRF	1289.5	104.5	449.2	328	130	NA	NA
547	Lab	NA	NA	437	NA	NA	NA	NA
548	XRF	547.5	908	NA	260.2	316.7	NA	NA
548	Lab	NA	NA	NA	NA	NA	NA	NA
549	XRF	945.5	330.6	157.5	209.6	170.3	NA	NA
549	Lab	NA	NA	NA	NA	NA	NA	NA
550	XRF	133.8	NA	107	68.3	39.9	61.2	NA
550	Lab	NA	NA	NA	NA	NA	NA	NA
551	XRF	7526.3	175.3	170.8	135.8	498.3	NA	NA
551	Lab	9200	NA	NA	NA	286	NA	NA
552	XRF	66.5	ND	ND	58.5	66.6	100	NA
552	Lab	NA	NA	NA	42	NA	NA	NA
553	XRF	NA	107.8	NA	497.6	200	NA	NA

Appendix A
Table A-1
Results of All Surface Soil Samples Collected by Jacobs Engineering
Site Inspection
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	Method	Drip	Yard-NE	Yard-SE	Yard-SW	Yard-NW	Garden	Play
553	Lab	NA	NA	NA	NA	NA	NA	NA
554	XRF	562.4	164.1	172.3	174.3	202.1	NA	290
554	Lab	NA	NA	NA	NA	NA	NA	NA
555	XRF	897.5	NA	NA	1129.5	NA	NA	NA
555	Lab	NA	NA	NA	984	NA	NA	NA
556	XRF	190.8	291	313.7	254	255.6	NA	NA
556	Lab	NA	NA	NA	NA	NA	NA	NA
557	XRF	NA	NA	123	ND	55	NA	ND
557	Lab	NA	NA	NA	NA	NA	NA	NA
558	XRF	ND	55.2	118	65.1	63.5	NA	NA
558	Lab	NA	NA	NA	NA	NA	NA	NA
559	XRF	520.4	540.4	297.3	NA	126.8	NA	NA
559	Lab	NA	407	NA	NA	NA	NA	NA
560	XRF	NA	216.8	233.8	258.6	381	90	NA
560	Lab	NA	NA	NA	NA	NA	61	NA
561	XRF	5779.2	NA	394	389	NA	NA	NA
561	Lab	NA	NA	NA	NA	NA	NA	NA
562	XRF	868.7	123.5	NA	184.6	80	NA	NA
562	Lab	572	NA	NA	NA	NA	NA	NA
563	XRF	612.7	260.2	139.6	184.1	107.5	NA	558
563	Lab	835	NA	NA	NA	98.8	NA	NA
564	XRF	1120	265.2	700	NA	358.6	NA	210
564	Lab	NA	NA	NA	NA	NA	NA	NA
565	XRF	1380	170.3	881.5	646.7	198.8	NA	NA
565	Lab	NA	NA	NA	743	NA	NA	NA
566	XRF	782.4	268	262.3	146.6	231.3	NA	NA
566	Lab	NA	NA	NA	NA	NA	NA	NA
567	XRF	1189.5	516	531.2	1109.5	612.7	420.7	NA
567	Lab	NA	NA	440	NA	NA	NA	NA
568	XRF	1220	151.1	NA	194	628.7	NA	NA
568	Lab	NA	NA	NA	NA	470	NA	NA
569	XRF	414.3	245.3	NA	83.1	116.5	NA	NA
569	Lab	NA	NA	NA	NA	80	NA	NA
570	XRF	2609.6	181.6	NA	123	109.4	NA	NA
570	Lab	2120	NA	NA	NA	89.4	NA	NA
571	XRF	2209.6	250	270.6	460.7	237	NA	NA
571	Lab	NA	NA	NA	NA	NA	NA	NA
572	XRF	3427.1	468	520.4	416.7	424	NA	NA
572	Lab	NA	NA	NA	NA	NA	NA	NA
573	XRF	707.2	234.8	190.6	272.7	594	142.6	NA
573	Lab	NA	198	NA	NA	NA	NA	NA
574	XRF	1189.5	184.8	101	311.7	328.6	NA	NA
574	Lab	NA	NA	NA	NA	NA	NA	NA
575	XRF	1329.5	168.3	148.1	130.5	137.1	103.4	NA
575	Lab	NA	NA	NA	NA	NA	NA	NA
576	XRF	371.3	161.3	215.6	214	284.6	NA	NA
576	Lab	NA	NA	NA	NA	NA	NA	NA

Appendix A
Table A-1
Results of All Surface Soil Samples Collected by Jacobs Engineering
Site Inspection
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	Method	Drip	Yard-NE	Yard-SE	Yard-SW	Yard-NW	Garden	Play
577	XRF	ND	43.9	NA	38	48.7	80.4	NA
577	Lab	NA	NA	NA	NA	NA	NA	NA
578	XRF	73.5	374	413.2	2489.6	281.7	NA	NA
578	Lab	NA	614	NA	NA	NA	NA	NA
579	XRF	630.7	150.8	518	302.6	228.1	NA	NA
579	Lab	NA	NA	NA	NA	NA	NA	NA
580	XRF	381.7	178.6	149.1	643.2	212.6	NA	NA
580	Lab	NA	142	NA	NA	NA	NA	NA
581	XRF	911.2	426.7	164	467.2	265.6	NA	NA
581	Lab	NA	NA	NA	362	250	NA	NA
582	XRF	2249.6	322.6	384	616.4	369.2	NA	NA
582	Lab	NA	NA	NA	NA	NA	NA	NA
583	XRF	ND	NA	NA	296.3	NA	NA	NA
583	Lab	NA	NA	NA	NA	NA	NA	NA
584	XRF	3009.6	366.3	560.4	356.6	273.3	241.3	NA
584	Lab	NA	NA	475	NA	NA	NA	NA
585	XRF	3139.1	154.3	273.7	251.3	880	NA	NA
585	Lab	3220	138	NA	NA	NA	NA	NA
586	XRF	179.1	349.7	981.5	217.3	605.5	NA	NA
586	Lab	NA	NA	1030	NA	NA	NA	NA
587	XRF	441.2	404.6	330	109.6	538.4	NA	NA
587	Lab	NA	NA	NA	NA	600	NA	NA
588	XRF	NA	193.8	172.6	241	166.1	NA	NA
588	Lab	NA	NA	NA	NA	NA	NA	NA
589	XRF	2089.6	212.8	189.1	178	141.1	NA	NA
589	Lab	5490	NA	NA	NA	NA	NA	NA
590	XRF	3120	446	574.7	445.2	1169.5	NA	NA
590	Lab	NA	NA	NA	NA	989	NA	NA
591	XRF	489.2	413.2	229.1	348	255.8	NA	NA
591	Lab	NA	NA	NA	NA	NA	NA	NA
592	XRF	569.2	311	NA	136.8	86.9	NA	104.9
592	Lab	NA	NA	NA	NA	46.7	NA	NA
593	XRF	1769.5	760.4	193.8	81.9	431.2	NA	137.3
593	Lab	3290	797	NA	NA	NA	NA	NA
594	XRF	2019.1	147.3	477.6	282.7	610	NA	NA
594	Lab	NA	NA	NA	NA	NA	NA	NA
595	XRF	2280	390.2	156.6	147.1	188.3	NA	NA
595	Lab	NA	364	NA	NA	NA	NA	NA
596	XRF	740.7	507.2	NA	512	375.7	NA	NA
596	Lab	NA	NA	NA	NA	NA	NA	NA
599	XRF	3558.3	NA	NA	424.7	344.2	NA	NA
599	Lab	NA	NA	NA	NA	NA	NA	NA
600	XRF	960	393.3	365	332.3	522.7	NA	NA
600	Lab	NA	NA	NA	NA	NA	NA	NA
601	XRF	3507.1	356.7	334	337.2	549.2	224.8	392.6
601	Lab	NA	NA	NA	NA	NA	NA	NA
602	XRF	385.3	430.7	299.2	806	293.2	740.7	NA

Appendix A
Table A-1
Results of All Surface Soil Samples Collected by Jacobs Engineering
Site Inspection
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	Method	Drip	Yard-NE	Yard-SE	Yard-SW	Yard-NW	Garden	Play
602	Lab	NA	NA	NA	878	NA	NA	NA
603	XRF	455.2	240.8	423.6	604.7	439.2	NA	NA
603	Lab	NA	378	NA	NA	NA	NA	NA
604	XRF	4009.6	212.6	276.2	666.4	646.4	NA	NA
604	Lab	NA	NA	NA	NA	527	NA	NA
605	XRF	5558.3	NA	280.2	1029.5	328	NA	239.3
605	Lab	NA	NA	NA	NA	NA	NA	NA
606	XRF	ND	52.7	83	NA	ND	81.6	NA
606	Lab	NA	NA	NA	NA	NA	NA	NA
607	XRF	135.6	920.7	124.5	249.8	171.6	NA	601.2
607	Lab	NA	NA	135	NA	NA	NA	323
608	XRF	928.7	236	418.3	NA	341.3	NA	NA
608	Lab	NA	NA	364	NA	NA	NA	NA
609	XRF	ND	ND	54.5	ND	51.4	NA	NA
609	Lab	NA	NA	NA	NA	NA	NA	NA
610	XRF	900.7	NA	499.6	700.4	1120	NA	NA
610	Lab	NA	NA	NA	NA	874	NA	NA
611	XRF	925.5	254	248.8	203.3	346.7	NA	NA
611	Lab	NA	NA	NA	NA	NA	NA	NA
612	XRF	2120	NA	604.7	1169.5	966.4	NA	NA
612	Lab	NA	NA	NA	NA	NA	NA	NA
613	XRF	37.2	66.4	97.5	198.8	51.5	NA	NA
613	Lab	NA	NA	NA	NA	NA	NA	NA
614	XRF	1549.5	335.7	492.7	626.7	242.8	NA	NA
614	Lab	NA	NA	NA	NA	NA	NA	NA
615	XRF	80.5	NA	ND	47.2	81.1	221.1	NA
615	Lab	NA	NA	NA	NA	NA	184	NA
616	XRF	1049.5	NA	821.5	593.5	NA	442.3	NA
616	Lab	NA	NA	NA	NA	NA	299	NA
617	XRF	613.2	165	162.5	136.5	231	NA	NA
617	Lab	NA	NA	NA	NA	NA	NA	NA
618	XRF	2219.1	697.2	379.7	268.6	186.5	NA	NA
618	Lab	NA	643	NA	NA	NA	NA	NA
619	XRF	NA	NA	86.3	NA	NA	NA	NA
619	Lab	NA	NA	NA	NA	NA	NA	NA
620	XRF	NA	NA	335.7	NA	NA	NA	NA
620	Lab	NA	NA	NA	NA	NA	NA	NA
621	XRF	361	NA	280.6	262	260.7	NA	NA
621	Lab	NA	NA	NA	NA	NA	NA	NA
622	XRF	2099.1	295.6	474	2240	676.4	NA	NA
622	Lab	NA	NA	NA	2270	NA	NA	NA
623	XRF	1029.5	817.5	722.7	546.4	NA	NA	NA
623	Lab	NA	NA	NA	NA	NA	NA	NA
624	XRF	4198.3	373	331.3	800	503.6	NA	NA
624	Lab	NA	NA	NA	NA	509	NA	NA
625	XRF	1429.5	NA	416	256.6	NA	330	NA
625	Lab	NA	NA	NA	NA	NA	NA	NA

Appendix A
Table A-1
Results of All Surface Soil Samples Collected by Jacobs Engineering
Site Inspection
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	Method	Drip	Yard-NE	Yard-SE	Yard-SW	Yard-NW	Garden	Play
626	XRF	665.2	822.4	136.1	192.1	574	NA	NA
626	Lab	NA	NA	NA	NA	383	NA	NA
627	XRF	1800	176.1	433.2	319.3	192.8	NA	NA
627	Lab	1560	NA	NA	NA	NA	NA	NA
628	XRF	147.3	66	152.6	NA	149	NA	NA
628	Lab	NA	NA	NA	NA	NA	NA	NA
629	XRF	93	93.8	133.6	ND	77.5	NA	NA
629	Lab	ND	NA	NA	NA	NA	NA	NA
630	XRF	1449.5	306.2	574.7	621.5	238.3	NA	NA
630	Lab	NA	NA	NA	NA	NA	NA	NA
631	XRF	1580	652.4	448	564	991.2	NA	NA
631	Lab	NA	NA	NA	NA	NA	NA	NA
632	XRF	2369.6	819.2	NA	NA	382	NA	NA
632	Lab	NA	NA	NA	NA	NA	NA	NA
633	XRF	6320	169.3	294.3	2348.8	2809.6	NA	NA
633	Lab	15000	NA	NA	NA	5190	NA	NA
634	XRF	142.5	NA	77.5	73	54.7	42.9	NA
634	Lab	NA	NA	NA	NA	NA	NA	NA
635	XRF	1680	854.4	221.1	134.1	297	NA	NA
635	Lab	1800	NA	NA	NA	NA	NA	NA
636	XRF	73.1	85	NA	92	47.4	NA	NA
636	Lab	NA	NA	NA	NA	NA	NA	NA
637	XRF	422	417.2	410	298	250.1	NA	NA
637	Lab	NA	NA	NA	NA	192	NA	NA
638	XRF	450.7	127.5	87.5	159.1	704.7	NA	NA
638	Lab	NA	NA	NA	NA	295	NA	NA
639	XRF	2468.8	293	53.2	NA	557.5	249.3	204.5
639	Lab	NA	NA	NA	NA	493	NA	NA
640	XRF	60.2	NA	ND	59.5	46	NA	NA
640	Lab	NA	NA	48.5	NA	NA	NA	NA
641	XRF	NA	NA	NA	165.5	150.3	NA	NA
641	Lab	NA	NA	NA	NA	NA	NA	NA
642	XRF	374.6	NA	107.4	77	73	NA	NA
642	Lab	NA	NA	NA	NA	NA	NA	NA
643	XRF	104.1	243.3	NA	NA	89.1	NA	NA
643	Lab	52	NA	NA	NA	NA	NA	NA
644	XRF	929.5	140.3	131.1	136.1	NA	NA	154.3
644	Lab	NA	NA	NA	NA	NA	NA	146
645	XRF	1029.5	877.5	646.7	290.3	NA	NA	NA
645	Lab	NA	NA	NA	NA	NA	NA	NA
646	XRF	935.2	349	1389.5	256.2	183.1	NA	NA
646	Lab	899	NA	NA	239	NA	NA	NA
647	XRF	787.5	397.7	NA	1819.1	471.6	NA	NA
647	Lab	NA	NA	NA	NA	NA	NA	NA
648	XRF	176.8	127	142.1	243.1	265	NA	NA
648	Lab	NA	118	NA	NA	NA	NA	NA
649	XRF	NA	NA	206	76.4	153.8	112.9	NA

Appendix A
Table A-1
Results of All Surface Soil Samples Collected by Jacobs Engineering
Site Inspection
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	Method	Drip	Yard-NE	Yard-SE	Yard-SW	Yard-NW	Garden	Play
649	Lab	NA	NA	158	NA	NA	NA	NA
650	XRF	NA	302.7	331.3	257.2	373.7	NA	NA
650	Lab	NA	NA	NA	NA	NA	NA	NA
651	XRF	93	102.5	NA	108	578	NA	NA
651	Lab	NA	NA	NA	123	NA	NA	NA
652	XRF	437.2	NA	85.5	75	526.7	NA	NA
652	Lab	NA	NA	NA	NA	398	NA	NA
653	XRF	611.2	234	514.7	304.6	66	NA	NA
653	Lab	NA	NA	398	NA	NA	NA	NA
654	XRF	118.4	131.3	NA	102.3	70.6	NA	NA
654	Lab	NA	NA	NA	NA	NA	NA	NA
655	XRF	59	ND	NA	50.2	41	52.5	NA
655	Lab	NA	NA	NA	NA	NA	NA	NA
656	XRF	54.5	54	NA	46.2	37.2	NA	NA
656	Lab	NA	NA	NA	NA	NA	NA	NA
657	XRF	72.1	43.7	NA	189.6	ND	NA	48
657	Lab	NA	NA	NA	NA	NA	NA	NA
658	XRF	67.8	79.5	78.5	NA	141.5	NA	NA
658	Lab	NA	NA	NA	NA	NA	NA	NA
659	XRF	536.7	133.3	111	138.1	126.6	NA	NA
659	Lab	NA	NA	NA	NA	126	NA	NA
660	XRF	NA	NA	91.9	123.4	158.1	NA	78.3
660	Lab	NA	NA	NA	NA	NA	NA	NA
661	XRF	49.5	NA	59.5	77.5	89.4	NA	NA
661	Lab	NA	NA	NA	NA	NA	NA	NA
662	XRF	NA	106.5	NA	71.1	140.6	NA	NA
662	Lab	NA	NA	NA	NA	NA	NA	NA
663	XRF	1360	200.3	380.2	217.1	289.6	NA	NA
663	Lab	NA	NA	NA	NA	NA	NA	NA
664	XRF	ND	ND	ND	53.9	ND	NA	NA
664	Lab	NA	NA	NA	NA	NA	NA	NA
665	XRF	6726.3	176.3	123.8	636.4	233.6	NA	NA
665	Lab	NA	NA	NA	NA	NA	NA	NA
666	XRF	1060	333	263.2	398.2	253	261.7	NA
666	Lab	NA	NA	NA	NA	NA	NA	NA
667	XRF	1080	166.8	149	218.8	201.8	NA	NA
667	Lab	NA	NA	NA	NA	NA	NA	NA
668	XRF	1109.5	129	201.6	223.8	298.6	NA	NA
668	Lab	NA	NA	NA	205	NA	NA	NA
669	XRF	147.8	261.7	265.2	166.8	300.3	NA	NA
669	Lab	NA	NA	NA	NA	NA	NA	NA
670	XRF	2120	454.7	325	442.7	444.3	424	NA
670	Lab	NA	NA	NA	NA	NA	394	NA
671	XRF	NA	NA	NA	955.2	496	NA	279.6
671	Lab	NA	NA	NA	929	NA	NA	NA
672	XRF	1180	NA	NA	248	288.6	NA	NA
672	Lab	NA	NA	NA	NA	NA	NA	NA

Appendix A
Table A-1
Results of All Surface Soil Samples Collected by Jacobs Engineering
Site Inspection
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	Method	Drip	Yard-NE	Yard-SE	Yard-SW	Yard-NW	Garden	Play
673	XRF	1040	240.1	178.1	337.3	292	NA	NA
673	Lab	NA	NA	246	NA	NA	NA	NA
674	XRF	259.6	ND	NA	NA	NA	NA	129.8
674	Lab	NA	NA	NA	NA	NA	NA	NA
675	XRF	452.7	NA	NA	340.7	209.1	86	NA
675	Lab	NA	NA	NA	441	NA	NA	NA
676	XRF	778	157.6	101.5	341.7	301.6	NA	NA
676	Lab	NA	NA	NA	NA	NA	NA	NA
677	XRF	746	249	204.1	256.3	235.3	NA	NA
677	Lab	NA	NA	279	NA	NA	NA	NA
678	XRF	462	261.6	227.8	159.6	246	216	NA
678	Lab	NA	NA	NA	NA	NA	NA	NA
679	XRF	1340	543.2	120.5	463.2	151.5	NA	NA
679	Lab	NA	NA	NA	NA	NA	NA	NA
680	XRF	118.5	96.9	NA	192.5	84.5	NA	NA
680	Lab	NA	NA	NA	NA	NA	NA	NA
681	XRF	ND	38.7	66.8	ND	171.5	NA	NA
681	Lab	NA	NA	NA	NA	NA	NA	NA
682	XRF	1129.5	NA	226.1	NA	NA	NA	273
682	Lab	NA	NA	NA	NA	NA	NA	NA
683	XRF	541.2	120.9	66.5	ND	93	NA	NA
683	Lab	NA	NA	NA	NA	NA	NA	NA
684	XRF	272.3	87.9	120.3	195.1	78.4	NA	NA
684	Lab	NA	NA	NA	NA	NA	NA	NA
685	XRF	1260	54.4	NA	138.8	134.5	NA	NA
685	Lab	NA	NA	NA	NA	NA	NA	NA
686	XRF	1680	77.6	NA	NA	59.5	NA	110.5
686	Lab	NA	NA	NA	NA	NA	NA	NA
687	XRF	58.2	143	78.6	46.7	78.5	NA	116.4
687	Lab	NA	128	NA	NA	NA	NA	NA
688	XRF	262.7	131	326.3	NA	206	NA	NA
688	Lab	NA	NA	NA	NA	NA	NA	NA
689	XRF	72.9	93.8	57.7	111.9	62	NA	NA
689	Lab	NA	NA	NA	NA	NA	NA	NA
690	XRF	812.4	226.3	76.5	3488	411.6	NA	NA
690	Lab	NA	NA	NA	3200	430	NA	NA
691	XRF	687.5	NA	95.6	214.1	239.3	NA	NA
691	Lab	NA	NA	NA	NA	NA	NA	NA
692	XRF	NA	82.5	NA	84.5	112	NA	NA
692	Lab	NA	NA	NA	NA	NA	NA	NA
693	XRF	1689.5	NA	198.1	120.3	57.7	NA	NA
693	Lab	1810	NA	NA	NA	NA	NA	NA
694	XRF	706.7	115.5	NA	128.3	54.9	310.3	NA
694	Lab	NA	NA	NA	NA	NA	319	NA
695	XRF	1120	199.5	NA	354.7	185.5	175.8	NA
695	Lab	NA	NA	NA	321	NA	NA	NA
696	XRF	60.7	140.3	60	66.6	NA	ND	NA

Appendix A
Table A-1
Results of All Surface Soil Samples Collected by Jacobs Engineering
Site Inspection
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	Method	Drip	Yard-NE	Yard-SE	Yard-SW	Yard-NW	Garden	Play
696	Lab	NA	NA	NA	460	NA	NA	NA
697	XRF	187.8	85.3	277.2	76.5	83.9	NA	NA
697	Lab	NA	NA	NA	NA	NA	NA	NA
698	XRF	292.7	260.3	NA	NA	320	NA	NA
698	Lab	NA	NA	NA	NA	NA	NA	NA
699	XRF	288.3	274.3	NA	146.3	NA	NA	NA
699	Lab	NA	NA	NA	NA	NA	NA	NA
700	XRF	209.8	229	141.5	531.2	762	NA	163.1
700	Lab	NA	NA	NA	NA	NA	NA	NA
701	XRF	934.4	254	660	566.7	188.5	NA	NA
701	Lab	NA	NA	NA	NA	NA	NA	NA
702	XRF	1809.5	160.3	272	212.6	80.5	NA	NA
702	Lab	1440	NA	NA	191	NA	NA	NA
703	XRF	265.6	267.7	68	100.3	547.5	NA	NA
703	Lab	NA	NA	NA	NA	NA	NA	NA
704	XRF	277.7	853.5	303.6	420.3	176.5	NA	NA
704	Lab	NA	615	NA	NA	NA	NA	NA
705	XRF	1400	263.2	121.1	320.2	106.3	NA	NA
705	Lab	NA	NA	NA	NA	NA	NA	NA
706	XRF	1000	134.6	462.7	366	351.2	NA	NA
706	Lab	NA	NA	715	NA	NA	NA	NA
707	XRF	798.4	159.1	158.3	222.8	428	1689.5	NA
707	Lab	NA	NA	NA	NA	NA	2160	NA
710	XRF	1409.5	452.7	288.2	841.5	529.2	NA	NA
710	Lab	NA	NA	305	NA	850	NA	NA
711	XRF	3337.6	270.2	172.3	182.6	379.6	177.3	NA
711	Lab	NA	NA	NA	NA	NA	NA	NA
712	XRF	732.4	356.3	119	193.3	424.7	NA	NA
712	Lab	NA	NA	NA	NA	382	NA	NA
713	XRF	1149.5	384.6	158.6	377	350.2	NA	NA
713	Lab	NA	NA	NA	NA	NA	NA	NA
714	XRF	1520	102	101.1	188.6	150.3	NA	NA
714	Lab	NA	NA	NA	NA	NA	NA	NA
715	XRF	168	190.8	ND	127.5	273.7	NA	NA
715	Lab	NA	NA	NA	NA	NA	NA	NA
716	XRF	5488	282.7	160.3	110.5	309.7	NA	NA
716	Lab	NA	244	NA	NA	NA	NA	NA
717	XRF	1849.5	551.5	401.6	366.2	604.7	NA	NA
717	Lab	NA	NA	NA	323	NA	NA	NA
718	XRF	62.7	82.3	164.5	103.8	97.5	NA	NA
718	Lab	NA	NA	NA	NA	NA	NA	NA
719	XRF	ND	81	71.5	118.1	82.6	NA	NA
719	Lab	NA	NA	NA	NA	NA	NA	NA
720	XRF	2569.6	437.6	444.7	NA	826.4	NA	NA
720	Lab	NA	NA	NA	NA	NA	NA	NA
721	XRF	1540	884.7	NA	NA	NA	NA	NA
721	Lab	NA	NA	NA	NA	NA	NA	NA

Appendix A
Table A-1
Results of All Surface Soil Samples Collected by Jacobs Engineering
Site Inspection
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	Method	Drip	Yard-NE	Yard-SE	Yard-SW	Yard-NW	Garden	Play
722	XRF	445.2	369.6	287.7	256	261.2	NA	NA
722	Lab	NA	NA	NA	NA	NA	NA	NA
723	XRF	554.7	228.1	305.6	214.1	41.5	NA	NA
723	Lab	NA	NA	NA	NA	NA	NA	NA
724	XRF	85.4	59.5	57.7	ND	54	NA	NA
724	Lab	NA	29	NA	NA	NA	NA	NA
725	XRF	1689.5	162.5	378.2	404	155.3	NA	NA
725	Lab	NA	NA	NA	NA	NA	NA	NA
726	XRF	4969.6	NA	908.7	373.2	526.7	NA	NA
726	Lab	NA	NA	NA	NA	NA	NA	NA
727	XRF	1160	431.2	117	90.5	262	NA	NA
727	Lab	728	NA	NA	NA	NA	NA	NA
728	XRF	838.4	330.7	236.3	441.6	396.6	NA	NA
728	Lab	874	NA	NA	NA	NA	NA	NA
729	XRF	1340	NA	666	566	256.3	NA	NA
729	Lab	NA	NA	NA	NA	NA	NA	NA
730	XRF	2080	61.4	104.3	199.1	354.2	NA	NA
730	Lab	NA	NA	NA	NA	NA	NA	NA
731	XRF	67.4	ND	53.5	36.9	40.2	NA	NA
731	Lab	NA	NA	NA	27	NA	NA	NA
732	XRF	NA	79.5	ND	70	NA	NA	NA
732	Lab	NA	NA	NA	NA	NA	NA	NA
733	XRF	295	184.1	NA	1929.5	156.8	NA	NA
733	Lab	NA	NA	NA	NA	NA	NA	NA
734	XRF	3558.3	202.8	293.6	148.8	253.3	NA	NA
734	Lab	NA	NA	NA	NA	NA	NA	NA
735	XRF	979.2	NA	317	291.3	455.2	NA	NA
735	Lab	ND	NA	NA	NA	NA	NA	NA
736	XRF	649.2	NA	NA	177.8	56.5	NA	NA
736	Lab	NA	NA	NA	NA	NA	NA	NA
737	XRF	1100	113.8	163.8	93.3	76	NA	NA
737	Lab	NA	NA	NA	NA	NA	NA	NA
738	XRF	496.3	308.7	133.6	300	122	330.2	NA
738	Lab	NA	NA	NA	NA	NA	NA	NA
739	XRF	702	226.6	317.7	336	828.7	NA	NA
739	Lab	NA	NA	NA	NA	810	NA	NA
740	XRF	341.6	NA	162	230.3	77.5	NA	NA
740	Lab	NA	NA	NA	NA	NA	NA	NA
741	XRF	868.7	453.2	686.7	1129.5	276.3	200.8	NA
741	Lab	NA	NA	NA	1270	NA	NA	NA
742	XRF	2209.6	371.3	201.1	82	173.8	NA	NA
742	Lab	NA	NA	NA	NA	NA	NA	NA
743	XRF	273.6	86.1	358.3	170.1	254.3	NA	NA
743	Lab	NA	NA	NA	NA	NA	NA	NA
744	XRF	1009.5	431.6	245.6	135.8	936.7	NA	NA
744	Lab	NA	343	NA	NA	NA	NA	NA
745	XRF	156	155.6	430	NA	84	NA	NA

Appendix A
Table A-1
Results of All Surface Soil Samples Collected by Jacobs Engineering
Site Inspection
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	Method	Drip	Yard-NE	Yard-SE	Yard-SW	Yard-NW	Garden	Play
745	Lab	NA	NA	NA	NA	NA	NA	NA
746	XRF	251.8	NA	94.8	185.6	321.6	NA	NA
746	Lab	NA	NA	NA	NA	NA	NA	NA
747	XRF	138	103.4	303.3	376	93.1	NA	NA
747	Lab	NA	NA	NA	NA	NA	NA	NA
748	XRF	1609.5	135	209.8	667.5	270.6	NA	NA
748	Lab	NA	NA	NA	NA	NA	NA	NA
749	XRF	NA	1229.5	1589.5	NA	NA	NA	NA
749	Lab	NA	NA	NA	NA	NA	NA	NA
750	XRF	539.5	NA	436	126.5	NA	NA	NA
750	Lab	NA	NA	NA	NA	NA	NA	NA
751	XRF	77	145.6	59	ND	51.2	NA	NA
751	Lab	NA	NA	NA	NA	NA	NA	NA
752	XRF	ND	183.1	99.6	80.9	55	NA	NA
752	Lab	NA	NA	NA	NA	NA	NA	NA
753	XRF	3347.1	NA	403.2	280.3	NA	NA	NA
753	Lab	NA	NA	NA	NA	NA	NA	NA
754	XRF	370.7	448.7	NA	140.3	344.2	NA	NA
754	Lab	NA	NA	NA	NA	213	NA	NA
755	XRF	507.6	84.9	66.5	NA	76	NA	NA
755	Lab	423	NA	NA	NA	NA	NA	NA
756	XRF	NA	101.5	NA	NA	125.1	97	NA
756	Lab	NA	NA	NA	NA	NA	NA	NA
757	XRF	314.7	NA	72	87.5	101.4	NA	NA
757	Lab	NA	NA	NA	NA	NA	NA	NA
758	XRF	688.7	ND	ND	NA	ND	NA	NA
758	Lab	NA	NA	NA	NA	NA	NA	NA
759	XRF	288.7	239.8	421.2	354.7	398.6	NA	NA
759	Lab	NA	NA	NA	NA	632	NA	NA
760	XRF	456.7	141.3	56	116.1	230.1	NA	NA
760	Lab	NA	NA	NA	NA	NA	NA	NA
761	XRF	3299.1	82.6	ND	106	197.5	NA	NA
761	Lab	3180	NA	NA	87.6	NA	NA	NA
762	XRF	1229.5	81	347	NA	69.9	NA	NA
762	Lab	1400	NA	NA	NA	NA	NA	NA
763	XRF	ND	89.8	77.1	116.4	82.5	NA	NA
763	Lab	NA	NA	NA	NA	NA	NA	NA
764	XRF	860	92.1	141.6	51	134.8	NA	NA
764	Lab	NA	NA	NA	NA	NA	NA	NA
765	XRF	205	172.5	181.6	126.1	146.8	99.5	NA
765	Lab	NA	NA	NA	NA	NA	NA	NA
766	XRF	75.4	41.7	34.2	49	NA	NA	NA
766	Lab	NA	NA	NA	NA	NA	NA	NA
767	XRF	ND	203.8	42.7	323	501.2	NA	NA
767	Lab	ND	NA	NA	NA	NA	NA	NA
768	XRF	210	1240	686.4	472	330.2	NA	NA
768	Lab	NA	NA	NA	NA	NA	NA	NA

Appendix A
Table A-1
Results of All Surface Soil Samples Collected by Jacobs Engineering
Site Inspection
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	Method	Drip	Yard-NE	Yard-SE	Yard-SW	Yard-NW	Garden	Play
769	XRF	130.3	ND	100	169.8	168.1	NA	NA
769	Lab	NA	NA	85.6	NA	NA	NA	NA
770	XRF	501.6	155.3	115.3	106.8	106.6	NA	NA
770	Lab	NA	NA	NA	91	NA	NA	NA
771	XRF	282.2	319.3	556.4	187.5	111.3	NA	NA
771	Lab	NA	NA	NA	NA	NA	NA	NA
772	XRF	475.6	50.5	96.5	71	96.3	NA	NA
772	Lab	NA	NA	83.4	NA	NA	NA	NA
773	XRF	NA	ND	NA	NA	68.9	NA	376.6
773	Lab	NA	NA	NA	NA	NA	NA	384
774	XRF	1800	252.8	168.1	203.1	217.8	NA	123.3
774	Lab	NA	NA	NA	NA	NA	NA	NA
775	XRF	1460	NA	71.3	101.5	139.6	NA	NA
775	Lab	NA	NA	NA	NA	NA	NA	NA
776	XRF	159	87.6	135.1	92.6	56.5	NA	NA
776	Lab	NA	NA	NA	NA	NA	NA	NA
777	XRF	912.7	882.4	551.5	126.9	724.4	NA	NA
777	Lab	NA	NA	NA	NA	NA	NA	NA
778	XRF	1429.5	288.7	210	195.1	230	NA	476
778	Lab	NA	NA	NA	NA	NA	NA	477
779	XRF	506.3	194.6	193.6	NA	210.6	190.1	NA
779	Lab	2110	NA	NA	NA	NA	98.5	NA
780	XRF	1480	222.3	562.4	113	177.8	NA	NA
780	Lab	NA	NA	NA	NA	NA	NA	NA
781	XRF	851.2	670.7	NA	279.3	349.2	NA	NA
781	Lab	NA	577	NA	NA	NA	NA	NA
782	XRF	508	NA	155.3	110.1	347	NA	NA
782	Lab	NA	NA	NA	NA	NA	NA	NA
783	XRF	106.3	73.3	248.8	73	204.1	NA	NA
783	Lab	NA	NA	NA	NA	NA	NA	NA
784	XRF	1629.5	487.6	451.6	592.4	373.3	NA	NA
784	Lab	NA	NA	NA	NA	NA	NA	NA
786	XRF	ND	111.5	76	45.7	54	NA	NA
786	Lab	NA	NA	NA	NA	NA	NA	NA
787	XRF	1169.5	295.2	NA	143.8	152.8	NA	NA
787	Lab	1280	NA	NA	NA	NA	NA	NA
788	XRF	716.4	204.6	86	141.5	278.7	NA	NA
788	Lab	728	NA	NA	NA	NA	NA	NA
790	XRF	619.2	143.1	264.3	114.3	62.9	NA	NA
790	Lab	NA	NA	NA	NA	NA	NA	NA
791	XRF	359.6	196.3	135.8	108.3	687.2	NA	NA
791	Lab	NA	NA	NA	NA	646	NA	NA
792	XRF	647.2	1049.5	64.3	152.8	108.5	NA	NA
792	Lab	NA	1080	NA	NA	NA	NA	NA
793	XRF	306.7	243.1	269.6	209.8	266.3	NA	NA
793	Lab	253	NA	251	NA	NA	NA	NA
794	XRF	879.2	92.5	204.1	NA	196.6	NA	NA

Appendix A
Table A-1
Results of All Surface Soil Samples Collected by Jacobs Engineering
Site Inspection
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	Method	Drip	Yard-NE	Yard-SE	Yard-SW	Yard-NW	Garden	Play
794	Lab	NA	NA	NA	NA	218	NA	NA
795	XRF	558	181.5	244.8	980	114.1	NA	NA
795	Lab	NA	NA	NA	269	NA	NA	NA
796	XRF	ND	75.9	76.3	106.9	144	NA	NA
796	Lab	NA	NA	NA	113	NA	NA	NA
797	XRF	NA	104.5	NA	261.6	119.1	NA	NA
797	Lab	NA	NA	NA	NA	NA	NA	NA
798	XRF	129.8	61.5	182.3	58	ND	NA	NA
798	Lab	NA	NA	NA	NA	NA	NA	NA
799	XRF	3427.1	119.5	131.3	186.1	169.1	NA	NA
799	Lab	5030	NA	NA	NA	NA	NA	NA
800	XRF	1649.5	NA	NA	391.6	267.6	297.2	NA
800	Lab	2190	NA	NA	NA	NA	254	NA
801	XRF	274.7	273.3	117.6	300.7	275.2	347.6	NA
801	Lab	NA	NA	NA	NA	NA	NA	NA
802	XRF	147.6	170.1	223.1	96.9	136.3	180.3	NA
802	Lab	NA	NA	NA	NA	NA	NA	NA
803	XRF	321.6	106.4	174.1	160.8	103.6	NA	NA
803	Lab	NA	NA	NA	NA	NA	NA	NA
804	XRF	337.2	105.4	69.5	ND	83.8	ND	NA
804	Lab	NA	NA	NA	NA	NA	35.2	NA
805	XRF	61.9	239.6	101.5	ND	672	NA	NA
805	Lab	NA	NA	NA	NA	NA	NA	NA
806	XRF	1620	527.2	490	353.6	69.3	NA	225.6
806	Lab	NA	NA	NA	NA	NA	NA	NA
807	XRF	93.6	146.5	157.6	93.5	177.6	NA	NA
807	Lab	NA	NA	NA	NA	NA	NA	NA
808	XRF	3169.6	NA	178.5	213	NA	NA	NA
808	Lab	NA	NA	NA	NA	NA	NA	NA
809	XRF	1049.5	131.8	77.5	125.8	103	NA	212.1
809	Lab	1100	NA	NA	NA	NA	NA	NA
810	XRF	106	88.5	65.4	82.5	109.1	NA	NA
810	Lab	NA	NA	NA	NA	NA	NA	NA
811	XRF	290.2	200.8	NA	170.5	164.3	NA	NA
811	Lab	NA	NA	NA	NA	NA	NA	NA
812	XRF	340.6	278.6	231.6	153.1	154.6	NA	NA
812	Lab	NA	NA	NA	NA	NA	NA	NA
813	XRF	6816	NA	147.8	69.8	NA	NA	NA
813	Lab	NA	NA	NA	NA	NA	NA	NA
815	XRF	166.5	42	NA	249.8	197.8	NA	NA
815	Lab	NA	NA	NA	NA	NA	NA	NA
816	XRF	816.7	89.9	110.8	80.9	NA	NA	NA
816	Lab	NA	NA	NA	NA	NA	NA	NA
817	XRF	224.6	83.4	130.1	172.5	94.4	NA	NA
817	Lab	NA	NA	NA	NA	NA	NA	NA
818	XRF	1060	2569.6	332.7	1560	222.3	NA	NA
818	Lab	NA	3520	246	NA	NA	NA	NA

Appendix A
Table A-1
Results of All Surface Soil Samples Collected by Jacobs Engineering
Site Inspection
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	Method	Drip	Yard-NE	Yard-SE	Yard-SW	Yard-NW	Garden	Play
819	XRF	644.7	195.1	161.1	134.8	432	NA	NA
819	Lab	NA	NA	NA	NA	406	NA	NA
820	XRF	2840	155	208.1	164.6	237.1	NA	NA
820	Lab	5990	131	NA	NA	NA	NA	NA
821	XRF	549.2	115	276.3	278.6	130.3	NA	126.9
821	Lab	NA	NA	NA	NA	NA	NA	NA
822	XRF	6160	146.6	301.7	NA	162	NA	520.7
822	Lab	NA	NA	NA	NA	NA	NA	500
823	XRF	ND	NA	52.5	63.7	ND	NA	NA
823	Lab	NA	NA	NA	NA	NA	NA	NA
824	XRF	NA	229.3	156.5	175.8	88.1	NA	NA
824	Lab	NA	NA	NA	NA	NA	NA	NA
825	XRF	924.7	334.6	NA	NA	191.8	NA	366
825	Lab	NA	NA	NA	NA	NA	NA	NA
827	XRF	43	39.7	ND	137.3	NA	NA	ND
827	Lab	NA	NA	NA	NA	NA	NA	NA
828	XRF	1029.5	203.3	187.5	287.3	103	88	NA
828	Lab	NA	NA	NA	NA	NA	105	NA
829	XRF	NA	191.6	159	387.2	266.2	NA	NA
829	Lab	NA	NA	NA	NA	NA	NA	NA
830	XRF	ND	116.5	NA	52.5	68.5	NA	NA
830	Lab	NA	NA	NA	NA	NA	NA	NA
831	XRF	119.3	NA	127.6	129.5	113.1	NA	NA
831	Lab	NA	NA	171	NA	NA	NA	NA
832	XRF	121.3	95.6	121	114.8	99.5	NA	NA
832	Lab	NA	NA	NA	NA	NA	NA	NA
833	XRF	50.2	88.4	55.5	210.6	82	NA	NA
833	Lab	NA	NA	NA	NA	NA	NA	NA
834	XRF	NA	NA	NA	136	NA	NA	NA
834	Lab	NA	NA	NA	NA	NA	NA	NA
835	XRF	1169.5	169.1	160.8	96.8	176.1	NA	NA
835	Lab	NA	NA	NA	NA	NA	NA	NA
836	XRF	1320	133.1	397.6	302.7	133.6	NA	NA
836	Lab	1360	NA	NA	NA	NA	NA	NA
837	XRF	802	307.7	108.6	80.5	152.1	NA	67.8
837	Lab	NA	NA	73.3	NA	NA	NA	NA
838	XRF	518.4	333.7	118.8	304.7	137.3	NA	NA
838	Lab	NA	NA	NA	NA	NA	NA	NA
839	XRF	507.2	111.5	120.5	110	215.8	NA	NA
839	Lab	NA	NA	NA	NA	NA	NA	NA
840	XRF	68.5	140.3	76	108	118.5	NA	NA
840	Lab	NA	NA	NA	NA	NA	NA	NA
841	XRF	66.6	309	308.2	202.6	303.3	NA	NA
841	Lab	NA	NA	NA	NA	NA	NA	NA
842	XRF	2640	NA	NA	94	262.6	197.1	168
842	Lab	NA	NA	NA	NA	NA	NA	NA
843	XRF	1708.8	301.7	194.1	387.6	100.6	NA	NA

Appendix A
Table A-1
Results of All Surface Soil Samples Collected by Jacobs Engineering
Site Inspection
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	Method	Drip	Yard-NE	Yard-SE	Yard-SW	Yard-NW	Garden	Play
843	Lab	NA	NA	NA	568	NA	NA	NA
844	XRF	975.2	147.3	340	177.6	160.8	NA	NA
844	Lab	NA	NA	NA	NA	NA	NA	NA
845	XRF	5459.2	237.1	209	191.8	160.3	NA	NA
845	Lab	NA	NA	NA	NA	NA	NA	NA
846	XRF	NA	NA	NA	87.5	99.5	NA	NA
846	Lab	NA	NA	NA	NA	NA	NA	NA
847	XRF	2899.1	512	126	357.7	257.7	NA	NA
847	Lab	11300	195	NA	NA	NA	NA	NA
848	XRF	1260	320.7	221.3	244.8	234	44.2	NA
848	Lab	NA	NA	NA	NA	NA	NA	NA
849	XRF	2108.8	100.5	119	254.3	125	NA	NA
849	Lab	3060	NA	NA	NA	NA	NA	NA
850	XRF	912.7	353.6	239	150.5	1589.5	NA	NA
850	Lab	NA	NA	NA	NA	1880	NA	NA
851	XRF	839.2	260.6	138	164.1	277.2	NA	378.6
851	Lab	NA	NA	NA	NA	NA	NA	NA
852	XRF	2320	NA	252.8	302	217.1	NA	NA
852	Lab	3270	NA	NA	NA	NA	NA	NA
853	XRF	ND	65.5	NA	168	101.5	NA	NA
853	Lab	NA	NA	NA	NA	NA	NA	NA
854	XRF	167.3	NA	NA	150.5	106.1	188.8	NA
854	Lab	NA	NA	NA	NA	NA	NA	NA
855	XRF	471.6	141.3	ND	96.8	123.5	NA	NA
855	Lab	NA	NA	NA	NA	123	NA	NA
856	XRF	1460	146.6	156.1	168.5	131.5	NA	NA
856	Lab	NA	NA	NA	NA	NA	NA	NA
857	XRF	1029.5	NA	87.3	214.1	198.5	NA	NA
857	Lab	NA	NA	NA	NA	NA	NA	NA
858	XRF	901.5	493.2	153.8	156	654.4	174.6	NA
858	Lab	NA	NA	NA	NA	615	NA	NA
859	XRF	2099.1	258.3	469.6	255.6	226.1	277.7	NA
859	Lab	NA	NA	NA	NA	NA	NA	NA
860	XRF	816.4	215.8	124.3	259	NA	NA	175.1
860	Lab	NA	NA	NA	NA	NA	NA	NA
861	XRF	464.7	704	246.1	211.1	273.2	NA	NA
861	Lab	NA	NA	NA	NA	NA	NA	NA
862	XRF	876.7	NA	444.7	NA	NA	NA	387.7
862	Lab	NA	NA	421	NA	NA	NA	NA
863	XRF	1460	114.8	NA	345.6	94.3	NA	174.1
863	Lab	NA	NA	NA	NA	NA	NA	NA
864	XRF	662.4	101.4	107.6	203.8	224.1	91.4	NA
864	Lab	NA	NA	NA	456	NA	NA	NA
865	XRF	1080	NA	145	117.1	NA	NA	180.1
865	Lab	NA	NA	146	NA	NA	NA	NA
866	XRF	192.3	119.1	63.7	225.1	62.5	ND	NA
866	Lab	NA	NA	NA	NA	NA	NA	NA

Appendix A
Table A-1
Results of All Surface Soil Samples Collected by Jacobs Engineering
Site Inspection
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	Method	Drip	Yard-NE	Yard-SE	Yard-SW	Yard-NW	Garden	Play
867	XRF	375.2	360.3	975.2	NA	255.6	NA	NA
867	Lab	NA	NA	447	NA	NA	NA	NA
868	XRF	ND	ND	NA	46.4	58	NA	NA
868	Lab	NA	NA	NA	NA	NA	NA	NA
869	XRF	NA	NA	144.6	139	160.3	NA	NA
869	Lab	NA	NA	NA	NA	NA	NA	NA
870	XRF	521.5	125.4	NA	NA	NA	ND	145.3
870	Lab	NA	NA	NA	NA	NA	NA	104
871	XRF	ND	NA	656	198.3	284	NA	NA
871	Lab	NA	NA	NA	NA	NA	NA	NA
872	XRF	ND	60.2	53.5	ND	73	NA	59.7
872	Lab	NA	NA	NA	NA	NA	NA	NA
873	XRF	483.6	167.5	99.8	126.6	185.1	NA	NA
873	Lab	NA	NA	NA	NA	NA	NA	NA
874	XRF	1649.5	444.3	254.6	NA	NA	NA	NA
874	Lab	1800	571	NA	NA	NA	NA	NA
875	XRF	NA	132.6	169.1	152.3	180.6	392	NA
875	Lab	NA	NA	NA	NA	NA	NA	NA
876	XRF	312.7	185.8	173.5	291.2	113.5	NA	NA
876	Lab	NA	NA	NA	NA	NA	NA	NA
877	XRF	NA	289	276.7	254.3	310.7	NA	NA
877	Lab	NA	NA	NA	NA	339	NA	NA
878	XRF	63.7	ND	ND	NA	33.2	NA	58.2
878	Lab	NA	NA	NA	NA	NA	NA	NA
879	XRF	5987.2	224.3	NA	342.6	343.6	NA	NA
879	Lab	NA	NA	NA	NA	NA	NA	NA
880	XRF	74.5	ND	43.7	69.5	ND	NA	NA
880	Lab	NA	NA	NA	NA	13	NA	NA
881	XRF	46.2	ND	38	60.2	97.5	NA	ND
881	Lab	NA	NA	27.8	NA	NA	NA	NA
882	XRF	230.1	165.8	121	223.1	NA	NA	232.1
882	Lab	NA	NA	NA	NA	NA	NA	NA
883	XRF	228.1	205.8	183.6	164.5	NA	NA	NA
883	Lab	NA	NA	NA	NA	NA	NA	NA
884	XRF	584.4	201.3	255.8	708.7	483.2	NA	NA
884	Lab	NA	NA	NA	NA	NA	NA	NA
885	XRF	278	ND	NA	218.1	86.5	NA	NA
885	Lab	NA	NA	NA	NA	NA	NA	NA
886	XRF	94.5	ND	56.7	68.4	51.7	42.2	NA
886	Lab	NA	NA	NA	NA	NA	NA	NA
887	XRF	63.4	ND	81.5	56	45.5	131.1	ND
887	Lab	NA	NA	NA	NA	NA	NA	NA
888	XRF	961.5	NA	837.5	245	NA	NA	NA
888	Lab	NA	NA	NA	NA	NA	NA	NA
889	XRF	214.8	69.1	ND	ND	88	NA	NA
889	Lab	NA	NA	NA	NA	NA	NA	NA
890	XRF	78.3	ND	ND	ND	75.4	NA	NA

Appendix A
Table A-1
Results of All Surface Soil Samples Collected by Jacobs Engineering
Site Inspection
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	Method	Drip	Yard-NE	Yard-SE	Yard-SW	Yard-NW	Garden	Play
890	Lab	NA	NA	NA	NA	NA	NA	NA
891	XRF	378.6	NA	516.7	368.7	NA	NA	492.7
891	Lab	NA	NA	500	NA	NA	NA	515
892	XRF	ND	NA	147.8	ND	68.4	NA	NA
892	Lab	NA	NA	NA	NA	51	NA	NA
893	XRF	67.6	56	NA	124.6	ND	153.6	NA
893	Lab	NA	NA	NA	NA	NA	NA	NA
894	XRF	94	75.9	NA	NA	83.5	NA	NA
894	Lab	NA	75	NA	NA	NA	NA	NA
895	XRF	55.4	ND	63.7	ND	ND	NA	ND
895	Lab	NA	NA	NA	NA	NA	NA	NA
896	XRF	119.4	89.8	NA	NA	NA	NA	NA
896	Lab	NA	NA	NA	NA	NA	NA	NA
897	XRF	1029.5	453.2	462	258.7	106.8	NA	NA
897	Lab	NA	NA	NA	NA	NA	NA	NA
898	XRF	1739.1	164.8	167.5	202.8	573.5	NA	NA
898	Lab	NA	NA	120	NA	NA	NA	NA
899	XRF	1020	48.2	59.7	NA	290.3	NA	NA
899	Lab	NA	NA	NA	NA	NA	NA	NA
900	XRF	763.2	173.6	292.7	139.8	127.1	NA	72.6
900	Lab	474	NA	NA	NA	NA	NA	NA
901	XRF	75.4	91.8	181.6	157.1	NA	NA	NA
901	Lab	NA	NA	NA	NA	NA	NA	NA
902	XRF	728.7	NA	NA	843.2	356.6	NA	NA
902	Lab	NA	NA	NA	816	NA	NA	NA
903	XRF	188.8	55.9	60.7	NA	50.2	NA	NA
903	Lab	NA	NA	NA	NA	NA	NA	NA
904	XRF	NA	106.1	108.3	170.6	67.5	NA	NA
904	Lab	NA	NA	NA	NA	NA	NA	NA
905	XRF	NA	79.6	169.1	NA	NA	NA	NA
905	Lab	NA	NA	95.9	NA	NA	NA	NA
906	XRF	1120	176.1	703.2	401.3	536	NA	NA
906	Lab	NA	NA	627	863	NA	NA	NA
907	XRF	81.3	NA	NA	NA	NA	NA	NA
907	Lab	NA	NA	NA	NA	NA	NA	NA
908	XRF	67.8	ND	58.7	NA	52.2	NA	NA
908	Lab	NA	NA	NA	NA	NA	NA	NA
909	XRF	NA	491.6	336.2	195.6	723.2	NA	514.4
909	Lab	NA	NA	273	NA	NA	NA	NA
911	XRF	725.5	137	184.3	NA	67.3	NA	NA
911	Lab	NA	NA	NA	NA	NA	NA	NA
912	XRF	247.3	76.6	NA	72	86	NA	NA
912	Lab	NA	NA	NA	NA	NA	NA	NA
913	XRF	NA	53	171.5	85.3	42.7	54	NA
913	Lab	NA	NA	NA	NA	NA	NA	NA
914	XRF	648.7	370.6	237.3	133.3	76	NA	NA
914	Lab	NA	140	NA	NA	NA	NA	NA

Appendix A
Table A-1
Results of All Surface Soil Samples Collected by Jacobs Engineering
Site Inspection
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	Method	Drip	Yard-NE	Yard-SE	Yard-SW	Yard-NW	Garden	Play
915	XRF	415.2	63.2	92.1	178.5	135.6	NA	NA
915	Lab	NA	NA	NA	NA	NA	NA	NA
916	XRF	364.2	95.9	85.9	62.2	NA	NA	NA
916	Lab	397	96.6	NA	NA	NA	NA	NA
917	XRF	242.1	62	250	96.6	178.1	NA	NA
917	Lab	NA	NA	NA	NA	215	NA	NA
918	XRF	498	63.5	178.8	NA	63.5	NA	NA
918	Lab	NA	51.4	NA	NA	NA	NA	NA
919	XRF	1220	114	203.1	158.1	103.8	NA	NA
919	Lab	NA	NA	NA	NA	NA	NA	NA
920	XRF	270.7	154	NA	162.1	95.6	NA	NA
920	Lab	NA	NA	NA	NA	138	NA	NA
921	XRF	NA	179.8	96.6	138.3	170.6	168.6	NA
921	Lab	NA	NA	76	NA	NA	NA	NA
922	XRF	76.3	ND	55.4	70.8	76.9	NA	NA
922	Lab	NA	NA	NA	NA	NA	NA	NA
923	XRF	67.6	79	85.1	101.5	NA	ND	NA
923	Lab	NA	NA	NA	NA	NA	NA	NA
924	XRF	1540	NA	173.5	2049.6	639.5	323.7	NA
924	Lab	NA	NA	NA	3870	NA	NA	NA
925	XRF	118.4	45.7	59	59.5	63	NA	NA
925	Lab	150	NA	NA	NA	NA	NA	NA
926	XRF	216.3	81.8	NA	124.9	82.6	NA	195.6
926	Lab	NA	NA	NA	NA	NA	NA	NA
927	XRF	331.2	ND	NA	123.3	ND	NA	NA
927	Lab	NA	NA	NA	NA	NA	NA	NA
928	XRF	825.5	310.7	475.6	240.3	233	NA	NA
928	Lab	NA	250	NA	NA	NA	NA	NA
929	XRF	960	324.6	182	100.4	176.1	NA	85.5
929	Lab	867	189	NA	NA	NA	NA	NA
930	XRF	67.4	88.5	67.9	94.9	54	NA	NA
930	Lab	NA	NA	NA	NA	NA	NA	NA
931	XRF	118.3	186.8	128.1	NA	88	NA	NA
931	Lab	NA	NA	NA	NA	NA	NA	NA
933	XRF	831.2	409	NA	NA	317.7	NA	NA
933	Lab	NA	NA	NA	NA	NA	NA	NA
934	XRF	ND	45.7	NA	40.2	ND	NA	NA
934	Lab	NA	NA	NA	NA	NA	NA	NA
935	XRF	ND	ND	ND	ND	ND	NA	ND
935	Lab	NA	NA	NA	NA	NA	NA	NA
936	XRF	169.6	96.5	NA	79.4	135.3	NA	NA
936	Lab	NA	NA	NA	NA	126	NA	NA
937	XRF	388.3	240.6	NA	201.8	ND	77	NA
937	Lab	NA	199	NA	NA	NA	NA	NA
938	XRF	NA	ND	ND	NA	90	55.2	NA
938	Lab	NA	NA	30	NA	NA	NA	NA
939	XRF	ND	64.1	NA	NA	41.4	NA	49.2

Appendix A
Table A-1
Results of All Surface Soil Samples Collected by Jacobs Engineering
Site Inspection
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	Method	Drip	Yard-NE	Yard-SE	Yard-SW	Yard-NW	Garden	Play
939	Lab	NA	NA	NA	NA	NA	NA	NA
940	XRF	ND	99.8	57.7	ND	ND	NA	NA
940	Lab	NA	NA	NA	NA	NA	NA	NA
941	XRF	ND	83.9	34	NA	120	89.9	NA
941	Lab	NA	NA	NA	NA	NA	NA	NA
942	XRF	1729.5	82.5	864	367.3	81.9	NA	NA
942	Lab	NA	NA	NA	NA	83.5	NA	NA
943	XRF	98	ND	NA	49.5	59	NA	70
943	Lab	NA	NA	NA	NA	NA	NA	NA
944	XRF	2508.8	244.1	270.2	255.6	856.7	NA	NA
944	Lab	NA	NA	NA	NA	NA	NA	NA
945	XRF	923.2	191.3	285.7	223.6	NA	NA	179.5
945	Lab	NA	NA	236	NA	NA	NA	NA
946	XRF	5299.2	132.1	238.3	120.5	349.2	NA	NA
946	Lab	14400	NA	NA	NA	NA	NA	NA
947	XRF	681.2	77.4	ND	94.5	58.7	NA	70.8
947	Lab	NA	NA	NA	52.7	NA	NA	NA
948	XRF	170.5	304.6	82.6	71.5	90.9	NA	NA
948	Lab	NA	NA	73.5	NA	NA	NA	NA
949	XRF	4268.7	223.1	81.5	163.8	295.6	NA	NA
949	Lab	NA	NA	NA	NA	NA	NA	NA
950	XRF	1160	249.6	335.2	1260	1149.5	NA	NA
950	Lab	NA	NA	NA	NA	922	NA	NA
951	XRF	NA	ND	NA	NA	NA	NA	NA
951	Lab	NA	19.7	NA	NA	NA	NA	NA
952	XRF	57.7	39.9	54.9	ND	86.8	ND	NA
952	Lab	NA	NA	NA	NA	NA	NA	NA
953	XRF	1409.5	1469.5	664	100.4	227.8	NA	NA
953	Lab	1300	2160	NA	259	NA	NA	NA
954	XRF	NA	304	207.6	412.3	252.3	NA	NA
954	Lab	NA	NA	NA	398	NA	NA	NA
955	XRF	709.2	147.3	320	152.1	264	NA	NA
955	Lab	937	NA	NA	NA	NA	NA	NA
956	XRF	2689.6	308.2	79.6	85.3	255	NA	NA
956	Lab	4670	NA	NA	NA	NA	NA	NA
957	XRF	479.6	61.2	139.8	ND	ND	NA	NA
957	Lab	NA	NA	NA	NA	NA	NA	NA
958	XRF	355.2	118.8	260.7	163.6	70	NA	NA
958	Lab	NA	NA	NA	NA	NA	NA	NA
959	XRF	ND	ND	64.1	57.5	66.9	74.8	NA
959	Lab	NA	NA	NA	NA	NA	NA	NA
961	XRF	57.9	91	138.6	ND	98.6	NA	NA
961	Lab	NA	NA	NA	NA	NA	NA	NA
962	XRF	505.6	NA	NA	50.5	105.5	NA	88
962	Lab	NA	NA	NA	NA	NA	NA	133
963	XRF	ND	ND	58.2	ND	ND	ND	NA
963	Lab	NA	NA	NA	NA	NA	NA	NA

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Table A-1
Results of All Surface Soil Samples Collected by Jacobs Engineering
Site Inspection
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	Method	Drip	Yard-NE	Yard-SE	Yard-SW	Yard-NW	Garden	Play
964	XRF	ND	ND	58.5	ND	ND	NA	NA
964	Lab	NA	NA	NA	NA	NA	NA	NA
965	XRF	219.8	108	70.9	91.5	88.5	108.3	NA
965	Lab	NA	NA	NA	NA	NA	NA	NA
966	XRF	1260	233.3	229.8	1760	167.8	NA	NA
966	Lab	NA	NA	NA	2240	NA	NA	NA
967	XRF	2600	208.8	263	294.3	198.5	NA	NA
967	Lab	NA	NA	NA	NA	NA	NA	NA
968	XRF	443.6	212	NA	NA	224	NA	393.7
968	Lab	NA	NA	NA	NA	NA	NA	185
969	XRF	729.2	197.3	179.8	247.3	155.6	NA	NA
969	Lab	NA	NA	NA	NA	NA	NA	NA
970	XRF	1929.5	NA	217.3	225	NA	743.2	NA
970	Lab	NA	NA	NA	NA	NA	3690	NA
971	XRF	440.3	266.7	123.3	96.9	108.9	NA	NA
971	Lab	NA	NA	NA	NA	NA	NA	NA
972	XRF	1169.5	NA	528	145.8	312.6	NA	NA
972	Lab	NA	NA	538	NA	NA	NA	NA
973	XRF	1420	125.3	200	100.6	NA	NA	NA
973	Lab	NA	NA	NA	NA	NA	NA	NA
974	XRF	650.4	NA	127.1	145.8	319.7	NA	NA
974	Lab	NA	NA	NA	NA	NA	NA	NA
975	XRF	2089.6	NA	314.2	303.2	201.6	NA	NA
975	Lab	NA	NA	NA	NA	NA	NA	NA
976	XRF	393	53.7	NA	ND	98.6	NA	82.3
976	Lab	NA	NA	NA	NA	NA	NA	NA
977	XRF	178.6	78	91.4	125.5	167	NA	NA
977	Lab	NA	NA	NA	NA	NA	NA	NA
978	XRF	1540	427.2	NA	NA	438.3	NA	295
978	Lab	NA	NA	NA	NA	NA	NA	NA
979	XRF	396.2	226.3	214.3	171.8	140.6	NA	NA
979	Lab	540	NA	NA	NA	NA	NA	NA
980	XRF	912	165	108.1	81.3	97	NA	NA
980	Lab	NA	NA	117	NA	NA	NA	NA
981	XRF	130.8	219.1	NA	88	NA	NA	186.1
981	Lab	NA	NA	NA	NA	NA	NA	NA
982	XRF	509.6	249.6	282.6	559.2	158	NA	267.3
982	Lab	NA	238	NA	493	NA	NA	NA
983	XRF	806.7	159.8	203.1	352.7	88	NA	NA
983	Lab	NA	NA	NA	NA	NA	NA	NA
984	XRF	1120	83.4	145.6	248.8	100.1	NA	108.9
984	Lab	NA	NA	NA	258	NA	NA	NA
985	XRF	176.1	327	NA	160.6	180.6	NA	144.8
985	Lab	NA	295	NA	NA	NA	NA	NA
986	XRF	ND	ND	ND	ND	ND	NA	NA
986	Lab	NA	NA	NA	NA	NA	NA	NA
987	XRF	NA	NA	ND	NA	NA	NA	NA

Appendix A
Table A-1
Results of All Surface Soil Samples Collected by Jacobs Engineering
Site Inspection
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	Method	Drip	Yard-NE	Yard-SE	Yard-SW	Yard-NW	Garden	Play
987	Lab	NA	NA	23.2	NA	NA	NA	NA
988	XRF	NA	52.9	114.1	240.6	187.8	NA	NA
988	Lab	NA	NA	NA	NA	NA	NA	NA
989	XRF	980.7	606.7	1540	68.9	332.6	NA	705.5
989	Lab	NA	NA	1350	NA	NA	NA	NA
990	XRF	ND	221.1	529.5	370	263.7	NA	NA
990	Lab	NA	NA	NA	NA	NA	NA	NA
991	XRF	ND	333.3	NA	ND	153.8	NA	ND
991	Lab	NA	NA	NA	NA	NA	NA	NA
992	XRF	ND	80.6	ND	61.2	59.5	NA	NA
992	Lab	NA	NA	NA	NA	NA	NA	NA
993	XRF	1659.1	544.4	244.6	96.5	NA	NA	NA
993	Lab	510	NA	NA	NA	NA	NA	NA
994	XRF	68.5	52.2	NA	NA	100.5	108.3	85.3
994	Lab	NA	NA	NA	NA	NA	NA	NA
995	XRF	NA	95.8	197.6	215.8	302	563.2	NA
995	Lab	NA	NA	217	NA	NA	561	NA
996	XRF	279.3	51.9	111	102.4	73.5	NA	NA
996	Lab	NA	NA	NA	NA	NA	NA	NA
997	XRF	1720	NA	233.3	166	NA	235.6	139.3
997	Lab	NA	NA	NA	NA	NA	NA	NA
998	XRF	ND	83.4	232	527.2	168.8	NA	NA
998	Lab	NA	NA	NA	NA	NA	NA	NA
999	XRF	839.2	200.5	163.1	211.3	221.8	195	NA
999	Lab	NA	NA	NA	NA	NA	NA	NA
1000	XRF	2400	373.3	135.1	112.5	NA	NA	431.6
1000	Lab	2340	NA	NA	NA	NA	NA	585
1001	XRF	NA	326.2	341	292	263.2	NA	NA
1001	Lab	NA	NA	NA	NA	NA	NA	NA
1002	XRF	78.3	ND	85.9	ND	118.3	67	NA
1002	Lab	NA	NA	NA	NA	NA	NA	NA
1003	XRF	61.2	54.7	41.4	155.1	75.9	NA	NA
1003	Lab	NA	NA	NA	NA	NA	NA	NA
1004	XRF	77.5	ND	ND	ND	ND	ND	NA
1004	Lab	NA	NA	NA	NA	NA	NA	NA
1005	XRF	2089.6	351.7	NA	262.3	377.2	NA	NA
1005	Lab	NA	NA	NA	NA	NA	NA	NA
1006	XRF	1409.5	182	456.7	252.8	192.6	NA	NA
1006	Lab	NA	NA	312	NA	NA	NA	NA
1007	XRF	2188.8	135	347.2	1120	213	NA	NA
1007	Lab	3080	NA	NA	NA	NA	NA	NA
1008	XRF	80.1	158.5	106.4	67	258	NA	ND
1008	Lab	NA	NA	126	NA	NA	NA	291
1009	XRF	77.4	49.2	168.3	120	ND	NA	NA
1009	Lab	NA	NA	NA	NA	NA	NA	NA
1010	XRF	48.2	48.7	43.5	NA	63	NA	NA
1010	Lab	NA	NA	NA	NA	NA	NA	NA

Appendix A
Table A-1
Results of All Surface Soil Samples Collected by Jacobs Engineering
Site Inspection
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	Method	Drip	Yard-NE	Yard-SE	Yard-SW	Yard-NW	Garden	Play
1011	XRF	602.7	451.6	242	89.5	112.5	NA	NA
1011	Lab	NA	304	NA	NA	NA	NA	NA
1012	XRF	60.4	91	88.8	63.2	110.9	NA	NA
1012	Lab	NA	NA	NA	NA	NA	NA	NA
1013	XRF	244.1	248.1	436.7	181.6	166.1	NA	NA
1013	Lab	NA	NA	NA	NA	NA	NA	NA
1014	XRF	74.4	ND	NA	ND	60.7	59.2	NA
1014	Lab	NA	NA	NA	NA	NA	NA	NA
1015	XRF	85.9	ND	372	NA	111.6	NA	179.1
1015	Lab	NA	NA	NA	NA	NA	NA	138
1016	XRF	115.9	43.4	126.9	132.3	56.7	NA	NA
1016	Lab	NA	NA	NA	NA	NA	NA	NA
1017	XRF	74.5	ND	NA	NA	NA	NA	69.8
1017	Lab	NA	NA	NA	NA	NA	NA	68.5
1019	XRF	ND	91	ND	27.8	40.2	NA	NA
1019	Lab	NA	NA	NA	NA	NA	NA	NA
1020	XRF	127.1	127.3	139.6	403.3	296.7	NA	260.7
1020	Lab	NA	NA	NA	417	NA	NA	NA
1021	XRF	473.2	159.8	129.6	126.8	189.3	NA	NA
1021	Lab	NA	NA	NA	NA	NA	NA	NA
1022	XRF	NA	199.5	165.5	75.5	89	NA	NA
1022	Lab	NA	NA	NA	NA	NA	NA	NA
1023	XRF	ND	ND	37	ND	ND	NA	NA
1023	Lab	NA	NA	18	NA	NA	NA	NA
1024	XRF	1209.5	358.3	285.6	960	313.3	242.6	NA
1024	Lab	NA	NA	NA	NA	NA	NA	NA
1025	XRF	166.8	NA	171.3	98.1	114.1	NA	NA
1025	Lab	NA	NA	NA	74	NA	NA	NA
1026	XRF	2280	366.2	233.8	463.6	426.3	NA	NA
1026	Lab	3650	NA	NA	494	NA	NA	NA
1027	XRF	NA	NA	NA	NA	278.6	NA	NA
1027	Lab	NA	NA	NA	NA	NA	NA	NA
1028	XRF	75.9	166.5	NA	305.6	138	NA	NA
1028	Lab	NA	NA	NA	NA	NA	NA	NA
1029	XRF	478.3	195.3	NA	790.4	344.6	763.5	NA
1029	Lab	NA	NA	NA	924	NA	NA	NA
1030	XRF	34.5	107.3	ND	43.7	79.9	NA	NA
1030	Lab	NA	NA	NA	NA	NA	NA	NA
1031	XRF	62.5	57.2	NA	NA	NA	NA	64
1031	Lab	NA	NA	NA	NA	NA	NA	NA
1032	XRF	421.2	164.5	152.6	181.1	220.6	NA	NA
1032	Lab	NA	NA	NA	NA	NA	NA	NA
1033	XRF	NA	136	NA	NA	126.4	NA	79.3
1033	Lab	NA	NA	NA	NA	NA	NA	NA
1034	XRF	2240	195.8	211.6	311.7	412	NA	NA
1034	Lab	1950	NA	NA	NA	NA	NA	NA
1035	XRF	NA	175.3	174.5	118.3	103.5	NA	NA

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Table A-1
Results of All Surface Soil Samples Collected by Jacobs Engineering
Site Inspection
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	Method	Drip	Yard-NE	Yard-SE	Yard-SW	Yard-NW	Garden	Play
1035	Lab	NA	NA	NA	NA	79.3	NA	NA
1036	XRF	79	56.7	NA	85	37	NA	NA
1036	Lab	NA	76.3	NA	NA	NA	NA	NA
1037	XRF	150.3	32.7	61.2	74.3	66	NA	NA
1037	Lab	NA	NA	NA	NA	NA	NA	NA
1038	XRF	1280	231	128.6	85.5	123.5	NA	NA
1038	Lab	NA	NA	117	NA	NA	NA	NA
1039	XRF	2899.1	506.3	329	154.3	925.5	NA	NA
1039	Lab	3070	441	NA	NA	NA	NA	NA
1040	XRF	NA	NA	NA	ND	NA	NA	NA
1040	Lab	NA	NA	NA	NA	NA	NA	NA
1041	XRF	1269.5	846.4	180.6	407	NA	NA	NA
1041	Lab	NA	689	NA	311	NA	NA	NA
1042	XRF	241.1	143.6	181	114.5	ND	81	NA
1042	Lab	NA	NA	154	NA	NA	50	NA
1043	XRF	1220	NA	297.3	87.6	252.3	NA	NA
1043	Lab	4970	NA	NA	NA	NA	NA	NA
1044	XRF	565.5	201.3	252.8	152.6	252	NA	NA
1044	Lab	489	NA	NA	NA	NA	NA	NA
1046	XRF	97.5	65.4	66.5	64.3	98.9	NA	58.2
1046	Lab	NA	NA	NA	NA	NA	NA	NA
1047	XRF	878.4	302	178.3	182.8	NA	NA	NA
1047	Lab	NA	NA	NA	176	NA	NA	NA
1048	XRF	302.6	125.9	NA	127.8	93.6	NA	NA
1048	Lab	NA	NA	NA	NA	NA	NA	NA
1049	XRF	5977.6	108.8	211.1	NA	135.6	NA	NA
1049	Lab	NA	NA	198	NA	NA	NA	NA
1050	XRF	452.3	142.3	117.9	205.3	420.7	NA	NA
1050	Lab	NA	NA	NA	NA	NA	NA	NA
1051	XRF	NA	NA	NA	128.5	NA	NA	NA
1051	Lab	NA	NA	NA	NA	NA	NA	ND
1052	XRF	872	180	NA	NA	197.1	NA	174.6
1052	Lab	1140	NA	NA	NA	NA	NA	NA
1053	XRF	843.2	547.2	437.6	206.6	348.3	NA	NA
1053	Lab	NA	NA	NA	NA	NA	NA	NA
1054	XRF	3009.6	344.7	195.3	761.2	398.3	NA	NA
1054	Lab	NA	NA	NA	NA	NA	NA	NA
1055	XRF	48.9	ND	114	49	55.7	NA	44.7
1055	Lab	NA	NA	NA	NA	NA	NA	43
1056	XRF	108	62	105	86.3	62	NA	NA
1056	Lab	NA	NA	NA	NA	NA	NA	NA
1057	XRF	394.7	307.7	NA	NA	178.1	NA	317.3
1057	Lab	NA	NA	NA	NA	NA	NA	NA
1058	XRF	NA	73.1	98.6	NA	69.3	83.5	NA
1058	Lab	NA	NA	NA	NA	NA	NA	NA
1059	XRF	75.6	40.4	130.3	90.6	65.6	54.5	NA
1059	Lab	NA	34	NA	NA	NA	NA	NA

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Table A-1
Results of All Surface Soil Samples Collected by Jacobs Engineering
Site Inspection
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	Method	Drip	Yard-NE	Yard-SE	Yard-SW	Yard-NW	Garden	Play
1060	XRF	68.1	64.9	115.3	42.7	52.9	NA	NA
1060	Lab	NA	NA	NA	48.9	NA	NA	NA
1061	XRF	5040	293.2	214.8	537.5	137	NA	NA
1061	Lab	NA	NA	NA	505	NA	NA	NA
1062	XRF	312.6	365.2	196.8	144.6	67.5	NA	NA
1062	Lab	NA	399	NA	NA	NA	NA	NA
1063	XRF	63.7	NA	NA	97	157.6	NA	64.6
1063	Lab	NA	NA	NA	66.6	NA	NA	NA
1064	XRF	739.2	123.6	131.8	148.3	109.9	NA	NA
1064	Lab	NA	NA	NA	NA	NA	NA	NA
1065	XRF	NA	64.3	104	153.8	181.6	NA	NA
1065	Lab	NA	NA	NA	NA	NA	NA	NA
1066	XRF	181.5	78.5	92.9	156.8	71.6	NA	NA
1066	Lab	NA	NA	NA	NA	47.2	NA	NA
1067	XRF	40.7	ND	ND	NA	NA	NA	ND
1067	Lab	NA	NA	NA	NA	NA	NA	NA
1068	XRF	3099.1	302.7	366	496	834.4	NA	NA
1068	Lab	849	NA	346	NA	NA	NA	NA
1069	XRF	32.7	ND	28.7	ND	ND	NA	NA
1069	Lab	NA	NA	NA	NA	35.5	NA	NA
1070	XRF	385.7	406.6	901.5	316	557.5	NA	NA
1070	Lab	NA	NA	915	NA	NA	NA	NA
1071	XRF	153.1	440.7	192.3	176.6	238.1	NA	NA
1071	Lab	NA	NA	NA	NA	NA	NA	NA
1072	XRF	5308.7	428.3	1249.5	401	318.6	NA	NA
1072	Lab	NA	NA	1120	NA	NA	NA	NA
1073	XRF	77	ND	ND	34	54	NA	NA
1073	Lab	NA	NA	NA	NA	NA	NA	NA
1074	XRF	378.7	671.2	126.5	153.1	172.8	NA	NA
1074	Lab	NA	NA	NA	207	NA	NA	NA
1075	XRF	4377.6	474	1868.8	162.1	231	NA	NA
1075	Lab	NA	NA	1960	NA	NA	NA	NA
1076	XRF	1960	134.6	143.3	611.2	136.1	NA	NA
1076	Lab	NA	NA	NA	NA	NA	NA	NA
1077	XRF	ND	340.6	613.2	633.5	274.6	NA	NA
1077	Lab	NA	NA	NA	NA	NA	NA	NA
1078	XRF	790.4	318.2	NA	873.5	233.1	NA	NA
1078	Lab	NA	NA	NA	841	NA	NA	NA
1079	XRF	1069.5	146.6	483.2	296	202.8	NA	NA
1079	Lab	NA	135	467	NA	NA	NA	NA
1080	XRF	1440	760.4	NA	NA	NA	NA	NA
1080	Lab	NA	672	NA	NA	NA	NA	NA
1081	XRF	2539.1	278.6	251	170.5	112.3	NA	NA
1081	Lab	NA	NA	NA	NA	NA	NA	NA
1082	XRF	150	72	ND	39.4	68	NA	46.2
1082	Lab	NA	NA	NA	NA	NA	NA	44.7
1083	XRF	ND	134.1	85	55	86	NA	NA

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Table A-1
Results of All Surface Soil Samples Collected by Jacobs Engineering
Site Inspection
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	Method	Drip	Yard-NE	Yard-SE	Yard-SW	Yard-NW	Garden	Play
1083	Lab	11.5	65.9	NA	NA	NA	NA	NA
1084	XRF	1620	94.1	180.5	NA	NA	175.5	151.1
1084	Lab	NA	NA	NA	NA	NA	NA	NA
1085	XRF	929.5	675.5	181.1	323.2	140.5	NA	NA
1085	Lab	NA	NA	140	NA	NA	NA	NA
1086	XRF	80.4	71.3	57	190.5	130.8	NA	57.2
1086	Lab	NA	NA	NA	NA	NA	NA	NA
1087	XRF	ND	132.3	62	46.7	42.5	NA	NA
1087	Lab	NA	NA	NA	NA	NA	NA	NA
1088	XRF	1280	325.3	407.7	628	474.3	NA	NA
1088	Lab	1250	NA	NA	3530	NA	NA	NA
1089	XRF	1240	287	388.3	162.6	218.8	NA	NA
1089	Lab	2160	NA	NA	NA	NA	NA	NA
1090	XRF	350.7	68	49.5	58	70	ND	NA
1090	Lab	NA	NA	NA	NA	NA	NA	NA
1091	XRF	622.4	229.8	198.8	254.6	208.1	NA	286.6
1091	Lab	NA	NA	NA	NA	NA	NA	270
1092	XRF	182.5	312	293.6	312.6	198.1	NA	NA
1092	Lab	NA	NA	NA	NA	NA	NA	NA
1093	XRF	348.7	449.2	558.4	296.7	255	NA	NA
1093	Lab	NA	4670	461	NA	NA	NA	NA
1094	XRF	723.5	170.5	190.6	125	161.5	NA	NA
1094	Lab	NA	NA	NA	NA	NA	NA	NA
1095	XRF	3108.8	672.4	298.3	193.6	280.6	NA	NA
1095	Lab	3540	4250	NA	NA	NA	NA	NA
1096	XRF	203.6	93	496	140.3	ND	NA	211.1
1096	Lab	207	NA	NA	NA	NA	NA	188
1097	XRF	1369.5	186.6	140.6	187.3	210.3	NA	NA
1097	Lab	1500	NA	NA	NA	NA	NA	NA
1098	XRF	119	ND	ND	59.9	40.2	NA	NA
1098	Lab	NA	NA	NA	NA	NA	NA	NA
1099	XRF	1400	68.5	1129.5	191.8	249.1	NA	NA
1099	Lab	8090	NA	1590	NA	NA	NA	NA
1100	XRF	52.5	65	93.1	77.4	105	171.3	NA
1100	Lab	NA	NA	NA	NA	NA	NA	NA
1101	XRF	105.9	73.3	63.7	75.6	65.6	NA	NA
1101	Lab	NA	NA	NA	NA	NA	NA	NA
1102	XRF	1169.5	247	519.5	410.7	304.3	NA	NA
1102	Lab	NA	NA	459	347	NA	NA	NA
1103	XRF	NA	158.8	255.3	NA	243.1	NA	298.7
1103	Lab	NA	NA	NA	NA	NA	NA	NA
1104	XRF	78	101.4	94	ND	79.5	NA	NA
1104	Lab	NA	NA	NA	ND	NA	NA	NA
1105	XRF	462.3	NA	362.2	NA	NA	NA	368.6
1105	Lab	NA	NA	NA	NA	NA	NA	NA
1106	XRF	1409.5	468	188.1	352.2	131.3	NA	88.1
1106	Lab	NA	NA	NA	NA	NA	NA	NA

Appendix A
Table A-1
Results of All Surface Soil Samples Collected by Jacobs Engineering
Site Inspection
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	Method	Drip	Yard-NE	Yard-SE	Yard-SW	Yard-NW	Garden	Play
1107	XRF	4089.6	251.6	215.6	1229.5	471.6	NA	NA
1107	Lab	NA	NA	NA	NA	NA	NA	NA
1108	XRF	2769.6	630	1420	782.7	635.2	NA	NA
1108	Lab	NA	NA	1230	NA	560	NA	NA
1109	XRF	439.2	468	315.7	586.7	274	NA	NA
1109	Lab	NA	401	NA	625	NA	NA	NA
1110	XRF	1249.5	83.5	211.1	153.5	161.1	NA	122.5
1110	Lab	617	NA	NA	NA	NA	NA	114
1111	XRF	165.8	147.8	NA	120.8	175.8	NA	NA
1111	Lab	NA	NA	NA	71	NA	NA	NA
1112	XRF	NA	349.2	NA	150.5	282.7	NA	NA
1112	Lab	NA	147	NA	NA	NA	NA	NA
1113	XRF	2148.8	NA	108.6	153	NA	NA	514
1113	Lab	1910	NA	NA	NA	NA	NA	594
1114	XRF	440	188.5	268.2	225.8	312.3	NA	NA
1114	Lab	NA	NA	NA	NA	NA	NA	NA
1115	XRF	3318.3	412	52	427.6	262.6	NA	NA
1115	Lab	NA	579	NA	341	NA	NA	NA
1116	XRF	100.6	71.1	ND	67	72.4	NA	NA
1116	Lab	NA	NA	NA	NA	NA	NA	NA
1117	XRF	1340	770	278.7	NA	NA	NA	688.7
1117	Lab	NA	610	NA	NA	NA	NA	654
1118	XRF	ND	131.5	134.1	135.8	248.1	NA	NA
1118	Lab	NA	NA	NA	NA	NA	NA	NA
1119	XRF	ND	52	49.2	NA	NA	NA	ND
1119	Lab	NA	NA	NA	NA	NA	NA	NA
1120	XRF	76.9	74.8	ND	48.2	ND	NA	57.5
1120	Lab	NA	NA	16	25	NA	NA	NA
1121	XRF	167.5	701.5	NA	NA	198.3	NA	NA
1121	Lab	NA	NA	NA	NA	NA	NA	NA
1122	XRF	119	62.5	109.4	78.1	146.1	NA	NA
1122	Lab	96.9	NA	NA	NA	NA	NA	NA
1123	XRF	3049.6	312.7	NA	NA	141.6	NA	NA
1123	Lab	7150	NA	NA	NA	NA	NA	NA
1124	XRF	1680	274.6	248.8	315	395	342.2	NA
1124	Lab	NA	NA	NA	NA	NA	NA	NA
1125	XRF	241.8	287.3	358.3	299.7	52.9	340.7	NA
1125	Lab	NA	NA	NA	NA	NA	NA	NA
1126	XRF	334.6	90.4	125.8	NA	554.7	125.5	NA
1126	Lab	NA	NA	NA	NA	460	NA	NA
1127	XRF	221.8	59.5	142.6	125.4	189.3	NA	NA
1127	Lab	NA	NA	NA	NA	NA	NA	NA
1128	XRF	168.3	186	124.8	148.5	136.3	54.2	NA
1128	Lab	NA	NA	NA	NA	NA	NA	NA
1129	XRF	1129.5	344.6	504.3	154.6	215.3	NA	NA
1129	Lab	NA	NA	445	NA	NA	NA	NA
1130	XRF	2640	308	217.3	539.5	351.3	NA	NA

Appendix A
Table A-1
Results of All Surface Soil Samples Collected by Jacobs Engineering
Site Inspection
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	Method	Drip	Yard-NE	Yard-SE	Yard-SW	Yard-NW	Garden	Play
1130	Lab	NA	NA	NA	NA	NA	NA	NA
1131	XRF	1080	132	239.8	NA	NA	NA	307
1131	Lab	NA	NA	NA	NA	NA	NA	NA
1132	XRF	4899.2	247.1	109.8	228.8	193	NA	NA
1132	Lab	NA	NA	NA	NA	NA	NA	NA
1133	XRF	NA	99.1	70.3	38.9	100.1	NA	NA
1133	Lab	NA	NA	NA	NA	NA	NA	NA
1134	XRF	70	NA	82.9	90	110.1	NA	NA
1134	Lab	NA	NA	NA	NA	NA	NA	NA
1135	XRF	ND	50.2	62.7	ND	37	NA	65
1135	Lab	NA	NA	NA	NA	NA	NA	25.7
1136	XRF	ND	NA	ND	64.5	ND	NA	NA
1136	Lab	NA	NA	NA	NA	NA	NA	NA
1138	XRF	NA	ND	NA	ND	33.7	NA	36.7
1138	Lab	NA	NA	NA	NA	NA	NA	NA
1139	XRF	113.9	209.8	142.8	NA	NA	NA	NA
1139	Lab	NA	199	NA	NA	NA	NA	NA
1140	XRF	106.8	80.3	213.3	NA	87.9	80.8	125.1
1140	Lab	NA	NA	NA	NA	NA	NA	NA
1141	XRF	ND	85.6	52.5	ND	ND	NA	NA
1141	Lab	NA	NA	NA	NA	24	NA	NA
1142	XRF	1229.5	145.5	140	359.3	355.3	NA	NA
1142	Lab	NA	NA	NA	NA	NA	NA	NA
1143	XRF	3089.6	202.6	700	430	650	NA	NA
1143	Lab	10500	NA	703	NA	NA	NA	NA
1144	XRF	432.3	148.5	111.9	NA	130.1	106.4	NA
1144	Lab	572	103	NA	NA	NA	NA	NA
1145	XRF	1420	223.8	174.3	113	188.8	NA	NA
1145	Lab	NA	NA	NA	NA	182	NA	NA
1146	XRF	ND	ND	ND	ND	ND	NA	NA
1146	Lab	NA	NA	NA	NA	NA	NA	NA
1147	XRF	NA	NA	NA	116	126	NA	138.8
1147	Lab	NA	NA	NA	NA	NA	NA	NA
1148	XRF	82.5	58	115.4	105.9	ND	NA	157.1
1148	Lab	NA	NA	NA	NA	NA	NA	NA
1149	XRF	94.8	ND	ND	62.7	98	NA	NA
1149	Lab	NA	NA	NA	NA	NA	NA	NA
1150	XRF	NA	65.5	59	108	100.5	NA	NA
1150	Lab	NA	65	NA	NA	NA	NA	NA
1151	XRF	100.3	47.5	48	ND	61.7	NA	NA
1151	Lab	NA	NA	NA	NA	NA	NA	NA
1152	XRF	36.5	50.5	ND	ND	50	NA	NA
1152	Lab	NA	NA	NA	16	NA	NA	NA
1153	XRF	488.7	423.2	282.6	357.2	390.3	NA	362.6
1153	Lab	NA	NA	283	NA	NA	NA	398
1154	XRF	139.8	71.3	59.9	80.6	139.8	NA	NA
1154	Lab	NA	NA	NA	NA	NA	NA	NA

Appendix A
Table A-1
Results of All Surface Soil Samples Collected by Jacobs Engineering
Site Inspection
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	Method	Drip	Yard-NE	Yard-SE	Yard-SW	Yard-NW	Garden	Play
1155	XRF	63.4	48.2	NA	NA	84.5	NA	86.4
1155	Lab	NA	NA	NA	NA	NA	NA	NA
1156	XRF	64.5	ND	68.9	NA	37.7	NA	NA
1156	Lab	NA	NA	NA	NA	NA	NA	NA
1157	XRF	130.8	99.6	54	96.8	71.5	NA	NA
1157	Lab	NA	NA	NA	NA	NA	NA	NA
1158	XRF	245	182.3	125.6	114.5	88.4	57.9	NA
1158	Lab	NA	NA	NA	NA	NA	NA	NA
1159	XRF	155.1	95.1	NA	70.3	50.7	NA	NA
1159	Lab	NA	NA	NA	NA	NA	NA	NA
1160	XRF	ND	ND	NA	ND	ND	NA	NA
1160	Lab	NA	29	NA	NA	NA	NA	NA
1161	XRF	ND	ND	53	44	ND	NA	NA
1161	Lab	NA	NA	NA	NA	NA	NA	NA
1163	XRF	81	62	ND	39.2	63.2	NA	51.4
1163	Lab	NA	NA	NA	NA	NA	NA	NA
1164	XRF	121.5	117.4	376	196.6	138.6	NA	NA
1164	Lab	NA	NA	NA	NA	NA	NA	NA
1165	XRF	ND	81.3	NA	ND	116.5	NA	NA
1165	Lab	NA	NA	NA	NA	NA	NA	NA
1166	XRF	ND	124	53.2	86.5	105.9	NA	NA
1166	Lab	NA	NA	NA	NA	NA	NA	NA
1167	XRF	ND	241.1	NA	29.8	118.4	NA	NA
1167	Lab	NA	NA	NA	10	NA	NA	NA
1168	XRF	418	135.8	311	188.8	100	NA	NA
1168	Lab	NA	NA	321	NA	NA	NA	NA
1169	XRF	235	159.3	76.1	65.9	385.3	190.8	NA
1169	Lab	NA	NA	NA	NA	NA	NA	NA
1170	XRF	ND	33	124.6	55.9	62.7	NA	NA
1170	Lab	NA	NA	NA	NA	61	NA	NA
1171	XRF	NA	891.2	487.6	509.6	436.7	NA	664
1171	Lab	NA	NA	NA	NA	NA	NA	NA
1172	XRF	83.8	201.5	98.1	89	218	NA	NA
1172	Lab	NA	NA	NA	NA	NA	NA	NA
1174	XRF	238.8	ND	122.9	78.8	130.5	NA	126.5
1174	Lab	NA	NA	NA	NA	NA	NA	NA
1175	XRF	87.3	137	104.3	94.3	144.6	NA	108
1175	Lab	NA	NA	NA	NA	NA	NA	85
1176	XRF	NA	60.4	90.8	76	73.3	NA	NA
1176	Lab	NA	51	NA	NA	NA	NA	NA
1177	XRF	132.6	112.8	92.9	134.1	229.6	NA	NA
1177	Lab	NA	NA	NA	NA	NA	NA	NA
1178	XRF	96	57.2	88	78	70.1	NA	NA
1178	Lab	NA	NA	NA	NA	NA	NA	NA
1179	XRF	188.5	117	140.8	175.6	NA	NA	NA
1179	Lab	NA	NA	NA	NA	NA	NA	NA
1180	XRF	242.1	128.5	148.8	78.3	81	NA	NA

Appendix A
Table A-1
Results of All Surface Soil Samples Collected by Jacobs Engineering
Site Inspection
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	Method	Drip	Yard-NE	Yard-SE	Yard-SW	Yard-NW	Garden	Play
1180	Lab	NA	NA	NA	NA	NA	NA	NA
1181	XRF	ND	65	84	65.3	48.2	NA	NA
1181	Lab	NA	NA	NA	NA	NA	NA	NA
1182	XRF	1489.5	307.3	281	266.6	191.6	NA	NA
1182	Lab	NA	NA	NA	NA	NA	NA	NA
1183	XRF	82	71.5	78.8	55	61.2	NA	NA
1183	Lab	NA	NA	NA	NA	NA	NA	NA
1184	XRF	ND	ND	113.5	209.3	47.2	NA	NA
1184	Lab	NA	NA	NA	168	NA	NA	NA
1185	XRF	ND	108.1	44.2	NA	88.9	NA	NA
1185	Lab	NA	NA	NA	NA	NA	NA	NA
1186	XRF	122.8	141.1	178	231	92.9	NA	NA
1186	Lab	NA	NA	NA	NA	NA	NA	NA
1188	XRF	123.6	NA	NA	ND	69.4	NA	83.1
1188	Lab	NA	NA	NA	NA	NA	NA	NA
1189	XRF	ND	ND	ND	ND	ND	NA	NA
1189	Lab	NA	NA	NA	NA	13	NA	NA
1190	XRF	ND	ND	73	38.2	ND	NA	NA
1190	Lab	NA	NA	NA	NA	NA	NA	NA
1191	XRF	51.5	NA	NA	NA	NA	NA	ND
1191	Lab	NA	NA	NA	NA	NA	NA	NA
1192	XRF	449.2	1120	237.8	121.1	118.4	528.7	NA
1192	Lab	NA	NA	NA	NA	NA	743	NA
1193	XRF	344.2	136	256	30	216.3	NA	173.8
1193	Lab	NA	NA	NA	NA	NA	NA	NA
1194	XRF	210	ND	94.3	83.3	68.8	NA	NA
1194	Lab	NA	NA	NA	NA	NA	NA	NA
1195	XRF	ND	ND	57.2	37.2	119.1	NA	34.4
1195	Lab	NA	NA	NA	NA	NA	NA	NA
1196	XRF	84.3	NA	133.3	NA	128.8	NA	93
1196	Lab	NA	NA	NA	NA	NA	NA	NA
1197	XRF	623.5	NA	293.6	224.6	NA	NA	NA
1197	Lab	NA	NA	NA	NA	NA	NA	NA
1198	XRF	932.7	ND	65.4	196.8	69	NA	111
1198	Lab	NA	NA	NA	NA	NA	NA	NA
1199	XRF	1100	284.3	69.8	193.3	140.3	NA	NA
1199	Lab	NA	NA	NA	NA	NA	NA	NA
1200	XRF	2628.8	196.1	1200	340.6	228.8	NA	NA
1200	Lab	8030	NA	832	NA	NA	NA	NA
1201	XRF	297.2	626	213.8	114.3	147.5	NA	NA
1201	Lab	NA	866	NA	NA	NA	NA	NA
1202	XRF	1120	293.2	229	163	352	NA	NA
1202	Lab	NA	NA	NA	NA	NA	NA	NA
1203	XRF	2948.8	216.6	107.1	184.3	NA	NA	NA
1203	Lab	NA	NA	NA	NA	NA	NA	NA
1204	XRF	381.3	365.7	306.2	348.3	279.6	NA	NA
1204	Lab	NA	NA	NA	NA	NA	NA	NA

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Table A-1
Results of All Surface Soil Samples Collected by Jacobs Engineering
Site Inspection
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	Method	Drip	Yard-NE	Yard-SE	Yard-SW	Yard-NW	Garden	Play
1205	XRF	1500	315.6	276.3	213.8	378.3	NA	NA
1205	Lab	NA	NA	NA	NA	NA	NA	NA
1206	XRF	696.4	102	162	367.3	89.6	NA	NA
1206	Lab	834	NA	148	NA	NA	NA	NA
1207	XRF	ND	173.3	146.8	562	525.5	NA	NA
1207	Lab	NA	NA	NA	NA	502	NA	NA
1208	XRF	397.6	80.5	76.9	79.4	76.5	NA	52.2
1208	Lab	NA	NA	NA	NA	NA	NA	NA
1209	XRF	633.2	290.2	259.3	311	NA	NA	174.5
1209	Lab	NA	NA	NA	NA	NA	NA	NA
1210	XRF	1340	117.9	88.6	46.5	149	NA	340
1210	Lab	NA	NA	NA	NA	NA	NA	NA
1211	XRF	255.1	ND	43.4	146.3	54.2	NA	51
1211	Lab	NA	NA	NA	NA	NA	NA	45
1212	XRF	ND	42	ND	ND	ND	NA	ND
1212	Lab	NA	NA	13	NA	NA	NA	35
1213	XRF	815.5	161.6	372.6	384.6	1149.5	NA	NA
1213	Lab	NA	NA	345	NA	NA	NA	NA
1214	XRF	178.8	49.7	51	93.5	ND	NA	NA
1214	Lab	NA	NA	NA	NA	NA	NA	NA
1215	XRF	2268.8	116	432.3	411.2	472.3	NA	NA
1215	Lab	1810	NA	550	354	424	NA	NA
1216	XRF	766	371.2	452.7	424.7	255.3	NA	NA
1216	Lab	NA	NA	521	339	NA	NA	NA
1217	XRF	60	104.4	77.1	62.2	61.9	NA	72
1217	Lab	NA	NA	NA	54	NA	NA	NA
1218	XRF	46.7	ND	55.2	ND	79	NA	NA
1218	Lab	NA	NA	NA	NA	NA	NA	NA
1219	XRF	122.5	103.1	NA	NA	NA	NA	NA
1219	Lab	NA	NA	NA	NA	NA	NA	NA
1220	XRF	ND	NA	ND	92	48.2	NA	NA
1220	Lab	NA	NA	NA	70	NA	NA	NA
1221	XRF	66.8	151	225.3	198.6	144.8	NA	NA
1221	Lab	NA	NA	NA	NA	NA	NA	NA
1222	XRF	726	267.3	216.3	424.7	293	NA	NA
1222	Lab	NA	NA	NA	389	NA	NA	NA
1223	XRF	NA	NA	NA	68.5	NA	NA	NA
1223	Lab	NA	NA	NA	NA	NA	NA	NA
1224	XRF	324.3	192.8	274.6	313.2	252	NA	NA
1224	Lab	NA	NA	NA	NA	NA	NA	NA
1225	XRF	799.2	112.6	106.9	66.4	174.3	NA	NA
1225	Lab	NA	NA	NA	NA	NA	NA	NA
1226	XRF	264	374.6	198.6	NA	NA	NA	193.8
1226	Lab	NA	NA	NA	NA	NA	NA	NA
1227	XRF	ND	82.6	95	89.4	NA	NA	NA
1227	Lab	NA	37.5	NA	NA	NA	NA	NA
1228	XRF	459.6	60.2	54	NA	79.3	NA	NA

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Table A-1
Results of All Surface Soil Samples Collected by Jacobs Engineering
Site Inspection
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	Method	Drip	Yard-NE	Yard-SE	Yard-SW	Yard-NW	Garden	Play
1228	Lab	NA	NA	NA	NA	NA	NA	NA
1229	XRF	NA	768.7	580.7	865.5	516.7	NA	NA
1229	Lab	NA	NA	NA	NA	NA	NA	NA
1230	XRF	139.1	144.1	684	134.3	114.1	NA	NA
1230	Lab	NA	NA	686	NA	NA	NA	NA
1231	XRF	568	264	166.8	240.3	288.2	NA	125.5
1231	Lab	NA	NA	NA	NA	NA	NA	NA
1232	XRF	56	45.5	53.2	71.9	114	NA	NA
1232	Lab	NA	NA	NA	NA	NA	NA	NA
1233	XRF	385	243.1	165.1	151.3	386.7	NA	NA
1233	Lab	NA	NA	NA	NA	NA	NA	NA
1234	XRF	49.9	135.8	92.9	160.3	106	NA	NA
1234	Lab	NA	NA	NA	NA	NA	NA	NA
1235	XRF	278.7	87.9	92.5	92.8	132.3	NA	NA
1235	Lab	NA	NA	NA	NA	NA	NA	NA
1236	XRF	182.1	172.3	132.3	103.1	65.6	NA	NA
1236	Lab	NA	NA	NA	NA	NA	NA	NA
1237	XRF	1020	321	396.7	NA	208	NA	NA
1237	Lab	NA	NA	NA	NA	NA	NA	NA
1238	XRF	600.7	97.9	NA	409.2	167.8	NA	131
1238	Lab	NA	NA	NA	434	NA	NA	NA
1239	XRF	1509.5	102.5	NA	188.3	229.8	NA	141.5
1239	Lab	1180	NA	NA	NA	NA	NA	NA
1240	XRF	56.7	68.3	49	62.4	ND	NA	NA
1240	Lab	46	NA	NA	NA	NA	NA	NA
1241	XRF	112.9	NA	95.5	ND	86.5	NA	65.5
1241	Lab	NA	NA	NA	NA	NA	NA	NA
1242	XRF	99.4	NA	74.5	ND	99	NA	NA
1242	Lab	NA	NA	NA	NA	NA	NA	NA
1243	XRF	989.5	138.1	102.5	NA	NA	NA	NA
1243	Lab	NA	NA	NA	NA	NA	NA	NA
1245	XRF	NA	33.2	110.5	NA	ND	NA	31.8
1245	Lab	NA	NA	NA	NA	NA	NA	NA
1246	XRF	3449.6	201.3	179.8	196.8	131.6	NA	NA
1246	Lab	NA	NA	NA	NA	NA	NA	NA
1247	XRF	1009.5	163.6	167.3	213.6	118.9	NA	NA
1247	Lab	NA	NA	NA	NA	NA	NA	NA
1248	XRF	288.3	NA	NA	119.5	138.8	NA	NA
1248	Lab	NA	NA	NA	NA	NA	NA	NA
1249	XRF	639.5	372.3	NA	171.3	229.6	NA	NA
1249	Lab	NA	355	NA	NA	NA	NA	NA
1250	XRF	NA	NA	NA	294.3	387.2	NA	NA
1250	Lab	NA	NA	NA	NA	NA	NA	NA
1251	XRF	772.7	272.2	552.7	223.1	NA	NA	NA
1251	Lab	NA	NA	593	216	NA	NA	NA
1252	XRF	381.6	151.3	NA	188.6	130.1	NA	NA
1252	Lab	NA	NA	NA	NA	NA	NA	NA

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Table A-1
Results of All Surface Soil Samples Collected by Jacobs Engineering
Site Inspection
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	Method	Drip	Yard-NE	Yard-SE	Yard-SW	Yard-NW	Garden	Play
1253	XRF	202.8	NA	NA	103.1	174.6	NA	NA
1253	Lab	NA	NA	NA	NA	NA	NA	NA
1254	XRF	NA	117.5	218	238.6	154.1	NA	146.6
1254	Lab	NA	NA	NA	182	NA	NA	NA
1255	XRF	1409.5	NA	921.5	267.6	266.6	NA	NA
1255	Lab	1500	NA	NA	NA	NA	NA	NA
1256	XRF	732	380.7	111.1	514.7	210.3	NA	NA
1256	Lab	NA	NA	NA	1490	NA	NA	NA
1257	XRF	172.3	140.3	NA	133.6	100	NA	NA
1257	Lab	NA	NA	NA	NA	NA	NA	NA
1258	XRF	1109.5	346	459.6	161.1	59.7	NA	NA
1258	Lab	NA	NA	NA	NA	NA	NA	NA
1259	XRF	1120	73.8	228.3	196.1	131	NA	NA
1259	Lab	NA	NA	NA	NA	NA	NA	NA
1260	XRF	114.1	NA	NA	139.1	56.4	NA	NA
1260	Lab	111	NA	NA	NA	NA	NA	NA
1261	XRF	266.6	123.8	95.1	92.5	180.1	NA	NA
1261	Lab	NA	NA	NA	NA	NA	NA	NA
1262	XRF	149.1	132.5	110.5	155	111	NA	NA
1262	Lab	NA	NA	114	NA	NA	NA	NA
1263	XRF	ND	73.4	93.9	97	63	NA	NA
1263	Lab	NA	NA	NA	NA	NA	NA	NA
1264	XRF	1800	160.3	210.8	153.3	153.3	NA	NA
1264	Lab	1480	NA	NA	NA	NA	NA	NA
1265	XRF	871.2	69.1	80	ND	78	NA	NA
1265	Lab	NA	NA	NA	NA	NA	NA	NA
1266	XRF	1080	189.6	158.6	117	196	NA	NA
1266	Lab	NA	NA	NA	NA	NA	NA	NA
1267	XRF	418.7	377.6	145.6	123	483.2	NA	NA
1267	Lab	NA	NA	NA	NA	NA	NA	NA
1268	XRF	854.4	661.5	267.6	232.8	172.5	NA	NA
1268	Lab	NA	808	NA	NA	NA	NA	NA
1269	XRF	2828.8	193.5	167.6	267.7	157.6	NA	NA
1269	Lab	NA	NA	NA	NA	NA	NA	NA
1270	XRF	2489.6	95.4	235	135.1	162.6	NA	NA
1270	Lab	4140	NA	NA	NA	NA	NA	NA
1271	XRF	98.5	152.1	137.3	99.3	138.6	86.5	NA
1271	Lab	NA	NA	NA	NA	NA	NA	NA
1272	XRF	ND	ND	45.7	58.2	39	NA	NA
1272	Lab	NA	NA	NA	NA	NA	NA	NA
1273	XRF	733.2	600.4	364	357.7	516.4	NA	NA
1273	Lab	NA	727	NA	NA	NA	NA	NA
1274	XRF	91.6	79.3	NA	NA	37.4	NA	NA
1274	Lab	NA	NA	NA	NA	NA	NA	NA
1275	XRF	848.7	173.1	ND	35.5	152.3	NA	NA
1275	Lab	NA	NA	NA	NA	118	NA	NA
1276	XRF	78.1	ND	ND	75.3	69.9	NA	NA

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Table A-1
Results of All Surface Soil Samples Collected by Jacobs Engineering
Site Inspection
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	Method	Drip	Yard-NE	Yard-SE	Yard-SW	Yard-NW	Garden	Play
1276	Lab	NA	NA	NA	NA	NA	NA	NA
1277	XRF	542	132	84.5	269.7	78.9	NA	NA
1277	Lab	NA	NA	NA	NA	NA	NA	NA
1278	XRF	170.6	NA	139.1	91.5	110.8	404.7	NA
1278	Lab	NA	NA	NA	NA	NA	442	NA
1279	XRF	ND	NA	100.5	309.3	183.1	NA	NA
1279	Lab	NA	NA	NA	191	NA	NA	NA
1280	XRF	1340	650	177.3	260.7	475.6	NA	NA
1280	Lab	NA	NA	NA	NA	511	NA	NA
1281	XRF	221	97.3	239.1	226.8	104	NA	NA
1281	Lab	NA	NA	NA	NA	NA	NA	NA
1282	XRF	701.5	223	107	158.1	189.8	NA	NA
1282	Lab	NA	NA	NA	NA	NA	NA	NA
1283	XRF	799.2	110.9	NA	NA	72.9	NA	97.6
1283	Lab	NA	NA	NA	NA	NA	NA	NA
1284	XRF	70.3	NA	NA	ND	NA	NA	ND
1284	Lab	NA	NA	NA	NA	NA	NA	NA
1285	XRF	172.8	92.9	NA	NA	NA	NA	64.5
1285	Lab	NA	NA	NA	NA	NA	NA	NA
1286	XRF	NA	NA	98.3	160	459.6	NA	NA
1286	Lab	NA	NA	NA	NA	456	NA	NA
1287	XRF	425.6	233.3	79	NA	NA	NA	NA
1287	Lab	NA	NA	50.5	NA	NA	NA	NA
1288	XRF	285.6	102.4	176.3	69	78.6	NA	NA
1288	Lab	NA	NA	NA	NA	NA	NA	NA
1289	XRF	376.7	48.7	376.2	38.5	85.5	NA	NA
1289	Lab	NA	NA	NA	NA	NA	NA	NA
1290	XRF	338.6	132.6	212.3	109.4	97.9	374.6	NA
1290	Lab	NA	NA	NA	NA	NA	NA	NA
1291	XRF	943.2	180.3	NA	NA	190.1	NA	266.2
1291	Lab	NA	NA	NA	NA	NA	NA	NA
1292	XRF	1569.5	71.3	56.2	210.6	88.4	NA	156.5
1292	Lab	NA	NA	NA	NA	NA	NA	NA
1293	XRF	105.5	131.1	90.6	90.5	62	NA	NA
1293	Lab	NA	NA	NA	NA	NA	NA	NA
1294	XRF	430.7	NA	151.6	249.3	192.6	NA	NA
1294	Lab	NA	NA	NA	NA	NA	NA	NA
1295	XRF	595.5	107.4	NA	NA	474	NA	115.5
1295	Lab	NA	NA	NA	NA	NA	NA	NA
1296	XRF	399.7	197.5	NA	109	309.6	NA	NA
1296	Lab	NA	NA	NA	NA	NA	NA	NA
1297	XRF	NA	259.2	171.1	122	76	NA	NA
1297	Lab	NA	NA	NA	NA	NA	NA	NA
1298	XRF	338.2	119.1	245.1	65.5	62.7	63.4	NA
1298	Lab	NA	NA	NA	NA	NA	NA	NA
1299	XRF	689.5	145.6	NA	56.7	114.9	NA	NA
1299	Lab	NA	NA	NA	NA	NA	NA	NA

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Table A-1
Results of All Surface Soil Samples Collected by Jacobs Engineering
Site Inspection
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	Method	Drip	Yard-NE	Yard-SE	Yard-SW	Yard-NW	Garden	Play
1300	XRF	218	235	131.3	125.1	224.8	NA	NA
1300	Lab	NA	NA	NA	NA	NA	NA	NA
1301	XRF	310.2	104.6	NA	110.3	76.5	NA	NA
1301	Lab	NA	100	NA	NA	NA	NA	NA
1302	XRF	2859.1	133.8	211	112.5	150.8	NA	NA
1302	Lab	2050	NA	NA	NA	NA	NA	NA
1303	XRF	370.6	131.6	189.5	51.7	113.9	NA	NA
1303	Lab	NA	124	NA	NA	NA	22.2	NA
1304	XRF	862.4	100	70	208.6	NA	NA	138.1
1304	Lab	NA	NA	NA	NA	NA	NA	NA
1305	XRF	1500	306.3	199.6	293.7	1549.5	NA	NA
1305	Lab	NA	NA	NA	NA	332	NA	NA
1306	XRF	918.4	190.8	316.6	378.6	273	NA	NA
1306	Lab	NA	NA	384	NA	NA	NA	NA
1307	XRF	51.5	ND	ND	48.2	43.5	NA	NA
1307	Lab	NA	NA	NA	NA	NA	NA	NA
1308	XRF	1300	221	121.8	342.2	901.5	NA	NA
1308	Lab	NA	NA	NA	NA	896	NA	NA
1309	XRF	1200	166.1	122.8	247.8	432.3	NA	NA
1309	Lab	NA	NA	NA	NA	NA	NA	NA
1310	XRF	76.8	361	245	168.6	NA	NA	149.6
1310	Lab	109	NA	NA	NA	NA	NA	NA
1311	XRF	1109.5	271.3	102.1	NA	149.8	NA	NA
1311	Lab	NA	NA	NA	NA	NA	NA	NA
1312	XRF	805.5	230.1	279.2	293.6	250.1	NA	NA
1312	Lab	NA	NA	NA	NA	NA	NA	NA
1313	XRF	1069.5	161.8	NA	504	182.5	NA	NA
1313	Lab	NA	NA	NA	450	NA	NA	NA
1314	XRF	101	234.3	366	112.3	58	NA	NA
1314	Lab	NA	NA	NA	NA	NA	NA	NA
1315	XRF	1080	136.1	91.9	392	1260	333.2	NA
1315	Lab	NA	NA	NA	NA	1150	NA	NA
1316	XRF	45.9	342.3	1189.5	264.6	348.3	NA	NA
1316	Lab	NA	NA	NA	NA	NA	NA	NA
1317	XRF	ND	ND	ND	NA	86.9	NA	NA
1317	Lab	NA	NA	NA	NA	NA	NA	NA
1318	XRF	274	64.6	442.7	574.7	66	67.8	277.7
1318	Lab	NA	NA	NA	646	NA	NA	NA
1319	XRF	760	408.3	530.4	543.5	904.7	NA	NA
1319	Lab	NA	NA	NA	NA	1000	NA	NA
1320	XRF	436.3	279.2	NA	194.8	235	NA	NA
1320	Lab	NA	NA	NA	NA	NA	NA	NA
1321	XRF	2360	291.6	840.7	138.6	300.3	NA	NA
1321	Lab	14300	961	NA	NA	NA	NA	NA
1322	XRF	240.8	699.5	NA	254.6	205.6	NA	304.2
1322	Lab	NA	1060	NA	NA	NA	NA	NA
1323	XRF	203.3	189.8	134.6	158.8	124.1	NA	119

Appendix A
Table A-1
Results of All Surface Soil Samples Collected by Jacobs Engineering
Site Inspection
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	Method	Drip	Yard-NE	Yard-SE	Yard-SW	Yard-NW	Garden	Play
1323	Lab	NA	NA	NA	NA	NA	NA	NA
1324	XRF	ND	87.5	ND	64.9	58.5	NA	NA
1324	Lab	NA	NA	NA	NA	NA	NA	NA
1325	XRF	109.5	101.5	94.8	209.3	139.6	NA	NA
1325	Lab	NA	NA	NA	190	NA	NA	NA
1326	XRF	601.5	215	450.3	NA	192.3	83.4	NA
1326	Lab	NA	NA	NA	NA	NA	NA	NA
1327	XRF	4819.2	510.7	366	NA	NA	NA	NA
1327	Lab	NA	419	NA	NA	NA	NA	NA
1328	XRF	1109.5	119.9	184.1	146.8	254.6	NA	NA
1328	Lab	894	NA	NA	NA	NA	NA	NA
1329	XRF	881.5	NA	NA	478.3	432.3	NA	NA
1329	Lab	NA	NA	NA	NA	534	NA	NA
1330	XRF	66.6	NA	ND	91	97	62.7	NA
1330	Lab	NA	NA	NA	NA	NA	NA	NA
1331	XRF	ND	33	44.2	NA	ND	NA	NA
1331	Lab	NA	NA	NA	NA	NA	NA	NA
1332	XRF	460.7	254.6	164.8	297.3	257.2	NA	NA
1332	Lab	555	NA	NA	NA	NA	NA	NA
1333	XRF	1540	837.5	217.6	157.5	196.1	NA	NA
1333	Lab	NA	NA	NA	NA	NA	NA	NA
1334	XRF	1560	245.3	83.1	557.2	486.7	NA	NA
1334	Lab	NA	NA	NA	NA	NA	NA	NA
1335	XRF	4038.3	445.6	NA	NA	147.3	NA	NA
1335	Lab	NA	382	NA	NA	NA	NA	NA
1336	XRF	560.7	175.6	114.3	249.8	383.7	NA	NA
1336	Lab	534	NA	NA	NA	NA	NA	NA
1337	XRF	796.4	231.8	365.7	166.1	165.1	NA	NA
1337	Lab	NA	NA	NA	NA	NA	NA	NA
1338	XRF	552.4	249	256.6	197	223	NA	NA
1338	Lab	NA	NA	NA	NA	NA	NA	NA
1339	XRF	ND	59	ND	40.5	95.1	ND	NA
1339	Lab	NA	NA	NA	NA	NA	20.1	NA
1340	XRF	NA	108.5	172.8	511.2	NA	118.6	85.3
1340	Lab	NA	NA	NA	NA	NA	NA	NA
1341	XRF	211.6	98.3	ND	74	78.5	NA	NA
1341	Lab	NA	NA	NA	NA	NA	NA	NA
1342	XRF	675.5	NA	NA	60.9	103.6	NA	159.6
1342	Lab	NA	NA	NA	NA	NA	NA	NA
1343	XRF	852.7	558	409.6	197.1	359	NA	NA
1343	Lab	NA	NA	NA	NA	414	NA	NA
1344	XRF	233	314	159.8	350.7	191.1	NA	NA
1344	Lab	NA	NA	NA	324	NA	NA	NA
1345	XRF	135.8	288.6	152.3	169	355.2	NA	NA
1345	Lab	NA	37.9	NA	NA	NA	NA	NA
1346	XRF	1360	NA	88.1	57.7	107.6	NA	NA
1346	Lab	NA	NA	NA	NA	NA	NA	NA

Appendix A
Table A-1
Results of All Surface Soil Samples Collected by Jacobs Engineering
Site Inspection
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	Method	Drip	Yard-NE	Yard-SE	Yard-SW	Yard-NW	Garden	Play
1347	XRF	2369.6	329.6	NA	272	522	NA	402.7
1347	Lab	2960	NA	NA	NA	565	NA	352
1348	XRF	257	NA	162.3	282.2	323	198.3	NA
1348	Lab	306	NA	251	NA	NA	NA	NA
1349	XRF	552	144.3	275.3	173.6	69.3	145.6	NA
1349	Lab	NA	NA	NA	NA	NA	NA	NA
1350	XRF	1240	222	157.8	137.3	NA	NA	NA
1350	Lab	NA	NA	NA	NA	NA	NA	NA
1351	XRF	6227.2	398	174.1	190.1	1360	NA	NA
1351	Lab	NA	NA	NA	NA	1270	NA	NA
1352	XRF	705.5	363.3	704.4	266.2	925.5	NA	NA
1352	Lab	1110	NA	869	NA	772	NA	NA
1353	XRF	694.7	119.3	325.6	343.6	333.6	NA	NA
1353	Lab	NA	105	NA	NA	NA	NA	NA
1354	XRF	129.8	110	61.7	NA	144	NA	NA
1354	Lab	NA	NA	NA	NA	NA	NA	NA
1355	XRF	1420	166.6	153.8	467.2	200.1	NA	NA
1355	Lab	1640	NA	NA	443	NA	NA	NA
1356	XRF	740.4	179.3	251.8	205	317.7	NA	NA
1356	Lab	NA	NA	NA	192	NA	NA	NA
1357	XRF	213.8	274.7	92.6	218.1	NA	NA	NA
1357	Lab	NA	NA	NA	NA	NA	NA	NA
1358	XRF	566.7	116.5	175.8	118.1	123.5	NA	NA
1358	Lab	NA	NA	NA	NA	NA	NA	NA
1359	XRF	3259.1	197.6	1748.8	1889.5	324	NA	NA
1359	Lab	5850	NA	2230	1960	NA	NA	NA
1360	XRF	ND	50.4	88.5	77.4	106.1	NA	NA
1360	Lab	NA	NA	NA	NA	NA	NA	NA
1361	XRF	ND	65	61.7	ND	44.5	NA	NA
1361	Lab	NA	NA	NA	NA	25.2	NA	NA
1362	XRF	466.7	NA	147.5	196	149.3	NA	184.6
1362	Lab	NA	NA	NA	NA	NA	NA	NA
1363	XRF	594.7	242	182.3	103.9	221.1	NA	NA
1363	Lab	NA	NA	NA	NA	NA	NA	NA
1364	XRF	259.3	136.6	158.3	68.6	158.3	NA	92
1364	Lab	NA	NA	NA	NA	NA	NA	NA
1366	XRF	69.5	ND	ND	100.6	107.5	75.6	NA
1366	Lab	NA	NA	NA	NA	NA	NA	NA
1367	XRF	322.7	100	47.9	NA	50.4	NA	NA
1367	Lab	NA	NA	NA	NA	NA	NA	NA
1368	XRF	1349.5	390.7	210.6	538	127.5	NA	NA
1368	Lab	NA	NA	NA	489	NA	NA	NA
1369	XRF	1049.5	290.7	107.5	171.6	126.6	NA	NA
1369	Lab	1170	294	NA	NA	NA	NA	NA
1370	XRF	857.5	217.8	187	NA	313.2	NA	NA
1370	Lab	NA	NA	138	NA	NA	NA	NA
1371	XRF	ND	62.2	61.9	ND	64.1	NA	NA

Appendix A
Table A-1
Results of All Surface Soil Samples Collected by Jacobs Engineering
Site Inspection
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	Method	Drip	Yard-NE	Yard-SE	Yard-SW	Yard-NW	Garden	Play
1371	Lab	NA	NA	NA	NA	NA	NA	NA
1372	XRF	965.5	358.2	188.1	NA	122.5	NA	NA
1372	Lab	NA	NA	NA	NA	NA	NA	NA
1373	XRF	NA	179	NA	198.1	281.3	NA	NA
1373	Lab	NA	NA	NA	NA	NA	NA	NA
1374	XRF	644.7	205.3	91.5	NA	246.1	NA	NA
1374	Lab	NA	NA	NA	NA	NA	NA	NA
1375	XRF	374.2	432.7	136	793.2	582.4	NA	NA
1375	Lab	NA	NA	NA	NA	NA	NA	NA
1376	XRF	NA	248.1	202.8	NA	453.6	NA	NA
1376	Lab	NA	NA	NA	NA	500	NA	NA
1377	XRF	1899.1	NA	278	241.8	NA	NA	NA
1377	Lab	NA	NA	NA	NA	NA	NA	NA
1378	XRF	3920	421.6	428	210.1	123	NA	NA
1378	Lab	NA	615	338	NA	NA	NA	NA
1379	XRF	2009.5	209	228.8	167.8	NA	150.1	NA
1379	Lab	NA	NA	NA	NA	NA	NA	NA
1380	XRF	568.4	165.8	192.3	243.1	353	NA	NA
1380	Lab	NA	NA	NA	NA	NA	NA	NA
1381	XRF	180.6	NA	55.4	67.6	ND	NA	NA
1381	Lab	NA	NA	NA	NA	NA	NA	NA
1382	XRF	ND	ND	ND	59.7	ND	NA	NA
1382	Lab	NA	29	NA	NA	NA	NA	NA
1383	XRF	656	187.6	229.6	151.1	NA	NA	NA
1383	Lab	NA	NA	NA	NA	NA	NA	NA
1384	XRF	151.5	NA	NA	117.3	90	NA	NA
1384	Lab	NA	NA	NA	133	NA	NA	NA
1385	XRF	1289.5	408.3	287	NA	414	NA	NA
1385	Lab	6670	NA	NA	NA	NA	NA	NA
1386	XRF	273	156	NA	163.3	82.5	NA	NA
1386	Lab	NA	NA	NA	NA	NA	NA	NA
1387	XRF	429.6	292	NA	241.1	474.7	NA	NA
1387	Lab	NA	NA	NA	NA	NA	NA	NA
1388	XRF	85.5	65.6	ND	122	66.1	NA	NA
1388	Lab	NA	NA	NA	NA	NA	NA	NA
1390	XRF	54.5	58.7	53.7	ND	60	NA	70.4
1390	Lab	NA	NA	NA	NA	NA	NA	NA
1391	XRF	166	358.2	245.3	373	404.3	185.1	308.7
1391	Lab	NA	363	NA	NA	NA	NA	NA
1392	XRF	105.8	51.4	ND	94.1	58.9	NA	NA
1392	Lab	NA	NA	NA	NA	NA	NA	NA
1393	XRF	NA	139.3	124	99.9	113.6	NA	69.5
1393	Lab	NA	NA	NA	84.6	NA	NA	NA
1394	XRF	158.8	NA	72	48.2	123.5	NA	NA
1394	Lab	NA	NA	NA	NA	NA	NA	NA
1395	XRF	39.7	362	194.1	287	708.7	NA	NA
1395	Lab	NA	NA	NA	NA	600	NA	NA

Appendix A
Table A-1
Results of All Surface Soil Samples Collected by Jacobs Engineering
Site Inspection
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	Method	Drip	Yard-NE	Yard-SE	Yard-SW	Yard-NW	Garden	Play
1397	XRF	246.1	80.6	NA	NA	NA	NA	72.6
1397	Lab	NA	NA	NA	NA	NA	NA	NA
1398	XRF	49.7	551.2	410	313.3	312.2	305.7	NA
1398	Lab	NA	508	NA	NA	NA	NA	NA
1399	XRF	NA	NA	NA	NA	73.9	NA	NA
1399	Lab	NA	NA	NA	NA	NA	NA	NA
1400	XRF	44.5	69	59.2	NA	ND	NA	ND
1400	Lab	NA	NA	NA	NA	NA	NA	NA
1401	XRF	NA	129	ND	NA	194.8	277.3	NA
1401	Lab	NA	NA	NA	NA	NA	NA	NA
1402	XRF	1240	86.5	106.1	151.5	119	169.6	NA
1402	Lab	NA	NA	NA	NA	NA	NA	NA
1403	XRF	2529.6	NA	NA	288.6	491.6	NA	258.6
1403	Lab	NA	NA	NA	NA	383	NA	NA
1404	XRF	1189.5	NA	623.5	165.3	4528	NA	NA
1404	Lab	NA	NA	NA	NA	7920	NA	NA
1405	XRF	NA	ND	63	NA	NA	NA	NA
1405	Lab	NA	NA	54	NA	NA	NA	NA
1406	XRF	66	ND	149	71.3	60.7	NA	NA
1406	Lab	NA	NA	NA	NA	NA	NA	NA
1407	XRF	NA	472.7	709.2	534.4	283.7	370	NA
1407	Lab	NA	NA	1110	634	NA	NA	NA
1408	XRF	57.4	NA	74.6	64.9	40.4	42.4	NA
1408	Lab	NA	NA	NA	NA	NA	NA	NA
1409	XRF	116.5	57.7	63.5	70.5	ND	NA	NA
1409	Lab	NA	NA	NA	NA	NA	NA	NA
1410	XRF	NA	NA	109.5	116.1	63.5	127.9	NA
1410	Lab	NA	NA	NA	NA	NA	NA	NA
1411	XRF	NA	NA	332.6	352.6	231.8	NA	NA
1411	Lab	NA	NA	NA	NA	NA	NA	NA
1412	XRF	597.2	693.5	NA	ND	ND	NA	NA
1412	Lab	NA	888	NA	NA	NA	NA	NA
1413	XRF	446	ND	50.7	96	106.5	NA	NA
1413	Lab	NA	NA	NA	NA	NA	NA	NA
1414	XRF	NA	167.1	90.3	NA	NA	NA	140.8
1414	Lab	NA	NA	NA	NA	NA	NA	NA
1415	XRF	ND	65.8	66.4	93.6	84	NA	NA
1415	Lab	NA	NA	29.6	NA	NA	NA	NA
1416	XRF	NA	90.5	65.1	173	116	NA	NA
1416	Lab	NA	NA	NA	NA	NA	NA	NA
1417	XRF	135.1	139.1	245.6	83.5	118.1	62.2	NA
1417	Lab	NA	NA	211	NA	NA	NA	NA
1418	XRF	ND	47.4	64	NA	NA	NA	46.5
1418	Lab	NA	NA	NA	NA	NA	NA	NA
1419	XRF	597.5	324.7	349.3	632	269	NA	NA
1419	Lab	NA	NA	NA	NA	NA	NA	NA
1420	XRF	586	NA	294.6	433.2	262.6	NA	NA

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Table A-1
Results of All Surface Soil Samples Collected by Jacobs Engineering
Site Inspection
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	Method	Drip	Yard-NE	Yard-SE	Yard-SW	Yard-NW	Garden	Play
1420	Lab	NA	NA	NA	415	NA	NA	NA
1421	XRF	48.2	42.2	ND	NA	NA	NA	39.7
1421	Lab	NA	NA	NA	NA	NA	NA	NA
1422	XRF	2348.8	NA	NA	179.1	458	NA	NA
1422	Lab	NA	NA	NA	NA	NA	NA	NA
1423	XRF	337.2	171.3	150.1	98.8	261.3	NA	NA
1423	Lab	NA	NA	NA	NA	NA	NA	NA
1424	XRF	183.8	73.8	NA	144.3	160.3	NA	NA
1424	Lab	NA	NA	NA	NA	NA	NA	NA
1425	XRF	1800	178.8	391.2	94.5	146.3	NA	NA
1425	Lab	NA	NA	NA	NA	NA	NA	NA
1426	XRF	349.6	354	230.3	333.6	115	NA	NA
1426	Lab	NA	NA	NA	NA	NA	NA	NA
1427	XRF	1960	361	194.3	1240	319.6	NA	NA
1427	Lab	NA	NA	NA	2290	NA	NA	NA
1428	XRF	90.3	NA	48.9	168.1	81.6	NA	67
1428	Lab	NA	NA	NA	NA	NA	NA	NA
1429	XRF	611.5	NA	156.1	92.6	NA	NA	242
1429	Lab	NA	NA	NA	NA	NA	NA	NA
1430	XRF	1060	106.8	NA	NA	56.9	NA	NA
1430	Lab	NA	NA	NA	NA	NA	NA	NA
1431	XRF	650.4	185.8	244.6	211.3	294	NA	NA
1431	Lab	NA	NA	NA	NA	NA	NA	NA
1432	XRF	8025.6	223.1	330	289.2	NA	389.3	NA
1432	Lab	NA	NA	NA	NA	NA	NA	NA
1433	XRF	403.6	85.3	214.6	96.6	504.7	NA	NA
1433	Lab	NA	NA	NA	NA	1140	NA	NA
1434	XRF	471.2	393.2	195.6	378.3	69.1	NA	NA
1434	Lab	NA	NA	NA	NA	NA	NA	NA
1435	XRF	4579.2	221	161	118.3	191.1	NA	NA
1435	Lab	NA	NA	NA	NA	NA	NA	NA
1436	XRF	503.2	401.7	546.4	146.1	101	NA	NA
1436	Lab	NA	NA	475	NA	NA	NA	NA
1437	XRF	70.8	92	119.3	105	NA	NA	NA
1437	Lab	NA	NA	NA	83.9	NA	NA	NA
1438	XRF	1209.5	241.3	156.6	119.4	123.6	NA	NA
1438	Lab	NA	NA	NA	NA	NA	NA	NA
1439	XRF	163.1	88.5	114.6	175.6	91.6	NA	NA
1439	Lab	NA	NA	NA	NA	NA	NA	NA
1440	XRF	886.4	171.3	150.5	NA	360.2	NA	NA
1440	Lab	NA	NA	NA	NA	NA	NA	NA
1441	XRF	1469.5	236.8	344.2	291.2	237.1	NA	NA
1441	Lab	NA	NA	NA	NA	NA	NA	NA
1442	XRF	62.2	NA	NA	67.5	119	NA	52.9
1442	Lab	NA	NA	NA	60	NA	NA	NA
1443	XRF	66.5	NA	106.8	157.1	46.5	303.6	NA
1443	Lab	NA	NA	NA	NA	NA	NA	NA

Appendix A
Table A-1
Results of All Surface Soil Samples Collected by Jacobs Engineering
Site Inspection
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	Method	Drip	Yard-NE	Yard-SE	Yard-SW	Yard-NW	Garden	Play
1444	XRF	206	66.6	58	66.5	200	NA	81
1444	Lab	NA	NA	NA	NA	163	NA	NA
1445	XRF	417.6	207.1	229	NA	156.3	NA	NA
1445	Lab	NA	NA	NA	NA	NA	NA	NA
1446	XRF	1020	137.6	262.2	101	73	NA	NA
1446	Lab	NA	NA	NA	NA	NA	NA	NA
1447	XRF	793.2	293.3	132.5	205.6	291.3	NA	154.1
1447	Lab	1030	NA	NA	NA	265	NA	NA
1448	XRF	80	194.6	194.6	NA	135.8	NA	142.3
1448	Lab	NA	NA	NA	NA	NA	NA	NA
1449	XRF	2049.6	154.8	103.1	126.6	310.6	NA	NA
1449	Lab	NA	NA	127	NA	NA	NA	NA
1451	XRF	87.4	63.4	79.5	ND	NA	NA	NA
1451	Lab	NA	NA	NA	NA	NA	NA	NA
1452	XRF	232.3	169.3	293.3	NA	68.8	NA	NA
1452	Lab	NA	NA	NA	NA	NA	NA	NA
1453	XRF	200.3	76.9	69.5	129.8	NA	NA	NA
1453	Lab	NA	NA	NA	NA	NA	NA	NA
1454	XRF	ND	59.5	93.5	ND	ND	NA	NA
1454	Lab	NA	NA	NA	19.1	NA	NA	NA
1455	XRF	104	82.4	51.7	ND	ND	NA	NA
1455	Lab	NA	NA	NA	NA	NA	NA	NA
1456	XRF	157.6	NA	242.8	173.3	218	NA	NA
1456	Lab	274	NA	NA	NA	NA	NA	NA
1457	XRF	114	50.9	44.9	148.8	ND	NA	NA
1457	Lab	NA	NA	NA	NA	NA	NA	NA
1458	XRF	85.6	84.6	114.1	NA	NA	NA	60
1458	Lab	NA	NA	NA	NA	NA	NA	NA
1459	XRF	ND	126	NA	123.5	107	NA	NA
1459	Lab	NA	NA	NA	NA	NA	NA	NA
1460	XRF	435.2	102	173.5	102.4	183.6	NA	NA
1460	Lab	NA	NA	138	NA	NA	NA	NA
1461	XRF	55.2	47	56.9	80.9	103.8	NA	ND
1461	Lab	NA	NA	NA	NA	NA	NA	NA
1462	XRF	71.6	NA	NA	NA	NA	NA	39.4
1462	Lab	NA	NA	NA	NA	NA	NA	37
1463	XRF	48.5	ND	56.5	ND	45.5	NA	ND
1463	Lab	NA	NA	NA	NA	NA	NA	NA
1464	XRF	920.7	NA	NA	277.7	84.8	53	248.8
1464	Lab	NA	NA	NA	NA	NA	NA	NA
1465	XRF	46.9	ND	40.5	ND	ND	ND	NA
1465	Lab	NA	NA	NA	NA	NA	21.6	NA
1466	XRF	NA	NA	NA	295	NA	NA	93.4
1466	Lab	NA	NA	NA	NA	NA	NA	NA
1467	XRF	ND	ND	NA	ND	ND	NA	NA
1467	Lab	NA	NA	NA	NA	NA	NA	NA
1468	XRF	NA	104.9	NA	92.5	87.4	NA	124.9

Appendix A
Table A-1
Results of All Surface Soil Samples Collected by Jacobs Engineering
Site Inspection
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	Method	Drip	Yard-NE	Yard-SE	Yard-SW	Yard-NW	Garden	Play
1468	Lab	NA	NA	NA	NA	NA	NA	NA
1470	XRF	NA	171.6	NA	72.1	633.2	508.7	NA
1470	Lab	NA	NA	NA	NA	1470	520	NA
1471	XRF	367.2	282	NA	134.3	73.1	NA	NA
1471	Lab	NA	NA	NA	NA	NA	NA	NA
1472	XRF	967.2	396.6	196.1	94.8	189.8	NA	NA
1472	Lab	NA	346	NA	NA	NA	NA	NA
1473	XRF	405.3	264.7	215.1	151.8	146.1	NA	NA
1473	Lab	NA	NA	187	NA	NA	NA	NA
1474	XRF	235.8	212.8	109.5	176.3	285.6	345.6	NA
1474	Lab	NA	NA	NA	NA	NA	NA	NA
1475	XRF	2259.1	353.6	289.6	515.5	1280	NA	NA
1475	Lab	NA	NA	NA	NA	NA	NA	NA
1476	XRF	476.7	NA	175.8	133.6	233.6	194.6	NA
1476	Lab	NA	NA	139	NA	NA	NA	NA
1477	XRF	1140	472	168.1	744	1049.5	NA	NA
1477	Lab	1850	NA	NA	NA	6920	NA	NA
1478	XRF	NA	346.6	122.1	891.2	251.8	1929.5	NA
1478	Lab	NA	NA	NA	432	NA	2080	NA
1479	XRF	246.6	110	169	NA	335.6	NA	NA
1479	Lab	NA	NA	NA	NA	241	NA	NA
1481	XRF	63.5	ND	ND	ND	69.9	NA	NA
1481	Lab	NA	196	NA	NA	NA	NA	NA
1482	XRF	359.7	178.1	166.3	126.5	144.1	NA	NA
1482	Lab	178	NA	NA	NA	NA	NA	NA
1483	XRF	787.2	173	157.6	213.3	67.5	NA	NA
1483	Lab	NA	NA	NA	NA	NA	NA	NA
1484	XRF	948.7	130.8	93.9	68.6	99.8	NA	NA
1484	Lab	NA	NA	NA	86.5	NA	NA	NA
1485	XRF	137.3	ND	92.9	86.9	129.8	NA	56.9
1485	Lab	NA	NA	NA	NA	NA	NA	NA
1486	XRF	ND	50.7	68.3	97.8	84.9	NA	NA
1486	Lab	NA	NA	NA	NA	NA	NA	NA
1487	XRF	276.6	NA	69.9	128.6	70.6	NA	NA
1487	Lab	NA	NA	NA	NA	NA	NA	NA
1488	XRF	57.7	NA	96.9	117.8	ND	NA	NA
1488	Lab	NA	NA	NA	NA	NA	NA	NA
1489	XRF	287.2	94.5	78.1	132	179.6	NA	NA
1489	Lab	NA	NA	NA	NA	NA	NA	NA
1490	XRF	ND	71	181.1	133.6	90.9	NA	NA
1490	Lab	NA	NA	NA	NA	NA	NA	NA
1491	XRF	632	234	NA	NA	115.4	NA	NA
1491	Lab	NA	198	NA	NA	NA	NA	NA
1492	XRF	NA	420.7	326	NA	329	NA	NA
1492	Lab	NA	NA	NA	NA	NA	NA	NA
1493	XRF	222.3	54.7	122.1	94.3	93	NA	NA
1493	Lab	NA	NA	NA	NA	NA	NA	NA

Appendix A
Table A-1
Results of All Surface Soil Samples Collected by Jacobs Engineering
Site Inspection
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	Method	Drip	Yard-NE	Yard-SE	Yard-SW	Yard-NW	Garden	Play
1494	XRF	1020	90.4	84.1	155.6	97.5	NA	NA
1494	Lab	1540	NA	NA	NA	NA	NA	NA
1495	XRF	63.9	112	61.2	ND	56.7	NA	ND
1495	Lab	NA	NA	NA	NA	231	NA	NA
1496	XRF	256.2	122	68.8	149.8	102.8	NA	407.7
1496	Lab	NA	103	NA	NA	NA	NA	253
1497	XRF	134.6	53.2	72.8	44.4	122.8	NA	NA
1497	Lab	NA	NA	NA	NA	NA	NA	NA
1498	XRF	1699.1	82	67.5	515.2	348	NA	NA
1498	Lab	2080	NA	NA	399	NA	NA	NA
1499	XRF	NA	NA	NA	ND	NA	NA	NA
1499	Lab	NA	NA	NA	20.5	NA	NA	NA
1500	XRF	91.8	113.4	183.1	207	127.9	NA	107
1500	Lab	NA	NA	174	NA	NA	NA	NA
1501	XRF	NA	81.4	51.5	ND	104	NA	NA
1501	Lab	NA	NA	NA	NA	NA	NA	NA
1502	XRF	166.3	ND	ND	60.5	84.5	120	NA
1502	Lab	NA	NA	NA	NA	NA	NA	NA
1503	XRF	558	87	45.5	53.4	92.4	132.6	NA
1503	Lab	NA	NA	NA	NA	NA	NA	NA
1504	XRF	234.6	ND	ND	ND	ND	NA	NA
1504	Lab	NA	NA	NA	NA	NA	NA	NA
1505	XRF	104.9	107	113.8	69	NA	NA	NA
1505	Lab	NA	NA	NA	NA	NA	NA	NA
1506	XRF	ND	89.3	92	NA	49.2	NA	74.9
1506	Lab	NA	NA	NA	NA	NA	NA	NA
1507	XRF	NA	NA	NA	NA	NA	NA	238.3
1507	Lab	NA	NA	NA	NA	NA	NA	NA
1508	XRF	NA	262.7	272.3	442.3	NA	NA	NA
1508	Lab	NA	NA	NA	NA	NA	NA	NA
1509	XRF	3619.1	137.1	370.6	1060	337.7	NA	137.5
1509	Lab	NA	NA	NA	NA	NA	NA	NA
1510	XRF	71.3	331.6	183	66.4	54.4	NA	NA
1510	Lab	NA	NA	NA	NA	NA	NA	NA
1511	XRF	931.2	NA	NA	104.9	288	NA	142.8
1511	Lab	NA	NA	NA	NA	NA	NA	NA
1512	XRF	41	ND	37.4	ND	ND	NA	NA
1512	Lab	NA	NA	NA	NA	NA	NA	NA
1513	XRF	1029.5	197.8	371.7	91.5	470	203.6	NA
1513	Lab	NA	NA	NA	NA	NA	NA	NA
1514	XRF	297.6	111.5	428.7	412	169.5	NA	NA
1514	Lab	NA	NA	NA	NA	NA	NA	NA
1515	XRF	305	166	135.1	170.8	NA	NA	NA
1515	Lab	NA	NA	NA	NA	NA	NA	NA
1516	XRF	1769.5	NA	NA	NA	611.2	NA	NA
1516	Lab	4090	NA	NA	NA	584	NA	NA
1517	XRF	2619.1	644	233.8	164.8	559.5	NA	NA

Appendix A
Table A-1
Results of All Surface Soil Samples Collected by Jacobs Engineering
Site Inspection
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	Method	Drip	Yard-NE	Yard-SE	Yard-SW	Yard-NW	Garden	Play
1517	Lab	3820	NA	NA	NA	NA	NA	NA
1518	XRF	ND	ND	ND	46.7	61.5	NA	NA
1518	Lab	NA	NA	NA	NA	NA	NA	NA
1519	XRF	786.4	371	855.2	553.2	502	NA	NA
1519	Lab	NA	NA	1370	NA	NA	NA	NA
1520	XRF	247.6	200.1	214.1	180.1	205.3	NA	NA
1520	Lab	NA	NA	NA	NA	NA	NA	NA
1522	XRF	868	661.5	528.4	488.3	NA	NA	NA
1522	Lab	NA	NA	NA	NA	NA	NA	NA
1523	XRF	NA	417.2	577.5	493.2	638.7	NA	NA
1523	Lab	NA	NA	NA	468	NA	NA	NA
1524	XRF	799.2	111.1	313	212.1	443.6	NA	NA
1524	Lab	NA	NA	NA	NA	387	NA	NA
1525	XRF	NA	172.8	NA	263.3	452	NA	NA
1525	Lab	NA	NA	NA	NA	972	NA	NA
1526	XRF	1769.5	468	NA	197.6	339.3	106.5	NA
1526	Lab	1200	NA	NA	NA	NA	NA	NA
1527	XRF	258.6	NA	145.5	229	468.7	NA	NA
1527	Lab	NA	NA	244	NA	NA	NA	NA
1528	XRF	515.5	NA	203.3	NA	NA	362	NA
1528	Lab	NA	NA	NA	NA	NA	NA	NA
1529	XRF	746.7	448	784	474.3	417.2	NA	NA
1529	Lab	NA	NA	NA	468	NA	NA	NA
1530	XRF	ND	61.2	NA	NA	ND	NA	73.8
1530	Lab	NA	NA	NA	NA	NA	NA	NA
1531	XRF	60	32	NA	ND	NA	NA	ND
1531	Lab	NA	NA	NA	NA	NA	NA	NA
1532	XRF	ND	ND	56.9	44.7	ND	NA	NA
1532	Lab	NA	NA	NA	NA	14.1	NA	NA
1533	XRF	836	63.5	54.9	72.8	ND	NA	NA
1533	Lab	NA	NA	NA	71.4	NA	NA	NA
1534	XRF	ND	ND	ND	ND	51.2	NA	ND
1534	Lab	20.6	ND	NA	NA	NA	NA	NA
1535	XRF	153.6	293.7	209.1	171.6	85	NA	NA
1535	Lab	NA	NA	201	NA	NA	NA	NA
1536	XRF	ND	ND	54.2	ND	33.4	ND	ND
1536	Lab	NA	NA	NA	NA	NA	NA	NA
1537	XRF	ND	86.9	64	62.9	NA	NA	ND
1537	Lab	17.2	NA	NA	NA	NA	NA	NA
1538	XRF	ND	129	ND	NA	NA	NA	ND
1538	Lab	NA	NA	NA	NA	NA	NA	NA
1539	XRF	797.2	108	184.1	327.7	327	NA	NA
1539	Lab	NA	NA	NA	226	NA	NA	NA
1540	XRF	58.7	57.4	122.1	61.2	86.3	NA	NA
1540	Lab	29.2	NA	NA	NA	NA	NA	NA
1541	XRF	ND	ND	230.6	ND	40.9	NA	NA
1541	Lab	NA	NA	NA	NA	24.6	NA	NA

Appendix A
Table A-1
Results of All Surface Soil Samples Collected by Jacobs Engineering
Site Inspection
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	Method	Drip	Yard-NE	Yard-SE	Yard-SW	Yard-NW	Garden	Play
1542	XRF	1029.5	ND	113	66.1	ND	NA	NA
1542	Lab	NA	NA	NA	NA	NA	NA	NA
1543	XRF	672	129.8	96.4	51.7	44.7	NA	NA
1543	Lab	754	NA	NA	NA	NA	NA	NA
1544	XRF	1409.5	201.1	43.5	47.5	46.9	NA	NA
1544	Lab	1490	NA	NA	NA	NA	NA	NA
1546	XRF	127.9	68	246.1	59.5	93.3	NA	68.1
1546	Lab	NA	64.6	NA	NA	NA	NA	NA
1547	XRF	72.3	ND	75	ND	47.7	NA	NA
1547	Lab	NA	NA	44.5	NA	NA	NA	NA
1548	XRF	110.6	86.3	113.1	NA	186.6	NA	95.6
1548	Lab	NA	NA	NA	NA	NA	NA	NA
1549	XRF	113.8	51	NA	65	ND	NA	ND
1549	Lab	NA	NA	NA	NA	NA	NA	NA
1550	XRF	ND	87	58.5	ND	NA	NA	ND
1550	Lab	NA	NA	NA	NA	NA	NA	NA
1552	XRF	62.2	130.3	450.7	NA	NA	NA	175.8
1552	Lab	NA	NA	378	NA	NA	NA	NA
1554	XRF	60.7	87	83.6	76.5	100.4	NA	NA
1554	Lab	NA	NA	NA	NA	NA	NA	NA
1555	XRF	NA	35.5	28.3	ND	ND	NA	NA
1555	Lab	NA	NA	NA	NA	NA	NA	NA
1556	XRF	503.2	303.3	494	382.2	195.5	NA	NA
1556	Lab	NA	NA	257	NA	229	NA	NA
1557	XRF	1540	257	184.6	418	601.5	289	NA
1557	Lab	NA	NA	NA	NA	599	409	NA
1558	XRF	151.8	149.6	107.3	94.8	NA	NA	NA
1558	Lab	NA	NA	NA	NA	NA	NA	NA
1559	XRF	1149.5	NA	367.3	454	446.3	NA	NA
1559	Lab	NA	NA	NA	NA	NA	NA	NA
1560	XRF	392.3	646	917.5	NA	603.2	NA	NA
1560	Lab	NA	NA	NA	NA	567	NA	NA
1561	XRF	224.1	NA	150.1	65.5	232.3	NA	NA
1561	Lab	NA	NA	NA	NA	203	NA	NA
1562	XRF	NA	302.6	NA	925.5	440	525.2	NA
1562	Lab	NA	NA	NA	NA	NA	NA	NA
1563	XRF	NA	260.7	1309.5	814.7	336.7	NA	NA
1563	Lab	NA	NA	2020	NA	NA	NA	NA
1564	XRF	245.6	158.5	76.9	NA	NA	NA	NA
1564	Lab	NA	NA	NA	NA	NA	NA	NA
1565	XRF	194.1	146.1	78.5	294.3	192.3	NA	NA
1565	Lab	NA	NA	NA	NA	NA	NA	NA
1566	XRF	485.2	381.2	385	NA	461.2	NA	NA
1566	Lab	NA	NA	NA	NA	NA	NA	NA
1567	XRF	186.3	NA	125.4	157.6	NA	NA	NA
1567	Lab	NA	NA	NA	NA	NA	NA	NA
1568	XRF	1680	421.6	584.7	665.2	487.2	NA	NA

Appendix A
Table A-1
Results of All Surface Soil Samples Collected by Jacobs Engineering
Site Inspection
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	Method	Drip	Yard-NE	Yard-SE	Yard-SW	Yard-NW	Garden	Play
1568	Lab	NA	NA	NA	NA	NA	NA	NA
1569	XRF	NA	665.5	234.6	375.7	274.2	NA	NA
1569	Lab	NA	NA	NA	NA	NA	NA	NA
1570	XRF	171.8	ND	58.9	260.7	83.8	NA	39
1570	Lab	NA	NA	NA	NA	NA	NA	NA
1571	XRF	NA	462	851.2	586.7	NA	NA	NA
1571	Lab	NA	NA	582	NA	NA	NA	NA
1572	XRF	1760	NA	192.6	696.4	357.6	NA	NA
1572	Lab	NA	NA	NA	647	NA	NA	NA
1573	XRF	36.7	ND	37.9	ND	54.2	NA	NA
1573	Lab	NA	NA	NA	NA	NA	NA	NA
1574	XRF	57.7	70.5	49.5	55.2	115.6	NA	NA
1574	Lab	NA	NA	NA	NA	NA	NA	NA
1575	XRF	NA	NA	ND	NA	38.2	NA	NA
1575	Lab	NA	NA	39.5	NA	39.5	NA	NA
1576	XRF	NA	NA	NA	NA	NA	NA	ND
1576	Lab	NA	NA	NA	NA	NA	NA	12.6
1577	XRF	255.1	470.3	171.3	102	86	NA	NA
1577	Lab	NA	NA	NA	NA	NA	NA	NA
1578	XRF	58	ND	ND	ND	ND	31.2	NA
1578	Lab	NA	NA	NA	28	NA	NA	NA
1579	XRF	164.8	65.3	130.8	86.6	387.2	60	NA
1579	Lab	NA	NA	NA	NA	NA	NA	NA
1580	XRF	84.5	ND	ND	75.1	75.3	NA	NA
1580	Lab	NA	NA	24	NA	NA	NA	NA
1581	XRF	317	76	NA	430.7	296.6	NA	NA
1581	Lab	NA	NA	NA	NA	NA	NA	NA
1582	XRF	609.5	170.5	541.5	688.7	130.5	NA	NA
1582	Lab	NA	NA	NA	NA	NA	NA	NA
1583	XRF	NA	NA	ND	NA	NA	NA	NA
1583	Lab	NA	NA	12	NA	NA	NA	NA
1584	XRF	64.5	ND	ND	ND	ND	NA	NA
1584	Lab	NA	24	NA	NA	NA	NA	NA
1585	XRF	185.8	94.8	157.6	258.7	225.8	NA	NA
1585	Lab	NA	NA	NA	NA	NA	NA	NA
1586	XRF	240.3	349	NA	511.6	1020	NA	NA
1586	Lab	NA	NA	NA	NA	NA	NA	NA
1587	XRF	1220	279.7	233.3	892	474.3	NA	NA
1587	Lab	NA	NA	NA	NA	NA	NA	NA
1588	XRF	252.3	NA	305.3	156.8	NA	NA	NA
1588	Lab	NA	NA	NA	NA	NA	NA	NA
1589	XRF	NA	346	705.2	534.4	205	NA	236.3
1589	Lab	NA	NA	NA	NA	NA	NA	NA
1590	XRF	NA	262.2	915.2	508.3	255	NA	NA
1590	Lab	NA	NA	NA	NA	NA	NA	NA
1591	XRF	460	619.2	828.7	412.3	NA	NA	NA
1591	Lab	NA	NA	NA	NA	NA	NA	NA

Appendix A
Table A-1
Results of All Surface Soil Samples Collected by Jacobs Engineering
Site Inspection
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	Method	Drip	Yard-NE	Yard-SE	Yard-SW	Yard-NW	Garden	Play
1592	XRF	3179.1	341.6	369.3	171	406.3	NA	NA
1592	Lab	NA	NA	NA	NA	NA	NA	NA
1593	XRF	NA	163.1	NA	235	249.6	NA	NA
1593	Lab	NA	171	NA	NA	NA	NA	NA
1594	XRF	690	170.1	181.1	1289.5	369	NA	NA
1594	Lab	13500	NA	NA	1830	NA	NA	NA
1595	XRF	ND	NA	136.6	752.7	1469.5	NA	NA
1595	Lab	NA	NA	NA	NA	2280	NA	NA
1596	XRF	403.6	235.8	101.8	ND	109.4	NA	NA
1596	Lab	NA	NA	NA	NA	NA	NA	NA
1597	XRF	31.1	ND	42.2	ND	NA	NA	NA
1597	Lab	NA	NA	NA	NA	NA	NA	NA
1598	XRF	557.5	283	393.2	285.3	679.2	NA	NA
1598	Lab	517	NA	NA	NA	622	NA	NA
1599	XRF	NA	1160	322.7	216.3	237.8	NA	NA
1599	Lab	NA	NA	NA	NA	NA	NA	NA
1600	XRF	1169.5	278.6	NA	264.7	352.3	NA	304.3
1600	Lab	NA	NA	NA	NA	NA	NA	NA
1601	XRF	170.1	345.3	749.2	305.6	310	NA	NA
1601	Lab	NA	NA	NA	NA	NA	NA	NA
1602	XRF	NA	617.5	180	820	NA	NA	NA
1602	Lab	NA	NA	NA	NA	NA	NA	NA
1603	XRF	111.6	ND	208.3	114	104	NA	NA
1603	Lab	NA	NA	NA	NA	NA	NA	NA
1604	XRF	233	ND	96.8	67.9	125.5	NA	NA
1604	Lab	NA	NA	NA	NA	NA	NA	NA
1605	XRF	1320	580.7	1160	335	309.2	NA	NA
1605	Lab	NA	NA	1260	NA	NA	NA	NA
1607	XRF	35.7	32	98.4	ND	ND	NA	NA
1607	Lab	NA	NA	NA	NA	NA	NA	NA
1608	XRF	ND	ND	45	41.2	59	NA	NA
1608	Lab	NA	NA	NA	NA	NA	NA	NA
1609	XRF	2659.1	678.4	554.4	647.5	1089.5	NA	NA
1609	Lab	NA	NA	NA	NA	887	NA	NA
1610	XRF	ND	43.4	ND	28.5	NA	NA	NA
1610	Lab	NA	NA	NA	NA	NA	NA	NA
1611	XRF	11795.2	308	257.3	320	265.6	NA	NA
1611	Lab	7640	NA	NA	282	NA	NA	NA
1612	XRF	597.5	775.5	731.2	940.7	752.4	NA	NA
1612	Lab	738	NA	NA	NA	NA	NA	NA
1613	XRF	NA	NA	226.8	266.3	NA	NA	NA
1613	Lab	NA	NA	NA	NA	NA	NA	NA
1614	XRF	NA	193.8	105.6	NA	NA	124.5	NA
1614	Lab	NA	NA	NA	NA	NA	154	NA
1615	XRF	151.3	154.1	NA	127.5	119.6	NA	NA
1615	Lab	NA	NA	NA	NA	NA	NA	NA
1616	XRF	NA	410.3	835.2	964.7	980	290	NA

Appendix A
Table A-1
Results of All Surface Soil Samples Collected by Jacobs Engineering
Site Inspection
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	Method	Drip	Yard-NE	Yard-SE	Yard-SW	Yard-NW	Garden	Play
1616	Lab	NA	NA	NA	4900	3240	NA	NA
1617	XRF	124.6	218.8	125	NA	142.3	NA	NA
1617	Lab	NA	NA	NA	NA	NA	NA	NA
1618	XRF	455.6	142.3	481.6	195.6	177.3	NA	NA
1618	Lab	NA	NA	797	NA	NA	NA	NA
1619	XRF	1400	796	819.2	620.7	2080	NA	219
1619	Lab	NA	NA	NA	NA	NA	NA	NA
1620	XRF	616.7	131	1300	NA	NA	NA	NA
1620	Lab	NA	131	NA	NA	NA	NA	NA
1621	XRF	474	316.7	308.7	393.2	822.4	NA	NA
1621	Lab	NA	NA	NA	NA	717	NA	NA
1622	XRF	40	ND	29.1	ND	NA	NA	NA
1622	Lab	NA	NA	NA	NA	NA	NA	NA
1623	XRF	828.7	360.3	126	568	108	NA	NA
1623	Lab	918	NA	NA	624	NA	NA	NA
1624	XRF	236.1	270.2	344.7	319.6	237.3	NA	NA
1624	Lab	NA	NA	NA	NA	NA	NA	NA
1625	XRF	NA	NA	68.9	47.4	ND	NA	NA
1625	Lab	NA	NA	NA	NA	NA	NA	NA
1626	XRF	1049.5	252.1	212.1	219	178.1	NA	NA
1626	Lab	NA	NA	NA	NA	NA	NA	NA
1627	XRF	234.8	120.5	128.3	NA	111.4	NA	NA
1627	Lab	NA	NA	NA	NA	85	NA	NA
1628	XRF	2668.8	1440	1289.5	164.5	432.7	NA	NA
1628	Lab	NA	NA	2360	NA	NA	NA	NA
1630	XRF	NA	172.3	188.3	141.6	92.5	NA	NA
1630	Lab	NA	NA	NA	NA	NA	NA	NA
1631	XRF	381.3	175.5	262	207.1	204.6	NA	NA
1631	Lab	NA	NA	NA	NA	NA	NA	NA
1632	XRF	825.5	260.7	128.3	NA	NA	207.8	NA
1632	Lab	1080	NA	NA	NA	NA	NA	NA
1633	XRF	ND	ND	ND	48	45.7	NA	NA
1633	Lab	NA	NA	NA	NA	NA	NA	NA
1638	XRF	955.2	347.7	298.7	116.8	224.1	NA	NA
1638	Lab	NA	NA	NA	NA	NA	NA	NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
2001	123.9	ND	NA	NA	NA	NA	NA		NA
2004	4457.6	716.8	265.4	4617.6	1489.6	NA	NA	B2	1580
2007	103.2	ND	64.5	104.9	79.8	NA	NA	F2	38.4
2008	276.8	84.1	95.3	44.7	69.3	NA	NA		NA
2013	278	275.4	326.8	324.2	637.2	NA	NA		NA
2016	ND	58.8	28.4	61.2	32.4	NA	NA		NA
2017	1289.6	82.9	277.4	153.6	142.6	NA	107.7	B2	126
2018	NA	341.8	279.2	NA	1000	NA	NA		NA
2019	26.6	33.9	ND	49.5	NA	NA	NA		NA
2020	2120	199.2	153.7	74.4	568	NA	274.6		NA
2021	1020	245.2	359.8	127.1	205.2	NA	94.5		NA
2026	107.1	104.3	162.2	673.6	815.2	NA	NA	B2	810
2029	1220	95.8	346.6	278.2	316.8	NA	52.9		NA
2030	144.5	247.6	678	274	192.1	NA	250.2	Play	262
2031	48.1	43.4	47.2	39.8	46.7	NA	NA	F2	29.6
2032	5868.8	248.8	889.6	481.2	439.2	NA	NA		NA
2033	107.8	146.7	128.6	205.8	107.9	NA	NA		NA
2034	1489.6	389.2	1060	391.2	158.6	NA	NA	B2	113
2035	439.6	249.4	337	276.8	339.2	NA	NA	B2	533
2036	1779.2	637.2	329	468.4	257.2	NA	NA		NA
2037	828	196.7	387	1140	1109.6	NA	NA		NA
2038	35.2	49.9	ND	ND	ND	NA	NA	F2	14.1
2040	ND	ND	ND	ND	ND	NA	ND	Play	81.2
2043	4457.6	1060	393.4	1220	437.6	NA	NA	B2	403
2046	444	169.9	752	63.5	322.6	NA	40.8	B2	316
2047	6358.4	696	2868.8	NA	NA	NA	NA	F1	707
2049	NA	91.5	NA	NA	NA	NA	342.8		NA
2051	1240	1089.6	2369.6	987.2	366.8	NA	552.8	F1	16300
2053	509.6	162.2	202.1	340	217.8	NA	NA	F2	393
2054	73.7	295.2	396.2	NA	NA	NA	32.3	Play	17.8
2055	NA	210	305.2	757.6	816	NA	NA	F1	185
2057	319	489.2	478	510.4	NA	774.4	NA		NA
2060	1020	445.6	833.6	224.6	436.8	NA	NA	F2	948
2061	2689.6	448.4	577.2	236.8	268.6	NA	NA	F1	689
2062	86.5	131.1	176.7	357.6	610	NA	NA		NA
2063	672.4	744.8	609.6	336.8	368.4	NA	385.4		NA
2066	368.4	114.2	220	512.8	223.4	NA	NA		NA
2067	20889.6	327.6	750	150.2	NA	NA	155.9		NA
2069	36.8	182.5	126.1	366.6	134.8	NA	NA	B2	116
2070	13593.6	96.5	179.2	281.8	965.6	127	112.9		NA
2072	903.3	228.9	404.9	311.3	272.9	NA	NA		NA
2073	921.6	219.6	94.7	1140	386	NA	NA	B1	1450
2075	1560	122.7	157.1	225	127.6	NA	NA	F1	128
2077	895	195	327.2	209	300.6	NA	666.4		NA
2079	41.9	29.2	52	96.3	45.3	NA	NA		NA
2081	1209.6	ND	149.7	53.9	505.2	NA	NA	B1	18.2
2082	71.8	68.4	132.8	NA	NA	NA	NA	F1	70
2083	90.8	215.8	280.6	130.7	50.9	NA	NA		NA
2084	96.3	33.6	ND	45.9	41.2	NA	NA		NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
2092	1659.2	500.8	174.5	415.2	446	NA	NA	F1	752
2093	653.4	399.9	1294.6	265.2	168.1	NA	NA		NA
2094	94.6	51	198.5	500	NA	NA	NA		NA
2095	488	109	166.7	382.6	81.7	133.8	NA		NA
2096	228.4	44	52.7	104.7	244.4	NA	NA		NA
2097	821.6	214.4	176.6	NA	NA	NA	NA	F2	287
2100	NA	199.8	167.5	377.8	197.9	NA	NA		NA
2102	44.4	68.4	42.5	20.9	31	NA	76.8		NA
2103	45.9	78.8	41.7	53.4	52.3	NA	NA	F2	19.4
2104	66.6	183.6	152.4	111	201.8	NA	133	F2	121
2105	452	236.2	142.1	219.4	466.4	NA	NA		NA
2106	NA	170.3	144.3	149.1	183.4	NA	126.8		NA
2107	607.2	100.2	67.8	116.8	NA	NA	NA		NA
2109	266.8	116.7	107.5	208.8	450.4	NA	NA	F1	88.6
2110	379.4	546.8	398.2	116.5	216	NA	NA		NA
2111	1400	68.3	586.4	NA	121.3	NA	NA	F1	66.8
2112	1100	157.8	NA	NA	NA	NA	NA		NA
2113	705.1	175.9	80.4	381.4	436.6	322.8	190.1	F1	198
2116	1889.6	410.4	388.6	174.3	744	NA	NA		NA
2117	663.6	168.2	411.6	269.8	235.8	NA	NA		NA
2119	891	226.1	52	411	63.9	NA	239.4		NA
2121	149.6	88.4	137.2	104.1	87.5	NA	NA	F1	99.8
2122	231.6	221	239.6	946.4	476	NA	NA	B2	386
2124	ND	ND	29.7	49.3	46.3	NA	ND	F1	10.7
2125	558.4	268.2	217.2	121.5	682	NA	NA	F1	696
2126	354.6	167.8	NA	206.8	146.9	55.9	152.8	Garden	130
2127	NA	2840	155.2	NA	56.1	NA	NA	F2	164
2133	35.5	100.7	94.6	NA	NA	NA	NA	F1	104
2134	208.4	385.8	119.5	176.1	104.3	NA	NA	B1	160
2135	96.5	51.1	59	26.9	44.3	NA	NA	B1	25
2139	227.6	1589.6	367.6	NA	NA	1329.6	NA	F1	1390
2141	1389.6	314	124	190.1	1069.6	NA	NA	F2	112
2144	46.9	176.4	NA	171.5	152.1	NA	NA		NA
2145	658	298.8	52	546.8	NA	NA	NA		NA
2148	821.6	1089.6	413.6	151.1	150.3	NA	ND	Play	25.7
2151	479.6	54.7	75.6	107.6	59.7	NA	NA	F1	49.6
2152	253.3	136.8	158.9	227	404.4	NA	NA		NA
2154	75.8	93.3	67.1	NA	276	NA	NA	F2	50.5
2155	692.8	274.2	396.3	239.8	274.5	NA	NA		NA
2156	NA	81.6	63.7	NA	68.6	NA	NA	F1	60.3
2158	387.8	454.8	1409.6	79.2	53.9	NA	NA		NA
2161	NA	549.6	NA	NA	NA	NA	NA	F1	724
2162	634.4	478.8	532.8	NA	NA	735.6	375.8	Play	372
2166	640.4	108	836	115.4	714	NA	NA	F1	91.3
2167	39.9	48.4	42.5	39.9	69.2	NA	NA	B2	22.6
2169	43.8	180.4	NA	150.3	160.6	NA	NA		NA
2170	161.1	159.6	96.6	197.2	284.2	NA	NA	F2	108
2171	NA	48.4	NA	90.4	NA	NA	NA		NA
2172	1400.2	609.9	186.3	221	583.6	NA	NA		NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
2173	789.5	238.6	375.7	326.8	NA	NA	NA		NA
2175	175.1	246.6	349	202.9	178.5	NA	NA		NA
2176	1889.6	117.7	245.2	272.2	332.2	NA	NA	B1	831
2178	3483.2	339	243.3	542.3	327.6	NA	NA		NA
2179	91.6	145.3	131.1	105.1	88.7	NA	NA	F2	207
2180	1859.2	176.2	448	153	508.8	NA	NA	B1	179
2184	17996.8	382.4	784.8	438	291.8	NA	NA		NA
2185	241	276.6	552.8	324.8	109.9	NA	NA	F2	711
2187	2769.6	1209.6	249.6	343.8	248.4	NA	NA	B1	323
2188	83.9	123.5	77.9	NA	NA	NA	NA	F2	80.3
2190	351	389.2	602.4	NA	NA	NA	NA	F1	568
2193	ND	74.6	ND	ND	ND	NA	NA	B1	19.1
2195	1988.8	169.1	468	122.4	232.4	NA	NA	B1	257
2196	445.2	249.3	420.3	475.1	336	NA	NA		NA
2197	428	53.2	41.3	45.9	192.3	NA	45.4		NA
2200	580	111.9	200.7	299	231.6	NA	NA		NA
2201	64.2	78.6	62.9	52.9	85.3	NA	NA	F1	94.1
2203	632	264.8	1300	1329.6	318	NA	NA	B1	1620
2204	950.4	79.7	133.5	342.6	NA	NA	NA		NA
2206	139.9	108.3	61.1	214	77.7	NA	NA	B1	150
2207	685.2	288.6	288.4	108.5	144.7	NA	142.7	Play	101
2208	393.8	130.6	144.9	93.9	117.9	NA	NA		NA
2209	2689.6	870.4	681.6	626.8	995.2	NA	NA		NA
2212	168.5	617.2	83.1	NA	NA	NA	NA	F2	131
2214	903.2	507.6	357.4	143.5	224	NA	NA	B1	161
2216	141.3	116	155.5	199.3	140.4	NA	NA	F1	105
2218	3400.3	681.8	594.7	178.3	318.8	NA	NA	B1	183
2219	168.7	73.4	116.7	174.1	173.9	NA	467.1		NA
2221	482.8	165.1	313.2	NA	777.2	NA	NA	F2	654
2224	80.3	64.8	62.5	64.5	76.6	NA	56.3		NA
2225	183.5	65.7	208.2	225.6	121.7	NA	NA	F2	196
2226	992.8	2849.6	1929.6	2579.2	1189.6	NA	NA	F2	2160
2227	2409.6	1220	1000	624	378.4	NA	NA	F2	1320
2228	NA	327.4	NA	318.2	NA	NA	NA		NA
2229	2939.2	243.8	62.7	NA	NA	NA	NA	F1	213
2231	130.6	96.8	58.7	314	111.8	NA	NA	F2	77.5
2237	299.4	304.6	203.3	383.2	NA	NA	318.2		NA
2239	884	223.8	458.8	505.6	254.2	NA	NA	B1	504
2241	1049.6	281.2	227.6	489.2	355.8	NA	NA	F1	409
2242	111.2	95.8	NA	95.8	NA	NA	NA		NA
2243	1779.2	141.5	325.8	96.3	86.8	NA	NA	F2	711
2249	724.2	301.2	309.5	123.4	155.4	NA	192.8	Play	147
2251	ND	41.6	51.3	NA	NA	NA	NA	F2	35
2252	295.2	87.1	91.1	60.2	78.8	NA	NA		NA
2253	36.7	130.2	80.7	ND	ND	NA	NA	B1	33.6
2254	1580	195.7	123.2	553.6	NA	NA	NA	F1	177
2257	290	177.5	197.4	103.5	116.1	44.7	NA		NA
2259	97	ND	34.1	68.8	95.3	NA	NA		NA
2260	694.8	676.8	536	553.6	581.2	1549.6	NA	B1	596

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
2261	64.9	ND	ND	51.4	ND	NA	NA	F1	24
2262	3369.6	226.6	221.6	325.6	316.6	NA	NA	B2	370
2263	9619.2	290.4	106.7	918.4	788	1369.6	NA	F1	242
2264	2012.1	114.5	184.7	423.6	NA	NA	278.9		NA
2265	937.6	332.6	NA	378	NA	NA	NA		NA
2269	508.8	615.2	166.7	242.6	146.6	NA	NA	B1	171
2270	2680	536.8	1340	482.4	931.2	NA	NA	F1	382
2272	233.8	267	NA	NA	NA	NA	NA		NA
2273	522.8	127.4	164.6	106.8	166	NA	76.6	F1	95.1
2274	738.8	121.7	220.6	590.4	216.2	314.8	NA		NA
2275	526.4	209.2	396.2	331.8	386.6	332	NA		766
2276	824.8	183	709.2	210.4	162	88	531.6	Garden	160
2278	147.8	91.8	87.7	132.2	60.6	NA	44.9	B1	126
2279	237.4	353.6	492.8	629.6	501.6	166.4	NA	B2	632
2280	7456	335.2	258.6	490	538	NA	NA	B1	486
2281	2819.2	281.2	386.2	622.8	152.8	NA	NA		NA
2282	NA	141.5	224	NA	NA	NA	NA		NA
2285	285.6	99	239.4	1689.6	532	NA	NA		NA
2286	1828.8	215.4	346.2	246.8	308.6	NA	NA		NA
2287	247.6	119.1	161.9	101.7	85.7	NA	75.9		NA
2288	189.5	65	99.1	59.8	52	NA	NA		NA
2289	695.6	307	225.4	606	577.6	385.8	NA	Garden	384
2290	3068.8	291.8	296.8	NA	NA	NA	NA		NA
2291	66.6	52.4	44	51.7	59.5	NA	NA		NA
2292	312	71.1	39.5	69.1	63.5	NA	NA	F2	45.2
2293	365.4	283.4	162.4	174.6	187.9	NA	NA		NA
2294	NA	662	133	NA	NA	NA	295.6		NA
2295	97.9	177.5	119.1	139.5	70	NA	NA		NA
2296	2129.6	111	335	337	473.6	260.8	NA	F1	141
2297	3398.4	707.6	1180	890.4	945.6	NA	NA		NA
2298	1049.6	127.8	243	239.4	281	NA	NA		NA
2299	480.4	131	177	250.4	285.6	NA	NA	F2	191
2300	214.8	143.8	149.5	NA	180.5	NA	NA	B2	220
2301	917.6	393.2	835.2	514.4	567.6	474.8	NA		NA
2302	455.6	129.8	173.7	299	659.2	NA	NA		NA
2303	620.4	284.8	305.6	NA	344.2	NA	NA		NA
2304	426	110.8	NA	290.4	NA	356.8	NA	F1	259
2305	3417.6	253.8	229.6	161.5	367.2	NA	NA		NA
2306	2560	348.6	437.2	558.8	353.8	NA	NA		NA
2307	414.4	331.2	470.8	87.5	236.2	NA	NA		NA
2308	219.6	115.1	37.3	348.2	319.6	NA	NA	B1	380
2309	59.2	47.2	53.2	34.9	38.5	NA	NA	F1	51.8
2312	846.4	208.6	142.7	192.3	287.6	NA	NA		NA
2313	431.6	138.1	219.4	242.8	329.2	NA	NA	B1	675
2316	367.6	151.1	145.2	357	405.4	NA	NA		NA
2319	2148.8	296.2	437.6	278.8	167.2	NA	NA	B2	377
2320	3907.2	164.5	158.5	673.2	446	NA	NA		8760
2321	115	106.6	49.4	NA	NA	NA	NA		NA
2322	3548.8	105.3	699.6	1580	366.8	117.6	NA		NA

Appendix A
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Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
2326	12096	176	172.4	482.4	2868.8	NA	NA	B1	573
2334	694	453.6	228	149.3	123.2	NA	322	F1	319
2337	351.8	275.4	385.2	NA	NA	NA	NA	F2	456
2344	1309.6	253.2	235	248	364.2	NA	NA		NA
2345	2369.6	320.8	147	964	1149.6	NA	NA		NA
2346	654.8	725.6	1271.2	616.8	578.6	NA	NA		NA
2347	1480	341.4	386.6	319.8	286.6	NA	166.2	F2	742
2348	575.2	190.3	109	251.4	420.8	NA	NA		NA
2349	214.8	88.2	141.1	85.7	239	NA	NA		NA
2350	247.9	63.7	85	122.6	126.5	449	66.8	F2	88.4
2359	78.1	69.7	58.8	139.9	122.8	NA	NA	F2	59.4
2360	564	386.2	516.8	193.9	158.7	NA	NA	F1	389
2364	69.8	47.2	52.7	73	86	NA	NA		NA
2365	174.3	78.4	81.9	52	42.7	NA	NA	B2	46.8
2366	354.8	162.7	154	328.6	197	NA	NA		NA
2367	233.8	189.8	244.6	113.1	193.3	NA	NA		NA
2368	948.8	160.5	307.6	232.8	142.8	NA	NA		390
2376	81.5	214.4	190.3	288.4	83.6	NA	127.1		NA
2377	155.5	110	38.6	75.6	68.9	NA	54.2		NA
2378	58	49	145.9	44.9	79	NA	NA		NA
2379	179.9	45.4	151	ND	77.7	NA	NA	F2	145
2382	1489.2	556.4	338.8	204.8	233.5	NA	NA		NA
2383	924	228.8	490.8	553.2	954.4	NA	NA		NA
2384	560.4	74.9	219	218.8	96.2	NA	NA		NA
2386	289.3	44.9	58.4	151.9	75.6	NA	NA		NA
2388	331.7	NA	189.4	NA	114.8	NA	NA		NA
2392	281.2	NA	331.8	464	1659.2	130.9	NA		NA
2393	1522.3	597.6	313.1	305.7	961	NA	NA	F2	800
2403	NA	74.8	107.1	71.4	79.5	NA	NA		NA
2405	333.4	179.8	466.4	198.7	172.5	NA	NA		NA
2406	566	88.7	136.1	42.8	318.1	NA	NA	F1	78.3
2407	940.3	206.2	294.7	127.3	819.7	217.3	NA		NA
2408	142.8	109.7	191.5	400.9	446.1	NA	NA		NA
2416	5305.8	2489	625.4	2502.7	NA	NA	NA		NA
2421	1580	485.4	1541	65.3	85.4	NA	NA		NA
2426	363.7	NA	261.9	146.5	192.1	NA	NA		NA
2429	850.4	162.2	130.2	NA	NA	NA	NA	F2	90.9
2430	686.7	24.3	125	25	214.4	NA	38.2		NA
2432	545.3	416.1	448.4	470.5	935.4	NA	NA		NA
2438	300	209	278	252.6	158.7	NA	164.2	F1	319
2443	2148.8	369.8	417.2	290.6	468.4	NA	NA		NA
2450	1211.6	656.8	544.4	304.9	405.7	NA	NA		NA
2453	149.9	67.6	35.7	NA	NA	NA	NA		NA
2456	2028.8	709.2	1149.6	366	394.6	NA	NA		NA
2459	858.4	617.6	681.6	400.4	1000	NA	NA		NA
2461	1007.9	820.3	631.5	972	807	NA	NA		NA
2466	633.5	319.5	258.6	240.6	NA	NA	NA		NA
2479	1030.1	279.8	NA	245.4	356.7	284.7	NA		NA
2487	438.5	561.8	NA	219.7	417.4	519.8	NA	Garden	618

Appendix A
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Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
2489	59.5	751.3	223.2	135.1	235.4	NA	631		NA
2495	1821.9	382.9	180.8	295.4	249.2	257.8	578.6		NA
2508	2676.4	332.1	462.7	687.5	336.3	775.3	NA		NA
2510	105.2	91.8	NA	262.9	217.8	NA	NA		NA
2512	228.5	264.8	361.9	118.3	261.8	NA	235.5		NA
2514	297.3	203.4	52.9	78.7	177.5	NA	NA		NA
2520	217.1	NA	440.9	71.7	109	907.1	NA		NA
2525	1236.6	486.4	368.9	184.4	116.5	NA	NA		NA
2526	352.5	640	462.9	403.6	557.2	NA	NA		NA
2531	237.7	240.3	295.4	125.8	213.1	NA	NA		NA
2533	4503.7	386.1	392.1	NA	NA	NA	NA		NA
2540	225.6	105.5	113.1	99.2	294.8	NA	NA		NA
2541	1059.3	307.9	167.8	157.4	161.5	NA	NA		NA
2542	584.7	292.3	273.8	376.2	201.2	NA	NA		NA
2545	810.3	86	148.8	96.6	169.3	NA	145.2	F1	114
2546	1077.2	195	224.2	211	356.3	NA	NA		NA
2548	341.8	122.3	242.3	395.4	188.8	NA	NA		NA
2552	1168.9	NA	158.2	636.9	339.3	NA	NA		NA
2556	5943.1	1293.4	511.1	458.9	365.8	NA	NA		NA
2559	1253.6	298.8	147.3	206.8	87.5	NA	NA		NA
2561	770	168.5	779.1	257.9	222.8	NA	NA		NA
2563	2939.7	1195.6	386.5	129.2	545.6	NA	NA		NA
2568	249.6	133.9	131.5	160.1	91.5	NA	NA		NA
2569	2088.9	259	207.9	571.7	239.8	NA	NA		NA
2571	1959.6	90.7	173.5	282	131.1	NA	NA		NA
2574	319.9	204	147.2	143.6	102.4	NA	172.8		NA
2576	2106.8	1115.1	1196.1	310.1	713.5	NA	NA		NA
2577	119.2	30.4	65.7	55.6	45	NA	NA		NA
2579	102.4	175.1	113.8	85.7	92.5	NA	NA	F1	408
2580	1578.8	131.3	370.2	202.7	189.9	NA	NA		NA
2581	2209.6	342.4	426.4	718.4	634.4	NA	NA		NA
2582	936.9	226.2	337.1	470.7	461.1	NA	NA		NA
2583	1868.9	67.1	273.7	332.9	146.1	NA	NA		NA
2584	83.9	ND	47.5	68.1	ND	NA	NA		NA
2585	4908.8	183.7	131.1	388.4	535.6	NA	NA		NA
2590	292.8	218.8	232	753.6	607.6	NA	NA		NA
2591	546.8	261.8	NA	488.8	407.6	NA	NA		NA
2592	634.9	189.3	279	261.5	620.4	NA	NA		NA
2593	1988.1	802	527.6	334.4	273.7	NA	454.9		NA
2594	5081.4	436.5	622.9	158.1	173.3	NA	NA		NA
2595	1756.5	471.8	256.2	NA	NA	NA	NA		NA
2596	7187.2	258.6	115.2	342.4	391	NA	429.6		NA
2597	273.2	221.1	278.3	365.7	878.2	NA	NA		NA
2598	967.2	242.7	225.4	421.6	70.4	NA	NA		NA
2599	1639.4	834.7	1087.2	1221	1262.1	NA	NA		NA
3003	161.5	76.4	94.5	59.9	59.8	NA	ND	B2	58.1
3004	472	60.5	125.9	179.6	211.4	99.2	121.5		NA
3005	543	105.4	88.9	NA	NA	NA	331.9	Play	354
3007	NA	154.4	NA	255.8	NA	NA	182.2		NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
3008	125.1	130.6	189.5	NA	NA	NA	105.5		NA
3010	147.3	58	92.2	64	69.9	NA	NA		121
3013	604	140.9	95.6	260.8	253.4	NA	NA	F2	109
3014	403.8	166.5	188.2	180.3	180.8	NA	NA		NA
3015	134.5	95.2	122.5	190.3	102.3	NA	NA		NA
3016	450	217.6	117.2	141.8	83.6	NA	110.5		NA
3018	618	432.4	208	418	221.8	NA	NA	B1	710
3019	114.4	39.5	72	92.4	77.5	NA	NA		NA
3020	851.2	618	236.8	306.4	247.4	389.2	NA		NA
3021	225.2	297	253.4	189.8	150.1	NA	NA	B2	227
3022	46.5	51.7	33	46.3	54.7	NA	ND	F2	26.6
3024	29	43.5	49.6	46.3	29.1	NA	NA		NA
3026	NA	37.6	NA	279	NA	NA	ND		NA
3027	806.4	156.1	175.8	NA	217.2	NA	196.4		NA
3028	846.4	196.2	93.5	579.6	221.6	NA	NA		NA
3033	1240	300.2	281.4	522.4	286	NA	219		NA
3034	191.9	58.4	NA	87.4	53.6	NA	NA		NA
3042	142	442	641.6	1500	958.4	NA	418		NA
3043	NA	NA	NA	242.6	ND	NA	76.5	B1	381
3046	1620	241.6	363.4	126.3	156	NA	72.3	F1	234
3047	1110.6	199	336.6	471.7	NA	NA	89.3	Play	110
3049	4640	299	580.4	315.4	307.2	NA	NA		NA
3050	713.6	261.8	249	NA	NA	NA	146.6		NA
3051	ND	132.1	37	26.8	91.1	NA	NA	F1	128
3052	6784	2009.6	250.2	310.2	304.2	NA	NA		14800
3053	175.1	106.4	155.6	81.1	173.9	NA	NA		NA
3055	33.9	90.3	97.7	50.9	88.9	NA	NA		NA
3056	268.2	269.4	255.2	46.7	30.1	NA	NA		NA
3058	107.3	109.7	120.6	101.4	93.3	NA	NA	F1	136
3059	8006.4	152.3	716.4	78.7	95.2	NA	NA		25200
3060	3049.6	1000	331.4	457.6	424	NA	166.9	F1	813
3062	NA	93.4	NA	NA	NA	NA	NA		NA
3063	56.9	79.7	62.3	48.5	54.6	NA	NA	B2	57.2
3064	258	164.2	190.5	85.4	56.4	NA	94.8		NA
3067	2009.6	776	1029.6	184.5	148.5	NA	NA	B2	129
3068	2708.8	270	418	1109.6	1720	NA	26.3		NA
3069	240.8	97.6	92.1	86.6	266.2	NA	NA		300
3073	1529.6	466.8	827.2	793.2	215.6	NA	NA		NA
3074	204.1	138.1	129	NA	NA	NA	NA	F2	117
3075	544.4	145.8	197.1	NA	NA	NA	NA		NA
3076	24.8	81.4	60.6	221.2	197.9	NA	NA	F1	71.5
3081	516.4	126.8	166.2	64.9	ND	NA	NA		NA
3083	639.2	125.3	NA	306.2	NA	NA	NA		NA
3084	NA	199.7	NA	114.4	NA	NA	NA		NA
3085	156.6	173.7	691.2	148.5	NA	264.8	NA	B1	165
3086	123.1	256.8	179.6	153.2	96.2	NA	NA	B1	168
3088	171.3	51.2	68.9	107.5	363	NA	386.8		NA
3089	1819.2	206	209	331.2	388.2	NA	NA		NA
3091	193.3	278	NA	75.5	72.9	NA	NA	F1	284

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
3092	1659.2	148.3	715.2	465.6	NA	NA	NA		NA
3093	6409.6	584.8	600.8	507.6	609.2	NA	NA	B2	598
3094	77.7	26.6	31.1	33.1	28.3	NA	NA		NA
3095	231	148	71.1	90.9	112.1	NA	NA		NA
3096	1140	1819.2	306.8	NA	NA	NA	ND		NA
3098	3099.2	102.3	810	178.7	201.5	NA	NA		NA
3099	2040	774.4	711.6	248.8	794	NA	211.4		NA
3103	359.4	56.2	100.9	188.9	321.2	NA	NA		NA
3104	1920	194.8	131.2	NA	502.8	NA	NA		NA
3105	146.1	90.8	90	564.4	83.5	NA	NA		NA
3106	790.4	120.8	99.9	199.1	197.1	NA	NA		NA
3108	240.6	39.1	43.5	105.1	117	NA	NA		NA
3109	645	349	422.1	NA	437.1	NA	NA		NA
3112	1889.6	640.4	675.2	204.1	828.8	NA	NA	F2	1660
3113	611.2	102.7	240.8	274	210.2	NA	NA		NA
3114	68.6	30.5	76.8	45.1	37.8	NA	52.3		NA
3115	50.7	32	50.3	41.1	50.2	NA	NA	F2	44.4
3116	133.7	41.3	33.7	55.5	40	NA	NA		NA
3118	245	45.3	44.6	NA	78.6	NA	NA	F1	58.4
3120	529.6	207.8	264.4	284.8	1029.6	NA	NA		NA
3121	137.1	60.3	76.3	80	114.4	NA	NA	F2	69.2
3123	4249.6	253.4	462.8	252	604.8	NA	NA		NA
3124	195.5	70.8	80.4	75.1	223	NA	NA		NA
3125	50.3	35.9	31	31.1	27.1	38.1	NA		NA
3127	550.5	341.7	299.9	308.7	752.5	NA	725		NA
3133	346.4	155.8	92.1	126.4	102.9	NA	NA	F1	162
3134	154.8	46.4	67.2	72.9	55.8	NA	NA		NA
3136	1899.2	279.8	161.3	163.4	231.4	NA	NA	F1	276
3138	222.6	212.2	129	115.2	65.1	NA	NA		309
3139	1440	108.3	83.5	125.6	88.7	NA	24	F1	164
3141	1520	512	223.6	585.2	592.4	NA	NA		1260
3142	271.2	237.4	145.2	309.4	222.8	NA	NA		NA
3143	128.6	247.2	1109.6	535.6	443.6	NA	177.8		NA
3144	3498.7	179.6	351.8	217.1	229.5	NA	NA		NA
3145	6025.8	244	406.1	536.7	935.3	NA	NA	F2	733
3147	53.5	101.8	85	NA	71.3	NA	102.7		NA
3148	5507.2	375.4	710.4	343.2	475.6	216.6	NA	F2	896
3149	33.2	ND	NA	NA	NA	NA	ND		NA
3150	1260	360.2	1509.6	208	198.8	685.2	NA		NA
3151	810	177.8	NA	281.2	225.8	NA	94	F1	181
3153	1409.6	964.8	560	310.8	200.6	NA	NA	F1	1310
3154	23.8	84.5	130.5	46.1	39.2	NA	NA		30.2
3155	44.5	26.9	182.6	125.9	41.9	NA	NA		NA
3157	211.5	109.2	69.6	157.1	106.8	268.9	151.8		NA
3158	6675.2	564.8	299.6	461.2	NA	330.2	NA	Garden	350
3164	1960	115.5	331.2	265	111.7	NA	NA		NA
3165	146	66.7	93.6	525.6	121	NA	82		235
3166	63	113.1	59.8	57.8	60.9	NA	102.4		NA
3167	942.4	686	180.4	NA	135.1	NA	126.3		NA

Appendix A
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Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
3168	110.6	153.8	244.4	479.6	260.4	NA	NA		NA
3169	227.4	64.1	NA	105.2	NA	NA	NA		NA
3170	85.9	57.2	80.3	92.2	145.9	NA	NA		80.8
3172	140.9	49.2	97.7	NA	NA	NA	37.3	F2	90.4
3174	66.9	77.1	34.9	34.6	41.8	NA	20.3		NA
3176	64.8	96.8	66.8	74.7	68.3	NA	130.2	F2	65.9
3177	65.5	113.2	179.9	113.8	120.3	NA	NA		NA
3178	1988.8	491.6	356.4	310.8	328.8	NA	NA		NA
3180	167	74.3	104.7	100.5	61.9	NA	NA		NA
3181	1120	324.8	303.6	211.8	1828.8	NA	NA	B1	263
3182	5107.2	427.2	234.2	636	716.8	NA	315.2	B2	2000
3186	979.9	202.4	369.6	364.1	322.7	NA	317.8		NA
3188	44	NA	80.3	131	NA	NA	93		NA
3190	207	114.3	310.9	85.7	57.6	NA	112.6		NA
3192	499.5	676.2	452.3	274.8	591	NA	NA	B1	340
3193	2717.9	686.5	623.8	475.7	405	NA	NA		NA
3196	3107.1	309.3	219.8	312.5	327.6	NA	NA		NA
3199	1318.4	320.8	517.3	165.3	211.9	NA	135.1		NA
3200	1996.7	339.5	799	652	852.4	NA	NA		NA
3203	1137.9	178.8	197.4	156.5	286.9	NA	140.9	Play	160
3204	2408	110	145.4	189.3	471.9	NA	NA		NA
3205	400.8	370.8	447.6	192	196.3	NA	200.6		NA
3208	NA	104.3	111.6	NA	NA	NA	NA		NA
3209	674.9	179.6	216	114.2	199.7	NA	NA		NA
3210	867.6	138.1	468.4	290.8	343.4	NA	NA		NA
3212	786.8	127.6	97.7	136.3	111.3	NA	ND	Play	88.3
3213	128	130.7	268.4	58.7	106	NA	209.1		NA
3214	33.2	92.6	46.9	98.4	66.1	NA	NA		NA
3215	158.8	91.4	80.9	186.7	111.1	NA	NA		NA
3216	122.6	157.7	78.1	125.7	143.3	NA	NA		NA
3217	233	228.5	229.9	NA	127.1	NA	128.4		NA
3218	NA	74.6	125.9	60.6	154.3	NA	NA		NA
3219	NA	63	438.7	135.6	408.8	NA	NA	B2	390
3220	201.1	87.2	134.4	ND	80.1	NA	NA		143
3221	889.4	323.1	380.5	164.8	360.9	NA	42.6		NA
3223	126.1	241.6	188.8	187.8	137.1	NA	228.8	Play	729
3226	1182.8	454.9	461.5	744.1	1520	NA	NA		NA
5000	1089.6	226	605.6	187.4	248.2	NA	NA	F2	980
5001	452	312.8	288.6	277.8	2099.2	NA	NA		NA
5002	584.8	202.7	236.8	203.3	282	NA	NA		NA
5003	44.7	64.1	115	74.3	42.4	NA	NA		75.9
5004	3089.6	202.1	356	376.2	NA	NA	3200		NA
5005	1469.6	85.4	122.5	93.3	114.7	NA	NA		NA
5006	225.8	126	131.8	161.3	201.1	NA	87.8		NA
5007	258	315	374.8	152	247.4	NA	NA		NA
5008	442.8	286	322.8	464	243.4	NA	NA		NA
5009	1809.6	762	3108.8	520	194.5	NA	NA		NA
5010	815.6	100.6	70	126.1	255.2	NA	NA		NA
5011	269.8	116.9	121.8	80.3	110.6	NA	NA		NA

Appendix A
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Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
5012	61.1	39.6	76	NA	47.4	NA	ND		NA
5013	96.3	54.3	62.1	57	79.9	NA	82.2	B2	73.6
5014	350.2	97.4	197.3	242.4	107.6	115.5	NA		NA
5015	ND	35.7	NA	76.6	NA	NA	NA		NA
5016	97.3	161.3	125.7	123.6	146.7	NA	NA		NA
5017	241.8	659.6	165	131.7	322.8	NA	NA		NA
5018	516	57.3	62.7	29.9	74.1	NA	50.6		NA
5019	361.2	67.3	82.8	108.4	NA	NA	NA		NA
5020	920.8	255	105.8	136.8	485.6	NA	NA		NA
5021	898.4	111.4	144.7	157.7	NA	NA	NA		NA
5022	468.4	184.5	135.2	196.1	242.6	NA	245.8		NA
5023	1320	121.2	451.6	160.5	374	NA	NA		NA
5024	586	108.6	153.3	131.5	100.5	189.3	NA		NA
5025	59.8	61.8	49.2	ND	92.7	NA	54.9		NA
5026	203.1	90.5	53.4	122.4	111.6	NA	NA	B1	160
5027	142.3	95.4	127.5	60.1	110.9	NA	NA		NA
5028	2588.8	192.9	NA	135.2	112.3	NA	55.6		NA
5029	171.6	128.9	NA	60.6	59.7	NA	62.5		NA
5031	324.6	103.4	97.7	148.2	71.7	NA	NA		NA
5032	126.9	43.4	33.9	76.1	84.7	NA	NA		NA
5033	88.7	252.4	134.3	85.5	63.9	NA	NA		NA
5034	861.6	157.1	NA	355.4	NA	NA	29		NA
5035	616	130.6	103.2	210	143.3	NA	NA		NA
5036	580.8	147.8	180.3	72.1	116.7	111.7	56.2		NA
5037	555.2	212.2	195.4	317	86.3	NA	NA	B2	96.6
5038	69.1	205.2	93.4	110.9	75.8	NA	NA		NA
5039	157.9	74.4	88.4	130.6	113.2	NA	NA	B1	133
5040	240.6	154.6	116.2	169.4	266	NA	NA		NA
5041	123.1	47.2	NA	142	35.8	NA	NA		NA
5042	720.4	61.6	NA	66.4	NA	32.7	NA		NA
5043	255.4	83.6	134.2	68.9	54.4	NA	NA		NA
5044	191.1	205.4	40.6	304.4	33.1	88.9	NA		NA
5045	853.6	223.2	428.4	284	62	NA	NA		NA
5046	2080	163.8	202.5	250	108.5	NA	NA		NA
5047	1129.6	206.6	244.6	165.5	291	NA	NA		1490
5048	649.2	230.6	222	163.3	332	199.1	233.4		NA
5049	92.5	80.2	106.5	42.3	81	NA	NA		NA
5050	166.9	296.6	80.8	167	128.9	NA	NA		312
5051	272.8	145.4	259.8	122.8	399.6	NA	274.8		NA
5052	312.4	139	179.5	99.7	NA	NA	NA		NA
5053	102.4	153.6	102.1	137.6	133.5	NA	NA		NA
5054	294.4	183.4	104	160.6	40.6	116.2	NA	F1	214
5055	480	334.4	96.3	245.8	216.4	NA	NA		NA
5056	1549.6	331.6	415.6	240.8	340	NA	NA		NA
5057	2259.2	180.7	239.4	146.9	136.1	NA	NA	B2	154
5058	1920	90.2	321.2	313.2	NA	168.1	71.3		NA
5059	529.6	421.2	413.6	785.6	305.6	NA	NA		NA
5060	2588.8	249.2	182.4	145.5	1649.6	NA	NA	B1	427
5061	316.8	252.8	261.4	120.4	230	NA	NA		NA

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Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
5062	360	389.6	354.8	182.9	178.8	122	NA		NA
5063	918.4	398.4	534.4	164.1	225.8	NA	NA		NA
5064	207.6	130.1	181.5	138	232.6	NA	NA		NA
5065	156.9	130.9	438	98.4	130.9	NA	NA		NA
5066	1129.6	81.4	509.2	54.8	NA	NA	NA	B1	49
5067	495.2	166.3	264.2	123.9	249.8	NA	NA		NA
5068	637.6	282.2	247.2	238.6	NA	NA	NA		1980
5069	41.5	35.8	31.9	ND	27.9	NA	NA		109
5070	59.8	93.4	51.6	78.7	114.8	NA	NA		NA
5071	85.2	150.1	85	74.7	71.6	NA	NA		NA
5072	211.6	135.4	89.8	131.1	150.6	NA	NA		NA
5073	1060	459.2	174.8	176.5	116.2	NA	NA		NA
5075	283.2	92.3	116.3	569.6	146.5	NA	NA		NA
5076	1979.2	177.4	283.4	559.6	185.7	NA	NA	B2	186
5077	164.1	252.4	156.5	310.4	198.8	NA	NA		NA
5078	NA	50.7	219.6	172.2	238	NA	NA		NA
5079	29	NA	NA	531.6	840.8	NA	NA		NA
5080	1169.6	176.4	142.6	322.4	328.8	NA	NA		NA
5081	194.4	110.9	436.4	318.6	NA	176.5	NA		NA
5082	277.8	231.8	65.2	365.6	NA	NA	NA		NA
5083	1240	157.1	118.2	1269.6	NA	NA	NA		NA
5084	263.8	193.5	105.7	121.6	102.7	NA	NA		NA
5085	226	137.8	90.9	99.4	192.7	163.9	NA	Garden	232
5087	515.6	NA	166.6	NA	NA	572.4	NA		NA
5088	2699.2	321.2	419.6	340.6	58.7	NA	NA		NA
5089	586.8	73.7	175.9	226	135.4	NA	NA		NA
5090	1960	167.3	182.1	114.4	122.3	NA	85.3		NA
5091	5968	199.7	178.7	189.8	85	131.5	NA		NA
5092	236.8	137.5	77.5	173.1	135.1	103.2	NA		NA
5093	178.2	185.3	NA	247.4	NA	NA	NA		NA
5094	190.6	60.5	43.8	61	54.8	NA	NA		NA
5095	75.9	46.6	85.9	48.4	64.5	69.8	NA		NA
5096	417.6	183.3	153.9	114.6	108.6	78.8	NA		NA
5097	89.3	90.9	215.8	90.6	NA	NA	NA		NA
5098	744.4	32.3	NA	65.4	65.7	NA	NA		NA
5099	186.5	50	70.8	60.7	67.5	NA	24.8		NA
5100	2969.6	657.2	1040	219.6	391.6	NA	NA		3590
5102	902.4	367.6	329.2	394.6	319.4	NA	NA		2410
5103	740.4	273.2	331.4	316	53.6	NA	NA		NA
5104	608.8	147.4	176.3	185.3	820.8	NA	NA		NA
5105	434	426.4	589.6	210.6	141.3	NA	NA	B1	241
5106	1708.8	97.7	486	287.8	463.6	NA	NA		NA
5107	859.2	272.4	162.4	169.5	628	NA	NA	B2	1010
5108	254.8	321.8	194	151.6	175.9	NA	NA		NA
5109	214	362.2	192.1	273	582.8	NA	NA	F2	240
5110	222.2	103.4	188.5	121	109.8	NA	NA	B1	132
5111	109.9	121.6	155.5	81.5	189.9	NA	NA		NA
5112	220.6	146.7	113.1	140.4	194.8	NA	NA	B1	254
5113	71.3	39.3	44.6	27.2	NA	NA	NA		NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
5114	306.4	123.9	92.6	110	265.2	NA	NA		530
5115	459.2	1369.6	1200	499.2	1809.6	NA	243.4	B1	675
5116	481.2	225.8	248.8	366.4	211.8	NA	NA		NA
5117	337	149.4	167.3	197.5	339	NA	NA	F2	224
5118	60.1	76.1	41.1	100.1	68.5	NA	NA	B2	67.6
5119	711.6	166	228.6	61.6	84.5	NA	NA		NA
5120	113.4	81.7	90.6	90.7	71	NA	NA		NA
5121	152.7	109	97.8	82.4	135.3	NA	NA	B2	119
5122	1349.6	105.5	198.5	114	77	NA	NA	F2	128
5123	751.6	425.6	120.6	340.6	306.4	NA	NA	B2	385
5124	283.2	161.8	212.6	3179.2	988.8	160.7	NA		NA
5125	992	149.6	164.8	1729.6	133.4	NA	NA	B1	3150
5126	269.8	69.6	172.9	274	188.1	NA	NA		NA
5127	227.6	129.3	156	117.1	53.1	NA	NA		NA
5128	37	77	106.9	162.6	93.3	NA	104.5	Play	99.9
5129	1969.6	410.4	276.4	460	1549.6	NA	NA	B2	1710
5130	49.1	35.2	75.6	77.5	43.6	NA	NA	B1	48
5131	68.1	52.3	36.1	41	45.1	NA	NA		NA
5132	70.7	144.8	34.9	62.3	147.4	32.3	NA	B1	58.2
5133	88.6	166.9	272.4	63	52.4	NA	NA		NA
5134	76	87.5	29	54	50.7	NA	NA	B2	42.7
5135	41.4	75.8	57.7	93.2	82.7	NA	NA		NA
5136	87.5	96.3	58.8	48	68.6	NA	NA		NA
5137	1120	227.2	103.2	242.8	139	NA	NA		NA
5138	300.6	815.2	386.4	305.2	267.2	NA	NA		308
5139	295.6	235.6	298.2	88.5	101.6	NA	NA	B1	83.6
5140	536.8	261.8	299.8	387.6	NA	NA	NA	B1	390
5141	489.6	82.2	71.2	530	65.8	NA	NA		NA
5142	257	340.8	67.5	88.3	153.3	NA	NA		NA
5143	350	299.4	407.2	303.6	161	NA	NA	B1	296
5144	122.2	104.2	51.1	84.8	65.7	NA	45.3	B1	93.8
5145	127.1	177.2	97.4	50.4	80.6	NA	NA	B1	41.3
5146	508.8	107.8	175.2	59.3	123.7	NA	NA		NA
5147	326.2	251.6	186.3	70.2	76.6	NA	NA	B1	74.8
5148	1120	751.6	114.9	218.8	155.5	NA	NA	B2	205
5149	470.8	112.4	252	268.2	451.6	NA	NA		830
5150	726	355.4	253.4	341.8	269.2	NA	NA	B1	528
5151	586	85.7	297.4	72.1	164.2	NA	NA		NA
5152	597.6	59.7	60.1	317.2	118.9	NA	NA	B1	243
5153	312.6	119.3	174.6	177.6	105.7	NA	NA	B1	199
5154	673.6	204.4	124.6	263.8	176.3	NA	NA		NA
5155	891.2	186.1	206.8	103.2	66.8	NA	NA	B1	128
5156	643.6	314	142.5	99.1	170.9	NA	NA		NA
5157	356	207.4	144.8	762.4	221.8	NA	NA	F2	157
5158	58	184.3	183.7	117.6	261.4	NA	NA		NA
5159	308	126	152.6	306.8	215.4	NA	NA	F2	133
5160	366.2	190.7	311.2	500	238.2	NA	NA		NA
5161	32.5	57.3	48.7	90.6	43.3	NA	NA	B1	84.6
5162	2099.2	62.8	266	251.6	96.9	NA	NA		NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
5163	61.1	61.3	63.2	66.4	ND	NA	NA	B1	58.3
5164	51.2	155.4	ND	130.5	602	NA	NA		NA
5165	138.1	284.2	322.8	122.8	146.3	NA	NA	B1	106
5166	733.6	247.6	88.9	64	74	NA	NA	B2	100
5167	1289.6	1209.6	240.6	1779.2	683.6	NA	NA		3970
5168	3000	2819.2	2120	713.6	524.8	NA	NA		NA
5169	1300	74.5	90.5	74.1	112.4	NA	NA		NA
5170	37.4	54.3	100.5	48.9	52.8	NA	NA	B1	40.3
5171	742.8	213.8	63.4	194	94.3	155.8	NA	Garden	140
5172	418.4	329.6	203.2	399	409.6	NA	NA	B2	437
5173	115.9	163.5	164.4	159.4	291.2	NA	NA		NA
5174	991.2	221.4	135.1	83.8	197.5	NA	NA		858
5175	713.2	458.4	437.6	365.8	327.4	NA	NA		NA
5176	138.8	96.3	73.7	334.4	132.7	NA	NA	F1	78
5177	114.6	58.2	77	139.8	125.2	NA	NA		NA
5178	1260	141.6	116.3	125.8	93.7	NA	NA	B1	184
5179	197.6	782	341.2	327.8	130.3	NA	NA		NA
5180	1220	153.2	405.2	119	194	NA	NA	B2	248
5181	634.4	185.9	431.2	204.4	200.5	NA	NA		NA
5182	254.2	158.2	211.8	208	274.4	NA	NA	B2	226
5183	156.7	180.2	108.4	117.4	65.5	NA	NA	B1	134
5184	182.1	98.4	118.4	80.7	159.4	NA	NA		NA
5185	259.4	124	88.2	165.2	171.3	NA	NA	F2	94.7
5186	1748.8	430.8	328	170	430.4	NA	NA	B1	335
5187	2929.6	538.4	651.2	278.8	278.2	NA	NA		NA
5188	1169.6	164.6	648.4	1049.6	151.5	NA	NA	F2	424
5189	658.8	820.8	1020	197	227.2	NA	NA	F2	6320
5190	769.6	314.4	275.2	134	336.8	NA	NA		NA
5191	2308.8	775.2	312	1209.6	1680	NA	NA	B1	2570
5192	220.4	676.8	121.6	1939.2	331.8	NA	NA		NA
5193	847.2	607.2	309.8	630.4	141.7	NA	NA	B1	1260
5194	193.1	230.2	1120	111.7	175.8	NA	NA		NA
5195	261.2	139	126.9	192.4	275.4	NA	NA	B1	203
5196	3488	179.8	496.4	492.4	416.8	NA	NA		NA
5197	1209.6	237	162	114.5	138.2	NA	NA	B2	151
5198	1329.6	1069.6	1149.6	893.6	1320	NA	NA	B1	1420
5199	3859.2	1240	1089.6	944.8	1859.2	NA	NA		NA
5200	1580	532.4	836.8	418.8	466.8	NA	NA	B1	425
5201	2108.8	333	318.8	918.4	752.4	NA	NA		NA
5202	37.8	50.7	90.5	52.7	88.8	NA	NA		33.8
5203	238.6	90.6	119.1	285.8	190.3	NA	NA		NA
5204	125.7	76.3	76.4	131.4	56	NA	NA	B1	110
5205	99.3	81.9	50.8	90.3	110.1	NA	NA		NA
5206	93.6	34.9	82.1	77.7	62.1	NA	NA	B1	74
5207	1200	114	180	311.2	460.4	NA	NA		NA
5208	245.8	244.4	231.6	330.2	218	NA	NA	B1	284
5209	93.6	73.4	122.3	53.9	113.8	NA	NA		NA
5210	1020	63.9	161.3	405.2	532.8	NA	NA		NA
5211	590	44.9	93.9	36.5	98.9	NA	NA	B1	26.4

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
5212	471.6	80.8	39	65.5	67.7	NA	NA	B1	51.1
5213	165.6	ND	47.1	71.3	48.3	NA	NA		184
5214	58.5	48.5	60.9	38	74.8	NA	NA		NA
5215	532.4	92.2	119.6	293.8	85	NA	NA	B2	523
5216	492.8	97.6	353.6	406	223.2	NA	NA		NA
5217	1449.6	676.8	466.8	243.8	746.4	NA	NA		2280
5218	438.4	295	117.5	185.4	280.4	NA	NA		NA
5219	28.4	106.5	154.9	323.8	96.5	NA	NA		25
5220	624	97.1	65.9	128.3	96.7	NA	NA		NA
5221	250.2	205.2	153.8	117.4	176.3	293.4	NA	Garden	341
5222	1049.6	97.7	74.7	119	150	NA	NA		NA
5224	307.8	693.6	531.2	352.6	241.8	NA	207.2		NA
5225	321.6	861.6	1049.6	172.2	159.8	NA	NA	B2	216
5226	876.8	287	190.5	299.4	130.3	NA	NA		NA
5227	101.5	200.8	90.5	168.6	181.7	NA	NA	B1	200
5228	194.1	33.3	29	380.2	83.7	NA	NA	F1	31.5
5229	82.1	40.9	ND	189.3	101.5	NA	NA		NA
5230	375.6	148.1	77.1	109.2	123.5	NA	NA	B1	162
5231	403.8	90	182	71.5	92.3	NA	NA		NA
5232	147.2	203	161.8	1080	622.8	NA	NA	F1	144
5233	499.2	219.8	180.5	706	320.8	NA	NA		NA
5234	615.6	531.2	284.8	209.8	224.8	NA	NA	B1	271
5235	900	170.3	271	149.3	186.4	NA	NA		NA
5236	716.8	188.5	99.9	155.7	241	NA	NA	B1	336
5237	5107.2	527.6	123.2	346	510.4	NA	NA		NA
5238	164.9	97.3	102.8	392.4	163.7	NA	NA	B2	166
5239	428	88.6	103.3	142.3	196.8	NA	NA		NA
5240	57.9	87.5	43.7	49.9	58.5	NA	NA	B2	46
5241	349.6	108.2	75.1	163.9	118.2	NA	NA		NA
5242	216.4	45	82	137.9	38.5	NA	NA	B1	98.1
5243	NA	357.4	178.3	259.4	230.2	NA	NA		NA
5244	1120	319.4	1649.6	3459.2	250	NA	NA	B2	313
5245	188.8	104	181	152.5	132.3	NA	NA		NA
5246	325.2	104	196.1	130.3	219.4	NA	NA	B2	319
5247	68.1	164.4	295.8	146.3	231.6	NA	NA		NA
5248	108.2	110.8	96.9	142.9	164.7	NA	NA		NA
5249	366.4	111.2	78.5	173.9	196.4	NA	NA		NA
5250	2569.6	246.8	133.1	484	296.2	NA	NA		5970
5251	576.4	170.4	70.5	586.4	2049.6	NA	NA		NA
5252	807.2	376.2	220	333	386.4	NA	NA		1680
5253	245	93.9	201	1000	107.2	NA	NA		NA
5255	1369.6	117.3	600	203.9	1868.8	NA	NA		NA
5256	368.8	607.6	244.4	901.6	1269.6	NA	NA	F1	785
5257	184.4	183.1	153.4	153.7	251.8	NA	NA		NA
5258	85.6	488.8	132.7	122.7	118.2	NA	NA	B1	136
5259	1609.6	160.6	301.4	486.4	641.2	NA	NA		NA
5260	406	323.4	230.6	339.8	156.2	NA	NA	B2	209
5261	496.8	332.4	265.4	284.6	308	NA	NA		NA
5262	427.6	191	225.6	244	191.1	NA	NA	B2	258

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
5263	784.8	200.3	241.6	759.6	144.7	NA	NA		NA
5264	821.6	266.6	176	252.6	245.2	NA	NA	B1	307
5265	378.4	338.8	224.4	210.4	394	NA	NA		NA
5266	351.8	273.4	250.4	450.4	140.5	NA	NA		1080
5267	1349.6	482.4	350	165.9	274.4	NA	NA		NA
5268	1009.6	627.6	610.8	340.6	330	NA	NA	B1	533
5269	899.2	451.6	243	277.2	508	NA	NA		NA
5270	263.2	152.4	170.5	313.6	687.2	NA	NA		286
5271	1569.6	123.8	284.8	78.9	345.4	NA	NA		NA
5272	3308.8	940	372.4	391.2	387.2	371	NA	Garden	449
5273	191.7	75.7	95.7	195.2	299.8	NA	NA		NA
5274	800.4	698.4	470	343.8	674.4	NA	NA	B2	975
5275	1100	534.4	267.4	788.4	320.8	NA	NA		NA
5276	1120	101.1	188.5	408	296.6	NA	NA		2100
5277	400	130.1	141.5	354.4	136.9	NA	NA		NA
5278	783.2	475.6	215	315.8	223.4	NA	NA	B2	322
5279	372.2	662.8	379.8	560	890.4	NA	NA		NA
5280	1549.6	409.6	476	763.2	700.4	NA	NA	B2	998
5281	376.2	304.2	207.4	545.6	246.4	NA	NA		NA
5282	1668.8	771.2	416	2249.6	259.6	NA	NA	B2	414
5283	2049.6	566	1120	416.4	618	NA	NA		NA
5284	348.4	645.2	522.8	388.2	611.6	NA	NA	B1	390
5285	529.2	319	1420	NA	376.6	NA	NA		NA
5286	180.8	97	69.3	127	97.7	NA	NA		NA
5287	108	74.1	52.3	53.7	71.2	NA	NA		NA
5288	75.5	69.1	51.9	233.8	55.7	NA	NA	B1	246
5289	43.2	56	44.7	82.6	78.4	NA	NA		NA
5290	44.1	57.9	90	71.8	131	NA	NA		26.2
5291	39.5	51.9	54.2	125.1	69.8	NA	NA		NA
5292	113.8	56.6	43	70.5	50.7	NA	NA		39.6
5293	ND	60.8	65.5	70.3	88.7	NA	NA		NA
5294	602	432.4	103.6	465.2	234	NA	NA		883
5295	123	148.7	139.6	151.5	355.8	NA	NA		NA
5296	542	435.2	518.8	140.8	399	NA	NA	B1	135
5298	556.8	104.3	285	187	87.4	NA	NA	B1	154
5299	489.6	125.9	223.4	174.3	179.2	NA	NA		NA
5300	736	155.8	ND	99.2	70.5	NA	NA	B1	108
5301	207.2	70.7	69.8	57.6	137	NA	NA		NA
5302	194.3	116.5	344.8	NA	NA	NA	NA		409
5303	6854.4	577.6	789.2	137.9	224.4	NA	NA		NA
5304	73.8	53.5	160.9	125.5	372	NA	NA	F2	143
5305	791.2	410.8	328.2	52.6	45.4	NA	NA		NA
5306	405.4	393.8	269.6	337.8	363.2	NA	NA	B1	705
5307	568.8	218.4	219.4	385	182.9	NA	NA		NA
5308	25.3	43.5	NA	110.6	85.3	NA	NA		NA
5309	147.4	112.1	93.7	33.5	74.7	51	NA	F1	139
5310	129.9	46.5	44.1	41.8	61.3	NA	NA		NA
5311	43	44.7	31.7	63.8	43.4	NA	NA	B2	38.3
5312	404.8	616.4	231	480.8	NA	NA	NA		NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
5313	859.2	190.8	397	183	NA	NA	NA	F1	279
5314	818.8	89.5	231.2	443.6	NA	NA	402.8		NA
5315	852	234	140.7	122.1	NA	NA	NA		NA
5316	62.7	55.1	115.6	19.7	56.5	NA	NA		NA
5317	146.6	61.7	182.8	69.2	34.6	248	NA	B2	30.3
5318	91.6	29.8	34.8	41.5	47	NA	NA	F1	37.8
5324	533.5	307.5	388.1	363	392.8	277.6	NA		NA
5328	303	223.2	278.2	57.2	500.4	NA	NA		NA
5329	360.8	108.5	162.3	592.4	550.8	NA	NA		NA
5330	1309.6	238.4	240	270.8	288	464	NA	B2	319
5331	576	253.4	321.4	608.4	125.3	71.3	NA		NA
5332	2529.6	630.4	616.8	638.4	590.4	NA	NA	B1	617
5333	1289.6	142.9	113.2	238.8	193.7	NA	NA	B2	169
5334	2548.8	906.4	1249.6	301.2	366.8	NA	NA		NA
5335	6528	484.8	953.6	214	324.6	NA	NA		11800
5336	482	150.2	93.8	NA	229.2	148.3	NA		NA
5337	373.8	98.2	132.1	NA	189.4	77.8	72.1		NA
5338	669.6	270	428	199.5	190.4	NA	NA	B2	240
5339	769.6	376.2	302.6	286.2	145.3	NA	NA		NA
5340	450.8	342	326	213.6	120.4	NA	NA		1610
5341	462.8	423.2	516	403.8	553.6	NA	644.8		NA
5342	740.4	221.4	139.2	255.6	403.8	NA	NA		NA
5343	3009.6	303.2	NA	245.4	NA	NA	NA		NA
5344	7564.8	464.4	674.4	NA	NA	NA	140.3		NA
5345	1269.6	374	242.8	396.6	301.6	NA	NA		NA
5346	1680	424	431.6	513.2	683.6	NA	NA		NA
5347	335	142.4	85.1	234.4	176.2	70.7	NA	B1	339
5348	1000	925.6	436.4	187.8	263.2	NA	NA		NA
5349	952	697.6	222.2	392.6	248.8	NA	NA		NA
5350	527.6	127.4	241.6	243.6	164.6	NA	NA		NA
5351	269.2	298.6	232.2	150.8	146.1	NA	NA	B2	0.519
5352	804.8	245.8	361.2	249.4	213.4	NA	NA	B1	433
5353	3939.2	966.4	367.8	NA	740.8	NA	NA		NA
5354	1040	156.8	171.1	305	472.8	NA	NA		NA
5355	825.6	708	570.8	472.8	279	NA	NA	B1	644
5356	NA	250.8	308.8	276.2	NA	NA	NA	B1	566
5357	547.2	105.6	189.2	131.1	178.1	NA	NA	F2	302
5358	775.6	327.4	233.8	301.6	276.8	NA	NA		NA
5359	2369.6	187.8	635.6	117.9	307.6	NA	174.5	B1	300
5360	843.2	121.6	150	190.3	112.8	NA	NA		NA
5361	557.2	450.8	380.8	296.2	148.4	NA	149	Play	213
5362	NA	117.8	121.6	NA	NA	NA	NA		NA
5363	115.3	74.8	77.6	63.4	130.3	63.8	NA	Garden	78.2
5364	2068.8	333	274.4	148.5	376.6	NA	NA	F2	387
5365	542	78.5	152.3	161.9	150.2	NA	NA	B1	142
5366	12499.2	123.8	162.8	658.4	173.8	174.8	88.3		NA
5367	570	64.8	63	118.9	157.6	NA	NA	B1	205
5368	109.2	78.7	131.9	68.3	103.4	NA	NA		NA
5369	1029.6	106.3	152.9	86.8	140.9	NA	NA		NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
5370	251	77.2	171.1	142	194.5	279.2	NA		NA
5371	132.1	44.6	89.1	97.8	110	NA	NA		127
5372	3249.6	240	110.4	227	164.5	NA	230.4		NA
5373	1429.1	584.7	415.4	212.5	116.5	NA	NA		NA
5374	2800	186.3	262.4	NA	NA	NA	NA		NA
5375	2059.2	283.4	354	574	236.2	NA	NA		NA
5376	1779.2	191.5	254	NA	NA	NA	NA		NA
5377	863.2	179.7	159.6	NA	NA	NA	NA	F1	191
5378	2179.2	NA	NA	162.3	243.8	NA	NA		NA
5379	6409.6	NA	NA	354.2	208.8	NA	NA	B2	350
5380	2449.6	536.4	747.2	344	NA	NA	NA	B1	474
5382	225.8	72.8	80.3	NA	NA	NA	NA		NA
5383	116.5	162.3	120.7	NA	NA	NA	NA		NA
5384	1269.6	444.4	432.8	NA	NA	319.2	NA		NA
5385	NA	402.8	NA	427.6	195.2	NA	NA		NA
5386	1460	355.6	308.4	316	364.4	NA	NA		3770
5387	280.4	238.4	221.8	NA	211.8	NA	209.2	B2	306
5388	100.9	109.4	82.4	103.4	100.3	NA	NA	B1	98.5
5390	340.8	252.4	295.8	254.8	219.4	229	NA	B1	274
5391	274.2	352.6	154.1	117.3	212.4	NA	NA		NA
5392	444.4	159.4	165.7	403.8	301.8	NA	NA		NA
5393	287.5	202.9	178.3	182.1	302.4	NA	368		NA
5394	1200	343	655.6	530.4	341.4	NA	NA	F1	686
5395	1220	177.2	546.8	452.8	NA	NA	NA	F2	673
5396	NA	140.4	NA	203.6	351.2	NA	NA		NA
5397	158.7	182.9	NA	167.1	157.4	NA	NA		NA
5398	582	146.2	154.1	436.8	203.3	NA	NA	B1	462
5399	NA	154.9	222	252.4	165	350.6	NA		NA
5400	2468.8	168.5	520	221	605.2	NA	NA		NA
5401	2120	374.8	712	609.2	337.8	NA	NA		NA
5402	367.8	179.7	205	208.4	NA	NA	NA		NA
5403	437.2	230.6	248	175.7	177.5	NA	NA	F1	333
5404	387.8	422.4	493.2	245	360.6	NA	NA		NA
5405	263.2	134.4	222	313.4	181.7	NA	NA		340
5407	741.2	316.2	303	NA	243.4	NA	NA	B2	1120
5408	2028.8	476.8	329.4	NA	NA	NA	NA	F1	749
5409	1100	247.6	114.6	266.4	347.2	NA	31.6	Play	17
5410	767.2	405.4	635.2	NA	434	NA	NA		NA
5411	181.3	297.4	306.4	125	210.4	NA	NA		253
5412	726.4	279.4	319.2	381.8	345.2	NA	NA		NA
5413	968	648.8	225.6	190.9	639.6	NA	NA		NA
5414	639.6	382.6	886.4	421.2	596.4	NA	NA		2410
5415	NA	222	244	216	266.6	NA	NA		NA
5416	88.5	200.2	267.6	275.2	247.6	NA	NA	B1	372
5417	142.5	279.4	233.4	91.4	206.8	NA	NA		NA
5418	218.4	51.1	147.4	343.2	62.1	NA	170	Play	182
5419	1040	668.4	206.2	594	654.4	NA	NA	F1	886
5420	NA	283.4	956.8	359.8	252.4	NA	NA	B1	491
5421	598.8	574.4	975.2	250	223.2	NA	NA	F2	1490

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
5422	515.2	431.6	580.4	352.8	363	NA	NA	F1	535
5423	NA	126.3	189.3	582.8	365.2	NA	NA		NA
5424	NA	816.8	615.6	1589.6	NA	NA	NA		NA
5425	1929.6	459.6	447.6	476.4	NA	NA	NA	F2	673
5426	72.3	54.7	52.8	56.9	51.4	NA	NA	B1	64.1
5427	453.6	492.8	367	351.4	279.2	353.2	NA	F1	523
5428	111.2	205.8	207.8	152	284	55.6	NA		NA
5429	78.3	88.8	86.1	80	101.8	NA	NA	F1	129
5430	NA	308.8	266.4	251.8	NA	NA	239.4		NA
5431	276.4	273.8	349.2	235	233.4	NA	NA	B1	382
5432	311.6	496.8	276.4	NA	606.4	529.2	NA	F2	452
5433	NA	484.4	NA	NA	NA	497.6	NA		NA
5434	490.4	350.4	428	325.6	274.2	NA	NA		NA
5435	ND	195.7	115.8	131.9	182.4	131.3	NA		NA
5436	652.8	310.2	492.8	416.8	264.2	323.4	NA		NA
5437	676	373.4	NA	316.8	NA	NA	NA		NA
5438	744.4	234.4	338.8	393	333.6	474.4	NA		NA
5439	633.2	287.6	201.1	252.6	338.6	NA	200.1		NA
5440	1209.6	556	NA	NA	NA	NA	359.4		NA
5441	1859.2	550.8	620	528.8	906.4	NA	NA		NA
5442	700.8	517.2	465.2	470.8	630.4	NA	NA	F2	541
5443	669.2	251	NA	169.3	NA	223.6	146.5		NA
5444	NA	402.6	NA	314.2	NA	NA	NA		NA
5445	382.8	231.4	464.4	283.4	264	NA	NA		NA
5446	356.6	192.1	149.4	390.2	NA	NA	NA		NA
5447	846.4	394.8	754.4	261.2	NA	NA	NA		1340
5448	3459.2	446.8	478.8	430.8	504.8	NA	NA	F1	699
5449	903.2	524.8	252	191.2	403.8	NA	NA	F2	405
5450	790	367.8	464.8	NA	252	NA	NA	F1	507
5451	558	323.4	244.4	314.2	193.2	NA	NA		NA
5452	630.8	380.2	374.4	634.8	355.6	225.6	NA		NA
5453	NA	499.2	NA	NA	NA	334	701.6	Play	1140
5454	999.2	229.6	NA	198.1	NA	NA	NA	B1	923
5455	620	307.6	143.9	297	387.4	NA	372		NA
5456	1040	606.4	444.8	749.6	632.4	864	NA	Garden	1200
5457	120.4	98.9	81.6	123.6	122.2	NA	NA		NA
5458	340	134.8	200.8	308	NA	NA	NA		NA
5459	123	69.7	239	112.8	358.2	NA	NA		142
5460	304.6	115.8	97.4	139.4	36.5	71.7	NA	B1	124
5461	772.4	257	167.4	236	225.8	383.6	NA		NA
5462	99.7	575.6	94.5	56.4	51.6	NA	NA		NA
5463	414.8	62.2	NA	241.2	NA	181.5	NA	B1	124
5465	1040	291.6	245.8	1249.6	157.1	145.6	NA	F1	471
5466	355.8	277.7	451.5	271.3	176.2	NA	NA		NA
5467	NA	178.5	136	242.8	87.2	155.4	NA	Garden	221
5468	475.6	302.4	331.4	240.4	544.8	NA	NA		NA
5469	544.4	165.5	349.6	250.6	NA	NA	NA		NA
5470	3019.2	456.4	NA	299.4	NA	NA	NA		NA
5471	NA	416.4	NA	204.8	638	NA	NA		NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
5472	247.8	97.2	246.2	ND	108.8	NA	NA	F1	164
5473	1560	155.8	ND	ND	607.6	NA	NA	F1	257
5474	910.4	261.2	333.2	523.2	471.6	NA	NA	F1	300
5475	2108.8	594	1120	490	488	NA	NA	F2	4840
5476	80.8	110.7	102.1	75.8	60.5	NA	NA		NA
5477	91.6	78.5	NA	81.3	79	62.2	NA		NA
5478	892.8	246.8	144.8	154.8	170.3	NA	NA		NA
5480	895.2	260	230.4	627.6	89.7	NA	NA	B1	726
5481	1049.6	217.8	594.4	NA	NA	NA	194.5		NA
5482	456	328.6	344.2	NA	355.6	NA	NA		NA
5483	524.4	158.2	362.4	134.5	150	NA	NA	F1	192
5484	805.2	388.8	291.6	NA	285.4	NA	166.6		NA
5485	706.8	459.2	652.4	461.2	NA	NA	NA	F1	477
5486	626.4	243.8	140.4	82.8	139.3	NA	NA	F2	172
5487	1200	304.8	193.3	92.9	93.7	345	NA		NA
5488	320	85.4	110.6	NA	190.8	NA	NA	F1	138
5489	2569.6	471.6	250.6	586.4	375.8	NA	NA	F1	584
5490	929.6	NA	135	229.8	138.5	NA	NA		NA
5491	1349.6	520.8	188.7	NA	NA	268.6	NA		NA
5492	1389.6	256.8	512	NA	NA	322.8	NA	Garden	407
5493	708	458.8	NA	NA	NA	NA	NA		NA
5494	1409.6	NA	NA	330.4	219.4	NA	NA		NA
5495	1480	988	687.2	510.8	386.8	NA	NA	B2	623
5496	2160	372.6	648.4	832.8	429.2	577.2	NA		NA
5497	426.4	296.8	183.6	NA	NA	NA	NA		NA
5498	486.8	366.5	282.9	1717.8	527	NA	NA		NA
5499	709.2	182	255.4	1169.6	538	NA	NA		NA
5500	1529.6	636.8	299.6	399.6	381.6	NA	NA		NA
5501	629.6	224	163.1	200.2	818	734	157.3		NA
5502	737.7	293.6	477	450.1	684.2	NA	NA		NA
5503	2939.2	2680	817.6	588	253.6	NA	NA	F2	1150
5504	1249.6	446.4	956	238.6	332.8	NA	NA		NA
5505	101.6	374.2	359.6	310.2	242.2	NA	NA	F2	376
5506	814	208.8	444	266.8	241	NA	NA		NA
5507	829.6	397	372.4	305	276.2	NA	NA		NA
5508	530.8	143.5	NA	177.8	NA	NA	NA		NA
5509	685.2	169.6	94.4	73.4	89.3	NA	NA	B1	89.6
5510	721.6	438	127.9	31.3	289	130.4	NA		NA
5511	59.2	ND	ND	ND	ND	NA	NA		NA
5512	213.2	128.7	89.7	135.2	102.7	NA	NA		NA
5513	640	98.9	60.8	171.2	165	NA	NA	F1	119
5514	NA	102.6	71.4	80.7	107.8	NA	NA	F1	134
5515	369	290	145.9	153.3	234.4	NA	NA		NA
5516	663.2	293.6	154.3	105.5	107.6	NA	NA		NA
5517	1449.6	513.2	288.8	189	NA	NA	NA		NA
5518	2880	141.2	155.2	135.7	176.6	NA	NA		NA
5519	228.2	204.3	53	130.4	58.1	NA	NA		NA
5520	1748.8	276	313.6	398.2	583.6	NA	NA	B1	552
5521	NA	319	199	189.7	151.6	NA	NA		NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
5522	1220	255.6	279.2	407.8	364.4	NA	NA	B2	448
5523	NA	247.4	163.5	347.4	101.6	NA	NA		NA
5524	805.2	230.8	918.4	810.4	740.4	NA	NA		NA
5525	642	197.5	244.8	471.2	NA	NA	NA	B1	636
5526	692	385.2	378	456.4	675.2	NA	NA		NA
5527	NA	129.2	193.7	245.6	184.2	NA	NA	F1	311
5528	195.5	477.6	217.6	209	241.2	NA	NA		NA
5529	NA	345.2	145.5	1169.6	941.6	727.2	NA	Garden	1220
5530	1409.6	459.6	214.8	428	162.3	NA	NA	F1	430
5531	2499.2	199.1	408.8	638.8	417.6	NA	NA		NA
5532	772.8	955.2	860	508.8	NA	NA	NA	F2	848
5533	87.4	89.8	126.5	358.6	384.6	NA	NA		NA
5534	NA	203.7	195.2	325	933.6	NA	NA		NA
5535	NA	283.8	250	275.4	378.6	NA	NA		NA
5536	NA	155.6	311.4	202.5	314	NA	NA	F1	164
5537	NA	179.8	197.6	235.2	292.2	NA	NA	B1	1420
5539	NA	303.6	NA	NA	400.8	NA	NA		NA
5540	NA	257.8	NA	264.4	NA	NA	NA		NA
5541	NA	150.3	248.2	478.4	389.8	NA	NA	F1	211
5543	173.7	ND	68.1	200.9	136.7	NA	NA		NA
5544	NA	50	126.6	56.4	148.6	NA	NA	F1	55.2
5545	1846.1	350.3	319.3	293.7	584.8	NA	NA		NA
5546	270.4	55.7	218.6	333.6	225	NA	NA	B1	432
5549	1859.2	787.6	470	NA	NA	NA	NA		2620
5551	1020	240.6	203.8	824	420	NA	NA	F1	304
5552	840.8	305.8	603.2	NA	NA	NA	NA		NA
5553	1529.6	336.8	330.4	237	289.8	NA	NA		2990
5554	1600	312.2	352.4	NA	NA	NA	NA		NA
5556	329.6	195.6	385.8	380.4	271.4	NA	NA		NA
5557	2049.6	448.4	660	258	327.2	NA	NA		3510
5558	600	231.8	620	379.2	437.2	NA	NA		NA
5559	438.4	278.6	297.4	271.8	396.2	NA	NA	F2	348
5560	1540	590	393.2	NA	328.8	NA	NA	B2	516
5561	311.6	642.4	245	458.8	609.2	NA	NA	F2	329
5562	212.4	224.2	683.6	584.4	414	NA	NA		NA
5563	68.4	47.7	69.4	249.2	26.5	NA	NA	F1	70.8
5564	1149.6	379	405.4	372.4	NA	NA	NA		NA
5565	1349.6	183.4	164	119.3	253.2	NA	174.1	F2	228
5566	1149.6	259.6	255.8	430.8	260.2	NA	NA	F1	234
5568	55.1	41.9	82.7	63.9	65.2	NA	NA		NA
5569	65	89.3	85.3	47.5	49.4	NA	NA		NA
5570	2299.2	226.4	264.4	267.6	331.2	NA	NA		NA
5571	2800	689.2	326	507.6	517.2	NA	NA		3630
5572	435.2	167.5	138.3	NA	136.2	241.8	NA	F1	282
5573	NA	326.6	NA	282.8	NA	202.4	NA		NA
5598	242	160.5	155.5	151.1	NA	NA	NA		348
5603	835.2	296.6	454.4	245	365.2	NA	NA		NA
5604	2019.2	200.1	258.6	355.4	205.4	NA	NA		NA
5605	NA	63.9	39.2	NA	NA	NA	NA		NA

Appendix A
Table A-2
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Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
5606	8614.4	458	170.4	259.4	237.2	158.8	NA		NA
5607	272.2	251	407	97.9	85	NA	NA	B1	108
5608	NA	258	178.9	NA	NA	NA	NA	F1	398
5609	532	338.6	506.4	388.8	404	NA	NA		NA
5610	2619.2	317.2	658	193.1	960.8	NA	NA	F1	409
5611	975.3	202.3	113.7	146.2	294.8	NA	NA		NA
5612	867.2	550.8	310.4	602.8	653.6	NA	NA	F2	397
5613	3360	1289.6	NA	NA	NA	NA	NA		NA
5614	720	442	305.6	401.4	296	NA	528.8	B1	551
5615	739.2	342.8	NA	763.6	613.2	NA	NA		NA
5616	384.8	159.5	418.4	NA	NA	370.8	NA		NA
5617	271	NA	114.4	248.6	324.6	NA	NA		NA
5618	134.5	147.5	70.3	73.7	100	NA	NA	F2	81.8
5619	824	97.4	168.4	98.5	149.7	NA	NA		NA
5620	706	186.2	252.4	198.8	NA	NA	NA		NA
5621	4188.8	264.6	314.4	350.2	329.8	NA	NA		NA
5622	1180	378.6	407.4	403.8	NA	NA	NA	B1	547
5623	1409.6	151.9	211.6	159.6	246.4	NA	NA	F1	243
5624	ND	121.3	84	102.4	194.2	NA	NA		NA
5625	NA	133.8	69	323	NA	478.4	NA		NA
5626	2160	323.2	201.9	231	222	NA	NA		NA
5627	3900.3	381.1	338.4	429.2	528.3	NA	NA		NA
5628	332.2	203.3	128.3	156.8	263.8	NA	160.1	Play	144
5629	1240	765.2	970.4	550	407.6	NA	NA		NA
5630	608	453.2	321.6	NA	309.8	NA	NA	B2	393
5632	913.6	553.6	NA	NA	NA	NA	NA	F1	1210
5633	575.2	292.6	245.4	510.8	NA	NA	NA		NA
5634	NA	629.2	NA	NA	NA	NA	NA		NA
5635	2713.9	1301.1	276.3	NA	207.9	NA	NA		NA
5636	185.3	678.8	429.6	503.2	315.4	NA	NA	F1	749
5637	710.4	187.9	323.6	228.6	NA	NA	163	Play	249
5638	874.4	618.8	1069.6	269.2	NA	NA	NA	B2	360
5640	NA	132.1	85.8	62.1	151.3	NA	NA		NA
5641	NA	378	180.3	253	NA	NA	NA	F2	229
5642	NA	195.3	245.8	152.3	NA	NA	NA		NA
5643	NA	165	737.6	401.4	NA	NA	NA		NA
5645	189.1	138.2	80.6	43.1	161	NA	NA		NA
5646	852	340.4	161.9	317.8	309.8	NA	NA		NA
5647	NA	396.8	NA	366.8	NA	NA	NA		NA
5648	690.2	85.2	83.4	162	127.1	NA	NA		NA
5649	896	566	NA	1140	NA	NA	NA		NA
5651	1828.8	338.2	216.4	284.6	202.2	NA	NA	B1	258
5652	568.4	367.6	NA	376.6	NA	NA	461.2	B1	602
5653	2148.8	281.6	340.4	118.8	186.1	NA	NA		NA
5655	897.9	227.2	142.1	263.1	306.6	NA	NA		NA
5656	NA	NA	NA	124.2	145.8	NA	NA		NA
5657	446.8	389.6	428	364	481.2	NA	NA		NA
5658	NA	ND	121.4	100.5	108.1	NA	NA		NA
5659	105.8	265.6	239.2	196.1	139.4	NA	NA		NA

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Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
5660	430.4	257.2	485.2	NA	593.2	NA	NA		NA
5661	141	146.6	NA	305	NA	NA	NA		NA
5662	99.4	123.9	141.5	228.8	145.6	NA	NA		NA
5663	133.6	240.2	130.9	469.6	227.2	NA	NA		NA
5664	731.8	393	784.6	653.3	394.4	NA	NA		NA
5665	1888.1	110.3	195.6	213.1	205.6	NA	NA		NA
5666	334.2	114.8	102.2	153	200.2	NA	NA		NA
5667	1413.1	318.5	1211.4	475.2	NA	NA	NA	F2	1200
5670	1920	129.7	134.7	97.7	101.9	NA	NA		NA
5672	381.4	602.1	367.4	198.8	338.5	NA	NA		NA
5673	807.3	NA	NA	334.7	NA	NA	NA		NA
5674	866.3	356.1	377.4	NA	NA	NA	NA		NA
5675	1874.2	1001.7	411.6	541.4	2221.1	NA	NA		NA
5676	NA	320	224.2	487.6	498.4	NA	NA	B2	704
5679	1816	376.7	1207.7	395.2	265.1	NA	NA		NA
5680	2239	493.9	365.5	261.3	372.2	NA	NA		NA
5681	1505.3	638.8	315.8	186.9	230.6	NA	NA		NA
5682	2839.2	1070.9	673.6	650.5	895.4	NA	NA		NA
5683	154.3	171.9	187.6	131.4	399.4	NA	NA		NA
5684	226.2	742.2	1754	NA	NA	NA	NA		474
5685	482.5	292.6	303.5	345.5	480.8	NA	NA		NA
5686	591.3	53.3	48.1	135.3	NA	NA	NA		NA
5687	488.8	142.3	137.6	NA	364.3	NA	NA		NA
5688	381.9	269.8	261.5	271.4	171.9	NA	NA		NA
5689	NA	204.7	314.6	508.6	415.4	NA	NA		NA
5692	2080	435.2	412.8	452	366.6	NA	NA		NA
5694	675.7	281.3	514.9	NA	NA	NA	NA		NA
5695	416.8	323.1	265.5	301	279.1	NA	196.6	B2	395
10001	574.6	105.7	143	169.2	126	167.7	132.3	F2	178
10002	NA	207.8	202.7	243.8	127.7	NA	NA	F1	403
10005	59.6	42.4	41.6	41.9	53.7	NA	NA		NA
10007	193	344.1	108.2	159.8	155.7	NA	232		NA
10015	65.6	71.3	48.7	96.9	56.9	NA	NA	B2	45.2
10016	432.2	398.7	258.8	386.6	267.7	NA	NA		NA
10019	145.3	76.2	161.7	293.8	NA	NA	NA		NA
10025	226.7	122.3	47.8	NA	93.9	NA	NA		NA
10033	NA	259.3	31.5	NA	194.7	NA	NA		NA
10037	1635.6	813.3	454.2	487.3	823.8	NA	NA		NA
10039	392.2	78.2	106.1	204.5	745.6	NA	NA		398
10040	194.6	101.4	112.2	292.5	193.2	NA	NA		NA
10045	438.4	455.6	422.5	357.1	525.3	NA	414.9		NA
10048	415.9	321.7	140.7	256.2	261.2	NA	NA	B1	305
10049	928.8	374.4	103.5	149.6	247	NA	NA		NA
10052	397	300	151.9	240.2	186.4	219	224		NA
10057	264.8	340.7	170.7	1012.8	102.9	NA	NA		NA
10059	NA	156.4	56.5	119.4	151.4	NA	NA	F1	139
10062	740.8	49.6	137	155	585.2	141.8	NA		NA
10063	48.6	94.3	116.3	93.3	151.2	NA	NA		NA
10064	79	118.3	149.1	207.8	89.8	NA	NA		NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
10066	NA	455.3	289.5	142.9	NA	NA	NA		NA
10069	249.4	190.5	283.5	71.5	212.7	337.5	243		NA
10070	1720	126.1	192.4	149	212.2	NA	NA		NA
10071	485	208.3	236.8	137.9	109.7	176.8	94.6		NA
10074	NA	117.5	169.5	279.6	NA	NA	165.1		NA
10078	44.3	49.4	54.9	46.6	53.8	NA	NA		NA
10079	175.2	233	117.8	80.2	155.5	172.7	NA		NA
10089	189.7	135.9	259	498.9	217.2	NA	NA		NA
10091	354.2	276.7	204	110.4	190.6	NA	NA		NA
10096	82.2	255.6	139.1	610.7	217.1	NA	NA		NA
10098	95.8	117.5	114.4	52.3	81.9	84.7	NA		NA
10104	185.9	437.6	570.1	508.8	340.8	NA	NA		NA
10107	ND	70.8	117.3	93.4	169.6	132.6	NA		NA
10112	1755.6	115.1	62.1	65.2	40.2	NA	56.8		NA
10114	1500	375.8	324.4	243	278.6	112	NA		NA
10115	72.3	34	128.2	65.1	68.7	118.9	41.4		NA
10118	455.8	282.2	435.8	214	312.3	NA	NA	B1	250
10120	362	126.6	138.4	164	72.1	72.4	NA		NA
10122	187.2	68	52.6	39.4	64.7	NA	NA		NA
10123	80.4	124.7	68.9	111.4	76.1	53.7	NA	Garden	77.3
10126	809.3	394.1	332.5	297.3	264	NA	NA		NA
10127	649.6	214.9	213.5	367.6	162.2	220.2	NA		NA
10128	100.9	61.4	41	51.5	38.7	44	33.2	F2	39.8
10131	83.2	582.6	267.3	255.3	180.7	NA	68		NA
10133	NA	NA	576.1	NA	NA	NA	NA		NA
10137	80.3	110.9	99.7	69.2	86.8	NA	63.1		NA
10138	128.4	65.7	60.6	56.1	124	NA	40.1		NA
10143	98	81.5	48.9	47.4	64	NA	NA		NA
10165	696	153.3	87.1	112.1	122.8	NA	124.5	B1	111
10166	162.8	143.6	147.7	103.7	240.1	NA	297.2		NA
10170	522.5	450.4	469.9	1211.9	1152.4	NA	NA		NA
10171	124.5	47.9	72.8	129.6	219	NA	NA		NA
10177	389.7	93.5	111.4	117.9	306.9	NA	102.1	B2	305
10178	414.4	165.6	295.4	214.7	127.5	NA	NA		NA
10180	138.3	81	124.8	118.3	131.2	NA	NA		NA
10181	199.6	106.8	75.7	124.2	104.3	NA	113.6		NA
10184	105.8	226.8	262.2	347	226.2	NA	NA	B1	430
10189	1485.6	332.6	1620.8	521.6	589.8	NA	NA		NA
10193	427.2	343.6	907.2	490	365	NA	NA		NA
10194	NA	150.8	81.7	217	352.5	NA	NA		NA
10199	NA	130.3	67.6	317.2	644.4	NA	NA		NA
10200	840.1	129.4	89.8	162.8	170.7	NA	NA		NA
10201	3308.8	171.2	82.2	360.4	177.5	NA	415.6		NA
10207	1656.7	1941.1	1055.5	535	183.5	NA	NA		NA
10208	483.1	111.7	80.5	99.8	68.2	NA	76.1		NA
10211	125.2	185.4	173	179.2	209.2	NA	96.9		NA
10212	1613.3	313.8	329.9	446.5	311.5	NA	NA		NA
10215	580.6	146	117.2	244.3	246.4	196.3	196.2		NA
10216	586.4	203.8	671.2	173.1	274.8	NA	225.4		NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
10220	NA	241.3	338.5	227.8	865.4	NA	NA		NA
10221	171	1949.6	611.8	55	113.8	NA	69.6	B1	44.3
10223	156.1	35.3	59.4	45.5	200	619.1	99.9		NA
10224	565.4	305.6	176.9	279.5	182.5	NA	213.4		740
10228	2240	284	462.4	539.6	472.4	NA	NA	F2	319
10230	417.3	307.5	136.8	151.7	48.4	NA	NA		NA
10233	2822.5	99.8	225.8	622.7	253	NA	NA		NA
10240	1015.4	176.1	133	166.2	153.5	NA	177.4		NA
10245	261.5	315.9	160.3	810.1	560.1	NA	NA		NA
10246	101.5	81.9	114.3	103.7	50.6	NA	NA		NA
10247	405.1	126.8	238.1	301.8	118.2	NA	NA		NA
10248	225.6	148.8	251.2	149.5	55.4	NA	NA		NA
10251	2068.8	44.7	154.1	39.6	63.7	102.1	NA		NA
10257	54	68	94.5	69.5	83.6	79.8	NA	Garden	87.8
10258	78.5	86.3	177.7	161.6	64.9	68.3	73.6		90.3
10260	504.7	138.2	260.3	183.9	448.8	NA	NA		NA
10261	73.7	63.6	50.4	60.9	64.3	NA	NA		NA
10263	758.5	204.9	128.3	104.2	129.6	NA	135.9	B2	141
10264	NA	126.2	233.2	250.4	141	NA	NA		NA
10266	410.8	57.5	166.2	123.1	125.1	NA	263.8		NA
10273	167.9	155.5	782.4	110.1	166.8	NA	NA		NA
10274	308.8	44.2	174.9	145.4	249	NA	NA		NA
10275	237.4	66.2	36.4	93.9	107.9	96	NA		NA
10278	1433.2	342.8	534.6	662.8	877.1	NA	NA		NA
10282	1022.7	1058.1	859.1	339.3	397.2	NA	NA		NA
10286	404.9	254	347.6	336.3	179.5	515.3	NA		NA
10289	717.7	116.6	79.2	147.2	135.7	NA	NA		NA
10291	1520	194	149.4	374.8	324.6	NA	510.8		NA
10293	707.9	448.5	365.3	147.1	93.4	NA	NA		NA
10294	137.8	205.8	290.1	53.4	59.7	NA	NA		NA
10296	845.1	158.2	180.8	173.5	111.7	NA	147.6		NA
10297	119.7	81.2	112.8	92.5	92.8	NA	NA	F2	113
10300	248.6	79.1	84	153.5	87.3	NA	NA		NA
10302	1035.4	270.8	328.5	268.5	349.6	124	NA	B2	347
10305	305.3	768.2	384.2	218.4	508.4	NA	191.7		NA
10306	98.5	62.4	76.9	59.1	84.6	NA	NA	B2	114
10311	290.7	197.2	237.6	140.4	126.3	NA	315.3		NA
10315	318.3	157.6	85.9	282.8	276.1	NA	NA		NA
10316	270.2	88.1	297.4	202.7	138.9	207.6	NA		NA
10317	1087.8	208.4	287.9	366.2	287.5	216.8	140.1	Play	178
10318	952	229.6	339.6	181.3	260.4	136.7	49.9		NA
10320	51.2	81.3	38.4	34.1	205.4	NA	NA		NA
10324	87.4	64.2	89.9	85.8	120.9	NA	NA		NA
10327	262.7	407.6	237.6	340.2	226.2	NA	NA		NA
10338	1436	232.1	229.4	358	442.1	NA	NA		NA
10339	998.4	137.2	261.6	200.1	65.3	NA	NA	F2	328
10342	102	123.7	114.1	177	83.6	NA	NA		NA
10344	1159.5	400.8	578.3	89.7	153.4	759.2	368.1		NA
10346	13817.2	570.5	577.4	263	309	NA	NA		NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
10348	237.3	115.1	146.2	159	236.2	107.9	39.2		NA
10351	944.8	216.8	256.8	130.8	200.8	NA	NA		NA
10353	309	114.1	37.6	196.2	105.8	NA	NA		NA
10354	68.6	144.1	78.7	188.4	103.4	NA	NA		NA
10356	81.2	37.4	48.8	144	25.2	NA	NA		NA
10359	352.8	305.9	179	340.4	226.4	125.6	NA	Garden	188
10362	556.5	173	132.7	230.6	474.8	NA	NA		NA
10364	631.7	136.1	119.7	228	365	420	NA		NA
10367	152.9	236.4	189	195.3	260.8	NA	NA		NA
10369	47.1	49.7	127.6	106.8	39.6	NA	NA		NA
10371	73.1	69.6	48.4	53.1	304.9	NA	NA		NA
10372	573.2	97.1	139.4	519.6	271.6	NA	NA		NA
10374	244.7	399.8	135.9	117	98.2	NA	NA		NA
10375	1289	429.4	501.2	493.5	239	NA	NA		NA
10376	NA	282.7	356.8	360.7	453.7	NA	NA	B2	702
10377	1619.9	146.1	137.8	477.3	463.5	NA	231.6		NA
10378	87.8	82.6	66.1	66.7	86.7	62.7	94.3		NA
10381	117.3	49.2	62.2	105.9	52.9	NA	50.6		NA
10385	103.6	84	128.9	85.6	67	NA	NA		NA
10386	134.8	133.2	64.3	149.2	110.9	NA	NA		NA
10388	205	101.3	103.1	75.4	158.9	NA	NA		NA
10389	117.8	55.6	79.8	107.8	454.9	NA	142.3		NA
10390	NA	164.4	174.6	NA	66.6	NA	NA		NA
10394	259.3	80.2	64.8	78.3	129.8	NA	NA		NA
10395	749.6	178.3	315.6	266	173.6	NA	NA		NA
10396	167.8	146.2	228.1	179.7	226.2	NA	NA		NA
10400	1362	1217.8	933.6	151.4	315.4	109.8	NA		NA
10408	520.2	112.4	355.4	234.7	59.5	NA	NA		NA
10415	1040	83.1	173.2	83.6	158.6	136.4	NA	B1	116
10417	325.2	269.6	108.3	260.3	160.7	492.4	NA		NA
10418	417.9	192.8	159.8	115.1	NA	NA	NA		NA
10419	256.3	96.1	100.3	198	57.9	NA	NA		NA
10420	642	382.4	129.3	72.8	166.4	NA	NA		NA
10430	657.5	238.2	656.2	205.8	207.5	NA	190.6		NA
10437	41.4	50.1	31.5	101.4	80.6	104.1	NA		NA
10439	896.6	127.8	89.3	125.1	46.2	NA	NA	F1	132
10443	109.8	47.5	62.6	304	30.1	NA	31		NA
10444	481.6	123.9	132.1	239	229.8	NA	NA		NA
10445	486.8	197.7	90.2	154.1	206.4	195.7	NA		NA
10447	215.6	240.5	167.7	203.8	132.6	NA	NA		NA
10452	NA	1756.2	NA	462.8	144.8	NA	NA		NA
10453	165.9	84	82.3	166.3	127.7	NA	NA		237
10454	187.8	115.6	156.4	72.1	121	NA	NA		NA
10457	166.4	227.9	275.3	352.4	55.5	112	78.1	Play	76.1
10459	4358.4	124	157.4	342.4	257.8	NA	NA		NA
10460	413.2	416.8	166.6	287	135.9	NA	NA		NA
10462	1128.2	107	138	101.9	229.1	177.4	NA		NA
10466	637.3	126.6	243.1	221	388.6	NA	NA		NA
10473	158.7	110.1	132.3	145.4	55	NA	NA	F1	82.9

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
10475	38.6	205.5	90.7	134.1	138	NA	NA		NA
10480	71.9	81.1	53.4	145.5	84.6	NA	94		NA
10481	106.5	55.1	80	61.7	46.8	NA	NA		NA
10486	1058.7	299.5	141.9	158.4	205.5	NA	NA		NA
10487	87.7	101.8	52.2	65.8	92.6	NA	NA		NA
10490	325	128.5	170.7	594.4	135.8	NA	411.2	B2	165
10496	411.5	146.9	209.9	266.7	158.2	NA	NA	F2	163
10501	635.9	333.1	357.6	279	389.9	NA	NA		548
10505	231.2	783.8	474.6	241.5	131.4	NA	NA		NA
10514	1186.3	419	498.8	396.1	407.1	NA	2523.5	B1	536
10515	59.4	66.7	54.3	73.8	93.1	NA	NA		NA
10518	239.6	346.6	94.3	61.6	63.3	NA	88.7	Play	76.8
10522	949.2	140.2	165.2	176.8	173.4	NA	187.3		NA
10526	283.9	219.4	349.3	130.6	153.7	NA	271.3		NA
10529	677.2	234.4	183.6	300	140.8	NA	NA		NA
10530	296.1	98.1	264.7	199.8	137.3	NA	NA		NA
10531	1100	217.8	169.7	259.4	210.6	NA	NA		NA
10532	166.8	139.1	92.4	210.7	68.3	NA	NA		NA
10533	60.9	100.5	42.7	46.6	210.5	NA	NA		NA
10536	329.7	475	252.8	19.4	238	NA	NA		NA
10542	182	81.7	99.2	85.7	74.4	NA	133.8		NA
10546	107.4	40.6	84.5	71.6	37.2	83.1	NA		NA
10547	106.5	209.3	136.5	247.8	126.2	NA	44.4		NA
10555	405.4	66.9	135.9	134.8	125.1	NA	NA		NA
10556	451.7	123.8	94.9	523.6	161	NA	NA		NA
10558	1275.9	278.2	324.8	333.7	300	NA	103.9		NA
10559	837.7	186.9	158.1	118.4	353.6	NA	NA	B1	99.6
10561	4118.2	112.6	83.7	120.5	121.1	71.1	NA		NA
10564	295.1	213.7	317.9	294.5	360.5	NA	NA		375
10565	148.1	1101.6	330.2	298.8	261.1	NA	NA		NA
10569	783.2	391	207.8	134.1	149.8	NA	NA		NA
10571	NA	112.6	NA	165.4	138.4	NA	235.5		NA
10572	943.6	175.6	216.2	368.4	209	NA	NA	F1	182
10573	125.6	232.9	147.8	45.2	76.6	NA	NA	F2	119
10574	131.8	132.2	93.4	70.2	75.5	NA	NA		NA
10579	115.6	154.4	84.6	108.4	137	NA	86.4		NA
10580	1195.1	527.4	248.3	384.9	288.6	NA	NA		NA
10583	NA	450.9	229.3	461.5	424.9	70.9	392		NA
10584	63.1	88.9	122	NA	NA	NA	NA	F2	159
10587	203.5	137.6	156	80.6	39.6	NA	NA	B1	93.3
10591	621.1	136	195.7	274.4	993.6	NA	NA		NA
10598	115.7	91	146.9	113	156.3	145	84.8		NA
10601	244.3	142.6	86.9	229.3	315.4	NA	NA		NA
10604	NA	275.7	225.6	219.4	195.9	NA	NA		NA
10609	96	198.1	304.7	139.8	184.5	203.3	NA		NA
10611	531.2	264.8	132.3	168.1	131.5	NA	NA		NA
10612	37.2	83.6	53.3	81.3	180.7	NA	NA		NA
10614	93	278.1	166.6	275.8	116.7	NA	NA		NA
10623	130.9	68.9	98.5	77.3	34.8	50.5	NA		NA

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Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
10624	339	238.1	183	248.7	298.6	NA	NA		NA
10627	197.6	70.9	114.5	44.7	78.8	NA	88.9		NA
10628	450.8	157.7	141.9	148.5	418.2	133.8	NA	Garden	124
10631	81.1	182.2	86.7	145.4	54.2	NA	NA		NA
10634	56.3	105	69.2	94.8	48.8	NA	NA		NA
10636	105	97.3	109	147.3	264.3	NA	192.5		NA
10638	131.7	95.7	142.7	30.8	88.1	NA	NA		NA
10643	441.6	222.2	470	291.2	110.5	NA	172.5		NA
10644	720	68.9	102.7	117.9	125.9	NA	142.8		NA
10645	233.8	65.9	200.9	NA	299.7	NA	NA		NA
10646	176.5	50.4	109.5	57.4	63.3	NA	NA	B1	70.7
10657	98	105.2	66.9	103.1	54.2	NA	NA		NA
10664	414.4	395.4	474.8	244.8	150.9	NA	NA		NA
10667	54.9	54	44.4	40.9	27.2	39	NA		NA
10678	634.5	307.4	126.9	249.5	226	NA	NA		NA
10682	242.6	115.6	96.2	90.3	114	NA	NA		NA
10683	281.6	173.1	147.5	128.7	144.4	NA	NA		NA
10686	81.6	95.8	129.5	61.1	134.6	NA	NA		NA
10688	310.6	123.4	268.2	147.6	139.7	NA	NA		NA
10689	386	145.1	318	111.5	199.9	NA	157.8		NA
10692	1418.9	302.9	923.6	180.7	346.9	NA	NA	B2	268
10695	614.4	310.6	453.9	208.3	809.1	440.2	NA		NA
10705	998.7	423.3	319.2	259.4	218.3	NA	NA		NA
10709	106	113.3	89.9	95.7	130.8	86.4	86		NA
10713	179.7	266.3	188.8	209.1	194.6	NA	NA		NA
10714	473.6	478.4	678	288.2	292.2	NA	NA		NA
10715	175.8	131.9	63.2	109.9	115	159	NA		NA
10718	70.9	71.6	115.2	87.8	173.5	201.9	NA	B1	78.1
10721	224.4	652	220.4	447.6	192.6	NA	NA		NA
10722	819.2	214.4	120.8	162	156.2	NA	131.5		NA
10723	415.2	324.2	207.4	173	244.4	147.4	NA		NA
10724	630.9	298.5	198.2	319.2	123.4	NA	NA		NA
10729	439.2	74.4	145.3	526.4	204.1	NA	254.2		NA
10731	NA	412.8	438.3	313.1	193	309.7	NA		NA
10732	530.8	501.1	250.8	253.4	392.6	NA	NA		NA
10736	99	55.5	34.2	231.1	141	NA	NA		NA
10737	64.6	111.8	68.4	125.6	110.6	NA	NA		74.3
10739	247	176	164.4	216.2	257.6	NA	114.5		NA
10740	303.4	150.6	151.3	280.2	150.5	245.6	NA		NA
10745	1568	162.6	598	135.3	236.3	NA	NA		NA
10746	114.5	158.1	109.2	158.4	205.6	NA	140.9		156
10747	68.6	72.8	62.5	107.3	60	NA	NA		NA
10748	410.3	103.7	223.6	85.5	154.2	109.5	NA		NA
10750	642.8	327.1	43.3	296.7	307.6	93	111.6		NA
10752	19.2	126.5	36.4	110.4	92.6	NA	NA		NA
10754	375.2	184.6	127.8	98.8	136.5	NA	NA		NA
10756	732.1	95.4	97.8	167.1	108	NA	47.8		NA
10758	45.4	49.2	47.2	38.1	50	NA	NA		NA
10763	338.4	613.8	267.7	628.5	170.1	NA	NA		NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
10765	689.3	464.3	306.9	236.8	169.5	NA	NA		NA
10767	328.5	419.2	488.4	359.3	238.5	205.3	NA		NA
10768	30.3	26.6	54.9	46.7	35.8	NA	NA	F1	34.9
10772	860.1	184.8	154.9	87.7	78.1	NA	NA		NA
10775	44.3	32.8	98.8	87.8	47.9	NA	NA		NA
10776	NA	36.4	31.9	52.2	40.7	NA	NA	F2	52.1
10780	74.7	127.5	102.3	113.1	66.9	NA	146.3		NA
10781	1044.1	117.6	259.8	368.3	279.5	NA	NA		NA
10783	59	81.5	38.2	91.2	49.4	67.6	NA		NA
10786	140.5	151.5	122.3	90.7	228.3	NA	NA		NA
10788	889.1	194.4	173.2	198	334.5	NA	NA		NA
10791	407.9	182.6	226.5	102.7	155.6	162.1	231.8	Garden	188
10793	2387.2	269.7	456.2	199.1	268.3	NA	NA		NA
10796	NA	92	44.1	100.5	49.9	NA	NA	F1	99.8
10797	256	85.6	82.2	207.4	99.1	NA	NA		NA
10798	249.2	1141.5	240.1	190.5	222	NA	NA	B1	184
10799	1217	397.9	377.8	167.1	82.9	NA	NA		NA
10804	236.1	605.3	828	169.9	398.2	NA	NA		NA
10805	264.1	131.2	105.9	131.7	83.5	NA	NA		NA
10806	979.2	186.9	243.6	274.2	1309.6	NA	183.8		NA
10808	417.6	152.1	173.2	139.1	220.1	NA	NA		NA
10809	137.4	204.1	90.3	105.9	57.9	NA	NA		NA
10813	74.6	106.3	36.7	83.1	245.2	178.2	NA		NA
10816	NA	462.1	255.3	173.4	233.5	NA	NA		NA
10817	130.2	150.5	67.7	243.5	66.1	NA	NA		NA
10818	121.9	NA	98.1	243.2	47.8	81.6	NA	B1	687
10819	172.7	200	153.8	114.5	153.7	NA	NA		NA
10821	182.1	120.4	167	254.2	246.6	175.8	NA		NA
10823	241.2	182.9	207.7	192.3	117.4	NA	NA		NA
10825	NA	153.6	147.4	263.1	133.2	NA	NA		NA
10828	436.7	216.7	464.1	509.7	449.3	NA	NA		NA
10829	184.4	199.7	173.4	32.4	203	NA	NA		NA
10833	666.6	166.3	226.8	162.6	135.4	NA	172.2		NA
10836	478.1	120.7	92.5	143	74.4	193.1	NA		NA
10837	1156.4	92.3	752.4	99.2	155.3	128.5	NA	Garden	239
10838	NA	496.9	161.8	215.6	205.7	NA	NA	F2	188
10841	693.4	369.7	226.6	102.4	193.7	NA	NA		852
10847	169.2	126.4	186.9	234.5	200.2	NA	NA		NA
10851	13108.8	310.7	187	353	678.9	NA	NA		NA
10853	1151.4	429.3	282.4	1120.4	323.4	NA	NA		NA
10854	155.5	313.1	124.9	53	132.9	NA	NA		NA
10855	626.2	279.6	205.3	241	275.4	NA	NA		NA
10857	938.3	182.3	232.9	209.1	282	255.2	NA		NA
10859	86.4	116.8	177.5	363.7	287.8	NA	NA		84.6
10861	3195	360.3	288.4	299.3	164.7	NA	NA	F1	288
10862	29.9	20.9	23.9	31.2	20	NA	NA		NA
10863	938.4	176.8	175.4	150.8	204.4	NA	196.7		NA
10867	457.6	88.9	158.9	109.2	227	NA	NA	B2	247
10883	NA	629	350.6	207.7	423.2	NA	NA		NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
10884	24.1	83.9	26.8	26.1	48.9	39.7	NA		NA
10885	39.6	206.4	226.8	363.6	346.8	223.6	34.7		NA
10887	63.6	38.8	39.1	33.7	41.2	27.8	NA		NA
10889	91.8	44.5	47	44.4	91.7	NA	NA	B1	24.8
10891	106.6	50.3	113.2	84.6	268.4	NA	NA		NA
10892	473.6	376.6	258.8	370	188.7	200.1	NA	B1	395
10894	367.1	425.8	112.3	199.7	224.7	NA	NA	B2	244
10896	NA	34.7	74.2	86.4	128.7	NA	95.4		NA
10898	69.9	77.2	41	82.7	88.9	NA	118.9		NA
10905	77.8	58.2	88.4	252.5	162	NA	NA		NA
10906	3539.2	252.4	92.7	528.4	113.3	NA	1060		NA
10910	65.6	32.4	26.2	51.9	43.7	NA	26.6		NA
10921	583.9	503.1	393.8	435.4	203.1	215	NA		NA
10923	44.9	35.1	39.5	70.2	80.2	NA	NA		NA
10924	NA	162.7	59.4	134	154.7	NA	163.7		NA
10928	NA	407.1	104.9	216.4	303.3	NA	NA		NA
10934	519.6	93.8	136.7	180.7	168	NA	117.1		NA
10937	138.2	42.9	52.6	65.5	69.1	NA	NA		NA
10943	NA	73.6	64.6	85.7	127.3	236.7	NA		NA
10948	215.1	537.1	225.4	570.1	383.1	NA	NA		NA
10949	884.1	94.7	309.4	99.8	53.6	NA	32.9		NA
10957	349.6	43.3	921.3	106.9	136	NA	NA	B1	135
10962	893.1	500.8	501.7	119.2	564.2	NA	NA		NA
10964	150	64.7	108.4	NA	NA	NA	77.7		NA
10968	486	243.2	242.8	398.2	199.8	260.4	368.6	Garden	381
10975	41.5	112.6	403	88.9	36.2	NA	NA		NA
10977	383.1	123.8	174.8	103.7	332.1	342.4	NA		NA
10994	94.7	86.8	74.7	87	74.8	NA	112		94.2
10997	1908.8	298.8	216.2	479.2	562.8	NA	NA		2220
10998	114.3	97.7	97	268.3	96.9	NA	NA		NA
10999	191.1	51.6	116.5	63.3	341.3	NA	NA		NA
11000	67.9	127.2	79.1	119.9	320.9	61.1	NA		NA
11002	46.6	70.5	32.4	94.3	54.4	NA	20.3		NA
11004	202	233.5	199.2	150.4	218.8	NA	NA		NA
11008	64.8	232.2	104.2	235.5	79.6	NA	NA	B2	77.9
11009	238	114.5	167.7	181	109.7	NA	NA	B1	197
11012	960.4	115.3	47.4	202.7	171.9	NA	NA		NA
11013	368.7	307	373.4	340.1	536.7	NA	NA	F1	378
11016	5692.2	478	549.1	328.5	151.7	NA	303.2	F1	552
11021	1306.4	240.2	128.9	198.2	239.3	254.1	174.1		NA
11022	517.6	392.6	603.2	187.8	660.8	NA	NA		NA
11023	19.1	37	43.1	34.6	69.1	28.4	NA	F2	406
11026	750.6	66	75.1	161.8	129	NA	NA		NA
11029	128.8	99.7	328	123.9	159.5	NA	154.5	Play	134
11030	135.2	50.7	89.8	74	115.5	NA	NA		NA
11033	66.5	42.5	42.5	97.3	69	NA	NA		NA
11034	109	289.3	405.5	196.8	260.4	NA	NA		NA
11035	NA	199.7	208.3	223.8	420.9	183.9	NA		NA
11037	26.9	126.5	90.4	96.9	70.8	NA	36.9		NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
11038	887.2	239.2	141.9	274	394.4	NA	NA		NA
11041	35.1	145.1	70.5	94.7	125.2	NA	NA		NA
11042	372.2	89.6	136.3	140.1	278.5	470.1	NA		NA
11043	NA	186.7	238	160.2	169.3	164.8	NA		NA
11045	422	102.3	59	259.4	98.4	NA	NA	B1	331
11046	2320	95.1	165.5	136.1	89.6	111	NA		NA
11052	324.2	101.4	96	229.6	195	336.6	NA		341
11057	918.3	70.1	128.4	243	102.6	NA	NA		NA
11062	NA	660.8	639.8	116.1	121.9	112.6	NA		NA
11065	282	215.8	196.3	264.6	274	NA	NA		NA
11080	329.4	259.5	96	185	223.9	NA	NA	F2	98.3
11084	85.7	48.4	116.9	70	72.5	44.5	NA	F1	91.8
11087	1020	127.8	178.1	119.7	169.6	NA	NA		NA
11088	298	148.7	547.2	135.8	217.8	203	NA	B1	160
11091	170	61.5	123.9	79.6	103	76.9	NA		NA
11092	238.8	229	190.1	155.5	167.9	NA	NA		NA
11098	941.7	334.5	127.2	160.8	158.8	NA	92.9		NA
11103	59.8	92.5	66.2	40.1	80.2	NA	NA		NA
11120	224.4	136	199	195.9	145.4	NA	NA	F2	146
11122	1111	91.6	140.8	216.2	308.6	NA	NA		NA
11126	658.9	311	189.5	87	205.3	NA	NA		NA
11127	18356	300.4	848.2	228.7	320	NA	NA		NA
11128	46.7	117.9	46	160.9	121	NA	NA		NA
11129	168.2	77.8	128.4	227	191.7	NA	NA		NA
11135	56	111.2	93.5	289.3	158.4	NA	NA		NA
11137	103.5	156.6	31.3	27.4	68.7	50.8	NA		NA
11139	345.1	136.8	96.7	122.5	68.2	NA	375.9		NA
11141	504.8	93.9	296.3	159.1	129.5	NA	NA		NA
11143	66.4	49	52.6	60.8	72.3	NA	NA		NA
11146	65.6	73.9	37	26.7	43.9	19.9	NA		NA
11150	602.4	351.2	321.6	621.6	300.9	NA	NA		NA
11151	56.4	116.5	123.7	37.2	43.7	NA	NA		NA
11152	1469.7	351.1	414.9	149.2	229.3	NA	323.3	Play	353
11153	NA	232.8	346	204.8	402.2	395	NA		NA
11154	41.7	88.1	45	40.5	202.3	NA	NA		NA
11156	281.4	114.5	116.2	132.5	49.3	113.6	NA		NA
11158	1815.5	108.1	111.3	78.1	96.6	NA	76.1	F1	113
11159	359	266.2	218.4	213.8	188.1	47.7	NA		NA
11160	178.3	50.1	65.8	64.8	155.1	NA	NA		NA
11162	320.2	120.9	224	172.7	491.2	NA	NA	F2	228
11163	60.4	98.4	77.5	109.6	93.4	74.8	NA		NA
11165	33.2	74.7	47.3	47.6	50.9	NA	NA		NA
11166	47.3	68.6	56	65	68.7	NA	NA		NA
11167	297.5	236.5	185.5	182.9	375.3	NA	NA		NA
11171	355.7	623.8	306.8	282.2	319.2	57.4	274.1		NA
11174	918.2	109.1	397	117.2	139.2	NA	147.7		NA
11176	64.2	131.2	84	77.3	101.5	NA	NA		NA
11182	831.9	220.2	406.5	419.3	804	NA	NA		NA
11185	113.9	60.8	187.6	85.8	73.5	NA	52.8		NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
11187	237.8	99	135.2	129.5	80.7	NA	NA		NA
11188	291.9	236.4	129.1	414.6	208.9	NA	91.7		NA
11192	500.1	417.7	316	263.3	340.9	474.8	NA	Garden	745
11196	62.4	87.7	84.2	218.6	114.3	NA	NA		NA
11198	125.8	82.2	67.6	54.4	NA	NA	NA		NA
11202	NA	247.4	153.6	251.6	38.2	102.7	NA		NA
11205	632.4	141.8	174.6	506.3	206.4	NA	NA		NA
11209	724.4	317.4	97.2	270.2	147.7	NA	NA		NA
11210	228.5	382	374.9	88.5	ND	NA	NA		NA
11211	NA	97.8	74.5	384.2	247.3	NA	97.2	F2	39.1
11212	206.1	85.8	129.4	176.4	210	NA	NA	B2	386
11213	259.5	258.5	121.7	96.9	110.7	NA	NA		NA
11214	252.3	172.8	90	107.8	70	NA	NA		NA
11216	410	272.1	NA	780.6	288.3	530.3	NA		NA
11218	104	161.3	131.1	116.5	65.4	NA	56.9		NA
11219	240.5	181.5	274.5	215.2	102.9	NA	NA		NA
11223	98.2	38	102.1	38.5	66.4	NA	194.3		NA
11224	788.4	195.8	93.7	613.6	237.6	344	260.2		NA
11226	361.6	201.9	224.4	117.2	132	147.3	NA		NA
11229	47.6	44.1	92.9	32.8	45.7	NA	NA		NA
11234	117.9	72.4	120.7	40.8	84	38.6	NA		NA
11235	87.1	152.3	329	135.1	222.5	NA	NA		NA
11237	46.5	42	44.3	35.3	18.5	NA	NA		NA
11240	79.7	334.6	NA	118.5	174.4	NA	NA		NA
11241	59.7	39.1	31.4	26.7	47.7	NA	NA		NA
11245	ND	40.4	22.4	33	69.4	NA	NA	F2	36.6
11248	NA	323.1	580.4	171.5	299.9	279.8	NA		NA
11251	125.5	187.7	160.5	87	87.2	NA	NA		NA
11252	38.4	34.1	86.3	35.4	27.2	NA	26.3		NA
11259	179.3	190.4	410.8	179.4	116.8	NA	NA		NA
11261	NA	361.2	231.6	405.4	311.6	NA	NA		NA
11262	83.3	67.3	46.8	49.6	36.6	42.3	77.3		NA
11263	616.8	184.4	193.6	167.8	240.4	NA	124.9	Play	155
11265	276.6	103.4	56.7	NA	26.6	NA	NA		NA
11267	224.2	293.7	219.3	176.4	211.7	NA	NA		NA
11270	216.9	103.2	81.8	105.9	71.7	NA	NA		NA
11274	ND	144.6	123.1	92.4	ND	NA	ND		NA
11276	42.3	77.1	60.3	76.6	61.2	NA	63.8		NA
11279	83.6	93.6	79.6	54.2	441.1	NA	NA	F1	646
11281	2026.3	820.2	745.9	166.3	432.9	NA	NA	B1	189
11282	145.1	138.9	371.5	44.1	26.1	NA	92.8		NA
11285	1649.6	139.7	218.8	589.6	558.4	NA	NA		NA
11287	55.4	87.6	72.9	60.8	51.4	27.6	41.7	F1	100
11292	176.9	346.6	228.8	205.6	112.6	NA	NA		NA
11296	533.3	122.5	182.3	229.3	187.9	NA	92.3		NA
11298	591.2	182.5	246.6	123.7	302.2	NA	NA	B1	148
11300	82.3	97.4	94.1	137.3	179.7	138.7	NA		NA
11310	ND	ND	101.4	88.5	ND	NA	NA		NA
11311	182.2	561.2	150.1	199.3	334.2	267.7	NA		NA

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Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
11319	210.2	93.7	365.2	109	136.5	NA	NA		NA
11323	NA	796.4	83.6	100.1	80.4	NA	NA		NA
11327	NA	269.3	186.4	216.1	304.7	NA	NA		NA
11331	431.5	441.2	682.9	613	397.5	NA	NA		NA
11332	494.1	64.9	108.7	397	255.8	167.8	437.6		NA
11336	232	236.4	158.5	257.3	210.9	NA	NA		NA
11345	264.6	144.1	233.6	156.6	660.8	213.6	NA		NA
11350	103.8	68.9	141.8	90.2	93.9	NA	156.8		NA
11352	NA	138.4	394.1	158.8	236.5	NA	223.2		NA
11354	562	78.2	153.4	119.7	54.1	NA	NA		NA
11356	119.9	27.5	57.8	78.8	81.5	NA	NA		NA
11364	2529.6	570.8	780.4	514.4	1129.6	NA	NA		NA
11369	1058.6	505.3	476.8	690.1	368.2	NA	NA		NA
11370	462.5	205.1	175.6	188.2	249.3	NA	NA		NA
11374	43.7	35	97.1	39	41.1	NA	NA		NA
11379	ND	53.1	ND	76.5	ND	NA	NA		NA
11380	NA	161.8	239.8	NA	418.7	NA	NA	B2	598
11382	33.3	13.3	ND	34.7	40.1	NA	NA		NA
11383	811.2	1060	524.8	456.4	330	NA	NA		NA
11386	64.7	67.4	39.5	67.2	27.3	NA	43.1		NA
11388	1403.9	89.8	339.3	178.5	87.4	NA	NA		NA
11390	NA	30.3	36.1	24	43.6	NA	NA		NA
11392	172	171.8	152.8	62.7	106.1	NA	NA		NA
11396	74.2	39.8	59.7	48.3	40	38.8	53.1		NA
11397	371.8	294.1	348	285.3	469.9	NA	NA		NA
11398	1600.1	157.3	658.2	228.3	660	NA	267.8		NA
11401	48.8	85.3	65.4	37.6	32	NA	58.1		NA
11404	62	42.7	34.5	48.2	180.7	NA	NA		NA
11405	76.1	201	91	80.9	76.2	NA	NA	F1	116
11406	1316.3	495.6	1600	84.7	137.3	NA	NA		NA
11409	109.9	42.6	41.9	68.6	44.5	NA	NA		NA
11411	99.5	29.4	85.3	73.1	35.8	NA	NA		NA
11412	972.8	369.6	452.4	210.6	253	NA	203.8		NA
11413	34.6	57.8	53.7	45.6	62.4	75.9	NA		NA
11420	123.2	155.3	182.4	169.8	75	NA	NA		NA
11425	NA	270.9	168.8	127.6	NA	NA	328.2	Play	375
11426	NA	224	83.7	141.6	170.1	NA	NA		NA
11428	131.7	145	254.9	68.2	283	NA	NA	F2	293
11429	414	216.6	590.4	208.6	804.4	NA	NA		NA
11430	159.1	77	76.1	285.6	51.2	NA	NA		NA
11433	39.8	45.3	50.7	46.2	83.4	NA	NA	B2	90.2
11434	37.8	22.4	36.8	34.9	34.5	NA	NA		NA
11437	302.6	233.9	175.3	69.8	255.8	NA	NA		NA
11438	52.9	26.8	57.2	ND	65.8	ND	NA		NA
11446	904.9	297.5	201.4	219.1	287.2	NA	NA		NA
11447	231.8	174.8	141.3	198.3	153.6	256.1	NA		NA
11448	205.8	80.1	248.9	195.2	106.2	NA	NA		NA
11452	175.6	NA	95	111.3	29.6	26.7	NA		NA
11458	1098.5	199.5	142.4	767.4	250.2	NA	329.7	Play	415

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
11460	45.6	51.8	71.8	64.6	72.3	NA	NA		29.4
11462	833.4	65.9	249.6	51.6	93.1	NA	NA		NA
11464	869.2	290.8	164.6	94.2	92.7	96	NA		1280
11472	299.2	244	94	303.6	144.2	NA	NA		NA
11476	29.9	37.2	59.8	72.1	50.8	NA	NA		NA
11478	53.9	48.9	33.5	41.5	38	NA	NA		NA
11479	823.5	335.4	137.9	456.9	505.6	NA	NA		NA
11480	27.1	67.8	28.9	43.9	34	NA	NA		NA
11483	246.4	76.5	114.6	198.5	103.6	NA	NA		NA
11484	49	40.9	37	35.9	31.9	NA	NA		NA
11486	153.3	102.7	91.9	80.9	49.8	NA	NA		NA
11489	43.5	81.3	50.2	68.5	75.3	39.1	NA		NA
11493	40.2	42	41.6	88.1	69	NA	NA	F1	54.7
11495	999.2	243	131.1	261.6	170.9	NA	NA		NA
11496	45.9	65	34.5	72.2	21.9	NA	NA		NA
11497	6128	220.2	234	235.6	274.4	NA	NA		NA
11499	64	72.2	75.1	41.7	53	27.7	NA		NA
11504	1335.8	318	449.3	242.8	507.9	NA	NA		NA
11506	NA	406.7	92.5	222.9	115.8	NA	NA		NA
11508	NA	124.6	239.3	271.5	226.4	200	NA	Garden	246
11511	124.7	120.3	160.6	93.2	99.8	NA	NA		NA
11513	1662.6	367.7	429.4	453.3	1261	NA	NA		2740
11515	267.2	122.5	102.8	209.3	207.9	NA	NA		NA
11516	112.1	105	46	37.4	53.1	59.5	NA		NA
11517	300	143.2	431.8	NA	669.7	NA	544.2		NA
11518	302.3	185.6	319.7	213.6	122.6	NA	NA		NA
11519	123.1	165.3	115.8	204.4	128.4	NA	NA		NA
11520	21.5	72.9	46.6	34	25.5	NA	36.7		NA
11521	61.9	25.6	70.2	90.5	37	113.2	NA	F2	69.1
11525	64.4	62.1	61.2	52.2	30.2	NA	NA		NA
11534	102.2	792.8	106.6	123.1	71.7	NA	NA		NA
11535	NA	286.4	193.5	305.5	210.2	NA	NA		NA
11541	125.9	124	221	142	200.8	NA	NA		NA
11542	171.3	104.4	124	99.7	77.4	NA	NA		300
11544	NA	204.3	476	NA	NA	NA	NA		NA
11546	326.3	189.9	215	104.8	72.9	NA	NA		NA
11549	597.2	208.8	184.4	802.9	258.1	NA	NA		NA
11555	838	450.9	546.3	175.4	488.8	NA	NA		NA
11556	497.4	213.2	294.5	119	138.5	NA	NA		NA
11564	NA	139	111.6	169.6	315	NA	NA	B1	164
11570	116.1	81.2	139.5	105.1	100.1	59.9	85.8		NA
11573	1230.6	438.5	243.4	298	251	123	180.7		NA
11576	226.3	72.8	241.2	57.9	265	49	NA		NA
11578	80.9	58.6	164.8	82.1	24.7	NA	NA		NA
11579	1697.8	271.8	291.8	326.2	290.8	NA	NA		NA
11581	388.4	116.6	103	246.2	301.3	NA	NA		NA
11586	125.8	35.6	102.4	119.9	65.5	NA	105.6	F1	41.7
11587	74.8	49.2	44.3	118.4	51.1	28	NA		NA
11588	92.7	38.4	56.3	ND	45.8	NA	NA		NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
11590	836.7	200.4	172.9	677.4	139.2	NA	NA		NA
11591	1989.4	249.1	485.7	120.9	174.3	NA	199	Play	241
11594	283.1	366.5	397.6	208.2	215.9	NA	NA		NA
11595	2416.6	173.6	651.7	667.6	240.5	1289.2	NA		NA
11596	294.8	97	145	ND	213.4	NA	NA	B1	62.5
11597	655.8	51.6	411.5	NA	208.7	NA	NA		NA
11598	NA	302.1	168.6	107.7	168.2	NA	NA	F2	194
11605	616	72.9	103.2	146.4	112.1	NA	NA		NA
11610	529.6	271	197	180.8	149.7	NA	172.2		NA
11611	96.2	54.6	29.6	85.7	46.3	NA	NA		NA
11615	119.1	63.5	118.5	232.8	372.4	NA	NA		NA
11619	596	141.8	116.9	75.5	158.9	104.5	NA		NA
11622	62.5	108.8	61	50.5	60.4	54.4	44.5		NA
11623	3465.2	222.7	620.5	250.1	152.5	NA	NA		NA
11624	3728	164.1	105.6	191.5	1220	NA	NA		NA
11627	NA	145.3	415.5	162.3	95.6	NA	NA		NA
11628	351	ND	145.8	124.5	163.3	78.2	NA		NA
11629	125.9	40.5	52.1	67.7	34.8	51.7	NA	Garden	55.2
11630	327	164.9	126.6	137.5	58.2	66	NA		NA
11636	344.5	459.2	269.2	207.5	135	NA	NA		346
11641	344.3	172.6	72.1	152.7	187.7	NA	NA		NA
11643	664	327.6	82.6	230.8	97.2	NA	NA		NA
11648	75.9	120.9	88.5	100.7	55.7	NA	NA		NA
11651	220.6	308	188.5	183.9	151	NA	121.9		NA
11652	30.6	51.2	36.2	103.6	25.9	62.8	NA		NA
11653	96.3	149.9	338	110.6	141.2	85.6	NA		NA
11659	NA	143.2	82.8	40.5	79.8	NA	NA		NA
11663	110.2	ND	44.3	66.1	54.3	44.1	136.6		NA
11668	6047.1	132.4	278.3	221.1	270.3	NA	NA		NA
11669	891.9	428.6	1026.1	422	1066.9	NA	NA	B1	586
11674	1222.9	572.4	411.6	153.2	518.4	188.6	378.7		NA
11677	125.3	99.3	77.9	130.6	75.9	82.2	NA	F1	68.7
11682	129.6	71.3	100.8	156.7	73	NA	NA		NA
11683	NA	83.2	401.2	275.6	98.6	NA	NA		NA
11684	368.1	45.4	480.9	365.1	214.1	NA	NA		NA
11688	2040	872	506.8	97.7	616.8	NA	NA		NA
11690	336.2	89	72.5	72.2	107.2	NA	NA		NA
11693	2988.8	745.6	242.6	760.4	280.6	NA	NA		NA
11695	243	135.1	247.5	101.6	NA	225.7	NA		NA
11699	NA	173.4	732	227.5	338.1	180.2	NA		NA
11703	2290.4	172	238.2	163.3	240.4	111.6	NA		NA
11709	1040	485.6	97.2	293	75.4	NA	NA		NA
11723	627.8	95	451.5	131.5	203.4	130.2	NA		NA
11730	812	336.5	554.6	82.4	130.2	NA	399.5		894
11731	158.2	86	156.3	247.5	172.1	NA	NA		NA
11732	267.2	93.9	310	91.4	89.8	79.3	NA		NA
11733	772.3	715.3	503.7	865.8	1271.5	NA	816.8		NA
11738	107.1	173.9	303.1	214	514.3	NA	NA		NA
11743	297.8	563.9	656.8	177.1	45.4	NA	NA	F2	830

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
11745	115.7	147.8	34.7	44.3	52.1	NA	18.4		NA
11750	81.4	50.9	48.2	51	56.1	NA	NA		NA
11760	31	72.9	72.9	62	46.6	NA	NA		NA
11763	NA	48.6	47.8	NA	34.1	NA	NA		NA
11764	78.6	90.5	145.4	149.8	111.4	165.8	NA		NA
11767	48.7	67.9	65.2	45.5	103.6	NA	NA		NA
11770	33.8	ND	35.2	58.6	28	NA	NA		NA
11773	346.4	267.3	484.3	141.4	432.9	NA	253.7		NA
11780	584.9	324.4	244.5	797.2	173.4	NA	NA		NA
11783	97.7	73.3	54	ND	59.4	68.5	NA		NA
11784	89.9	97.4	95.7	133.3	173.7	NA	NA		NA
11787	60.5	43.3	ND	60.8	46.7	NA	NA		NA
11788	750.3	150.8	101.3	352.4	299.4	NA	NA		NA
11789	1060	218.6	257	132.2	368.4	NA	NA		NA
11791	98.2	127.4	200	86.7	140.2	44.2	85.2		NA
11792	232.7	121.8	155.1	170.2	104.2	NA	NA		NA
11797	147.6	76	213.9	86.8	214	67.8	NA	F1	105
11800	452.6	153.8	254.2	184.5	170.4	NA	149.6		NA
11805	82	54.4	52	119.6	78.1	NA	NA	B2	53.9
11806	NA	152.2	88.9	62.7	542.3	NA	NA		NA
11808	444.6	311.6	409.9	387	100.3	272.8	NA		NA
11811	1721.7	436.7	529.3	276.7	239.2	NA	1993		NA
11812	169	153.4	104.8	143.3	99.3	NA	78.2		NA
11814	245.8	68.7	115.6	251.8	183.6	NA	NA		NA
11815	1623.5	260.3	227	365.3	194.5	NA	150.6		NA
11818	370	192	182	275.8	201.8	NA	121.5	F1	215
11820	332.6	187.1	113.7	169.6	143.1	242	NA	Garden	238
11823	175.2	190.6	135.3	97.7	109.9	NA	NA		NA
11825	2002.1	134.3	771	246.5	182.5	NA	NA	B1	308
11827	45.3	117.4	121.4	139.8	91.7	NA	NA		NA
11830	141.4	247.6	140.8	109.2	381.3	NA	NA		NA
11837	58.3	59	36.8	62.2	44.6	NA	NA		NA
11840	624	161.9	160.5	117.7	247.7	165.5	NA	Garden	191
11843	1953.9	130.8	326.7	187.8	230.1	NA	NA		2260
11844	635.3	161	37.7	64.1	85.9	125.9	NA	Garden	159
11846	77.1	67	143.3	91.4	94.3	NA	NA		NA
11848	247.5	81	87.6	134.4	60.9	NA	NA	B1	137
11856	265.2	105.8	385.8	243.8	334	452	NA	Garden	512
11859	216.8	187.6	145.6	151.8	155.7	NA	NA	F1	169
11869	199.5	342.8	237	333	414.8	NA	NA	F1	337
11870	NA	571.8	542.7	NA	128	NA	NA		NA
11871	428.6	185	348.9	382.7	307.3	NA	NA		471
11872	NA	131	22.7	NA	105.7	NA	NA		NA
11874	1436.5	695.6	1338.6	965.3	459.1	NA	NA		NA
11876	1777.2	274.9	399.7	456.3	403.6	NA	NA		NA
11877	130.6	144.9	133.5	236.3	91.8	29.4	NA		NA
11878	331.5	188.6	251	275	427.5	367.5	NA	Garden	319
11879	476.4	109.1	299	129.9	158.5	NA	148.8		NA
11882	976	478.4	227.8	782	125.6	NA	NA		NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
11884	366.7	258.5	253.7	278.1	200.7	NA	NA		NA
11886	2809.6	356.4	551.2	330	788.8	NA	NA		NA
11895	199	103.2	114.6	56.5	101.5	NA	NA		NA
11901	357.2	345.8	167.2	412.8	175.7	NA	NA		NA
11904	40.4	104.8	86.5	184.9	61.4	NA	NA		NA
11906	1923	395.7	203.3	197.4	324.6	NA	NA		NA
11909	91.4	90.3	143.6	90.5	127.9	NA	NA		NA
11912	5798.4	766.8	1549.6	555.6	628.8	NA	NA		NA
11913	81.6	118.2	77.9	173.9	112.5	151.6	NA		NA
11914	297.9	469.4	473.7	230.3	97.7	77.8	NA		NA
11915	145	129.5	144.9	138.1	229.1	NA	NA		NA
11918	515.7	625.2	104.6	232	165.3	129.2	NA		NA
11920	315.4	177.1	137.6	374.9	55.2	NA	118		NA
11921	786.4	258.8	191.1	260.4	230.2	NA	NA	F1	301
11923	453.1	110.8	59.2	199.3	127.5	NA	161.8	F1	114
11924	113.4	71	53.7	85.5	101.5	NA	NA		NA
11931	691.6	139	166.1	94.2	168	NA	NA		NA
11936	82.5	89.4	246.2	133.8	94.9	NA	NA		NA
11937	613	110.6	340.9	392.2	134.9	NA	98.3		NA
11942	1176.6	459.6	803.5	232.5	512.8	NA	NA		NA
11950	180.8	378.5	206.1	228.9	320	180.9	NA		NA
11953	NA	53.3	77.1	102.5	129.6	NA	NA		NA
11955	3587.9	233	297	340.8	576.8	693.4	NA		NA
11956	49.6	177.8	228.2	100.3	152.5	NA	NA		NA
11957	1369.6	203.1	529.6	189.9	669.6	NA	NA		NA
11959	20.3	172.3	168.1	185.8	160.9	NA	NA		NA
11961	518.4	313.4	164	311.2	117.8	NA	NA		NA
11965	516.6	470.7	124.3	131.4	580.7	NA	43.1		NA
11966	740	144.5	171.3	180.2	348.4	NA	NA		NA
11969	798.4	182.5	236	194.7	222.8	ND	NA		NA
11971	437	162.8	201	224	246	NA	194.6		NA
11976	141	223.1	122.2	153.5	171.2	934.4	NA		NA
11977	92.5	122.7	96.4	199.8	183.9	NA	NA		NA
11979	904	143.9	189.2	470.4	217.8	100.1	NA		NA
11980	2880	216.6	749.6	242.6	1149.6	NA	NA		NA
11981	256.6	133	221.8	NA	NA	NA	NA		NA
11988	259.5	598.5	251.6	374.4	111.2	NA	NA		NA
11992	144	430	415.6	119.1	185.6	NA	NA		NA
11995	454.2	151	140.9	102.4	339.3	332.2	NA	Garden	668
11996	192.7	194.6	220.5	189	222.9	NA	NA		NA
11999	180.6	62.8	220.3	111.6	87.2	NA	NA	B1	179
12000	36.9	111.9	39.1	71.7	54.8	NA	NA		NA
12001	837.6	97.6	338.4	346	478.4	360.4	NA		NA
12003	1272.5	151.1	213.5	79.9	288.4	NA	NA		NA
12004	91.1	60.1	52	38.8	55.5	NA	NA	B2	44.7
12018	NA	221.4	180.5	147.8	152.1	NA	NA		NA
12021	91.2	115.6	127.3	64.7	48.5	NA	NA		NA
12022	139	96.1	142.5	81.8	98.2	NA	NA		NA
12023	1469.6	99.6	159.2	182.2	1020	NA	NA		NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
12024	573.2	93.7	226.2	370.8	227.8	NA	NA		NA
12034	722.5	151.8	107.6	159.8	NA	NA	NA		NA
12043	122.3	170.1	212.6	95.5	80.9	NA	NA		NA
12046	750	207.2	174.4	1012.5	312.2	NA	NA		NA
12048	949.6	144.6	635.2	415.2	736.4	NA	NA		NA
12049	71.4	138.8	156.1	73.2	63.5	NA	NA		NA
12050	52.3	42.9	71.7	59.5	56.2	NA	49.6		NA
12052	120.8	104.9	60.1	120.8	123.9	NA	NA	B2	182
12059	53.1	97.5	279.4	83.2	273.9	NA	NA	F2	314
12060	392.1	85.9	136.8	427.6	188.7	NA	NA		NA
12061	122.2	84.1	132.4	119.2	94.8	98.5	NA		NA
12062	29.4	184.4	56.2	28.7	160.8	54.8	93	B2	119
12063	62.8	176.7	81.6	111.1	96.6	NA	NA		NA
12064	ND	85.9	NA	ND	ND	NA	NA		NA
12067	78	229.6	37	129.9	82.9	NA	40.3		NA
12068	NA	329.2	526	322.2	553.6	NA	NA	F1	401
12069	133.2	ND	ND	ND	146.9	ND	NA		NA
12078	513.9	75.8	157.6	46	80.2	136.5	NA		NA
12079	78.9	ND	128.4	ND	93	63	NA		NA
12080	337.8	80.9	80.1	77	58.6	94.8	154.8		NA
12081	340.4	95.7	181.6	69.4	275.2	NA	NA		NA
12084	206.4	92.7	131.3	98.1	110.8	NA	NA		NA
12085	155.7	380.3	115.2	75.3	NA	NA	NA		NA
12087	446	152.5	178.2	159.5	221.1	NA	NA		NA
12088	560	82	73.4	60.4	62.2	NA	90.7		NA
12089	634.4	268	76.9	112.7	110.7	NA	NA		NA
12093	258.1	669.7	229	79.9	369.1	NA	NA		NA
12095	60.6	212.9	80.8	152	248.9	NA	NA		NA
12096	37.5	16.1	36.2	170.5	47.5	NA	NA		NA
12097	594.9	419.3	389.2	475.1	237.8	NA	NA	B2	251
12098	101.1	63.8	103.5	153.5	89.7	80.5	NA	F1	73.8
12099	4095.3	272.9	441	206.8	144.1	NA	499.3		NA
12103	517.2	64.8	122.5	230	172	NA	NA		NA
12104	547.9	219.2	223.6	76.5	76.3	76.4	NA	B1	71.2
12105	318.4	498.7	550.6	113.4	208	NA	219.1		NA
12106	589.7	126.5	540	249.5	252.1	NA	NA		NA
12107	NA	190	336.2	54.5	350.6	NA	590.4		NA
12111	474.8	150	192	516	196.7	NA	409.6		NA
12112	435.2	101.2	79.2	NA	NA	NA	NA		NA
12113	2160	34.5	76.5	316	94.7	49	NA		NA
12115	940	115	122.4	109.3	95.9	NA	NA		NA
12117	1269.6	374.2	149.4	277	127.1	216.8	NA		NA
12119	239.8	101.5	134.8	47.3	NA	NA	NA		NA
12122	605.3	34.8	85.7	88.2	64.1	NA	NA		NA
12125	29.7	69.8	51.6	61.3	34.9	NA	NA		NA
12127	105.5	442.2	83.7	67.1	29.6	NA	NA		NA
12129	166.1	64	40.9	153.7	73.4	39	45.6		NA
12131	39.2	85.4	42.8	30.3	72.1	47.3	NA	Garden	37.9
12132	239.6	61.3	53	108	65	125.5	NA	F1	69.3

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
12135	241.4	414.3	329.3	155.3	245	85.8	NA		NA
12136	48.1	87.1	64.2	40.3	36.5	NA	NA	B1	59.8
12140	99.9	59.2	54.5	189.6	184.5	55.6	45.4		NA
12144	77.5	67.3	92.3	97.7	31.4	33.4	NA		NA
12154	115.6	ND	163.4	ND	110.8	NA	NA		NA
12155	94	64.3	50.9	49.6	107	NA	NA		NA
12156	213.6	104.1	60	141	128.9	NA	92.5	Play	109
12167	422.8	246.8	294	142.9	229.2	190.2	NA	Garden	193
12168	140.4	44.8	136.2	48.7	36.6	19.7	NA		NA
12176	453	799.1	993.6	362.2	734.3	NA	NA		NA
12182	1389.8	615.6	373.4	NA	NA	NA	NA		1440
12184	70.1	147.6	120.9	173.2	276.1	NA	NA		NA
12185	184	60.1	51.3	70.6	89	NA	NA		NA
12191	164.3	266.8	250.7	144.9	140	NA	123.9		NA
12195	99.9	141.2	51.4	64	26.7	NA	52.3	Play	54.2
12198	NA	79.9	77.5	53.9	NA	NA	NA		NA
12199	84.6	86.4	92.9	100.9	47.6	NA	NA		NA
12208	1480	478.4	294.2	228.6	208	NA	267		NA
12211	243.7	242	194.8	NA	NA	NA	NA		NA
12214	998	81.3	109.4	218.4	93.1	NA	NA		NA
12215	884.9	395.5	293.2	751.5	607	NA	NA	B1	673
12217	766	177	52.9	71.9	104.7	NA	NA		NA
12221	202.8	86.5	NA	49	77.8	74.6	214.6		NA
12223	247.3	NA	173	115.1	368.4	181.3	NA		NA
12224	72.2	150	51.3	132.4	90.1	NA	NA		NA
12225	622.3	710.1	376.4	136.2	2463.9	NA	NA		NA
12226	1135.8	354.7	241.1	512.9	130.4	NA	NA	F2	302
12229	1919.7	886.8	314	303.7	229.5	NA	NA	B1	324
12236	3155.9	733.7	447.1	499.4	1487.9	NA	NA		NA
12240	111.8	48.6	64.7	106.2	134	NA	94		NA
12241	1029.6	86.5	64	219	296.2	NA	NA		NA
12242	759.6	229.4	216.7	NA	791.2	NA	NA		NA
12245	177	147.9	142	76.1	61	65.8	NA		NA
12247	188.9	138.1	109.1	144.5	214.2	NA	NA		NA
12250	129	4108.8	108	95.8	104.8	388.2	82.6	Garden	748
12252	73.8	52.3	94.1	56.7	108.4	NA	NA		NA
12253	2020.8	255	1268	436.3	634.1	NA	NA		NA
12255	44	17.9	46.2	46.3	55.7	NA	NA	B2	47.4
12258	984.5	336.9	112	98.7	132.8	NA	NA		NA
12260	794.8	322.2	286.6	476.8	300.6	264	NA		NA
12261	62.6	64.9	65.8	61.8	44.6	51.6	NA		NA
12262	311.6	87.5	678	178.7	332.2	NA	NA	F2	741
12267	543.8	1064.7	562.9	101.5	165.8	NA	NA		NA
12272	39.4	59.1	129.2	70.9	274.6	50.2	NA	B2	375
12273	1613.2	224.9	482.2	623.4	360.8	NA	NA		NA
12276	10017.1	821.8	114.3	439.3	232.3	NA	NA		NA
12278	78.1	61.7	56.4	58.7	59.2	NA	NA		NA
12279	305.1	200.1	169.2	227.7	83.8	84.3	NA		NA
12281	194.6	243.1	103.1	563.8	262.8	NA	190.3	Play	179

Appendix A
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Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
12283	173.7	134.5	98.5	110.5	176.6	136.4	NA		365
12295	548.1	91.2	111.9	237.9	383.9	NA	NA		NA
12299	794	556	110.5	1529.6	548.8	700.4	NA		NA
12301	3855.8	95.7	230.1	171.7	678	NA	NA		NA
12304	172.2	58.5	36.9	145.3	198.3	NA	NA		NA
12305	182.4	75.2	58.3	94.4	90.9	NA	76.9		NA
12306	265.4	115.8	390.2	57.8	81.4	NA	NA		NA
12307	1324.6	569.4	462.1	181.2	103	NA	NA		NA
12308	141.1	89.9	81.8	93.9	147.1	127.7	77.7		NA
12312	72.8	43.5	46.7	54.3	NA	NA	NA		NA
12317	1062.4	294.9	279.9	490.5	253.3	NA	873.5		NA
12321	1640	344.2	1280	NA	NA	NA	NA		NA
12322	1515.6	438.2	239.2	1713.7	506.3	NA	NA	F1	436
12323	115	223.2	206.7	232.8	128.4	86.5	NA		NA
12327	4009.6	255	456.8	231.8	228.6	NA	NA		11800
12328	5399.6	141.1	388.8	334.1	945.5	NA	NA		NA
12329	298.8	124.7	182.2	219.2	178.2	NA	212.6		NA
12333	160.7	40.9	39.5	78.5	65.1	33.3	NA		NA
12335	NA	27.1	81.4	119.4	52.3	90.3	NA		NA
12336	115.9	56.7	62.8	44.1	81.9	NA	NA		NA
12339	394.1	126.5	234.3	123.2	578	NA	291.1		NA
12343	44.3	75.8	81.2	86.9	33.7	NA	NA		NA
12346	110.3	38.9	65.4	62.8	63.8	38.9	NA	F1	54.6
12347	100.3	56.6	121.7	165.4	101.6	NA	110.9		NA
12355	358.6	262.2	32.4	279.9	325.6	NA	296.8		NA
12363	NA	196.1	152.8	74.1	NA	174	NA		NA
12366	135.2	48.1	72.2	36	61.2	NA	NA		NA
12368	182.3	207.8	114.9	128.8	330.2	NA	NA	B2	282
12373	ND	111.8	88.8	ND	98.9	NA	NA	F2	86.5
12374	129	237.1	142.4	359.4	74.1	NA	NA		NA
12377	249.7	167.4	47.8	91.4	345.4	207.5	NA		NA
12378	226.4	131.7	55	96.7	97.2	NA	100.2	Play	111
12379	148.7	94.1	105.2	189.2	140.5	NA	NA		NA
12380	25.3	136.3	223	124.4	132.4	NA	30.3		NA
12381	175.6	81.8	47.8	115.5	133.5	103.6	NA	B1	168
12385	98.6	88.2	140.2	104	67	NA	NA		NA
12386	127.1	126.2	72.1	146.1	178.7	72.3	NA		118
12390	40.9	51.1	30.5	52.6	49.5	NA	36.2	Play	29.8
12391	536.2	120.6	192.1	507.5	318.8	NA	NA		NA
12393	1153.7	725.3	125.2	214.2	2192.1	NA	NA	B1	479
12394	145.5	140.7	112.1	183.9	72.1	NA	NA		NA
12395	35.6	85.8	204.6	43.7	78	76	61.9	B1	51
12399	1967.5	332.7	212.7	517.7	352.2	NA	NA		NA
12400	125.4	199.2	176.1	117.5	188.5	NA	NA		NA
12401	699	415.5	135.8	160.4	101.5	109.4	NA	Garden	82.6
12403	92.4	103.5	50.5	187.1	91.2	NA	117.2		NA
12404	551.7	483.3	303.3	164.6	240.5	NA	198.7		NA
12405	NA	NA	36.2	NA	89	NA	NA		NA
12406	NA	514.8	229.1	261.3	983.3	NA	NA		NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
12408	541.1	256.8	256.6	465.2	876	NA	1025.4		NA
12409	72.5	65.9	60.3	99.4	NA	NA	NA		NA
12422	495.8	183.2	167.6	133.4	101.3	38.6	NA		NA
12426	326.4	232.6	234.2	291.8	162.3	NA	NA		NA
12428	358.3	591.2	248.6	108	183.9	NA	NA		NA
12429	83.2	90.3	143.2	45.2	87.7	NA	NA		NA
12430	NA	293.9	122.6	141.9	377.3	NA	NA		NA
12431	604.2	424.2	384.1	343.2	407.4	NA	NA		NA
12432	119.8	92.1	77.3	57.9	78.6	NA	NA		NA
12437	286.8	62.2	45.2	71.6	133.1	NA	60.4		NA
12440	137.6	564.3	124.8	280.1	48.1	NA	NA		NA
12443	539.8	234.5	228.7	155.7	108.1	NA	NA		NA
12444	1329.6	177	143.8	277	276.8	NA	NA		NA
12448	268.2	58.6	120.8	72.5	164.3	NA	NA		NA
12451	868.3	226.3	297.4	508.8	286.3	NA	NA	B1	582
12453	54.9	61.2	38.9	115	43.5	NA	NA		NA
12460	1320.8	469.3	343.4	240.4	409.4	NA	NA		NA
12465	366.6	93.9	93.4	188.7	188.1	454.6	162.7	B1	185
12469	341.8	95.7	402.9	305	153.1	NA	NA		NA
12472	1792.4	111.3	691.2	209.4	596.4	444.5	NA		NA
12476	912	460.5	285	139	1142.8	NA	NA		NA
12478	911.8	118.3	193.2	243.1	188.5	NA	254.6	F1	118
12485	282	56.5	90.5	79.2	136.3	NA	NA		NA
12487	40.9	ND	39	62	40.7	NA	54.6		NA
12490	2369.6	118	187	372.6	393.6	NA	NA		2380
12493	241.4	100.6	244.4	293.2	293.6	NA	NA		NA
12494	406	123.2	183.9	285.3	123.2	NA	NA		NA
12495	NA	ND	106.9	73.3	ND	ND	74.2		NA
12498	137.3	80.1	63.8	NA	45.2	NA	NA		NA
12519	236.5	104.7	110.4	48.3	263.1	NA	NA		NA
12520	NA	181.9	694.1	269.1	247.2	NA	NA		NA
12521	1355.7	216	83.2	124.4	52.3	NA	NA		NA
12526	361.8	64.4	228.5	84.3	202.4	NA	263.3		NA
12532	2364.7	1269.8	1394.5	230.8	206.8	NA	NA		NA
12538	115.8	145.2	88	138	139.2	NA	NA		NA
12539	1738.8	156.5	259	137.1	293.7	193.8	440.7		NA
12540	676.1	370.2	200.2	699.2	867.9	NA	NA		NA
12541	13798.4	261	279.2	661.6	66.6	NA	526.4		NA
12543	ND	ND	57.5	ND	ND	NA	NA		NA
12545	205	65.7	81.5	68.7	57.8	NA	NA		NA
12548	384.9	231.2	265.3	154.8	365.7	NA	34		NA
12554	1545.1	199.5	173.2	256.1	122	NA	NA	F2	181
12556	85	85.8	84.3	108.2	116.8	NA	NA		NA
12564	1104	146	254	417.9	224.6	NA	NA		NA
12569	396.1	297.2	562	328.6	30.8	247.5	NA		NA
12571	2348.2	577.7	659.2	157	108.5	NA	NA		NA
12573	224.4	198	767.2	306.6	232	NA	162.3		NA
12576	1500.3	721.9	172	368.2	368.7	593.8	601.8	Garden	1250
12581	292.4	102.9	127.3	159.8	223.4	NA	NA		NA

Appendix A
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Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
12584	92.1	37.4	109.5	27.6	96.4	NA	NA		NA
12586	NA	939.9	263.5	1220.6	642.2	NA	NA		NA
12592	1105.8	196.6	367.8	2085.7	227.8	NA	NA	B1	1740
12600	18.7	37.6	ND	38.9	17.2	NA	ND		NA
12602	28.6	22.9	38.7	56.1	27.7	NA	NA		NA
12603	87	47.7	60.7	60.2	51.5	56.3	NA	B1	61
12614	6743.5	376.7	323.2	185.3	225.7	NA	NA		NA
12615	257.4	361.6	653.9	173.6	268.8	NA	NA		NA
12617	132.7	104.2	179.5	115.4	171.4	198	NA	Garden	317
12618	1056.4	649.6	473.8	258.5	497	NA	NA		NA
12624	2320	137.4	150.2	238.2	274	NA	NA		NA
12626	1985	706.7	710.8	220.1	284.6	NA	NA		NA
12629	1085.9	415.4	660.2	1055.3	689.2	NA	NA	F2	645
12633	33.9	111.1	110.3	59	108.8	NA	NA		NA
12640	60.9	54.4	86.2	45.3	38.9	NA	NA		NA
12642	53.1	46.7	69.6	62	215.4	NA	NA	F2	64
12647	3576.9	581.4	243.2	129.4	237.6	NA	NA		NA
12648	44.1	71.6	52.5	461.5	47.3	71.8	112		NA
12651	89.7	329.4	354	227.4	290.4	NA	332		NA
12654	265.9	595.4	514.1	185.9	226.3	NA	206.3		NA
12655	2169.6	130.9	343.6	186.3	394	NA	NA		NA
12656	323.6	538.4	400.8	192.7	513.6	NA	NA		NA
12657	778.2	180.4	349.9	167.8	254	NA	NA		NA
12663	690.6	265.2	551	449.2	265.2	NA	NA		NA
12665	177.5	233	161.3	359.6	146.1	NA	NA		NA
12671	597.6	166.7	134.3	409.1	136.1	NA	NA		NA
12672	1464.9	429.1	839.6	285.2	363.6	NA	255.1	Play	240
12675	730.1	125.2	410	304.9	338.5	NA	499.8		NA
12676	2219.2	361.4	442.4	177.3	359.4	NA	NA		NA
12677	NA	201.1	378.7	175.3	175.1	NA	NA		NA
12679	590.4	100.4	160.5	152.6	151.1	NA	NA		NA
12682	453.1	357.4	117.1	70.9	90.4	NA	239		194
12683	614.9	158.6	217	90.8	455.6	NA	NA	B1	138
12684	205.2	150.7	353.2	109	83.9	NA	NA	B2	454
12686	927.2	340.2	172.1	269	86.6	NA	NA		NA
12690	638.6	221.9	63.9	120.1	266.7	194.4	NA		NA
12694	187.8	303.2	398.3	267.9	293.9	NA	NA		NA
12695	32.4	106.4	162.9	81.4	32	NA	NA		NA
12696	478	705.6	131.5	472.8	155.9	NA	NA		NA
12697	153.4	90.5	109.3	72.5	130.8	NA	NA		NA
12698	43	95.5	88.2	85.5	88.7	26.7	NA		NA
12699	62	48.5	30	49.7	250.2	NA	NA		NA
12704	81.3	111.6	106.1	105.3	148.7	106.2	NA		75.7
12707	234.2	122	421.6	85.9	298.4	NA	NA		NA
12711	822.8	148	127.8	120.5	346.3	NA	NA		NA
12716	65.8	175.4	111.1	114.5	143.6	NA	114.3	Play	107
12720	78	120.5	120.3	84.2	82.2	NA	NA		NA
12727	660	191.2	259.6	126	NA	271.5	NA		NA
12728	3260.9	860.5	1835.1	4822.7	531.1	466.1	131.4		2760

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Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
12731	1832.9	241.2	273.4	827.7	102.2	624.7	NA		NA
12732	144.3	48.4	100.8	112.7	43.3	51.8	NA		NA
12733	108.7	419.6	148.1	228.7	189.5	NA	353.6		NA
12734	277.4	269.5	220.9	235.7	225.3	142.3	NA		NA
12736	263	264.1	101	90.8	189.1	NA	137.1	F2	148
12739	657.8	296.6	117.3	431	244.7	NA	NA		NA
12745	251.7	287.4	372.4	572	NA	NA	NA	F1	383
12747	NA	98.9	63.6	NA	NA	NA	NA		NA
12751	225.6	253.6	190.5	263.7	239.8	NA	NA		NA
12752	60.1	148	67.6	90.5	81.8	NA	NA		NA
12756	49.6	39.7	66.1	43.2	52.8	40.6	51.8	Play	48
12758	151.4	546.6	193	379.6	285.5	NA	277.9		NA
12759	81.2	133.9	354.4	109.4	189	NA	NA		NA
12760	515.2	114.9	149.2	109.7	101.3	210.4	175.3		NA
12763	37.6	68.3	29.6	119.2	82.2	NA	NA		NA
12765	71.9	53.7	97	63.3	74.2	NA	NA		NA
12773	337.1	338.2	205	118.3	222.7	166.4	NA		NA
12777	3680	691.2	988.8	177.1	251.8	NA	120.4		NA
12782	270	237	123.7	239.6	156.5	NA	NA		NA
12783	9467.2	538.6	202.3	427.6	218.1	NA	NA		NA
12787	168.4	153.1	110.8	109.6	77.8	NA	NA		NA
12791	200.3	243.6	77.2	209	261.6	NA	NA		NA
12796	2046.3	181.2	544.1	191.9	503.3	NA	NA		NA
12799	57.2	48.9	185.8	ND	68.2	54.3	NA		NA
12800	396.1	138.8	153.5	60.7	107.9	NA	109.6		NA
12802	44.4	110.6	ND	132.4	127.1	61.1	NA		NA
12805	ND	60.2	52	63.5	70.7	NA	NA		NA
12806	1153.8	591.1	589	465.9	323.3	NA	NA		NA
12808	315.7	57.6	214.1	486.2	377.5	513	NA		NA
12809	100.9	102	228.8	133.8	180.9	NA	NA		NA
12815	519.2	198.2	85.6	174.9	112.4	NA	NA		NA
12818	1091.8	545.9	247	224.1	384.1	NA	NA		NA
12822	61.6	263	326.4	312.1	253.5	346.4	236.1		NA
12823	657.6	368.2	257.2	228.2	154	388.6	NA		NA
12824	107.1	69.7	73.4	67.1	79.4	NA	NA		NA
12825	38	60.5	60.5	34.5	89.5	55.9	48.2	B1	31.8
12828	988.2	953.5	174.7	273.2	190.8	526	NA		NA
12829	1489.2	392.5	418	422.3	865.3	NA	NA		NA
12834	349.3	281.2	299.1	431.5	884.3	NA	NA		NA
12838	1078.6	704.5	814.2	592.1	253	NA	395.4		NA
12841	1027.1	848.1	808	431.7	220.6	NA	234		NA
12842	429.9	487.3	160.9	100.1	143.9	127.8	NA		NA
12844	95.9	386	156.3	663.4	123.9	33.3	NA		NA
12847	862.4	97.6	438.4	281.9	228.2	NA	NA		NA
12849	57.2	37.6	36.5	29.9	61.8	122.7	NA		NA
12851	467.6	484.5	192.5	492.2	439.9	NA	NA		NA
12853	180.2	234.1	214.3	58.6	152.6	NA	NA		NA
12854	6732.4	353.9	371.9	361.8	1334	NA	NA		NA
12856	648.8	416.2	294.1	557.9	178.6	NA	NA		NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
12857	46.3	67.1	112.3	52.4	154.3	NA	NA	B1	64.6
12861	2671.4	279.5	136.1	175.9	879	NA	NA		NA
12862	119.5	91.3	39.1	31	220.6	46.5	NA		NA
12865	1899.2	175.4	252.6	239.8	350.2	NA	NA		NA
12866	51.7	95.3	86.6	52.1	52.7	58.4	NA		NA
12868	72.7	122.8	166.4	73.6	52.7	72.1	NA		NA
12870	NA	106.2	230.4	615.6	628.3	NA	NA		NA
12872	134	86.8	113.3	77	158.6	87.6	NA	Garden	103
12881	36.7	327.8	231.8	27.4	60.2	NA	NA	B2	59.2
12882	106.3	117.1	97	84.2	86.8	NA	NA		NA
12885	518.8	261.8	207.7	332	307.9	NA	NA		NA
12887	214.5	180.3	205.7	NA	353	NA	NA	F1	144
12888	959.5	245.5	241.8	210.9	44.6	17.2	NA		NA
12889	ND	ND	30.1	ND	33.1	NA	NA		NA
12891	577	110.5	43.5	73.7	133.9	NA	NA		NA
12893	544	74.4	210.6	100.7	288	NA	NA	F1	79.1
12895	670.4	250	415.9	168.3	326.3	NA	NA		NA
12898	676	191.1	135.2	136.9	85.5	214.1	NA	Garden	267
12902	66.5	286.6	93.3	313.6	174.7	85.7	NA		NA
12903	432.4	139.3	187.4	177.8	87	NA	266.8		NA
12904	328.5	226.8	147.6	58.7	49.7	NA	NA		NA
12911	NA	324	74.9	162.5	137	NA	NA		NA
12914	182.5	138.1	652.4	126.6	225.6	NA	NA		NA
12916	275.3	126.4	198.7	119.6	48	NA	NA		NA
12918	278.1	162.4	246	113.5	182.4	NA	138.2	F2	275
12919	217.5	272.6	266.1	65.3	37.4	NA	NA		NA
12925	281.6	178.1	240.9	247.5	217.5	NA	NA	B2	194
12927	642.9	170.3	68.1	314.7	206.7	495.7	238.3	Play	256
12929	830.7	76.3	83.1	72.8	132.1	NA	NA		NA
12931	2589.7	1957.6	303.4	433.8	1227.8	NA	NA		NA
12933	955.6	263.5	145.7	421.5	304.8	NA	NA		NA
12937	552.7	200.5	209.3	NA	183.3	152.1	NA		NA
12940	232	58.8	216.8	91.5	193.5	139.7	NA	F1	104
12941	212.2	51.1	116.4	196.2	322.8	79.6	NA		197
12942	297.4	158.1	220.5	236.2	355.9	NA	NA		NA
12945	115.9	63.7	68.5	56	67.6	NA	63.3		NA
12948	1932.9	90.9	630.1	201.5	234.4	NA	167.9		NA
12952	45.9	99.8	47.1	43.6	28.5	NA	28.4		NA
12953	395.4	232.5	234.5	290.8	385.6	NA	NA		NA
12955	97.8	56.2	24	45.2	32.3	NA	NA	F2	33.1
12956	330.5	509.3	240.3	258.9	270.8	NA	NA		NA
12958	46.3	38.9	129.5	38.4	56	NA	61.7		NA
12959	278.1	140.3	133.1	115.5	98.2	NA	NA		NA
12961	302.1	81.7	47.4	55.5	95.8	54.3	NA		NA
12962	160.2	174.5	146.3	64.5	27.5	53.5	NA		NA
12963	80.8	70.6	83.3	62.6	52.3	NA	NA	B1	52.9
12968	85.9	76.8	79.2	56.5	54.4	NA	NA		NA
12969	120.1	135.5	45.2	75.3	55.3	NA	NA		79.1
12970	113.5	79.8	141.2	101	126.8	NA	81.1	Play	75.8

Appendix A
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Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
12971	73.9	75.4	51.3	56.8	60.9	61.5	NA		NA
12972	1360	299.8	290	207.2	180.6	218.2	NA		NA
12973	92	52.4	54.7	43.6	53.9	NA	NA		NA
12978	378.4	608.8	249.6	455.6	1180	NA	NA	F1	568
12983	1403.6	1030.9	1286.9	207.8	141.8	NA	NA		NA
12989	522	107.7	93.5	234	20.7	NA	NA		NA
12993	247.6	114.8	276.7	414.2	119	NA	NA		NA
12994	41.9	109.3	113.2	36.9	132.1	NA	193.2	F2	117
12996	1214.2	609	189	809.9	228.9	372.8	NA		NA
12997	2308.8	292.4	297	295.8	163.4	NA	NA		NA
13003	346	ND	164.3	157.9	209	NA	NA		NA
13008	NA	210	135.4	230.2	135.2	NA	175.7		NA
13009	317.9	130.3	383.5	56.9	90	78.8	NA		NA
13015	31.4	81.9	104.5	64.9	118.7	NA	NA		NA
13016	14505.5	414.4	792.5	1170.3	8206	NA	NA		NA
13019	1882.5	380.9	158.2	529.2	401.4	NA	NA		NA
13020	NA	133.7	119.7	234.9	97.2	156.2	NA		NA
13021	NA	162.8	158.2	292	197.3	NA	NA		NA
13024	623.4	324	164.1	280	243.2	NA	NA		NA
13026	ND	447	231.8	233.1	183.8	NA	NA		NA
13027	1190.5	148.8	1460.8	200.1	NA	NA	NA		2420
13029	536.5	250.9	213.3	179.8	573.2	NA	NA		NA
13031	317	387.5	277.9	225.7	151.3	NA	237.5	Play	534
13032	86.9	72.6	105.7	55.8	61.1	NA	NA		NA
13040	1685.5	644	759.6	502.8	384.6	NA	NA		NA
13041	193.4	134.3	80.5	132.9	105.9	NA	NA	F2	114
13042	NA	426.3	461.1	433.8	367.7	365.7	253		NA
13046	357.4	186.8	150.9	123.7	214	NA	NA	F2	193
13049	112.5	353.3	162.2	102.3	120.1	NA	NA		NA
13050	84.6	61.7	97.4	157.2	101.7	NA	51.6		NA
13051	916.8	129	327.4	289.8	103	NA	NA	B1	336
13052	112.7	61.6	57.5	92.5	50.5	57.5	NA		NA
13053	164	112.2	163.9	75.5	116.1	NA	NA		NA
13054	77.4	273.9	119.3	70.1	70.5	42.8	NA	B2	64.8
13058	375	215.8	96.4	256.3	190.5	NA	NA	B2	199
13059	64	126	118.3	151.8	74.5	NA	150.1		63.9
13061	784.2	130.3	181.2	331	109.6	NA	NA		NA
13065	67.8	137	67.7	33.9	59.7	NA	NA		NA
13066	154	121.6	458.5	244.7	152.7	NA	NA	F1	110
13072	39.5	81.5	124.3	44.4	68.5	NA	45	F2	121
13075	301.2	187.5	181.7	179.1	156.3	NA	NA		NA
13080	44	69.2	77.9	58.5	40.4	NA	NA		NA
13082	80.7	184.2	214.6	36.5	NA	NA	NA		NA
13083	203.6	105.2	96.2	55.4	74.6	NA	NA		NA
13087	83.3	68.5	43.7	34.6	42.1	NA	NA		NA
13088	79.3	63.7	110.7	43.6	55.8	NA	NA		NA
13089	71.4	234.2	335.2	112.3	69.7	NA	NA		NA
13090	148.8	112.3	139.2	87	202.9	NA	NA		NA
13093	96.2	97.1	69.4	80.1	117.9	NA	NA	B1	98.2

Appendix A
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Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
13095	210.2	231.4	180.2	183.8	108.7	NA	NA	F1	553
13098	714	296.6	94.6	40.1	258.9	NA	NA		786
13099	200.1	103.1	356.8	272.8	383.4	NA	242.5		NA
13100	113	182.9	169.3	75	88.4	NA	88	F1	217
13105	395	388.2	196.3	327.9	NA	NA	NA		NA
13106	98.7	145.5	86.7	155.9	140.9	NA	NA		NA
13112	1071.6	807.9	419	805.1	1297	NA	NA	F2	759
13113	649.1	407.1	471.7	312	494.3	NA	NA		NA
13115	716.3	198.6	358.9	170.8	194.2	224.4	NA		NA
13117	1026.9	231.1	287.4	162.7	346.6	NA	NA		1710
13118	289.2	126.9	130.8	219.2	200	NA	NA		NA
13119	338.6	226	570.2	103.3	125.9	NA	NA		NA
13120	1009.6	163.5	506.4	NA	241	177.9	NA		NA
13123	6089.6	187.5	342.8	99.4	183.2	NA	NA		NA
13124	242	104	89.5	88.9	NA	131.3	NA		NA
13127	193.1	267.9	242.7	247.5	208.9	NA	NA		NA
13130	229.2	275	96.4	203.1	102.4	NA	NA		NA
13134	393.5	97.7	109	138.1	96.1	NA	NA		NA
13135	194.7	249.5	439.9	117.4	400.8	NA	NA		NA
13137	79.8	62.3	81.1	183.9	70.1	NA	NA		NA
13138	544.3	81.6	135.3	256.7	155.8	NA	NA		NA
13139	413.6	145.5	342.6	98.8	86.8	NA	NA		NA
13140	1126.7	110.2	105.1	170.2	158.6	NA	NA		NA
13141	46.4	63.7	51.6	94.8	189.3	NA	NA		43.5
13145	831.1	504.4	NA	248.1	NA	NA	440		NA
13148	256.5	307.2	94.5	283.6	101.2	NA	NA		NA
13149	145	80.4	128	114.5	202.1	130.7	NA		NA
13150	692	337.4	253.6	364.2	165.6	NA	NA		714
13152	143.6	70.8	172.2	NA	68.5	NA	NA	B2	59.5
13156	606.4	315.1	1210.8	649.8	1274.3	NA	NA		NA
13158	128.9	144.9	78.7	172	172.7	NA	NA		NA
13163	38.8	178.8	71.8	85.6	81.8	97	NA		NA
13167	100.8	78.6	121.1	143.7	74.1	NA	NA		NA
13169	91.2	127.8	104.9	190.3	152.6	NA	NA		NA
13171	448.4	195.9	NA	441.8	155.8	NA	NA		789
13172	80.4	97.9	36.7	91.2	61.3	NA	NA		NA
13174	657.1	179.9	156.2	184.7	264.3	NA	NA		614
13180	70.2	104.1	118.1	130	58.8	NA	NA		NA
13181	157.5	78.2	80	27.9	77.1	NA	64.9		162
13183	113.3	164.8	108.9	58.6	89.7	NA	NA		NA
13186	1364.9	291.3	439.2	226.7	273.7	NA	NA		NA
13188	359.4	261	350.5	161	287.8	NA	NA		NA
13196	143	211	214.6	46.3	64.6	NA	NA	B1	35.8
13197	142.7	99.5	122.6	56.1	31.2	NA	NA		NA
13202	916.7	724.1	666.2	170.5	152.6	NA	NA		NA
13203	1349.6	584.8	114.7	424	238	NA	NA		1380
13207	ND	140.3	196.8	104	111.6	NA	NA		NA
13213	137.8	91.9	97.9	116.5	201.5	NA	NA		NA
13214	343	169	46.9	422.4	210	NA	NA		NA

Appendix A
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Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
13215	276	85.5	123.5	37.8	103.3	NA	73	B1	42.1
13216	76.7	153.6	138.5	87	61.3	NA	NA		NA
13219	91.8	123.5	159.2	263	37	54.4	NA		NA
13220	NA	250	164.3	272.2	168	82.1	NA		NA
13221	161.7	68.2	87.5	63.2	98.8	69.4	NA	Garden	41.3
13223	45.3	78.9	57	62	17.9	NA	NA		NA
13236	151.6	97.4	179	80.3	88.7	NA	NA		NA
13238	47.3	30.3	37.3	112.7	56.6	NA	NA		NA
13241	513.2	440	312.8	524	736.4	737.6	NA		NA
13242	442.7	174.5	200.9	111.7	148.8	NA	NA		NA
13243	107.1	55.2	71.4	52.9	57.7	NA	NA	F1	59
13250	116	56.6	82.8	50.2	54.3	NA	NA		NA
13254	123.7	243.7	56.3	58.2	122.6	NA	NA		NA
13256	481.2	376.4	148.7	164.5	318.4	NA	135.4		NA
13257	31	47.4	262.6	57.5	ND	NA	58.3	B2	43.6
13258	576.9	263.5	171.8	339.6	192	326.1	NA		NA
13261	3549.6	159	877.1	1448.2	183.3	NA	NA	B2	206
13265	68.8	102.5	136.1	85.2	89.7	NA	NA		NA
13266	786.1	178.3	394.2	98.4	63.1	NA	NA		NA
13268	1047.1	89.3	103.3	100.6	133.1	NA	NA		NA
13270	108.9	242.2	73.9	70.4	296.3	NA	NA	F2	90.1
13274	328.2	218	231	177.3	262.8	725.2	NA		NA
13275	146.5	89.2	74.8	85.5	206.3	NA	NA		NA
13276	70.3	75.6	75.3	57.8	68	NA	NA		NA
13279	51.1	79.7	177.6	27.6	41.7	NA	NA		NA
13282	316.1	175.3	51.5	88.1	155.9	NA	NA		NA
13286	431.1	196.7	170.1	375.8	736.2	NA	NA		NA
13292	255.8	111.3	98.5	144.1	215.4	NA	NA		NA
13297	NA	78.9	897.4	91.8	147.7	NA	NA		NA
13298	78.3	114.7	87.2	38.7	61.3	82.8	NA		NA
13299	96.7	77.8	53	66	75.3	NA	NA		NA
13300	146.1	115.6	133.7	92.1	181.4	65	NA		175
13301	ND	32.5	99.5	25.2	30.1	NA	NA	B1	36.1
13304	410	168.3	133.3	110.2	175.8	NA	NA		NA
13313	162.1	86	72.4	49.9	94.1	NA	NA		NA
13314	334.1	498.3	168.4	289.4	107.5	NA	NA		NA
13315	213.6	51.3	49.7	51.5	49.4	NA	NA		NA
13316	443.7	107.8	246.1	261.2	109	NA	NA		NA
13319	66.3	132.4	144	37.8	47.3	25.5	45.9		NA
13325	84.1	70.8	81.7	ND	61.1	NA	NA		NA
13327	55.1	103.1	52.7	65.4	63	NA	NA		NA
13330	900.4	288.3	460.5	163.9	152.9	NA	NA		NA
13332	ND	ND	ND	52.5	ND	NA	NA	B1	52.1
13335	1365.1	171.2	369.4	183	123.8	NA	NA		NA
13346	212.1	140.2	179.5	248.7	181.1	NA	188.4		NA
13348	78.4	148.9	47.5	158	104.6	NA	NA	B2	101
13353	1925	98.4	150	425.4	437	NA	NA		NA
13354	116.7	129.7	112.9	78.4	191.2	NA	NA		NA
13356	292.4	67.7	45.6	134.1	139.7	NA	NA	F1	98.5

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Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
13363	587.3	315.4	812.9	416	NA	NA	NA		NA
13365	82.3	63.1	36.8	58	54.3	35.9	NA	Garden	73.9
13366	154.2	55.8	211.1	142.5	127.7	NA	NA		179
13367	84.8	52.6	70.3	68.8	96.4	NA	NA		NA
13368	1106.2	338.2	224.5	199.5	434.6	NA	77		NA
13371	175.9	238.1	225.1	159.9	64.1	NA	NA		NA
13373	34.1	27.3	29	39.2	49.8	NA	NA		NA
13376	24.7	36.7	38.3	35.5	62.2	NA	NA		46.6
13377	38	39.7	89.7	50.8	39.6	NA	NA		NA
13378	2298	297.1	416.2	293.8	397.4	NA	NA		NA
13380	309.2	191.3	175.5	168.2	122.7	NA	151.2	F1	189
13382	ND	68.1	96.6	63.5	77.3	NA	42.1	Play	59.4
13388	64.7	81.6	31.9	44.3	55.8	NA	NA		NA
13392	26.8	44.3	55.2	27.7	28.5	NA	NA		NA
13393	316.6	92.8	222.6	214.2	253	NA	NA		NA
13396	621.9	229.5	94.5	185.9	227.9	208.6	NA	B2	239
13397	395.6	266.3	163.8	143.7	134.9	NA	NA		NA
13398	50.9	49.4	ND	64.4	57.8	33.2	NA	F2	25.1
13401	117.8	101.1	87.6	64.4	41.9	NA	NA	F2	91.9
13402	147.4	107.3	177.3	150	62.4	NA	NA		NA
13404	73.7	30.1	ND	55.4	61.3	NA	NA		NA
13409	72.3	32	46	51.9	62.7	NA	NA		NA
13410	28.7	42.1	44.8	33.4	27.1	NA	NA		NA
13412	123.4	154.7	97.1	210	60.4	NA	NA		NA
13413	1389.5	280.5	540	471.9	177.1	NA	NA		NA
13414	297.8	122.1	98.2	269.8	386.3	2305.3	NA		NA
13416	485.8	626.5	321.9	297.4	419.4	NA	NA		NA
13418	286.4	226.4	185.4	164.2	219.4	NA	NA		NA
13422	513.8	600.5	118.4	289.1	163.7	151.6	NA	B1	287
13424	3250.8	432.1	169.9	258.7	109	NA	NA		NA
13425	78.2	77.8	62.2	33.7	37.3	NA	NA		NA
13426	57.9	50.4	51.4	49.5	33.9	NA	NA		NA
13427	543.6	581.1	289.7	531.6	415.5	NA	NA		NA
13428	429.2	86.5	538	123.5	331	NA	130.5		NA
13430	24.8	43.4	58.3	ND	36.5	NA	NA		34.8
13432	63.8	139	195	ND	36	ND	NA	Garden	42.5
13433	78.4	81.2	73.2	55.9	49.2	NA	NA		NA
13434	674.7	262.9	384.8	248.6	222.9	NA	NA		NA
13435	1743.8	378.9	560.6	NA	2797.5	NA	200.8		NA
13439	100.1	39.2	37.4	56.5	50.6	NA	NA		NA
13441	187.4	69.5	96.2	57	63.4	NA	NA	B1	72.3
13442	114.3	81.1	102.8	124.2	167.3	NA	NA		NA
13443	28.6	50.7	72.5	53.1	30.7	NA	NA		NA
13448	NA	252.6	121.1	199.6	204.3	NA	141.7		NA
13449	400	228.4	162.6	ND	64.3	NA	NA		NA
13453	192.4	141.5	103.1	249.6	378.2	NA	542.8		NA
13461	73.2	105.8	44.1	49.8	40.9	NA	NA		NA
13462	76.9	42	44.3	111.2	70.4	NA	NA		NA
13466	NA	280.9	137.1	173.7	55	NA	91.4		NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
13467	148.8	99.6	163.9	69.9	345.4	NA	43.7		NA
13468	2847.9	587.1	411.6	469.5	517.6	911.9	NA		NA
13470	47.8	86	94.1	206.5	107.7	NA	114		NA
13471	92.7	45.5	63.7	101.8	561.8	NA	NA		NA
13472	35.1	94.5	41.5	36.4	31	NA	35.8		NA
13473	573.6	333	174	474.8	131.5	NA	NA	B1	270
13478	1870.9	199.7	545.4	144.8	551.1	NA	NA		NA
13479	98.9	58.5	36.2	135	196.1	NA	NA		NA
13481	3129.6	190.5	410.6	478.1	134.7	NA	NA	F1	274
13482	440.4	73.6	143.4	204.4	147.7	NA	NA		453
13489	132.8	44.5	83.7	42.3	48.1	NA	NA		NA
13490	350.2	67.3	NA	91.9	NA	NA	NA		NA
13492	229.9	93.1	42.5	42.9	116.1	NA	NA		NA
13497	22.6	142.4	105.9	39.4	37.8	NA	NA		NA
13500	318.2	71.5	159	118.4	54.5	NA	NA		NA
13503	460.8	144.6	281.8	156.7	234.4	NA	125.5		NA
13506	154.2	45.1	43.4	55.8	49.5	NA	NA		NA
13507	64.9	52.7	73.7	70.5	88.7	NA	56.3		NA
13509	228.8	121.2	84.9	342.4	20.3	NA	NA		NA
13512	92.4	193.1	167.1	113.8	106.9	NA	87.7		NA
13513	54.3	88.4	33.6	33.7	55.9	NA	NA		NA
13514	443.2	240	153.2	163.3	277	NA	NA	F1	380
13515	57.4	47.1	42.2	49.4	ND	NA	NA		NA
13517	85.7	71.7	26.2	86.7	50.2	NA	NA	B2	58.9
13519	438	140.9	297.6	381.9	570.8	643.9	NA		NA
13521	532.5	592.5	145.2	39.5	112.4	NA	NA		NA
13524	2341.4	593.5	402.5	NA	990.7	NA	NA		NA
13525	122.9	207.9	226	145.2	195.9	NA	137.6		NA
13526	88.1	103.5	67.3	215.2	80.9	NA	NA	B2	104
13527	715.5	116.6	141.7	414.2	186.6	NA	NA		NA
13531	ND	63.8	39.6	43.4	51.8	NA	NA		28.8
13533	ND	45.1	56	32.3	28.1	NA	NA	F2	58.2
13535	43.7	44.6	43.6	38.6	60.8	NA	26.4	F1	38.1
13537	100.9	79.8	60.8	61.4	29	NA	46		NA
13542	58	53.9	78.8	35.9	72.9	NA	NA		NA
13543	108.6	ND	ND	63.1	120.4	NA	NA		NA
13544	137.9	69.5	30.8	45.2	48.3	NA	NA		219
13548	103.6	91.7	62.6	60.1	97.1	NA	NA		NA
13549	111.8	76.4	122.9	88.9	73.8	137.3	NA	Garden	129
13551	130.2	95.7	74.1	112.9	90.7	NA	NA		NA
13552	80.9	50.2	52	ND	36.4	NA	NA		NA
13555	50.4	63.2	65.7	41	ND	NA	NA	B1	39.7
13557	1808.9	286.2	326.3	462	NA	NA	NA	B1	499
13563	419.7	104.5	61.9	52.5	53.2	NA	NA		NA
13565	NA	NA	NA	89.3	NA	NA	NA		NA
13566	354.4	49	58.6	72.3	36.2	NA	NA		NA
13567	74	185.8	131.3	36.8	68.9	NA	NA	B1	57.3
13572	52.4	36.3	27.1	56.1	46.5	39.8	43.9		NA
13574	109.1	224.3	146.2	152.6	126.1	NA	NA		NA

Appendix A
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Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
13576	511.6	90.1	149.7	121.9	68.6	NA	NA		NA
13578	37	51.8	31.2	ND	ND	NA	NA	F1	44.3
13581	659.2	75.8	128.5	79.1	114.8	NA	135.7		NA
13583	741.3	133.5	83.4	94.1	223.6	NA	NA	F1	207
13584	293.2	136.4	114.3	ND	ND	NA	NA	F2	97.9
13588	304	35.5	29	85.7	72.1	NA	NA		NA
13590	160.3	110.7	158.9	100.7	118.9	NA	113.8		NA
13591	44.7	36	41.9	52.7	43.4	NA	NA		NA
13592	902.1	173.7	144	322	2025.5	NA	NA		NA
13594	50.2	32.7	30.4	48.1	176.8	NA	NA		NA
13595	714.5	177.4	219.5	169.1	110.9	NA	NA		NA
13598	395.6	119.3	162.1	34	36.1	NA	NA		NA
13599	76	44.6	221.1	54.4	52.2	NA	NA	F1	30.4
13601	56.2	59.7	NA	36.6	136.1	NA	NA		NA
13603	1154.7	161.7	223.5	280.1	381.3	NA	NA		NA
13604	78.3	40.4	74.4	25.7	23.6	NA	NA		NA
13605	287.5	65.6	113.4	174.7	135.1	NA	NA		NA
13606	54.8	146.8	178.5	133	36.6	NA	NA	B1	149
13609	101	80.4	89.5	85.2	98.3	NA	NA		NA
13612	72.6	133.7	151.9	204.6	90.8	NA	NA	F1	144
13614	68.3	96.4	57.3	83.1	95.9	NA	NA	F1	72.4
13616	129.8	53.4	67.9	42.2	35.8	NA	NA		NA
13617	101.3	63.3	94.2	48.2	46.8	NA	NA		NA
13619	334.6	71.1	114.8	NA	70.6	154.1	NA	Garden	150
13623	NA	805.8	319.9	2381.4	806.4	NA	NA		NA
13625	307.2	112	63.4	45.2	47.4	NA	NA		NA
13630	51.6	75	30.4	NA	26.8	NA	NA		37.6
13633	60.7	61.2	85.2	ND	ND	ND	NA		NA
13634	89.2	52.3	91.5	69.6	45.8	NA	NA	F1	56.3
13635	ND	23.3	66	23	ND	NA	40.3	F1	36
13640	913.6	251.6	234.3	NA	154.8	NA	NA		NA
13644	655.7	318.5	150.1	698.5	296.9	NA	NA		1000
13647	1219.3	421.8	274.1	467.6	951.2	NA	NA		NA
13651	1945.1	337.5	467.8	351	545.7	NA	NA		NA
13652	NA	1148.8	1123.4	1398.8	NA	NA	NA		NA
13653	811.6	256.8	NA	NA	260.4	NA	NA		NA
13657	85.3	89.1	41.6	64.2	ND	NA	NA		NA
13659	64.7	64.9	51.5	45.5	48.2	54.8	NA		NA
13660	NA	NA	NA	35.7	49.6	NA	NA		NA
13662	1647.2	106.1	387.3	739.2	571.4	NA	NA		NA
13663	35.4	71.9	92.7	135	54.8	26.8	NA		NA
13664	64	81.5	57.7	ND	ND	NA	NA	B1	39
13668	454.8	402.6	NA	821.6	NA	NA	NA		NA
13669	90.5	33.4	57.8	55.5	56.4	NA	60.5		NA
13670	ND	36	ND	36.1	49.9	NA	NA		NA
13671	221.8	84	87.1	74	66.3	NA	NA		NA
13672	1329.6	192.1	270.6	57.8	234.8	195.7	NA		NA
13676	288	314.2	163.1	484.2	246.4	NA	NA		NA
13677	131.4	168.2	175.6	85.2	NA	NA	NA		NA

Appendix A
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Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
13678	94.7	42.7	38.1	44.6	32.3	NA	NA	F1	47.8
13679	1207.2	306.4	38.9	183.4	704.9	NA	NA		NA
13681	1443.9	264.6	310.3	208.5	229.5	NA	NA		NA
13683	81.6	58.4	51.5	52	100.5	NA	NA		NA
13684	26.1	44.2	58.7	30.5	18.4	NA	25.7		NA
13686	99.9	69.7	108.4	87.1	46.9	NA	NA		NA
13687	51.2	24.5	42.7	45.6	74.3	NA	NA		NA
13689	67.2	96	79.4	104.6	115.7	NA	NA		NA
13691	982	437.6	152.7	278.4	222.1	NA	NA		NA
13692	65.7	44.8	ND	53.2	ND	72.4	ND	Play	158
13693	38.8	28.5	56.6	24	35.5	66.2	NA		NA
13697	341.4	114.7	61	224.4	178.2	84.1	86		NA
13703	175.8	122.2	64.7	61.7	47.5	NA	NA		NA
13705	64.7	228.4	164.2	232.8	289	NA	NA		NA
13707	51.9	65.8	65	40.6	52.8	NA	NA		65.9
13708	1129.6	121.4	289	311	59.3	179.7	NA		NA
13710	37.2	307	129.2	88.1	174.8	NA	NA		NA
13711	144.3	82.5	91.1	68.2	68.1	NA	NA		NA
13715	388	169.3	NA	128.4	172.8	NA	NA		1000
13716	425.8	182.1	139.8	178.4	65.9	82.5	NA		NA
13718	54.3	74.2	58.5	55.7	50.5	NA	NA		NA
13721	121.4	NA	NA	52.8	72.3	170.4	NA		NA
13723	40.9	28.1	39.1	26.6	87.5	NA	NA		NA
13724	352.7	151	139.1	178.3	226.8	NA	NA		NA
13726	NA	25.9	33.4	49.9	72.4	NA	NA	B2	94.8
13730	966.9	73.9	166.7	103.8	112	NA	NA		NA
13733	NA	136.5	101.1	219	560.3	NA	NA		NA
13736	117.5	87.6	65.2	43.9	40.5	NA	NA		NA
13742	450.3	163.3	109.1	93.3	78.8	NA	NA		NA
13743	66.2	79.7	98.1	76.2	205	NA	NA		NA
13747	68.5	107.7	134.1	135.7	109.5	NA	NA	B1	117
13750	3834.3	198.7	760.4	140.3	279.5	NA	NA		NA
13753	266.6	291.1	170.4	538	NA	NA	NA	B1	603
13754	87.4	132	141	96.7	NA	NA	103.1	B1	95.8
13757	53.6	71.8	65	62.3	41.4	NA	NA		NA
13759	60.3	53.6	38.8	26.5	ND	NA	32.8		NA
13770	453.5	146.8	200.2	245.4	483.9	NA	157.3		NA
13772	38.4	48.3	64.9	65.8	NA	NA	NA	B1	64.4
13775	221.8	480.8	194.3	230	298.8	NA	68.7	Play	147
13776	194.9	140.6	197.2	506.3	196.9	NA	NA		NA
13778	51.2	44.3	39.4	54.2	51.9	NA	NA		NA
13780	163.3	144.3	64.6	76.1	80.1	NA	NA		169
13785	828.3	275.8	277.3	242.9	292.1	NA	203.5		NA
13787	122.7	542.4	307.1	35.4	NA	NA	NA		NA
13788	551.5	676.2	348.6	768.7	691.6	811	NA		NA
13797	81.1	32.7	77	47.7	45.4	NA	NA		NA
13800	NA	57.8	39.5	35.4	43.9	31.7	NA		NA
13803	519.6	251.8	211.6	149	65.3	NA	94.3	Play	83.2
13811	57.6	42.7	42.5	47.6	46.9	NA	NA		NA

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Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
13812	280.6	103.6	161.2	146.3	90.6	NA	NA		NA
13814	1019.2	446	620.8	518.5	397.3	NA	97.8		NA
13815	49.4	69.8	62.9	43	27	NA	NA		NA
13816	97	60.6	95.2	50.7	72.4	NA	NA		NA
13820	50.1	38.9	40.3	105.5	92.7	NA	NA		NA
13825	35.4	95.3	88.1	45.8	32.6	ND	NA		NA
13827	NA	424.8	299.2	449.2	NA	NA	NA		NA
13830	166.1	69.3	88.2	45.8	89.2	NA	NA		NA
13832	30.5	102.2	102.1	41.4	74	NA	NA		NA
13834	138.3	65.9	92.6	106.3	118	NA	NA		NA
13837	195.4	292.3	1077.6	91.4	NA	NA	NA	F1	368
13842	257	236.2	146.5	90.4	174.5	NA	NA		NA
13844	92.9	66.4	83.4	49.9	69	NA	NA		NA
13847	NA	NA	NA	NA	NA	377	NA		NA
13849	673.4	234	148.4	146.2	260	NA	NA	B2	358
13853	64.3	66.2	60.4	92.2	50.6	NA	NA		59.4
13858	98.5	169.5	183.3	234.8	ND	NA	NA		NA
13859	472.4	419.2	200.5	94.9	234	NA	NA		NA
13862	4745.6	593.3	210.9	NA	2379.9	NA	NA		NA
13873	331.4	123.8	240.1	77.2	229.4	596.7	NA		NA
13879	232	104.1	144.2	65.9	221.1	NA	NA		NA
13881	75.1	64.3	170.6	29.1	32.2	28	NA	Garden	27.2
13882	115.6	73.7	83.8	65.9	96.5	NA	NA		NA
13884	62.6	104.9	127.8	118.1	NA	NA	83.2		57.2
13885	251	237	510.8	54.3	138.4	NA	NA		NA
13888	NA	115.1	201.1	NA	428.2	NA	NA		NA
13891	ND	86.6	52.6	35.6	66.9	57.4	NA	F2	61.6
13892	1431.4	217.2	190	294.7	195	NA	NA		NA
13893	392.6	156.5	107.8	NA	50.3	NA	NA		NA
13895	147.4	101.4	74.7	125.8	214.8	109.5	NA		NA
13898	26.1	357	NA	119.8	114.9	NA	117.1		NA
13899	1165	239	347.5	216.3	1068.8	NA	NA		NA
13904	34.3	67.6	80.1	NA	36.9	NA	22.4		NA
13906	83	77.4	102.8	64	148.5	NA	78.3		NA
13907	25.3	60.5	50.3	NA	35.4	NA	NA		NA
13910	405.9	160.7	205.2	108.3	125.1	NA	119.3		NA
13911	44.3	60.9	274.8	25.8	191.9	NA	NA		NA
13914	76.8	99.2	49.4	86.9	146	NA	NA		NA
13915	78.4	123.3	113.6	70.8	98.8	60	NA		NA
13920	344.2	143.3	300.7	189.3	246	NA	NA		NA
13922	47	291.5	284	89.6	104.8	NA	NA	B2	113
13923	ND	143.7	63.3	ND	48.6	NA	NA		NA
13925	2596.4	633.9	923.5	550	505.6	NA	NA		NA
13926	258.4	326.3	514.6	72.7	373	NA	NA		NA
13929	67.6	229	62.8	60.4	94.4	NA	NA	F2	102
13932	120.4	72	98.6	32.1	122.4	NA	NA		106
13934	103.4	31.7	52.2	39.5	39.8	NA	NA		105
13939	470.8	185.9	212.4	196.3	317	NA	NA		NA
13940	110.5	107.2	ND	69.4	55.9	NA	60.4		NA

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Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
13943	65.6	154.8	48.5	28.2	29.9	NA	NA	B1	41.7
13948	88.7	119.6	81.7	112.2	190.7	58.9	NA		NA
13951	45.7	27.2	115.5	66.6	44.6	NA	NA		NA
13952	108.2	NA	382.8	52.4	111.9	NA	NA		NA
13954	412.3	NA	258.3	171.3	NA	NA	NA		NA
13956	54.9	424.5	371.9	76.1	75.7	NA	NA		NA
13959	44.2	101.2	275.4	81.6	23.5	NA	NA		NA
13969	NA	219	110.8	203.9	213.5	NA	180.8		NA
13970	107.2	65.5	50	46	54.5	68.1	NA		NA
13972	61.3	84.2	139.4	NA	264.1	NA	NA		NA
13975	106.5	87.7	66.8	46.4	61.4	NA	NA		NA
13979	153.9	92.5	57.1	56.2	33.9	NA	NA		NA
13982	39.5	38.5	36.2	ND	51.7	ND	21.5	Garden	19.1
13985	66.7	145.2	204.5	104.3	130.1	56	NA		NA
13987	372.8	592.9	67.2	153.7	185.4	NA	NA		NA
13988	76.6	122.8	50.7	63.6	85.4	33.9	NA		NA
13990	95.7	75.2	121.6	69	149.2	NA	NA		NA
13991	ND	71.4	73.4	46.6	50.6	ND	NA	Garden	28.6
13992	1729.6	343.8	516	609.6	718	NA	NA		NA
13993	96.9	66.5	58.6	108.2	171.1	NA	62.1	Play	96.4
13994	66.4	64.6	46.9	57.5	71	NA	NA		NA
13997	145.8	209	203.6	117.3	116.3	NA	NA	B1	114
13999	85.7	66.8	67.8	51.7	43.8	39.8	95.3		NA
14002	215.4	84.6	124.2	73.3	97.5	NA	125		NA
14005	ND	39.8	109.1	224.2	73.6	NA	NA		NA
14006	137.7	33.2	117.4	162.8	117.1	NA	NA		NA
14009	277	288.8	141	302.2	263.4	NA	NA		NA
14010	41.4	23	28.4	54	43.2	NA	NA		NA
14013	89.6	164.6	97.9	72.9	92.5	NA	NA		NA
14017	126.7	59.6	156.5	79.3	70.9	NA	43.8	Play	36.6
14027	72	116.1	127.4	30.4	37	NA	NA	F2	93.2
14031	46.4	33.8	83	84.2	NA	NA	NA		88.2
14033	478.7	73.8	155.6	181.8	67	NA	NA		NA
14034	37.3	30.6	53.6	97.1	36.3	NA	NA		NA
14040	313.1	165.3	215	188.2	119.8	NA	NA		NA
14047	59.4	29.3	49.9	29.3	77.2	NA	NA		NA
14049	143.2	93.1	65.9	103.1	123.3	NA	NA		NA
14054	78.7	31.1	28	25.8	31.2	NA	NA	B1	35.3
14060	93.7	ND	ND	54.7	60.1	NA	ND		NA
14061	1178.1	329.5	784.8	467.1	148.7	NA	NA		NA
14064	419.4	206	292.3	278	NA	NA	NA		NA
14065	387.7	203.9	254.4	245.9	180.3	NA	775.8		NA
14066	542.9	84.2	112.6	120.6	105.9	NA	86.6		544
14069	3404.3	150.1	74.5	NA	NA	NA	NA		4070
14072	970.7	194.6	396.5	273.9	221.5	NA	NA		NA
14075	30.8	41.7	87.9	NA	75.5	NA	NA		NA
14084	550.3	179.6	76.8	143.5	149.8	NA	NA		NA
14088	55.1	30.3	45.3	42.1	36.7	NA	NA		NA
14089	243.4	137.4	171.5	244	251.3	NA	NA		NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
14092	ND	37.2	65.8	37.6	39.5	36.8	36.8	Play	44.5
14096	627.2	127.3	210.6	85.7	259.4	NA	NA		NA
14099	125.5	102.8	NA	178.4	212.4	NA	75.2		NA
14100	75.5	46	114.4	506.8	130.1	NA	266.6	F1	37.5
14104	598	338.8	304.8	720.2	343	240.5	NA		NA
14105	443	446	197.1	85	174.7	NA	180		NA
14107	219.6	173.8	458.8	173	780.8	NA	190		NA
14109	77.2	53.8	39.1	38.7	31.2	NA	NA		NA
14110	2023.2	293.3	195.8	405	463.5	NA	NA		NA
14111	565.2	178.6	131.1	389.7	NA	NA	NA		NA
14112	287.9	112.5	502.1	144.7	122.3	NA	NA		NA
14117	295.5	199.6	206.7	228.5	181.5	NA	NA		NA
14119	71.9	88.5	75.5	192.3	117.3	NA	NA		NA
14120	500	176.9	164.4	NA	267.4	NA	NA		NA
14122	ND	56.3	30.1	41.9	47.9	46.2	NA		NA
14123	1984	294.7	361.4	241.2	342.3	338.9	NA	F1	357
14124	45.5	43.1	30.4	28.5	19.6	NA	ND	F2	51.9
14125	210.5	261.8	295.8	169	422.6	NA	NA	F1	302
14127	42.9	65.8	40.2	52.5	39.8	NA	NA		NA
14128	313.5	281.1	253.3	461.9	NA	NA	NA		NA
14132	1048.7	381.5	212.9	217.9	218.2	NA	NA		NA
14135	620.8	615.6	166.7	184.9	279.2	175	NA		NA
14139	59.7	43	ND	38.8	31.5	NA	19.7		NA
14143	ND	50.5	ND	ND	ND	NA	NA		NA
14144	127.5	83.6	449.9	99.1	63.1	128.4	NA		NA
14146	162	54.9	101.6	NA	49.5	78.6	NA	Garden	56.3
14147	NA	129.2	207.1	289.1	152	NA	NA	B1	329
14148	39.5	42.7	53	82.9	78	NA	NA		NA
14153	1823.2	189.3	301.5	544.8	NA	NA	NA	F1	203
14154	35.8	40.4	ND	36.8	ND	NA	24.9	Play	24.1
14157	43.3	75.2	46.1	24.3	44.7	ND	NA	Garden	19.4
14159	165.3	74.7	193.2	49	61.4	NA	NA		NA
14160	99.6	30.7	ND	60.3	161.5	67.5	NA		NA
14161	66	51.9	61.9	33.4	ND	NA	NA		48.5
14162	39.8	36.2	38	34.1	33.3	NA	NA		55.2
14163	124.5	224.2	NA	186	70.3	NA	NA		NA
14165	85.1	31.2	63.1	83.5	ND	NA	NA		NA
14166	NA	24.6	26.6	23.6	NA	NA	28		NA
14167	86.1	116.1	81.1	45.1	77.5	NA	NA		NA
14170	138.3	141.8	216	318.6	100.5	101.7	NA		NA
14172	664	144.1	158.5	412	215.4	NA	NA		NA
14174	1640	425.6	642	408.4	250.6	NA	NA		NA
14175	173.4	112.8	110.3	199.6	101	NA	NA		NA
14176	89.8	62.2	49.4	60.2	53.1	NA	NA		NA
14177	345.1	136.3	125.1	289.5	222.8	NA	NA		NA
14178	260.4	78	74.7	71.5	423.6	84.5	123.4	Garden	83.8
14180	315.8	134.3	108.6	71.4	NA	NA	85.3		NA
14181	244.2	74	123.1	75.8	64.7	NA	NA		NA
14183	142.7	71.6	113.8	146.4	136.4	NA	52.3		NA

Appendix A
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Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
14186	165.5	NA	ND	178.9	1215.3	NA	NA		NA
14188	1264.2	259.2	331.5	347.1	119.8	NA	NA		NA
14189	1184	334.1	247.7	958.4	989.8	NA	NA		NA
14190	212.7	140.3	129.4	303.1	171.4	NA	NA		NA
14193	85.8	69.4	62.7	111.1	68.9	NA	NA		NA
14195	ND	767.8	76.2	72.7	167	NA	NA		NA
14196	212.8	146.3	160.6	328.7	181.3	NA	251.5		NA
14198	42.2	146.4	105.8	65.3	136.6	NA	NA		35.2
14200	883	245.5	88.6	179.6	88.4	NA	NA		NA
14204	1105.8	98.2	234.9	185	167.3	NA	228.5		NA
14206	26.8	44.5	64.5	27.1	33	NA	41.3		23.8
14207	24.9	42.8	27.1	30.2	40.6	NA	NA		NA
14209	135.6	193.7	214.8	259.8	136.5	NA	NA		NA
14216	45.6	68.2	122.5	88.6	33	NA	NA		NA
14228	49	33.8	47.1	23.1	61.9	NA	NA		NA
14230	746	260	158.2	267	294.4	NA	NA		NA
14234	708.4	73.1	165.6	198.1	602	NA	NA		NA
14237	32.4	ND	ND	33.7	ND	NA	NA		48.9
14242	1180.5	959.2	183.3	1164.4	172.3	NA	NA		NA
14243	75.4	253.8	188.3	33.6	102.6	NA	91.2	Play	77.4
14245	94.1	144.6	82.4	54.2	81.4	NA	NA		NA
14249	NA	886.4	NA	572.2	NA	NA	NA		NA
14252	626.5	359.2	336.1	840.2	562.6	NA	NA		NA
14254	88.4	61.6	36.3	43.6	49.3	NA	NA		NA
14258	172.9	174.2	193.4	166.1	219.1	NA	NA		NA
14259	255.4	125.2	169.3	238.2	295.2	NA	NA		NA
14260	90	69.5	61.7	46.3	43	NA	NA	B1	32.3
14261	100.5	31.1	41.7	47.2	46.5	NA	NA		NA
14262	63.6	99	95.2	96.1	87.6	NA	NA	F1	96.7
14263	564.2	506.2	530.1	312.7	489	NA	300.9		NA
14266	47.8	NA	23.9	ND	ND	NA	NA		NA
14267	138.9	82.9	125.9	223.2	NA	102.2	NA		NA
14272	790.5	118.4	235.9	158.3	119.8	NA	148.7		NA
14275	153	106.3	150	143.3	157.6	NA	NA		NA
14277	68.3	54	35.1	62	45.6	NA	NA		NA
14280	406	137.8	202.2	137.9	239.9	NA	NA		NA
14282	964	716.8	821.6	485.2	422.8	NA	NA	F2	1740
14286	789.2	263.6	294.8	303.4	381	NA	NA		NA
14287	133	98.7	108.9	82.6	67.7	NA	NA		NA
14288	287.4	251.2	515.6	113.4	162.6	NA	NA		NA
14293	78	234.3	160.4	231.9	83.9	NA	NA		NA
14295	54.8	40.6	ND	ND	32.5	NA	NA	F2	33.9
14296	31.6	ND	27.6	26.1	30	NA	NA	B1	18.2
14298	367.6	106.7	83	72.2	65.6	NA	NA		NA
14300	603.2	432.4	329	NA	NA	332.6	NA		NA
14302	32.9	30.1	27.1	35	ND	NA	NA		NA
14307	397	110.5	116.9	135.7	108.9	NA	NA		434
14309	96.4	196.9	398.3	151.8	75.3	NA	283.5		NA
14312	43.4	32.7	32	33.1	ND	NA	NA		NA

Appendix A
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Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
14313	NA	57.7	NA	68.5	253	205	NA		NA
14319	356	172.8	212.6	215.5	NA	408.1	NA		NA
14325	117.2	63	ND	102.8	ND	NA	NA		NA
14328	414.8	429.2	374.8	617.6	527.2	NA	NA		NA
14330	1105.6	433.8	411.8	NA	154.1	NA	NA	B2	194
14335	ND	99.2	89.9	16.7	ND	NA	NA		NA
14340	516.9	251	586.5	2043.5	693.3	NA	NA	B2	713
14344	49.9	27.5	32.5	ND	ND	NA	NA		NA
14345	889.3	87.1	191.3	135.1	312.8	NA	NA	B2	105
14345	889.3	87.1	191.3	135.1	312.8	NA	NA	F2	208
14350	311.2	99.3	128.7	250.4	103.5	NA	347.4		NA
14351	586.9	92.3	119	286.5	461	NA	NA		NA
14352	121.7	35.3	41.7	ND	31	NA	NA		NA
14357	NA	209.4	234.1	186.1	122.2	NA	NA		NA
14358	421.3	702.4	232.2	104	NA	NA	NA		NA
14360	621.1	398.3	152.3	301.6	146.2	NA	182	F2	196
14361	75.7	79.6	53.1	39.4	37	NA	NA	F1	59.5
14363	35	36.5	ND	ND	26.5	NA	NA		NA
14364	829.5	402	261.3	525.8	185.7	NA	NA		NA
14365	85.1	71	80.9	ND	ND	NA	NA		NA
14372	NA	108.3	90.7	179.4	92.1	183.6	NA		NA
14373	60.2	80.6	41.4	65.9	125.5	NA	NA		NA
14377	510.4	386	212.4	233.2	136.1	NA	NA		NA
14378	246	265.8	258.6	182.5	214.2	NA	220.8		NA
14379	576.5	271.1	443.7	323.8	324.4	NA	294.9	F1	349
14380	314.7	370.6	87.1	115.1	139.7	NA	NA		396
14381	148.3	159.8	202	178.6	159.9	115.5	NA		NA
14383	197.8	172.3	485.2	141.6	151.5	87.3	NA	Garden	102
14384	NA	1549.6	129.9	404	315.2	NA	NA	F2	235
14385	205.2	94.5	59.1	55	43.5	55.6	NA		NA
14386	130.9	269.4	186.3	168.6	119.4	NA	NA		NA
14387	352	114	107.1	438.8	NA	NA	NA		NA
14389	398.2	217.6	326.5	155.5	NA	NA	NA	F1	261
14391	150.5	160.3	114.3	68.9	66.3	NA	NA		NA
14392	166.8	197.1	182.1	205.2	594.4	NA	NA		NA
14394	733.6	242.2	167.8	211.8	602.8	NA	NA		991
14395	43.8	51.6	86.2	ND	115.2	NA	NA		NA
14397	2009.6	209.2	118.8	182.7	151.4	NA	153.5		NA
14398	33.6	69.1	42.4	47.8	29.1	NA	NA		NA
14399	ND	ND	ND	ND	ND	NA	NA	F2	19.8
14400	33.9	42.6	41.3	25.8	143.4	NA	NA		NA
14405	60.7	52.3	93.8	34.9	57.5	NA	NA		NA
14408	34.7	90.9	30.8	69.9	36.6	NA	NA		NA
14411	189.9	116	152.9	84.8	163.3	90	NA	Garden	83.8
14415	723.1	281.8	323.1	518.3	198.3	NA	NA		NA
14418	500.4	363.4	367.3	186.3	334.6	NA	NA		NA
14419	ND	ND	ND	ND	ND	NA	NA	B1	18.9
14420	63.9	48	291.7	49.3	33.4	NA	NA		NA
14423	603.4	221.7	NA	136.2	180.5	80	NA		NA

Appendix A
Table A-2
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Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
14424	60.4	63.9	98.2	69.6	36.4	ND	NA		NA
14427	36.6	35.8	35.6	27.8	ND	NA	NA		NA
14429	235.7	158	75.2	78.3	71.2	NA	NA		NA
14431	699.1	112	164.3	191	187.9	NA	NA		NA
14437	522.5	624.5	288.9	309.5	300	NA	NA		NA
14439	63.3	54.8	67.9	39.9	58.5	56.3	NA		NA
14441	105.1	67.1	45.6	55.6	45.4	NA	NA		NA
14444	385.5	375.6	258.6	244.4	343.4	NA	NA		NA
14446	66	44.2	24.4	44.5	52.5	NA	NA		NA
14447	1154.5	169.3	396.4	452.8	301	NA	193.7		NA
14451	55.7	344.3	64.9	89.7	119	NA	NA		NA
14453	230.9	234.1	171.8	128.7	111.1	NA	137.1		NA
14456	57.6	59.7	35.5	45.7	44.6	NA	NA		758
14457	133.2	ND	ND	ND	65.5	NA	NA		NA
14462	192.9	107.1	50.2	56.7	59.2	NA	NA		NA
14467	55.3	68	53.6	87.9	44.9	NA	NA		NA
14471	467.3	274.4	281.6	216.8	227.5	NA	294.3		NA
14478	82.3	103.1	155.1	80.8	97.1	NA	NA		NA
14480	564.3	278.5	133.9	180	126	NA	NA		NA
14488	126.7	148.6	116.8	178.5	75	NA	NA	F2	99.1
14491	285.9	148.4	106.5	78.2	145	NA	NA		546
14493	225.8	130.4	82.3	117.4	192.4	76.6	NA		NA
14494	248.2	146	102.7	83.3	74.9	NA	204.8		NA
14498	66.3	42.6	71.5	47.2	63	NA	NA		NA
14500	177.2	112.4	160.2	NA	64.6	51.3	NA		NA
14501	298.5	143.3	121	138.7	171.8	99	NA	Garden	105
14504	ND	56.4	85.8	62.6	ND	NA	NA		NA
14506	27.3	88.6	61.4	58.8	25.4	NA	NA		33.9
14507	48.2	ND	60.8	29.5	45.2	NA	NA		44.9
14509	206.3	60.5	29.3	46	79.3	NA	NA		253
14512	174.2	207	52.8	66.7	79.7	NA	NA		NA
14517	ND	ND	ND	ND	ND	NA	NA		NA
14521	776.8	208.6	240.2	158.2	188.1	18.4	NA		NA
14524	208.6	84	88.1	85.4	57.4	NA	NA		NA
14527	1648.5	162	143.7	251.9	192.2	NA	NA		NA
14531	96.8	184.4	107.8	82.3	135.8	NA	NA	F2	92.2
14534	929.4	568.2	426.3	254.6	225	NA	221.4		NA
14535	24.1	29.6	31.4	38.7	32.7	NA	NA	B2	22.7
14539	74.2	27	46.1	34	18.4	NA	NA		NA
14540	1347.7	248.2	411.6	178.4	460.8	NA	NA		NA
14542	712.1	93.9	229.9	183.7	152.9	NA	NA		NA
14547	249.8	176	196.4	229	566	NA	NA		NA
14548	132.7	137.6	118.9	370	325.8	NA	NA		NA
14553	2266.4	236.2	169.1	1300.4	276.2	57.3	127.3		NA
14570	372.9	187.2	233.8	314.6	485.3	NA	NA		NA
14572	189.2	59.3	52.4	52.9	35	NA	NA		NA
14573	1069.6	163.5	209.2	216	125.4	NA	NA		NA
14574	265	192.6	265.2	184.7	NA	NA	NA		NA
14575	NA	168.1	NA	186.8	159.9	NA	352.4		NA

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Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
14579	131.9	25.7	122.9	41	53.3	NA	NA		NA
14580	161	156.7	99.7	261.9	181.8	221.5	NA		NA
14582	644.8	215.2	224.8	340.2	191.2	NA	NA		NA
14587	347.9	53	70	88.6	140.6	NA	137.6	F2	84.1
14593	94.5	42.6	88.4	94.7	72.4	NA	NA		NA
14594	ND	ND	ND	ND	ND	NA	NA		19
14600	344.1	170.2	208.7	175.1	162.1	NA	172.1		273
14601	128.2	98.8	139.7	154	138.2	NA	NA		NA
14603	2192.4	270.6	279.7	102.5	254.1	235.1	115.2		NA
14604	41.5	ND	28.9	37.9	29.1	NA	NA	B2	30.9
14606	62.3	61.8	106.6	39.4	59.2	NA	NA		NA
14612	57.3	44.3	39	43.6	45.2	NA	59.3	F2	48.8
14614	78.9	43	115.6	86.5	52.3	NA	NA		NA
14616	1319.1	392.4	NA	259.4	254.7	NA	NA		NA
14620	36.6	39.7	ND	ND	36.2	NA	NA		31.9
14621	476.9	197.1	285.2	NA	529.3	NA	NA		NA
14622	756.8	194.5	131.1	199.3	230.2	NA	NA		NA
14624	48.1	52.3	61.7	79.8	58.6	NA	41.1		NA
14626	33.8	130.9	40.2	38.2	117.9	54.5	58.3		NA
14638	458.7	343.5	511.2	340.7	267.4	NA	NA		NA
14640	35.8	79.3	209.6	52	157	NA	NA		NA
14641	421.1	192.3	124.6	92.9	141.3	NA	NA		NA
14644	NA	41	109.5	69.6	49.2	NA	NA		NA
14645	1549.6	285.8	1109.6	254.6	341.6	NA	NA		NA
14648	323.2	139.6	157.7	244.2	80.5	NA	NA		NA
14652	35.8	46.1	27.5	ND	48.5	NA	NA		NA
14657	52.4	61	44.8	27.9	37.9	NA	NA		NA
14659	660	282.4	320.6	648.8	128.8	NA	145.3		NA
14661	86.5	112.3	128.9	47.8	79.3	NA	NA		NA
14662	80.1	85.2	80.7	68.4	48.4	NA	NA		NA
14663	326.3	724.6	344.8	NA	275.3	NA	NA		NA
14667	97.4	40.7	27.9	38.5	22.9	NA	NA		NA
14669	384	489.8	141.3	501.6	584.8	723.2	NA		NA
14670	2147.9	213.3	336.6	721.1	381.5	NA	NA		NA
14672	2901.2	117.2	143.4	562.7	437.8	812.7	511.6		NA
14675	299.2	170	160.3	246.9	202.5	NA	NA		NA
14677	196.6	320.4	182.9	246	407.8	NA	360.6		NA
14682	NA	156.1	227.6	152.6	124.7	NA	NA		NA
14684	667.2	454	164.6	NA	153.5	NA	NA		NA
14687	603.6	282.2	120.8	170.6	76.9	NA	NA		NA
14689	548	363.1	288	642	213.5	NA	NA		NA
14694	884	2435.2	205.6	191.8	110.3	NA	NA		NA
14695	643.5	87.5	153.1	NA	362.7	NA	NA		NA
14697	NA	NA	NA	115.7	NA	NA	NA		NA
14702	1680.3	258.5	101.5	580.7	389.7	NA	NA	F1	280
14706	1979.2	900	314.4	NA	319.8	NA	544.8		NA
14709	213.2	203.9	247	253.6	353	176.6	NA		286
14711	45.4	52.7	ND	24.4	36	NA	NA		50.5
14712	663.2	670.9	336.3	286.9	207	NA	NA	F2	285

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
14713	251.8	244	NA	100	NA	135.6	NA		NA
14717	33.2	105.9	199.8	132.8	107.8	NA	NA		NA
14721	163.7	72.8	80.4	48.9	33.2	37.8	58.6	B1	70.3
14725	117.3	111.7	34.6	37.2	76.9	NA	NA		NA
14728	595	50.8	203.2	156.6	598.1	NA	113.8	Play	129
14732	655.6	263.4	267.4	94.8	341.7	294.2	NA		NA
14734	167.7	113.1	87.5	118.9	134	NA	NA		NA
14738	NA	91.5	148.9	89.2	160	61.5	NA	Garden	67.7
14742	256.8	255.6	NA	164.1	487.2	NA	NA		NA
14743	NA	221.9	163	NA	233.8	370.4	NA	Garden	447
14745	101.8	147.9	73.1	138.5	170.5	46.7	NA	Garden	46.4
14747	728.4	375.4	NA	353.8	NA	NA	NA		NA
14748	487.6	320.8	351.6	321.6	267.2	NA	NA		665
14750	1301.6	882	229.6	218.7	338.3	NA	NA		NA
14753	33.2	150.5	76	74.5	100.4	43.2	NA	B1	91.5
14756	54	460.8	135.9	86.5	84.4	NA	NA		NA
14760	ND	ND	59.9	ND	84.3	NA	NA		NA
14763	1206.3	1758.9	978.7	304.9	925.3	NA	NA		NA
14768	240.2	678	506	191.6	241	NA	NA		NA
14770	38.3	147.6	394.5	290.6	173.2	NA	NA		122
14771	1109.8	189.6	207.7	150.9	NA	NA	NA		NA
14774	37.5	94.3	52.5	ND	51.7	NA	NA		NA
14776	87.4	133.1	107.2	142.9	132	159.4	NA	Garden	168
14777	ND	ND	ND	29.2	ND	NA	NA	B2	14.2
14778	40.5	37.9	37.9	ND	ND	NA	NA		NA
14782	57.9	44.7	67.4	70.1	35.2	NA	NA		NA
14784	ND	58.9	30.8	51.1	21.8	NA	NA		NA
14787	659.5	315.8	284.5	181.3	198.3	NA	NA		NA
14790	242	247	450.4	NA	597.2	NA	NA		NA
14795	334.9	135.6	172.7	158.6	229	NA	NA		NA
14797	169.1	195.3	299.6	195	232.3	NA	NA		182
14799	232.3	116.4	138.8	259.5	265.4	NA	NA		NA
14801	534	162.4	184	193	NA	NA	NA		NA
14806	94.9	ND	20.6	42.1	67.5	146.7	NA		NA
14807	496.5	135.8	379.5	275.7	181.9	NA	NA		NA
14809	203.8	59.3	72.1	47.5	28.6	NA	NA		NA
14810	847	449.6	507.9	144.5	344.3	NA	NA		NA
14811	104.5	112	135.9	43.2	51.4	NA	NA		NA
14813	NA	85.7	42.6	34.1	44.9	NA	62.9		NA
14814	371.4	190.3	248	313.2	244.6	NA	41.7		NA
14820	682.9	122.4	180.3	656.6	NA	NA	NA		NA
14824	50.4	42.8	65.5	45.6	77.8	NA	NA		NA
14828	159.1	108.8	107.1	90.1	87.9	NA	NA	B1	120
14832	113.6	381.8	488	211.6	163.4	160.3	NA		NA
14837	110.6	71.2	27.1	130.1	65.2	NA	147.4	Play	202
14841	NA	207.8	183.7	708.8	306	NA	NA	F1	335
14843	72.3	ND	69.4	68	51.4	NA	NA	B1	48.3
14844	640.3	192.7	259.3	132.8	150.9	NA	NA		NA
14845	100.5	116.1	101.3	ND	274.4	NA	NA		NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
14852	505.1	93.7	158.6	183.9	295.8	NA	NA		NA
14854	591	114.9	266.3	895.9	413.1	NA	NA		NA
14856	398	NA	348.2	NA	398.2	NA	NA		NA
14859	519.6	595	298.2	254.2	484.1	NA	NA		NA
14861	311	130	257.2	341.7	NA	NA	NA	B1	865
14864	60.1	87.9	94.7	76.1	118.7	NA	NA	F1	86.9
14867	2288.3	303.2	462.1	582.7	630.9	NA	NA		NA
14869	296	312.8	215.4	60.2	120.9	NA	NA		NA
14870	1022.4	511.3	518.7	585.3	457.3	NA	NA		NA
14872	129.8	67.4	81.6	132.2	116	NA	NA		NA
14876	114.3	81.5	79.6	120.1	125.1	156	NA		NA
14879	596.8	169.4	333.6	252.6	418	NA	NA		NA
14880	239.5	249.3	218.8	43.4	40.7	NA	NA		NA
14881	27	45.4	32.6	67	56.2	NA	NA		NA
14882	2962.9	580	315.4	215.3	614.4	NA	138		NA
14887	560.6	127.7	84.9	339	385	NA	NA		NA
14888	686.8	120.6	162.2	130.1	335.8	NA	NA		NA
14889	NA	141.1	178.8	60.5	164.4	NA	NA		NA
14892	808.8	313.5	406.5	330	87.6	NA	NA		NA
14893	204.2	121.6	110.8	164.3	111.2	NA	NA	B2	154
14894	862.4	154.4	518.8	182.8	306	NA	189.8		NA
14896	39.2	51.7	33.2	ND	40.8	NA	NA		NA
14900	252.2	54.3	43.3	NA	49.6	NA	NA	F2	43.4
14902	80.5	104.4	97.3	130.8	71.6	NA	NA	F2	95.4
14903	241.6	138.5	232.6	365	228.3	NA	130.7		NA
14904	556.8	370.4	75.3	71.8	55.3	NA	NA		NA
14905	203	190.8	192.9	130.7	157.4	NA	NA		NA
14906	677.5	147.8	159	247.1	442.3	NA	NA		NA
14908	52.8	64.3	51.5	36.9	42.2	NA	35.3		NA
14917	723.8	123	161.8	131.3	NA	NA	139.6	B1	153
14921	129.5	55.6	97	149.9	268	131.9	NA		NA
14926	ND	36.3	25	45.6	53.8	NA	NA		NA
14927	262.3	110.8	181.4	90	100.2	NA	NA		NA
14928	105.3	47.3	51.7	44.5	33.7	NA	NA		NA
14929	30.3	30.1	ND	35.4	62.5	NA	NA	F2	21.7
14933	211.3	235.8	194.2	138.9	213.5	NA	NA		NA
14937	63.3	48.6	69.7	41.1	43.3	NA	NA	B1	36.6
14938	49.1	70.1	79.1	91.8	46.2	NA	NA		NA
14941	914.4	329.2	273.9	142.5	129.7	NA	NA		NA
14945	ND	ND	ND	ND	ND	NA	NA		NA
14948	38.3	68.8	ND	ND	ND	NA	NA	F1	42.3
14949	1079.2	294.3	128.8	383.7	182.2	547.3	NA		NA
14951	59.3	74.3	64.9	67.3	56.9	NA	46.7		NA
14953	98.7	89.4	79.5	117.4	84	NA	NA		NA
14954	344.2	564	295.8	231.6	404	NA	NA		NA
14956	177.5	76.5	45.1	62.4	66.7	NA	NA		NA
14957	40.9	36.5	76.4	67	85.8	NA	NA		NA
14962	139.4	162.1	121.7	129.5	170.6	NA	NA		NA
14970	46.7	36.6	71.9	46	76.6	51.4	NA		NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
14971	124.9	79	132.2	176.2	133.8	35.3	210.4	B2	129
14984	67.9	84.4	41.6	71.6	83.4	NA	NA		NA
14988	NA	ND	NA	NA	92.8	NA	NA		NA
14990	516.1	317.8	174.2	732.1	255	NA	NA		NA
14993	290.4	135.9	105.7	101.8	64.7	71.4	88.6		NA
14995	179.6	144.1	277.6	92.3	233.4	NA	NA		NA
14997	978.9	NA	349	768.7	507.9	301.9	NA		NA
14999	1769.6	1153.4	276.1	302.3	450	NA	324.1		NA
15000	552.1	370.6	533.2	300	239.5	NA	NA		NA
15006	368	306.8	198.9	277.5	163.4	NA	NA		NA
15011	1240	309.4	139.1	259.6	239.6	NA	NA		NA
15012	520	85.1	131.1	230.8	415.2	NA	NA	F2	117
15026	NA	NA	NA	542.1	529.9	NA	NA		NA
15028	52.9	61.5	49.8	72.7	ND	NA	NA		NA
15029	432.4	128.7	635.2	234.6	99.6	NA	NA		NA
15030	657.4	70.7	135.2	181.5	206.9	NA	NA		NA
15037	87.7	51.7	72	43.5	105	NA	NA	F2	75.2
15038	149.1	79.9	121.8	76.9	189.8	151.1	89.4	Play	109
15039	NA	125.2	61.3	114	167.8	NA	NA		NA
15043	1183.1	1401.4	340.6	273.8	249.4	NA	NA		NA
15050	88	ND	ND	88.8	81.6	NA	NA		NA
15055	809.2	301.1	168.6	312	226.5	NA	NA		NA
15056	51.5	60.1	27.4	47.2	46.7	NA	NA	B1	37
15065	580.5	139.2	168.3	173.8	141.1	NA	134.1		NA
15069	1098.7	434.4	378.7	482	717.1	NA	NA		NA
15070	286.9	476.3	333.9	418.3	541.5	49.9	NA		665
15071	39.6	61.7	31.5	40.6	45.4	NA	NA		NA
15073	661	146	97.4	114	72.9	38	NA		NA
15076	225.3	201.4	123.6	115.6	112.1	NA	NA		NA
15077	75.2	135.6	98.6	94.4	56.9	NA	NA		NA
15083	422.9	341.2	266.2	638.2	602.7	NA	NA		NA
15084	139.9	105.6	222.9	89.6	97.5	82.9	NA		NA
15086	89.8	200.2	152.1	131.8	195.3	103.6	ND	Play	40.3
15087	32.5	131.6	200.9	184	96.5	NA	NA		NA
15088	3076.3	656.1	299.6	218.8	294.3	NA	254.9		NA
15089	336.7	262	120.9	137.5	110.1	NA	NA		NA
15094	871.5	56.5	126.3	81.1	139.5	NA	NA	B1	88.7
15096	182	136.1	NA	158.3	NA	NA	NA		NA
15099	72.1	97.2	135.4	61.8	47.1	NA	NA	F2	114
15102	222.3	97.2	60.1	143.2	110.9	NA	NA		NA
15104	45.1	60.3	32.9	31.6	44.2	NA	NA	B1	38.4
15105	156.6	294.7	159.9	176.6	71.7	NA	NA		NA
15108	376.6	185.4	297.8	205.8	171.9	NA	NA		NA
15110	913.1	293	437.4	187.6	222.6	NA	NA		NA
15111	ND	162.6	ND	ND	ND	NA	NA		NA
15112	299.1	266.9	98.3	175.2	152.3	NA	NA		NA
15114	526.4	121.9	141.1	270.8	285.2	NA	NA		NA
15117	430.3	468.6	621.9	547	419.3	NA	NA		NA
15121	805.9	444	302.3	630.2	356	NA	581.6		NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
15122	64.1	38.6	64.4	42.3	35.2	NA	NA	B1	42.7
15127	NA	NA	261.3	NA	281.9	NA	NA		NA
15129	935.2	264.4	225.4	529.6	375.8	NA	NA		NA
15132	71	90.8	98.6	486	329.7	NA	NA		NA
15134	59.3	50.4	62.7	ND	ND	70.2	NA		NA
15137	906.4	285.4	302	305.2	295.4	NA	NA		NA
15138	196	153.6	116.1	342.6	334.2	NA	NA		NA
15139	41.6	322.9	79.8	42.1	78.8	NA	NA		NA
15140	NA	381.8	369.2	589.2	202	NA	NA		NA
15142	458.4	495.2	772	430	146.7	NA	NA		NA
15144	92.5	110.3	110	138.4	81.2	NA	NA		NA
15146	267.6	645.1	529.1	234.8	185.3	NA	NA	F1	775
15150	149.7	75.7	89.6	139.3	ND	NA	NA		NA
15153	544	206.6	315	273.8	349.6	NA	NA		NA
15154	202.4	91	87.6	75.5	110.3	NA	73.8		NA
15155	1549.9	420.2	250	252.9	244.6	NA	NA	F1	1040
15159	326.4	112	269	133.8	53.8	NA	89.3		NA
15160	272.1	118.1	100.6	126.5	112.1	NA	NA	B2	115
15162	NA	42.7	39	43.7	33.2	NA	NA	F1	39.5
15164	95.3	ND	ND	ND	ND	NA	NA		NA
15169	1140	191.4	320.2	249.8	265.6	NA	NA		539
15172	37	54.3	86.4	41.4	33	NA	NA		NA
15173	840	341.8	NA	193.9	NA	NA	NA	B1	270
15175	761.4	152.4	196.1	425	439.1	NA	NA		NA
15180	ND	57	65.7	78.9	51.9	NA	ND		NA
15188	415.2	475.9	352.8	386.3	440.5	375.9	NA		NA
15191	98	222.5	75	113.5	99.2	NA	NA		NA
15192	512.8	87.5	66.6	84.4	48.7	NA	NA	B2	68.7
15197	185.9	73.2	71.2	74.2	114.5	NA	NA		NA
15198	1648.5	186.3	107.4	74.2	161.4	NA	NA		NA
15201	1236.9	537.3	633.8	129.7	249.5	NA	NA		NA
15203	1819.6	477.4	1827.1	1341.7	693.2	NA	NA		3490
15204	817.6	171.8	168.6	167.1	NA	140.4	NA	F2	223
15205	332.6	152	232.2	435.2	250.8	NA	NA		379
15206	131.3	210.8	162.8	160.4	104.5	NA	NA		NA
15211	433.3	125.2	330.1	210.3	263.5	NA	NA	B2	287
15212	574.8	302	325.4	213.6	225.8	NA	NA		NA
15215	24.4	28	65.3	26.7	37.1	40.9	NA	Garden	53.1
15216	965.5	194.2	77.3	120.3	151.1	NA	NA		NA
15218	221.3	227.6	153.7	183.9	NA	NA	NA		NA
15219	379.1	1550.9	116.9	180.7	326.6	NA	NA	B2	785
15222	1540	252.2	NA	287.4	NA	204.5	NA		NA
15224	402.4	20.7	147.8	248	222.1	NA	NA		NA
15228	309.6	97.7	93	215.2	127	NA	NA		NA
15234	202.8	126.6	139.8	196.6	232.4	NA	135.4		NA
15238	61.7	44.7	48.2	33.1	ND	NA	54.3	Play	64.4
15239	ND	67	ND	53.1	ND	NA	NA		NA
15245	1320	389.2	206.8	878.4	781.6	304.2	NA	B2	960
15246	70.3	93.4	90.9	72.5	105.8	NA	NA		NA

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Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
15249	2709.9	130.6	200.8	165	332.3	NA	79.6		NA
15265	520.9	464.2	237.1	285.1	352.9	224.4	NA		NA
15267	2357.1	111.5	284.2	86.4	172.2	NA	NA		NA
15268	856.6	887.1	190.4	278.6	NA	NA	NA		NA
15270	31.2	52.3	29.4	52.8	31.9	NA	18.7		NA
15273	28.8	41.2	29.1	94.3	35.1	NA	29.2		NA
15280	82.6	72	36.7	26	24.6	NA	NA		NA
15281	1560	701.6	NA	295.4	NA	73.8	NA		NA
15285	462.7	144.5	309.9	150.7	1187.9	NA	NA		NA
15287	105.7	67.5	104.4	36.6	145.1	NA	NA		NA
15289	138.3	299	185.7	235.9	230.2	NA	67.4		NA
15290	541.2	293	NA	301.6	NA	NA	NA		NA
15295	ND	172.5	423.3	133.1	206	NA	NA		NA
15300	36.9	350.6	28.9	32.8	46.4	NA	NA		NA
15303	400.8	265.8	211.9	138.7	138.7	NA	NA		NA
15305	38.5	155.5	225	99.2	85	NA	NA		NA
15309	5570.1	123.1	1738.9	618.7	656.3	NA	NA	F1	150
15311	333	43.6	NA	60.2	120.5	NA	NA		NA
15313	74.7	136.4	172.8	68.2	46.2	NA	NA		NA
15315	29.1	76	81.9	83.4	47.7	NA	NA	B2	44
15316	728.5	709.8	767.7	517.1	311.5	170.2	NA		NA
15319	57.4	66.5	38.9	82.1	37.5	NA	NA		NA
15321	490.3	193.8	507.2	345.9	517.4	NA	229.6		NA
15322	969.7	101.4	56.6	201.4	172.4	NA	NA		NA
15323	302.3	164.3	155.5	147.2	391.7	NA	NA	B2	391
15332	1460.8	286	494	544.7	587.1	NA	301.3		NA
15334	421.2	83	126.2	192	187.8	NA	NA		NA
15338	1960	193.4	153.4	102.1	97.8	NA	NA		NA
15341	26	49.2	48.1	NA	38.6	NA	NA		NA
15342	77.5	67.7	76.6	77.9	43.3	NA	NA		NA
15343	421.6	69.1	70.7	65.4	70.8	NA	NA		NA
15350	266	392.2	346.1	202	429.6	NA	82.6	Play	93.5
15353	1458.9	302.9	269.8	210	275.6	NA	NA		NA
15354	475.3	425.2	140.9	81.6	93.9	NA	NA	B2	102
15360	481.4	112.2	131.3	168.1	323.9	NA	NA		NA
15364	988.7	774.9	400	251.3	187.1	NA	NA	F2	520
15366	154.2	194.1	125.1	146	64	NA	NA		NA
15367	1129.6	306.4	375.6	788.4	1180	NA	NA		NA
15369	1421.3	540.5	1185.8	1063.2	249.8	NA	NA		NA
15370	1260	620.8	294.4	191.8	156.7	NA	NA		NA
15371	72.7	28.3	37.2	54.3	69.2	NA	NA		NA
15377	3494.6	766.5	348.7	205.8	340.6	NA	NA		NA
15380	445.8	93.5	120.9	126.6	94.1	112.9	NA		NA
15382	205.6	126.3	125.6	184.9	114.6	NA	NA	F2	126
15383	320.4	385.2	30.3	321	240.8	35	NA		NA
15385	67.7	45.4	30.4	35.7	69.5	NA	NA		NA
15386	1607.8	53	30	85	101.3	NA	NA		NA
15387	193.6	94.6	100.9	267.3	242.9	NA	NA		NA
15390	64.9	124.9	86	57.9	80.7	NA	NA		NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
15396	387.9	124.8	NA	133.6	119.2	NA	NA		NA
15398	560.8	442.4	341.6	183.1	136.2	NA	116.1		NA
15399	448.4	127.6	125.2	146.9	136.6	98.7	NA		NA
15400	153.4	110.3	185	81.1	110.5	NA	NA		217
15401	31.3	73.9	ND	18.3	86.7	61.3	NA		NA
15402	92.1	77.9	53.4	65.3	54	NA	NA		NA
15403	116.9	201.6	921.8	58.2	62	NA	NA		110
15407	78.1	45.9	58.1	61.4	73.6	NA	NA		NA
15410	195.2	516.4	160	58.5	63.7	NA	NA		NA
15411	913.6	386.5	248.6	571.4	308.6	NA	NA	F2	318
15412	981.6	347.9	325.9	64.8	239.5	NA	NA		NA
15419	502.8	300.3	292.4	497.9	124.4	NA	NA	F2	408
15424	160.6	87.2	25.5	261	374.2	376.6	374	Garden	476
15425	255.4	305.3	250.2	155.3	NA	NA	NA		351
15427	142.2	242.6	188.1	69.1	115.2	NA	NA		NA
15428	348.8	117.8	134.2	203.5	227.2	NA	NA		NA
15431	818.4	160.4	253.2	207.4	387.2	NA	NA		NA
15432	22.6	20	ND	46.4	56.6	NA	NA		NA
15436	280	219	196	150.5	149.1	NA	NA		NA
15438	1759.3	1031.5	646.7	352.1	165.2	NA	NA		NA
15445	4846.9	407.3	965.4	296.9	831.5	615.5	NA		NA
15449	2798.1	680.9	221.6	131.4	123.4	111.6	NA		NA
15452	294.4	161	148.1	59.4	153.1	NA	NA		NA
15454	45.9	79.8	71.6	50.2	44.8	NA	35.5		NA
15457	111.3	ND	183.1	105.8	107.3	NA	NA		NA
15460	817.2	139.7	181.5	624.4	318.6	NA	NA		NA
15461	82.1	63.9	216.6	32.3	89.5	NA	NA		NA
15464	48	116.5	102.1	54.3	59.5	NA	NA		NA
15469	75.6	85.6	71.7	48.4	34.4	NA	NA		NA
15473	205	117.5	82.4	104.9	1529.6	58.7	NA	B1	145
15480	627.6	176.2	95.2	38.1	46.4	NA	29.7		NA
15485	2040.8	119.4	205.8	293.1	132.4	NA	NA		NA
15486	ND	ND	ND	ND	62.4	NA	NA		NA
15487	782.8	83.8	145.3	247.6	111.9	NA	NA	B2	119
15488	951.4	376.3	204.7	272.4	226.1	NA	164.1	B1	258
15490	2108.5	535.6	420.9	758.8	164.7	NA	NA		NA
15493	334.9	99.2	121.3	85.8	181.6	NA	NA		NA
15497	1473.1	690	320	466.1	184.9	NA	NA		NA
15501	620	805.7	233.7	822.3	128.2	174.8	NA		NA
15502	120.6	109	104.5	87.6	66.3	NA	NA		NA
15506	44	63.3	198.3	41.6	104.7	NA	NA	B2	129
15508	68.7	173.5	138.7	156.7	61.2	NA	NA		NA
15509	55.9	183.7	186.4	62.7	107.9	NA	NA		NA
15513	362.8	318.6	215.4	281.2	760.4	NA	NA		NA
15518	976.3	278.2	178	212.5	50.4	41.4	107.6		NA
15520	2849.6	158.6	310.4	365.6	280.6	100.6	NA		NA
15524	55.1	64.2	90.6	305	215.4	NA	NA	F1	80.1
15527	82	135.4	77.4	439.3	78.6	NA	NA		NA
15530	205.1	97.1	176.8	60	95.2	65.8	NA	F1	111

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
15533	356.9	180.4	150.2	NA	299.3	NA	NA		NA
15539	134.1	260	167.4	373.3	184.5	NA	NA		NA
15541	749.6	527.6	98.3	169.7	139.6	NA	NA		1720
15542	317.8	269	197	153.8	215.6	351.4	NA		NA
15545	117	92.6	106.3	240.1	268.4	NA	NA		NA
15547	45.4	91	116.6	42.9	216.7	NA	NA		NA
15548	2354.6	243.9	1669.5	125.9	288.4	NA	NA		2400
15549	197.8	94.5	119.8	203.6	245.9	268.1	NA		NA
15552	276	424.5	364.4	323.3	164.9	NA	184		NA
15554	293.4	118.7	132.7	68.9	117.3	NA	NA		NA
15556	943.2	92.9	111.5	878.4	225.8	NA	NA	F2	145
15558	20.3	24.8	15.9	39.4	26	NA	NA		NA
15559	674.2	167.2	149.4	466.9	398.9	NA	NA		NA
15564	137.1	32.3	92	95.5	40.7	NA	NA		NA
15567	NA	68	116.4	49.8	50.3	NA	NA		NA
15574	432.7	934.8	308.3	197.4	601.4	NA	NA		NA
15579	734.5	755.4	263.7	NA	230.1	NA	NA		NA
15588	275	NA	NA	156.8	355.2	NA	NA		NA
15589	1561.5	109.2	312.4	672.4	218.6	NA	NA		NA
15591	68.3	26.1	69.6	89.8	118.9	NA	83.7		57.5
15593	ND	111.4	106.3	46.6	74.2	54.5	NA		NA
15594	21.1	39.8	38.1	23.8	43	NA	NA		NA
15595	669.6	791.2	260.8	246.6	246	152	232.2		NA
15596	338.1	415.6	335.5	371.8	631.2	NA	NA		NA
15599	283	330	NA	357.4	NA	NA	NA		NA
15600	861.6	267.2	281.8	178.5	374.6	NA	207	Play	247
15602	886.5	84.9	75.9	85.1	157.6	NA	NA		1070
15604	116	60.5	63.5	106.2	98.3	NA	199.9		NA
15605	81.4	96.1	85.6	254.9	66.7	91.7	NA	Garden	95.5
15607	35.3	36.7	61.8	44.8	69.3	NA	NA		NA
15608	4944.3	199.6	535.9	1063.6	207.4	NA	NA		NA
15609	31.3	45.7	36.5	122	129.6	37	61.8	F1	36
15610	68.7	97	98.7	31.7	36.2	NA	NA		NA
15612	113.6	43.1	NA	178	NA	NA	NA		NA
15616	956.3	313.7	214.8	577.7	261.2	337.8	NA	F2	266
15619	54.9	120.8	49.3	107.8	98	37.9	NA		NA
15621	254.9	65.2	29.3	57.9	44.1	NA	NA		NA
15625	353	189.7	423.6	239	399.4	NA	NA		442
15627	286.8	131.6	72.9	230.4	83.8	NA	NA	F2	90
15630	63.1	111	46	42.9	63	40	NA	Garden	40.3
15632	856.8	676.8	426.8	683.2	553.2	NA	NA		NA
15633	146.5	71.6	195.6	84.8	222.3	NA	123		NA
15635	814.4	170.7	330.1	290.2	540.5	NA	NA		NA
15636	118.9	76.8	42	55.9	61.8	57.7	NA		NA
15639	153.3	160.2	79.4	NA	84.7	NA	211		NA
15640	50.9	97.9	68.5	56.3	115.8	NA	NA	B2	166
15641	4377.6	526.4	1460	822.4	504.4	NA	NA		NA
15644	481.4	150	276.5	299.3	104	NA	NA	B2	90.6
15645	87.9	112	114.3	91.3	96.3	74.9	NA		NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
15646	473.6	463.6	NA	591.2	540.8	293.2	NA		774
15649	NA	712.8	484.8	505.6	583.6	NA	482		NA
15652	1373.3	368.6	284.6	368.1	366.7	259.8	NA		NA
15658	340.1	300.2	153.6	312.5	243.5	NA	NA		NA
15660	579.6	131.8	287.8	156.3	107.9	NA	NA	F2	509
15662	318.2	188.1	165.2	227.4	162.5	NA	NA		NA
15663	268.4	73.2	76.7	83.8	82.6	NA	NA		294
15666	325.3	314.3	272.3	150.6	175.3	NA	158.1		NA
15669	2010.7	189.2	108.7	145.8	174.4	NA	NA		NA
15670	94	93.2	90.6	63.7	53.6	NA	NA		NA
15671	39	104.5	48.5	120.3	90.5	NA	NA		NA
15673	103.7	72.9	69.5	86.3	47.2	NA	NA		NA
15679	694.2	287.6	389.8	130	140.1	NA	NA		NA
15680	255.1	29.9	117.5	167	248.9	NA	NA		NA
15681	469.5	129.5	73	85.9	65.7	NA	NA	F2	105
15682	1378.9	391.1	232.6	94.9	180.3	NA	NA	B2	184
15683	793.3	290.5	345.3	266.9	167.2	NA	89.1		NA
15684	68.6	78.2	73	31.7	165.4	NA	NA		NA
15688	241.4	86.6	114.4	184	210.6	NA	NA		NA
15691	467.3	93.3	294.3	278.1	152	272.2	NA		NA
15693	1108.6	608.4	405.6	330.2	277.8	NA	NA		NA
15694	827.8	153.3	229.3	335.4	274.1	NA	NA		NA
15696	2129.6	227.8	166.7	426.8	287.4	NA	94.5		NA
15698	51.3	42.3	51.7	58.3	30.4	NA	NA		NA
15705	347.5	353.4	230.5	154.1	272.4	NA	NA	B1	185
15706	858.5	114.8	186	401.8	270.5	NA	NA		2370
15708	145.5	502.4	541.6	84.8	145	NA	NA		NA
15709	134.5	247	205.9	297.7	101.9	NA	NA		NA
15710	2691.8	241.4	186.9	353.6	377.3	NA	NA		NA
15713	409.4	360.8	705.2	941.6	1189.6	NA	NA		NA
15715	55.5	44.2	ND	43.7	62.1	NA	36.7		NA
15717	626.2	579.9	433.2	107.4	145.2	149.1	130.8	Garden	139
15723	124	156.6	62.2	147.7	296.3	73.6	NA		NA
15726	25.4	63.3	21.2	32.1	34.6	34.7	NA	Garden	35.1
15730	1249.6	275	250.2	308	720.4	NA	NA	F1	274
15733	4922.1	996.8	716.8	408.5	440.5	116.6	NA	B2	548
15736	89.2	92.8	95.3	92.3	129.9	NA	NA		NA
15740	82.6	63.5	51.7	27	37.4	31.1	37.2	Garden	35.1
15741	54.3	46.1	49	64.7	61.2	65.4	NA		NA
15743	1360	290.2	318.4	100.2	287	NA	NA		NA
15744	65.8	67	69.1	36.9	50	NA	NA		NA
15745	81.8	122.4	109.2	63.8	102.9	NA	NA		NA
15747	345.2	198.7	184.9	NA	NA	NA	NA	F1	224
15754	347.6	95.2	141.5	110.5	155.2	86.2	NA	F1	123
15757	74.1	87.9	65.9	ND	91.6	NA	NA		NA
15758	65.6	105.6	73	147.7	156.7	NA	NA		NA
15759	40	123.3	154.3	112.5	131	NA	NA		NA
15767	784.4	248.1	504.8	597.3	585.9	NA	NA	F1	317
15774	191	106	146.2	68	136	73.7	NA		NA

Appendix A
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Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
15780	109.4	104.3	122.6	70.9	60.1	72.3	NA	F1	92.1
15781	115.6	64.5	165.5	58.4	150.2	NA	48.5		NA
15782	185.9	155.8	213.5	116.2	133	NA	NA		NA
15783	150.9	333.1	186.7	275.3	208	NA	NA		NA
15785	4319.7	209	264.8	414.1	671.8	NA	NA		NA
15795	72.6	65.7	65.9	188.3	61.3	46.7	NA		NA
15796	147.4	94.8	83.6	67.9	99.7	NA	NA		188
15799	898.4	315	583.2	NA	NA	NA	NA		NA
15804	425	135.6	253.2	153.4	249.3	NA	52		NA
15807	62.2	28.4	37.5	45.6	66.7	NA	NA		NA
15809	57	56.6	123	85.6	111.4	NA	NA	B2	89.6
15810	302	81.6	101.8	179.5	165.7	NA	NA		NA
15811	422.5	171.8	138.7	138.6	289.6	NA	NA		NA
15818	357.8	201	161.2	261.1	212.3	NA	NA		374
15821	134.2	137.1	152.7	70.5	ND	ND	65.5	Play	52.1
15823	324.4	92.2	NA	213.2	NA	NA	NA		NA
15824	129.4	71.2	144.6	84.2	105.6	NA	NA	B2	175
15825	956.2	374	369.8	281.7	941	NA	NA		NA
15826	40.7	232.1	94.6	149.1	89.1	NA	NA		NA
15831	347.8	206.4	204.8	480.4	319	177.3	NA		NA
15832	751.2	98.7	78.2	50.5	386	NA	144.4		NA
15834	93.9	46.7	61.4	53.6	46.1	NA	NA		NA
15836	69.8	58.8	119.8	88.5	30.4	NA	NA		NA
15840	31.4	50.4	28.8	324.8	192.1	NA	NA	B1	440
15843	376	264	336.3	64.4	56.5	NA	NA		NA
15844	1174	283.3	318.7	151.6	221.4	NA	NA		NA
15846	800.7	444.7	218	366.2	240.1	NA	NA		NA
15848	167.7	134.2	572.4	888	332.4	NA	NA		NA
15849	115.8	76.4	84.8	45.1	65.4	72.1	NA		NA
15852	901.6	172.6	409.2	256.7	183	NA	NA		NA
15853	265.4	470	180.8	150.8	328.5	NA	NA		NA
15854	386	233	184.7	158.2	185.8	NA	NA		NA
15860	512.8	222.2	201.9	370.2	267.8	323.4	NA		NA
15861	603.8	369.5	357.3	159.7	231.8	NA	NA		NA
15866	NA	301	82.8	271.8	143.2	301.1	NA	Garden	323
15868	117.1	46.9	84.4	102	103	NA	NA		NA
15869	923.4	270.3	272.6	470.5	241	NA	NA		NA
15872	107.1	123.2	101.1	86.2	43.6	48.7	48.7	B2	63
15875	3633.5	819.4	348	275.1	277.8	NA	NA		NA
15876	85	44.9	58.1	57.8	43.3	NA	NA		NA
15877	1920	688.4	230.6	575.6	253.2	NA	NA		NA
15882	44.8	40.1	71.3	43.2	70.8	NA	NA		NA
15883	NA	252.2	157.3	324.4	198	NA	NA		NA
15884	507	142.8	111.6	103	90.5	NA	NA		NA
15885	NA	58.6	62.9	52.6	53.5	47.1	NA		NA
15886	565.6	254.2	227.4	232.6	305	NA	NA		NA
15892	464	NA	204.8	NA	249	NA	266		NA
15895	481.4	161.8	183.4	272.3	269.1	NA	NA		NA
15896	28.8	315.1	121.7	71	63.4	NA	52.5		NA

Appendix A
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Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
15898	959.2	191.4	392	226.6	130.3	NA	NA		1330
15900	146.3	178.5	250.4	149.9	286.6	NA	NA		NA
15901	NA	132.4	90.1	81.6	63.7	NA	NA		NA
15902	82.7	161.6	111.1	75.1	96.2	NA	NA		NA
15903	73.2	81	130.8	58.6	50.2	NA	NA		NA
15917	1323	315.5	288.9	89.2	110.7	92.9	189.7	Garden	84.5
15927	424.5	237.4	165.7	341.6	167.9	NA	NA		NA
15928	676.6	240.9	209.4	64.6	76	NA	NA		NA
15931	145.8	94.2	60.6	59.1	120.4	NA	NA		NA
15932	155.7	129.9	206.6	64.2	70.3	NA	NA		NA
15935	33072.3	457.1	923.3	1798.3	940.2	NA	NA		NA
15938	475	306.3	274.1	44.7	163.5	NA	NA		NA
15941	410.3	163.1	226.5	327.9	112.2	NA	44.8		NA
15942	986.8	437.8	315.4	91.4	103.1	NA	NA		1750
15945	368.8	309.1	160.3	198.6	263.5	326.4	NA		NA
15947	1953.4	254.9	360.3	322.1	1695.4	879.1	NA		NA
15954	NA	105	323.2	279	300.8	212.4	NA		NA
15961	178.1	168.8	107.2	56.4	135.8	64.5	NA		NA
15962	353.8	373	165.9	248.9	458.9	NA	NA		NA
15963	561.7	233.2	223.7	345.2	279	NA	NA		NA
15964	1384.9	254.9	251.7	2342.6	1562.3	NA	NA		NA
15965	1049	NA	385	434.1	425.7	NA	NA		NA
15967	139.2	134.4	118.7	98.1	118	240.8	NA		NA
15972	292.9	151.5	153.4	188.3	240.2	153.5	NA		NA
15974	293.2	322.6	237	603.2	160.5	NA	NA		NA
15975	169.8	536.4	252.6	75.9	377.4	NA	NA		NA
15978	164.7	53.5	107.7	65.9	64.5	NA	NA		NA
15979	2819.2	1249.6	723.6	608	466.8	NA	NA		NA
15981	309.9	523.5	257.4	61.3	191.6	NA	NA		NA
15982	182.8	629.8	681.2	273.1	207.4	NA	NA		NA
15983	712.8	418.4	632.4	675.2	NA	NA	NA		NA
15984	372.5	129.3	74.6	86.1	154.4	NA	NA		NA
15990	523.4	389	369.4	231.6	121.5	NA	NA		NA
15991	140.6	140	89.5	151	95.6	47.3	155.2		NA
15993	576.3	71.4	154.8	61.4	284	NA	NA		NA
15996	1149.6	242.4	300.6	201.8	332	NA	330	Play	504
15998	46.3	147.2	303.3	370	483.4	NA	NA		NA
16002	152.1	271.4	141	70.1	88.6	59.3	97	B1	52.3
16003	38.6	28.7	37.7	27.4	29.7	NA	NA		NA
16005	69.8	153	124.9	61.2	56.7	NA	67.4		NA
16009	1058.9	317.3	415.6	353.8	NA	NA	NA		2450
16010	1362.5	248.8	972.5	589	413.6	NA	NA		NA
16014	1100	343.8	213.8	426.4	428	NA	NA		NA
16015	393.5	119.7	1381.4	125.3	178.6	115.6	NA		NA
16016	489.6	460.8	480.4	302.6	163.7	NA	386.6		NA
16019	86	38.1	61.5	60.2	56.6	NA	32.7		NA
16020	386.6	138.8	170.2	193.5	266.8	NA	NA		546
16024	1014.1	338.3	592.8	301	423.2	NA	248.6	Play	279
16033	152.4	121.9	96.5	53.4	179.7	37.3	NA		NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
16038	748	255.8	NA	483.2	NA	NA	NA		NA
16046	703.6	171.2	366.3	85.7	148.9	115.3	NA		NA
16048	559.4	175	69.9	176.7	231.5	315.6	NA		NA
16049	410.7	64.9	169.9	797.8	503.7	NA	NA		NA
16050	98.8	71.6	96.8	97.1	53.9	NA	NA	F1	105
16051	236.2	384	164.6	NA	NA	319.6	400.5	F2	112
16053	323.9	90.1	110.6	77.7	98.6	NA	NA		353
16058	213.3	546.3	119.3	184.8	262.1	NA	NA		NA
16060	124.9	74.4	202.4	177.8	197.1	NA	NA	B2	209
16066	126.6	111.4	126.6	66.4	96	NA	NA		NA
16069	142.5	352.5	433.4	NA	NA	143.6	NA		NA
16073	509.8	268.6	563.4	982.4	554.4	NA	564.6		NA
16075	36.8	48.2	42	26.8	25.3	NA	15.8		NA
16076	1644.4	84.5	65.6	122.1	99.9	NA	NA	B2	84.5
16083	730.3	111.2	451.3	89.6	118.2	89.2	NA		NA
16084	249.6	78.6	69.2	155.9	83.5	NA	NA		NA
16085	56.8	130.5	ND	274.1	92.8	NA	NA		NA
16086	38.8	74.1	73.7	64.1	25.5	NA	NA		NA
16087	226.9	248	254.8	238.4	212.5	NA	NA		NA
16089	3907.2	395.4	234.8	452	452	NA	NA		NA
16090	57.9	90.6	169.9	43.6	133.5	NA	NA		NA
16092	337.7	78.7	108.1	250.8	NA	NA	NA		NA
16095	80.9	251.7	216.6	40.2	89.8	NA	NA		NA
16096	255.6	342	430.8	191.5	121.3	153	NA	F1	382
16097	641.5	378.1	678.5	200.8	374.4	NA	NA		NA
16099	32.8	20.3	ND	93.7	ND	NA	NA		NA
16100	1372.3	416.8	NA	473.2	340.3	NA	NA		NA
16102	330.7	92.6	64	99.2	293.4	NA	NA		396
16105	70.5	156.9	96.6	68	144.5	74.7	NA	Garden	98.7
16108	52.8	ND	44.8	50.5	ND	NA	NA		NA
16111	456.9	369.6	95.7	173.6	117	NA	NA		834
16116	53.8	161.4	142	141.9	273.8	130	NA		NA
16118	409.4	121.8	94.4	255.4	240.6	NA	NA		NA
16119	297.6	159.2	152.3	59.2	141.1	NA	NA		NA
16120	627.1	141	261	171.6	156.5	NA	NA	B1	391
16121	306.8	72.5	163.4	251.8	309.3	NA	NA		NA
16128	493.2	726.4	501.6	137.2	429.6	380.2	NA		NA
16136	211.2	138.9	98.2	113	186.1	NA	NA		NA
16140	1009.6	66.1	103.8	ND	ND	71.6	NA		NA
16143	73.7	32.8	47.3	83.4	40	NA	NA		83.8
16146	303.3	336.2	132.6	211.5	212.2	NA	NA		NA
16148	1077.2	796.3	836.9	520.6	702.5	NA	311.4		NA
16151	49.2	65.9	49.9	ND	46.6	NA	NA		NA
16152	986.4	147.6	191.1	228.2	180.7	286	243.4		NA
16154	68.9	66.5	85.2	ND	61.4	NA	NA		NA
16157	578.1	216.4	569.5	NA	NA	NA	NA		NA
16158	620	97.2	120.1	90.6	86.6	NA	NA		NA
16160	1509.6	456.4	696.4	826.4	610	NA	NA		NA
16161	1409.3	432.4	523.1	659.6	661.3	NA	NA		NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
16166	29.3	68.7	63.6	44.7	46.5	NA	NA		NA
16167	183	439.2	NA	259.2	325.4	NA	NA		NA
16173	28.7	42.9	24.2	66.4	80	NA	NA		NA
16175	270.9	137.9	133.5	NA	201.8	NA	76.3		NA
16177	355.5	297.8	256	377.8	197.9	NA	NA		NA
16178	1889.6	263.4	893.8	660.3	317.8	246.8	NA	B1	685
16180	422.8	93.5	118.9	111.6	150.3	NA	NA		801
16181	154.4	160.6	208	154	148	130.4	NA	Garden	141
16183	269.4	113.5	86.8	119.7	189.3	NA	NA	B1	126
16187	142.6	152.2	169.7	175.3	356	NA	NA		NA
16189	228.8	98.6	153	62.6	156.5	NA	142.5		NA
16190	1734.6	337.1	566.5	188.6	388.6	358.5	NA		NA
16195	1861.7	410.8	778.7	372.5	252.2	NA	252.4	F2	841
16196	57.1	52.8	66.7	82.1	78	NA	105.6		NA
16203	604.2	792.1	NA	559.3	NA	NA	NA		NA
16206	152.1	65.2	113.4	79	78.3	NA	NA		NA
16210	62.6	125.6	30.1	114	40.1	NA	NA		NA
16211	174.9	132	87.1	251.4	190.7	NA	NA		NA
16214	602.4	279	164.3	424	439.2	NA	NA		NA
16216	261.1	44.2	112.4	316.5	364.4	NA	NA		NA
16223	175.8	101.6	224.6	75.7	92.6	NA	80		NA
16225	53.5	51.2	21.1	119.5	55.9	NA	NA		NA
16229	64	156.8	221.4	157	99.8	NA	NA		NA
16233	590.4	466.4	350.8	673.6	520.4	NA	NA		NA
16235	395.2	138.2	218	400.1	409.1	NA	NA		NA
16241	3309.6	199.3	285.5	158.8	189.7	NA	255.7		NA
16242	430.8	315.6	207.4	356.4	217.4	NA	NA		NA
16250	323.4	70.1	93.2	104.2	96	NA	NA		NA
16251	NA	598.2	508.1	156	338.2	NA	NA	B2	411
16252	290.9	498.8	NA	465	NA	NA	NA		NA
16254	NA	447.4	336.5	457.4	NA	NA	NA		NA
16255	137.5	268.7	151.4	101.6	175.9	NA	NA		NA
16258	2468.8	376.4	372.2	383	194.1	NA	179.9		NA
16260	3509.4	500.9	202.6	354.4	415.5	NA	NA		NA
16273	90.2	710.4	511.6	386.4	256	NA	NA		NA
16275	96.6	104.2	129.7	156.9	88.3	NA	NA		NA
16277	NA	251.6	180.9	NA	91.6	NA	NA		NA
16278	173.8	56.4	89.2	110.2	105.1	NA	NA		NA
16280	250.6	NA	NA	208.3	175.7	NA	NA	B1	253
16289	1161.8	193.6	136.5	674.9	507.2	NA	NA	B2	2690
16292	164.4	37.5	87.6	64.2	37.9	NA	NA		231
16293	44.9	49.5	83.7	135.7	66.1	NA	NA	B2	82.3
16300	903.3	194.8	202.6	291	180.2	NA	NA		NA
16301	299	411.6	242	248	303	NA	NA		NA
16302	76.5	94.3	60.3	68.6	61.4	NA	88		NA
16303	288	NA	285.5	223	210.9	NA	NA		NA
16306	333.8	81.3	143.8	177.3	390.4	NA	NA		NA
16313	1114.3	220.1	262.8	530	537	NA	NA		NA
16316	363.6	120.9	121.3	169.6	91.4	NA	NA		NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
16318	NA	69.3	126.2	55.8	143.3	NA	NA		NA
16322	1956.7	1522	373.1	647.6	NA	NA	NA		NA
16324	96.9	45.7	98.4	62.8	153.4	NA	49.8		NA
16325	747.2	293	117.5	121.3	207.4	NA	177.5		NA
16326	1169.6	350.2	294.6	231.4	283.2	NA	NA	B2	422
16327	359.7	102.1	345.6	138.4	113.4	NA	NA	F1	113
16328	703.6	481.6	NA	311.8	581.5	NA	NA	B1	516
16329	35.2	74.1	53.8	120.5	96	NA	NA		NA
16331	269.6	119.3	74.1	159.1	125.7	57.6	NA		NA
16336	304.7	123	106.1	95.4	67	NA	NA		NA
16338	64	33.6	49.3	95.4	44.9	NA	NA		60.2
16340	NA	209.9	349.8	368.4	474.7	NA	NA	B1	352
16344	31.9	46.4	46.3	57.5	71.9	34.3	NA		NA
16346	141.2	43.6	127.4	157.8	172.1	NA	NA		NA
16352	246.9	89.7	70.8	304	233.9	NA	NA		NA
16354	196.2	415	303.6	388.1	224.5	NA	NA		NA
16357	126.7	222.6	105.5	476.4	119.3	NA	NA		NA
16358	481.9	139.2	146.3	236.2	343.4	NA	NA		NA
16360	158.5	278.2	103.6	224.6	183.9	NA	NA		NA
16361	1373	NA	NA	236.5	262.6	154.4	NA		NA
16363	464.4	53.4	82	ND	77.5	60.5	NA	Garden	55.9
16378	59	54.9	42	63.6	78.5	NA	NA		NA
16381	2028.8	326.4	269.2	272.6	801.2	NA	NA		2230
16382	68.7	85.8	89.2	157.9	61.3	NA	NA	B2	64.4
16385	2299.2	103.1	279.6	262.4	286.2	NA	210.4		NA
16386	NA	331.1	NA	291.1	NA	NA	NA		NA
16397	157.6	142.2	188.6	280.8	118.5	NA	NA		NA
16398	384.1	396.9	109.3	121.5	129.1	NA	NA	F2	142
16399	1041.6	552.2	611.2	805.5	637.9	NA	NA		NA
16400	2673.9	619.9	254.1	476.7	306.2	NA	354.7		NA
16401	318.5	149.7	384.4	227.7	243.7	NA	NA		NA
16402	1409.6	NA	NA	560	165.6	NA	NA		NA
16403	419.4	133	89.1	178.5	77.1	NA	95.5		NA
16404	612.5	605.8	474.9	307.1	717.1	NA	NA		NA
16405	302.3	245.9	164.2	278.3	214.1	NA	NA		NA
16410	272.5	129.5	196.5	105.1	191.6	NA	NA		NA
16412	97.7	144.3	88.5	116.8	128.1	NA	NA		NA
16414	69	196.3	180.5	205.9	50	NA	NA		NA
16415	2341.5	110.6	124.8	425.8	231.9	361.3	NA		NA
16416	1002.2	237.9	274.3	245.6	290.6	NA	483.8		NA
16418	305.2	810.4	1748.8	347	407.2	NA	NA		NA
16422	2116.9	156.4	337.9	366.1	581.8	NA	NA		NA
16426	69.5	90.4	65.6	69.6	93.4	NA	NA		NA
16427	162.6	47.6	69.8	102	66.3	NA	NA		NA
16428	756.9	134.6	196.9	105.6	74.6	NA	NA		NA
16429	534.8	168.2	168.1	262	241	NA	NA		NA
16430	129.1	232.8	110.6	171.9	385.8	NA	NA	B1	155
16432	388.6	262.4	220.6	153.8	78.7	NA	NA		NA
16433	NA	144.4	121.1	NA	NA	187.5	NA		NA

Appendix A
Table A-2
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Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
16434	2240	735.2	456.8	1060	466	NA	NA		NA
16436	47.4	131.5	207.1	90	61.5	NA	NA		NA
16437	293.9	129.9	170.1	198.7	129	NA	NA		NA
16442	323.4	479.3	12.7	194.8	114.1	NA	NA		NA
16443	1442.9	331.1	445	925.5	680	NA	206.9		NA
16447	ND	115.2	197.6	165.5	301.8	NA	NA		NA
16453	127.1	82.3	138.5	101.9	44.9	NA	NA		NA
16455	236	189.9	240	136	142	NA	NA		NA
16456	325.2	99.6	119.1	219.2	171.5	NA	NA		NA
16457	253.7	117.8	227.2	131.7	119.3	83.8	NA		NA
16458	403.4	126.4	83.5	127.3	132.5	NA	155.5		NA
16459	137.4	126.6	85.2	92.5	91.8	NA	166		NA
16465	508.3	144.2	252.8	306.3	180.5	NA	NA		NA
16466	211.2	90.8	158.1	430.4	144.5	91.9	155		NA
16467	120.7	65.4	123.8	62	422.2	NA	NA	B2	247
16469	165.6	74.2	59.8	221.2	121.4	NA	NA		NA
16470	877.6	274.4	486.4	280	193.5	NA	NA		NA
16471	64	135.8	225.8	210	121	NA	185.9		NA
16474	218.7	217.4	130.9	203.2	184.3	NA	NA		NA
16475	41.8	25	276.6	131.4	202	147.6	NA	Garden	185
16477	809.2	1031.7	226.9	458.7	258.9	NA	269.9		NA
16480	72	163.1	100.2	19	81.2	NA	NA		NA
16485	337.9	125.6	219.9	149.7	171.5	NA	NA	B2	115
16488	115.9	94.9	114.5	49.5	55.6	NA	NA		NA
16489	118.1	108.9	92.7	145.7	127.2	NA	NA		NA
16490	401.5	155.3	94.4	378.6	237	NA	NA	F1	187
16493	94.2	74.9	55.3	52	40.2	NA	NA		79.3
16495	289.7	123.4	26.4	32.7	239.4	NA	NA		NA
16498	350.4	150	172.9	344	195.7	NA	NA		NA
16500	109.6	101.7	76.1	95.5	74	NA	NA		NA
16507	122.1	84.1	148.2	84.2	98.2	NA	NA		NA
16508	560.6	265.1	243.7	252.7	237.4	126.3	NA		NA
16512	734.8	575.2	242.4	250.4	325.8	NA	NA	B2	432
16514	141.7	168.9	67.7	182.6	54.5	NA	NA	B1	113
16516	342.9	522.2	405	1211	220.1	NA	NA		NA
16517	NA	NA	NA	262.6	173.9	NA	NA		NA
16519	89	116.5	159.5	111.7	64.8	56.6	NA	Garden	61.2
16521	248.3	290.7	396.4	241.8	89	NA	NA		NA
16522	1689.6	485.6	543.6	285.6	542.8	NA	NA		NA
16529	1649	57.5	196.3	265.4	202.5	NA	NA		NA
16534	1304.9	204.6	510.7	701.4	237.7	NA	NA		NA
16536	232.2	142.7	193.6	248.2	156.6	NA	NA		271
16544	ND	354.4	189.4	78.1	82.7	NA	NA		NA
16548	223.6	339.1	199.7	730.5	686	296.9	NA	Garden	557
16553	369.2	202.2	135.1	58.4	172.3	NA	NA		NA
16554	1460.6	362.3	235.9	255.8	321.5	NA	514.7	Play	586
16555	294.4	34.6	31.7	60.2	118.9	NA	NA		NA
16557	1126	385.1	229.6	491.4	249.4	NA	NA	B1	603
16559	228.6	52.5	73.5	433.2	82	NA	NA		NA

Appendix A
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Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
16563	136	48.8	95.9	86.1	63.4	74.7	NA		NA
16565	333.4	186.8	280.6	259.3	210.1	225.1	NA		NA
16567	127.9	74.5	58	36.2	89.5	NA	NA		NA
16568	87.9	61.2	117.1	89.1	118	NA	NA		NA
16569	337.7	69.8	123.2	314.5	346.3	NA	NA		NA
16570	392.2	362	ND	364.2	NA	NA	NA		NA
16574	2249.6	188.4	133.4	284.6	404.2	NA	NA	F1	267
16579	84.1	122.1	194.7	78.7	93.5	66.2	NA		NA
16582	92.5	97.4	140	176.2	120.4	NA	NA		NA
16583	588	221.2	216	132.1	135.2	NA	NA		NA
16584	722.1	373.2	185.7	149.9	327.7	NA	NA	F2	184
16586	201.2	189.7	350.8	205.3	247.4	NA	NA		NA
16588	64.9	110.3	116	86.6	67.7	NA	NA		NA
16590	NA	136.2	540.9	265.5	154.5	NA	NA		NA
16591	102	114.5	144	215.9	343.1	NA	358		NA
16593	185.6	160.8	114.9	190.9	198.6	93.2	NA		NA
16594	554.4	141.4	520.1	266.3	163.3	60.9	NA		NA
16596	NA	254.1	225.3	504.2	340.8	NA	NA		NA
16597	441.1	111	203.6	167.9	295.7	NA	NA	B2	167
16607	1223.5	183.4	70.9	149.9	82.1	184.7	93.3		NA
16609	133.4	420.4	224	168.6	649.2	259.6	NA		NA
16610	430.1	262.5	172.9	94	140.9	NA	NA		NA
16614	62	66.4	58.7	103.3	53.3	NA	NA	B1	107
16619	444	211.6	185.4	265.8	106.7	NA	NA		NA
16620	885.6	194.6	NA	151.5	369	NA	NA	B2	633
16621	255.6	79.5	72.4	246	245.6	NA	NA		NA
16623	517.8	490.3	465.3	826.2	NA	NA	NA		NA
16625	449	215.2	175.2	282.3	92.8	NA	NA		NA
16626	2240	322.4	373.6	282.4	219	NA	NA	F2	410
16631	290.4	62.8	131.3	69.8	ND	ND	NA		NA
16634	285	227.1	97.6	75.6	86.1	NA	NA		NA
16637	415.5	97.5	189.9	131	NA	NA	NA		NA
16638	1320	105.9	95.1	237.6	294.6	150.1	NA	F1	94.9
16644	174.2	153.8	160.8	240.4	193.2	NA	NA		NA
16649	71.7	59.5	78.6	60.1	ND	NA	NA		NA
16650	691.3	150.4	243.3	269.3	160.5	60.5	101.8		NA
16651	131.9	118.1	67.5	160.2	138.5	NA	NA	B1	159
16653	257.1	267.8	292.8	164.3	201.9	NA	NA		NA
16658	960.1	362.7	234.2	379.8	100.1	NA	NA		NA
16660	304.4	216.6	123.8	322.4	186.5	NA	NA	B2	206
16661	1436.5	644.3	248.6	1459.4	111.5	NA	NA		NA
16663	NA	184.9	171.3	NA	NA	NA	NA		NA
16664	951.1	621.4	663.9	447.5	246.9	NA	NA	B2	300
16665	258.9	161.3	165.9	363	NA	NA	NA	F2	468
16667	264.2	194.4	94.2	121.4	179.6	NA	218.2		NA
16669	221.4	100.4	107.2	326	723.6	NA	NA		NA
16672	526.2	209.6	295.5	161.5	120.1	259.4	NA		NA
16673	681.1	726.9	326	273.9	256.1	NA	NA		NA
16674	126.6	299.8	343.7	216.2	205.1	NA	NA	F1	314

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
16677	168.8	161.8	221.7	154.7	149	NA	NA		NA
16678	71.2	94.8	142.4	122.8	143.1	98.3	NA		NA
16679	1858.2	541.2	141.5	280.1	323.5	NA	NA		NA
16680	1817.5	406.3	476.4	550.3	773.1	NA	NA		NA
16682	36.5	29.7	77.8	41.7	74.4	30.5	NA		NA
16686	899	190.2	270.5	334.1	265.7	NA	NA		NA
16690	3193.3	527	836.2	328.4	NA	NA	NA		NA
16694	216.3	84.6	206.2	48.1	100.1	NA	NA		NA
16700	909.5	93.1	101.8	73.3	60.5	43.6	NA		NA
16703	87.7	108.9	25	65.4	49	NA	NA		NA
16707	452.7	797.6	175.1	365.5	185.6	349.9	NA		NA
16716	466.8	119.3	221.8	115.7	237.2	NA	NA		NA
16717	416.8	312	444	656.8	804.4	NA	NA	B1	604
16718	1094.3	798.5	263.5	447.2	767.4	NA	NA		NA
16721	580	226.6	136	132.4	234.2	NA	NA		NA
16725	56.1	34.7	55.2	63.4	153.5	NA	NA		NA
16729	140.3	140.1	53	132	175.9	134.9	NA		NA
16736	1040	134	117.9	106.6	146	NA	NA		NA
16737	50.5	287.3	367.7	223	123	NA	NA		NA
16742	169.9	260.9	237	242.2	123.3	NA	NA		NA
16743	88.1	78.5	69.4	108.4	69.5	NA	47.4		NA
16744	549.9	112.1	100.7	47.8	198.7	NA	NA		NA
16745	4036.6	402.2	1404.8	648.4	109.8	NA	NA		NA
16747	1599.2	126.4	296.6	77.6	167.5	NA	NA		NA
16754	139.8	297.9	157.5	618.7	809.6	NA	NA		NA
16755	62.5	81.6	59.8	73	62.6	66.9	NA		NA
16756	78.8	123	65.7	212.6	67.4	NA	65		NA
16758	960.9	932.9	493.5	NA	285.2	214.1	NA	Garden	233
16759	474	415.6	356.6	153.4	355	NA	78.7		NA
16760	126.3	68	120.7	82.2	48.4	NA	137.2		NA
16761	624.1	207.2	170.9	269.7	119.6	NA	NA		NA
16764	708	226.4	317.2	196.5	86.8	NA	164.3	F1	267
16767	34.9	179	166.4	36.2	259.7	NA	38.2	Play	36.8
16768	NA	92.1	82.9	101.2	33.8	38.3	NA	Garden	26
16779	486.2	425.6	174.8	161	117.9	NA	293.8		NA
16780	340.2	319.4	391	216.2	169.5	NA	NA		NA
16781	1340	135.4	68.6	73	39.9	NA	NA		NA
16782	1017.1	256.6	285.5	162.3	211.9	NA	NA		NA
16785	2725.2	1034.7	325.2	292.5	516	185.2	NA		NA
16795	190.4	196.1	87.3	259.2	282.2	NA	NA		NA
16796	305.8	228.4	218.2	62.5	177.1	58.8	NA		NA
16799	991.2	239	141.7	179.6	213.2	NA	NA		NA
16808	163.5	327.4	135.1	72.5	46.9	NA	NA		NA
16820	196	91.9	109	137.5	130.5	NA	87.4		NA
16823	1438	437.5	435.3	284.4	397.4	183.7	163.7		NA
16825	919.2	156.7	224.6	156.2	215.6	NA	NA		NA
16832	163.1	226.8	116	167.2	102.4	NA	NA		NA
16842	192.2	161.7	96	159.6	114.4	NA	NA	F2	200
16843	246.3	93.2	89.5	190.7	345.7	NA	NA	F2	83.8

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
16848	NA	119.2	68.8	146.2	97.1	NA	152.4		NA
16850	539.6	321.2	357.4	214	214.2	NA	NA		NA
16856	2044.5	245.1	237	172.7	112.3	NA	NA	F1	252
16861	818.9	425.5	309.7	210.7	506.5	NA	NA	B2	615
16865	213.1	22.4	21.6	104.8	63.8	NA	NA		NA
16867	849.4	508.7	381.3	631.7	580.6	NA	NA	F1	819
16870	48.9	75.9	69.5	59.5	71.7	59.7	NA		NA
16873	696.4	105.7	142.5	370	435.2	NA	NA		NA
16876	382.1	264.1	367.2	239.3	95.3	NA	NA		NA
16877	943	1940.9	ND	363.2	162.1	NA	NA		NA
16881	268	315.8	230	35.9	129.2	NA	NA		NA
16882	303.2	147.9	101.3	116.4	244.8	NA	NA	B1	105
16883	621.6	108.5	181.4	168.4	306.4	NA	299		NA
16884	1080	525.2	636.4	754.8	NA	NA	NA		1340
16886	386.4	211.8	386	NA	363.2	NA	NA		NA
16894	NA	NA	399.4	702.1	302.3	NA	NA		NA
16896	52.4	41.6	49.6	51.5	68.2	NA	NA		NA
16899	NA	NA	NA	692.5	201.5	NA	NA		NA
16903	200.4	177.4	211.8	130.1	154.6	NA	NA		NA
16911	2468.8	215.4	248.8	257.6	188.8	NA	NA	F1	283
16913	93.9	99.3	90.2	58.2	NA	NA	47.1	B1	41.4
16914	2619.2	228.8	358.4	468.4	516.4	NA	NA		NA
16915	504.8	194.8	344.2	298.2	189.3	154.5	NA		NA
16916	343.6	117.9	209.6	258.8	NA	NA	NA		NA
16920	1001.2	248.5	496.1	669.3	326.5	NA	NA		NA
16923	43.5	62.4	88.5	121.9	67.6	NA	NA		NA
16924	ND	41.6	50.2	66.7	74.5	NA	NA		NA
16927	236	295.8	245.2	157.3	312.2	NA	NA		NA
16931	43.3	279.2	130.6	100.1	379	NA	303		NA
16932	868.3	268.4	112.4	131	161.6	NA	NA		NA
16933	301.8	256.1	431.1	157.4	107.8	NA	133		1630
16936	93.2	187	141.5	281.7	82.8	NA	NA		NA
16937	493.5	867.7	284.8	524.6	230.3	NA	NA		NA
16942	35.7	134.2	126.6	94.6	129.6	NA	NA	F2	132
16949	2845.4	121.2	213	137.1	226.8	NA	NA		NA
16950	NA	122.6	116.7	136.5	190.1	NA	NA		NA
16954	227	96.5	60	186.9	249.5	153.8	NA		NA
16958	NA	262.6	291.5	702.5	490.5	NA	NA		NA
16962	187.8	545.2	660.8	464.4	338.2	NA	NA		NA
16970	554.2	52.1	263.4	77.1	196.3	NA	NA	F1	57.1
16975	669.6	157.6	133	222.1	229.2	NA	414.5		NA
16981	421.3	318	329.6	129.7	234.5	NA	NA		NA
16986	389	114.6	140.5	115.7	49	NA	NA		NA
16988	380.9	663.1	293.9	386.1	348.2	NA	NA		NA
16989	898.1	782.1	395.6	181.8	123.2	NA	NA		NA
16990	186.4	63.8	53.8	58.3	141.4	NA	NA		NA
16992	927.2	120.8	190.1	95.5	69	NA	183.7		NA
16994	72.2	NA	89.3	69.5	59.3	NA	NA		NA
16995	266.4	212.4	202	209.6	374.8	NA	NA		NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
16999	77.5	105.1	98	37.1	105	NA	NA		NA
17003	72.9	62.9	116.7	60	150.2	41.1	NA		NA
17012	1247.4	472.1	479	153.3	424.2	261.5	NA		NA
17013	208.2	234.6	246.8	233.4	328.2	339.6	NA		NA
17016	451.6	89.1	319.6	226	234.8	NA	NA		NA
17017	495.9	333.4	260.9	160	404.9	NA	NA		NA
17018	152.3	57.9	21.1	58.2	93.3	NA	NA		NA
17020	652.4	526	477.2	509.6	220.8	NA	349.8		NA
17021	298.1	115.3	308.7	380	264.2	NA	NA		NA
17023	1029.6	86.6	114.2	160.4	212.2	NA	NA		NA
17025	1332.9	429.2	284.8	292.5	238	NA	NA		NA
17026	NA	169.2	231.6	109.8	116.5	94	NA		NA
17027	99.6	57	124.8	73.6	79.7	NA	NA		NA
17028	276.6	214	NA	269	630.4	198.4	NA		NA
17031	NA	457.3	577.4	360.4	272.6	NA	NA		NA
17032	926.5	220.7	382.9	172.9	213.4	566.2	53.6		NA
17033	55.9	55.9	67.7	52.9	36.2	NA	NA	B1	52.6
17034	710.4	698	408.6	1240	1229.6	NA	NA		NA
17035	1169.6	569.2	504.8	356.4	518.8	NA	NA		NA
17037	NA	79.1	97.6	25.1	132.4	NA	NA		NA
17042	1228.9	111.7	110.7	80.3	166	318.5	NA		NA
17046	992.9	530.4	173.9	142.3	420.4	507.6	169.3		NA
17047	443.2	579.6	216.8	189.1	507.6	NA	NA		NA
17050	1289.2	200.1	107.3	265.5	202.1	NA	NA		NA
17051	885.6	504	310.6	213.2	460	NA	419.2	F2	626
17053	48.4	48.5	46	30.9	47.7	NA	NA		NA
17056	74.4	115	84.9	32.6	33.7	NA	NA		NA
17059	290.4	161.7	393.8	386.8	248.4	NA	NA	F2	486
17060	348.5	127.6	141.1	59.9	57.9	NA	NA	F2	150
17069	456.4	524.4	1779.2	142.6	ND	1189.6	168.1		NA
17073	152.5	252	140.6	84.8	280.7	NA	NA		NA
17082	70.6	55.7	102.8	53.8	55	NA	NA		NA
17084	3099.2	183.9	168.4	46.1	52.9	NA	NA		NA
17085	99.5	104.8	98.6	43.7	103.1	111.7	NA	Garden	158
17086	524.6	213	212.4	NA	65	119	62.6		NA
17088	105.3	106.5	92.1	190.4	267	NA	NA		NA
17090	505.6	325.6	497.2	440	468.4	NA	NA	F2	836
17092	650.9	679.7	334.7	509	NA	NA	NA	F1	623
17094	548.8	397.4	556	474.4	530.8	NA	NA	B1	461
17099	53.6	72.5	460.3	55.5	117.9	374.5	NA		NA
17101	664.4	142.2	266.4	750.4	126.9	79.6	NA		NA
17102	360.7	88.5	94.2	137.5	71.6	NA	99.5	B1	134
17104	905.6	367.4	260.8	287.2	277.6	NA	NA		NA
17106	NA	233	313.2	568.8	463.6	NA	NA		NA
17107	76.9	164.9	141.7	84.2	90.6	NA	NA		NA
17112	1482.3	409	259.1	225.4	519.9	NA	NA		NA
17113	NA	77.6	110	85.6	162.3	59.7	NA		NA
17117	31.9	43.6	24.9	48.4	80.2	NA	NA		NA
17119	227	133.9	114.7	147.1	217.9	NA	NA		NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
17120	403.8	233.6	386.7	559	NA	NA	NA		NA
17123	62.6	54.3	55.4	30.1	NA	48.3	NA		NA
17124	301.1	244.2	88.1	125.7	104	NA	NA		NA
17125	243.4	85.6	254.4	387.2	487.4	175.2	NA	Garden	147
17126	414	NA	192.3	354.8	349.2	NA	NA		NA
17127	2019.2	626.8	243.8	925.6	303.4	NA	NA		NA
17129	278.6	240	223.6	169.3	310.6	130.2	176.7	Garden	252
17130	82.8	56.4	86.9	96.3	119.9	NA	NA		NA
17131	715	252.7	372.7	400.3	333.4	NA	NA		NA
17132	180.7	505.8	778.6	139.9	304.1	NA	NA		NA
17133	249.6	96.1	75.8	241.2	111.4	NA	NA		324
17137	1100	218.4	201.1	624.4	214.2	NA	NA	F1	431
17138	4644.7	474.4	195.3	73.9	130.8	228.7	NA	B1	100
17140	1274.5	415.4	238.9	325.5	262.1	175.4	NA		NA
17143	2089.8	218.2	395.3	142.9	958.7	NA	NA		NA
17145	192.9	50.9	73	74.1	67.9	NA	NA		NA
17148	1338.9	162.6	389	482.4	591.6	NA	NA		2520
17149	321	235	163.7	122.1	143.6	NA	NA		NA
17153	612.8	422.7	299.9	316	294	NA	186.4		NA
17155	26.1	189.7	472.5	283.3	300.1	NA	NA		NA
17157	NA	52.2	104.5	51.9	59.8	NA	36		NA
17159	742.3	242.2	237.1	126.3	293.6	NA	126.8		NA
17162	2973.4	2219.4	168.2	90.3	119.9	NA	NA		NA
17168	NA	241.8	1096.2	459.8	1003.2	NA	NA		NA
17169	2235.5	207.5	124.9	NA	358.7	NA	NA		NA
17175	1649.2	477	320.5	485.5	413	NA	NA		NA
17176	593.6	291.4	NA	611.6	210.8	NA	NA		777
17181	238.2	128.4	NA	220.5	ND	NA	NA		NA
17182	161.5	167.4	211	304.7	205.3	NA	246.6		NA
17183	1748.8	418.8	324.6	424.4	1229.6	NA	NA	B1	498
17186	1469.6	206	273.6	223	563.2	NA	NA		NA
17187	180	762.6	698.5	75.5	83.8	NA	NA		NA
17188	485.3	423.4	217.4	60.3	198.6	NA	NA		NA
17192	657.2	214.2	291.6	221.6	241	NA	NA		NA
17194	433.6	215.2	NA	219.2	225.8	NA	NA	F1	156
17195	1169.6	66.8	76	218.4	381.8	NA	NA		NA
17196	2129.6	132.6	NA	176.6	NA	NA	NA		NA
17197	382	310.8	476.4	233.4	351.6	NA	NA		NA
17200	214.2	366.1	275.1	283.7	242	NA	NA		NA
17201	1040	164.6	178.1	229.8	175.1	NA	83.9	Play	131
17204	72.7	74.6	123.9	48.5	67.7	65.7	NA		NA
17206	187.3	247.5	NA	NA	NA	NA	NA		NA
17207	434.8	185.3	416.8	221.6	76.3	51.1	43.3	Garden	35.3
17210	110.5	558.5	352.1	83.8	128.5	NA	NA		NA
17213	163.6	55.3	128.3	134.6	49.7	NA	NA		NA
17214	299	225.3	201.4	241.5	305.3	NA	NA		NA
17218	112.1	104.5	107.8	85.9	62.9	NA	NA		132
17219	91.4	57.8	67	51.8	54	NA	NA		NA
17220	258.7	189	174.3	48.3	101.7	NA	NA		237

Appendix A
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Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
17227	1436.5	295.5	371.6	414.3	140.5	NA	NA		NA
17229	1389.6	1040	299.4	49.7	102.9	NA	NA		NA
17230	52.8	160.3	367.2	131.7	156.9	NA	NA		NA
17231	1136.6	161.5	147.7	149	357.5	NA	239	B1	202
17233	NA	NA	NA	258.7	210.4	NA	NA		NA
17237	315.6	191.2	175.5	67.2	111.9	NA	NA		NA
17240	69.9	46.9	43.8	51.5	ND	33.2	NA	B1	53.9
17244	379.5	322.6	458.7	283.9	225.5	197	NA		NA
17248	908	424	311.2	260.8	291.6	NA	NA		NA
17250	661.7	579.9	2072.1	729.1	482.7	NA	NA		NA
17252	956	624.4	255	220.6	488	NA	NA		NA
17254	75	84.3	82.6	43.9	37.2	NA	NA		NA
17255	337.8	156	193.5	107.3	100.6	328	NA		NA
17256	485.2	207	159.5	86.2	241	NA	NA		NA
17257	910.4	124.2	70.7	90.5	155.7	NA	NA		NA
17258	330.2	234	173	227.2	138.6	NA	NA		NA
17263	NA	257.4	268.4	439.9	217.8	NA	NA	B1	469
17264	NA	149.7	117.5	145.6	153.8	68.4	NA		NA
17267	138	250.9	302.4	202.2	216.1	NA	NA		NA
17271	1627.5	141.6	137.2	219.2	286.8	NA	NA	F2	184
17280	448	162.3	188	NA	202.6	NA	NA		NA
17283	290.2	167.3	182.1	89.2	153.8	112.2	NA		NA
17286	174.8	76	93.6	119.5	ND	70.9	NA		NA
17287	69.5	98.5	57.7	48.1	45.9	119.1	NA		NA
17288	277.2	136.6	243.2	124.3	112.9	NA	NA		NA
17290	80.1	125.9	130.3	86.6	195.1	NA	NA		NA
17293	7202.7	238.2	113.9	242.8	145	NA	729		NA
17294	279.5	525.6	322.5	144.8	284.1	228.7	NA		NA
17295	237	248.8	112	100	111.9	NA	NA		252
17297	75.6	39.1	52.6	54.4	75.7	NA	NA		NA
17304	496.8	263	330.6	193.1	379.8	NA	NA		502
17307	1203.5	197.6	327.1	405.7	2751.4	NA	NA		NA
17308	51.9	75.7	67.3	85	31.6	NA	NA		NA
17309	787	274.5	382.8	599.3	2628.8	NA	NA		NA
17310	466	516.8	223.2	153.3	200.8	NA	NA	B2	364
17312	711.9	331.3	149.5	382.6	671.1	NA	NA	B1	1190
17314	16144.9	3156.4	1049.9	1779.3	3224.9	NA	NA		NA
17315	67.1	57.3	104.1	72.5	90.1	NA	NA		NA
17320	285.7	157.1	201.1	NA	NA	NA	NA		274
17321	437.1	228.1	241.8	252.7	562	NA	NA		NA
17324	250.8	256.7	330.8	437.1	224.6	NA	NA		NA
17325	138.6	171.6	96	102.8	133.7	NA	112.6		NA
17327	70.4	46.7	37.9	36	96.2	NA	NA		NA
17328	193.5	170	166.4	253	126.1	NA	NA	B1	341
17331	983.4	529.4	313.3	73.1	161.7	92.1	NA	F1	766
17332	83.9	189.3	990.4	390.5	518.7	NA	NA		NA
17336	499.9	241.5	169.7	247.9	148.6	NA	NA		NA
17338	4089.6	273.4	398.2	771.6	451.2	NA	NA		NA
17340	107.3	53	111.5	144.7	125.8	NA	319.6	F1	69

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
17342	263.6	1743.2	426.6	594.5	274.7	NA	NA		NA
17343	117.6	232.8	462	94.3	349.6	NA	NA		NA
17349	28.2	88	113.2	65.1	61.7	26.8	NA		NA
17351	77.1	108.6	132.2	871.2	215.4	NA	NA		NA
17354	945.7	991.4	250.6	281.6	183.5	NA	NA		NA
17355	860.3	222.6	639	399.5	106.1	NA	NA		NA
17356	170.8	100.6	138.1	68.7	114.8	NA	NA		NA
17357	161.4	78.5	107.7	119.8	132.5	127.6	NA		NA
17361	223.7	231.7	699.9	134.1	203	NA	NA		NA
17363	267.6	143.8	131.8	133.9	137.4	NA	NA		NA
17364	324.6	618.3	293	155.8	172.3	NA	NA		NA
17365	725	NA	NA	197.7	300.7	NA	NA		NA
17368	179.1	436.2	228.4	559.4	164.2	NA	NA	F1	516
17369	354.4	276.3	162.4	172.6	213.6	NA	NA		NA
17370	640.6	52.5	340.5	80.8	27.7	NA	NA		NA
17372	NA	111.5	107.9	41.6	ND	NA	NA		NA
17377	366.2	336.8	255.2	191.1	538.4	NA	NA		NA
17378	405.9	157.5	128.9	204.4	167.1	NA	NA		NA
17381	66.5	54.4	51.8	98.1	47	121.9	NA		NA
17384	195.7	117	120.5	84	101.5	NA	115.7	B2	75.2
17386	426.5	109.9	65	51.5	50.9	NA	NA	F2	72.7
17389	301.2	203.4	113.6	414.8	244.5	383.3	NA	F1	198
17391	381.8	196	626.8	209.8	149.4	287.4	NA	F1	265
17394	1323.3	307.5	167.4	228.6	226.6	162.1	182.1	Garden	129
17395	1059.6	1563.7	964.5	223.4	425.9	294.1	NA		NA
17396	41.8	65.9	43	68	37.6	NA	NA		86.8
17397	434.8	434.8	435	273.5	243.9	349.4	NA		NA
17398	341.1	NA	334.2	NA	507.3	463.4	210.8		NA
17403	566.8	374.4	345.4	337.6	406.8	NA	NA		NA
17404	483.7	280.1	1221.6	461.4	241.8	NA	197.9		NA
17405	302.3	146.5	281.4	107.9	62.9	NA	182.2		NA
17407	2268.8	564.8	762.8	438	596	180.4	NA	B1	822
17410	1969.6	252.6	275.2	191.7	514.4	310.6	NA		NA
17411	327.8	210	155.2	201.6	209.7	NA	NA		231
17412	38.5	657.3	305.2	59.5	38.2	NA	NA		NA
17413	67.9	45.7	44.1	98.3	67.8	NA	NA		NA
17421	104.2	255.2	187.3	115.3	447.8	NA	NA		NA
17422	1509.3	270.8	470.6	722.2	159.2	NA	NA		NA
17423	80.4	182.4	73.9	70.3	343.6	NA	NA	B2	397
17426	667.2	467.2	NA	216.2	NA	192.3	NA	Garden	205
17429	744.8	420	117.9	400.5	220	NA	NA		NA
17436	450	665.3	149	53.8	285.8	314.4	NA		NA
17438	3219.2	245	602	167.5	167.1	225.8	NA		NA
17440	125.1	177.9	151.6	67.8	91.5	NA	NA		NA
17441	3200	539.6	980	251.4	212.6	347.2	NA		NA
17444	586.6	1085.6	656.5	688.8	535	NA	NA		NA
17445	929.2	170	195.2	270.9	226.1	NA	121.6	B1	319
17447	94.4	107.6	176.1	215.2	118.7	NA	NA		NA
17448	56.3	42.8	59.6	38.8	50.8	NA	NA		NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
17454	982.4	NA	NA	632	432.8	NA	NA		NA
17457	127.6	60.9	62.6	46.1	59.2	NA	NA		NA
17465	NA	261	346.6	174.6	100.4	NA	NA		NA
17466	350.8	233	321.4	310.8	372.8	NA	NA		NA
17470	NA	76	153.4	NA	90.1	NA	NA		NA
17472	552.4	180.6	135.6	177.9	363.6	346.4	NA		NA
17473	171.1	249.6	49	428	253.6	NA	NA		NA
17474	NA	272.9	440.2	678.9	582	NA	NA		NA
17477	23.9	59.1	51	110.6	73.7	NA	NA		NA
17479	207.1	326.4	258.5	405.2	179.6	NA	NA		NA
17480	604.7	118.4	115.8	294.1	135	NA	NA		NA
17481	60.9	245.5	169.7	64.3	51.3	NA	NA	F2	191
17482	799.7	124.1	283.5	175.9	195.8	NA	NA		481
17483	1562.9	391.2	461.1	468.7	469.2	NA	NA		NA
17484	2249.7	1200.6	321.8	583	538.1	NA	541.9		NA
17485	1517.8	350	174.6	598.1	365.7	NA	122.4		NA
17486	5544.6	193.2	360	430.9	433.9	NA	NA	F2	431
17489	135.8	141.5	370.9	223.2	309.9	NA	NA		NA
17496	373	534	448.8	637.2	522.4	NA	NA		NA
17497	327.2	182.4	117.8	151.4	265.4	189.4	NA		NA
17500	1049.6	1868.8	4547.2	324.2	2720	NA	525.2		NA
17504	1229.6	360.2	427.2	148.6	161.2	NA	NA		NA
17508	93.4	78.2	68.9	214.6	226	NA	NA		NA
17509	1409.6	137.5	162.9	207.2	186.8	NA	160.3	Play	242
17513	518.8	249.2	436.8	250.8	215.2	NA	279.8		NA
17516	101.2	426.4	133.6	150.7	125.6	NA	NA	B2	160
17520	120.5	136.9	183.6	81.9	124.8	NA	NA		123
17522	845.6	297.4	385.2	160.6	214.6	NA	NA	F2	397
17523	388.6	210.4	383.3	111.1	262.4	NA	NA	B2	273
17526	117.2	52.1	63.6	55.1	43	NA	65.5		NA
17528	48.9	183.5	59.7	80.8	70.2	81.9	NA		NA
17529	479.4	201.2	337.1	364.2	395.7	NA	NA		NA
17531	477.6	362.2	365.6	334.8	223.6	NA	NA		NA
17532	1509.6	189.5	279.8	375.8	207.6	NA	NA		NA
17535	241.5	109	140.6	176.7	67.1	NA	NA		NA
17536	63.3	72.3	88.8	47.1	38.6	NA	NA		NA
17538	48.9	80.4	68.2	58.6	136.7	NA	164.3	B1	61.1
17539	519.6	292	282	573.6	1819.2	NA	NA		NA
17541	1615.3	1850.7	1176.9	370.6	604.4	NA	407.4		NA
17544	797.8	490.4	539.2	447.7	177.6	NA	NA		NA
17545	NA	135.4	293.9	120.7	254.4	NA	NA		NA
17546	114.6	50.4	87.9	138.3	78.3	94.5	NA		NA
17548	1033.6	374.6	194	279.3	322.7	NA	NA		NA
17551	1060	272	145.9	1000	1429.6	NA	NA		NA
17552	2904.9	282.5	391.8	353.1	170.8	NA	214.4		NA
17553	881.1	313	304.7	316.9	287.5	NA	NA		NA
17559	71.6	132.1	122.8	102.2	324.4	NA	NA	B2	280
17560	705.5	62.9	345.6	369	209	NA	NA		NA
17564	64.8	228.6	86.2	68.9	108.1	NA	NA		NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
17567	1256.6	482.1	260.6	348.9	286.9	NA	NA		NA
17568	717.5	598.9	789.8	195.9	238.8	NA	NA	B1	166
17569	1321	267.4	65	227.5	1410.3	NA	NA		NA
17572	90.2	94.4	82.3	80.2	54.8	NA	59.6		NA
17573	885.7	230.4	364.7	698.7	109.6	NA	NA		NA
17579	1403.2	187.4	316.3	56.6	NA	NA	NA		1670
17580	388.4	NA	209.7	NA	NA	NA	NA		NA
17581	602.7	214.2	177.5	374.1	486.8	NA	NA		NA
17584	422	232	225.8	80.5	NA	NA	NA		NA
17591	1525.2	581.5	473.9	127.7	262.7	NA	NA	B1	215
17594	416	48.8	58.4	88.5	48.9	NA	NA		NA
17595	1040	536	667.6	730	304.8	609.6	NA		NA
17596	45.1	77.8	64.8	43.4	65.2	NA	NA		NA
17598	106	55.2	123.4	94	51	NA	NA	F2	134
17600	1177	126.8	187.6	51.1	689.2	NA	113.7		NA
17602	2720	916	NA	NA	NA	NA	NA		NA
17603	380	235	387.3	242.6	268.3	NA	NA	F1	293
17604	112.6	87.8	161.1	80.1	51.4	NA	121.2	B1	76.8
17607	589.3	317.8	276.2	149.4	182.2	NA	NA		NA
17613	1995.1	431.3	447.7	280.8	164	221.2	NA		NA
17614	67	ND	349.8	157.9	61.9	NA	NA		NA
17616	661.6	534.8	197.9	233	296.4	243.6	NA		NA
17619	274.6	335.6	305.5	312.2	311.4	249	NA		NA
17623	NA	532.7	NA	386.6	222.9	NA	NA		NA
17626	488.6	310.5	299.5	296.2	161.5	NA	NA	B2	209
17628	1764.1	578.9	291.1	725.1	1003.5	NA	NA		NA
17631	142.7	167.6	139.3	82.1	88	NA	NA	F1	146
17632	84.8	129.7	204.5	124.3	88.8	NA	NA		NA
17633	1739.5	156	123.7	306.4	320.4	84.9	NA	Garden	1920
17635	566.1	269.4	141	217.8	157.7	NA	NA		473
17636	2230.2	312.9	96.5	113.9	89.9	NA	NA		NA
17639	69.8	83.8	114.8	47.7	139.7	NA	NA		NA
17640	1729.6	131.8	332	326	631.6	NA	NA		NA
17644	3878.6	256.9	216.6	507.9	518	NA	NA		NA
17646	384.6	138	285.8	149.5	172.8	NA	25.3		NA
17649	217.9	237.7	148.7	165.4	468.3	NA	NA		NA
17651	540.3	162.2	177	151.3	253	NA	NA		NA
17653	39.9	135.7	150.2	32.4	24.2	28.4	NA	Garden	31.4
17654	164.5	138.5	197.5	270	1051.5	NA	108.8		NA
17656	612.8	253.3	866.4	238.4	334.8	NA	NA		NA
17659	NA	271.6	341.3	NA	NA	NA	NA		NA
17664	302.5	593.8	142	204.2	549.8	NA	NA		NA
17665	533.5	431.5	263	152.8	140.7	NA	NA	F1	446
17672	2120	601.2	490	704	804.4	NA	NA		NA
17675	40.2	109.4	171	95.8	71.3	NA	NA		NA
17678	89.2	117.1	101.9	520.6	71.9	NA	NA		NA
17681	1719.2	318.3	267.3	180.5	193.8	NA	266.7		NA
17682	362.2	67.4	212.8	742.4	1320	462.4	688		NA
17684	512.5	87	115.1	609.5	205.2	NA	NA		NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
17687	477.6	250.2	134.5	126.4	128.6	NA	NA	B1	148
17688	62.3	101.3	73.1	260.4	293.4	NA	NA		NA
17689	1265.6	268.1	445	264.6	703.9	NA	NA		NA
17690	103.5	121.6	92.9	98.2	78.1	NA	NA	F1	174
17696	1229.6	331.2	1180	731.6	558.8	772	NA		NA
17697	1413.4	319.5	1005.8	NA	141.9	NA	251.8		NA
17702	257.8	179.2	42.1	92.9	57.8	NA	NA		NA
17704	183	124.7	138.3	257.2	285	107.3	NA		NA
17705	76	90.1	62.3	58.1	37.9	NA	NA		NA
17706	568.4	179.4	146.1	96.8	478.8	NA	NA		NA
17707	975.2	229.8	345.3	274.2	298.3	NA	NA		NA
17709	68.6	88.9	75.3	63	106.7	NA	NA		NA
17712	1124.6	663.3	224	457.7	353.5	NA	NA		NA
17714	406.6	290.6	113	226.2	379.6	NA	NA		NA
17715	1088.8	68.3	227.4	76	111.7	NA	NA		NA
17717	444.1	177	257.2	222.5	242.8	NA	NA		NA
17720	83.6	86	283.6	93.7	75.2	NA	NA	F1	57.7
17726	140.9	140.1	238.7	169.8	163.4	NA	116.7	Play	170
17729	280	746.8	1400	113	152.1	NA	NA		NA
17734	688.5	542.8	813.1	173.6	344.6	NA	NA		NA
17737	1429.6	571.6	540	226.2	158.4	NA	200.6	B1	285
17739	94.7	134.6	115.2	266.9	ND	NA	NA	B1	310
17740	1324.4	562.7	171.1	344.4	58	NA	NA		NA
17741	2689.5	384.3	469.4	NA	327.6	154.1	NA		NA
17746	487	138.8	173.5	205.4	211.3	NA	NA		689
17748	136.3	88.9	74.2	115.5	145.9	NA	NA		NA
17750	156.9	568	137.4	350.2	203.1	NA	NA		91.2
17752	435.5	90.3	163.5	NA	68.2	44.5	NA		NA
17754	1260	431.2	632.8	272.4	401.4	131.5	NA		NA
17757	81.4	75.5	44.6	43.5	43.7	NA	NA	F1	56.8
17758	1077.6	861.5	312.2	816.8	727.1	NA	NA	F1	716
17759	210.1	111.7	71.4	181.4	NA	NA	NA		NA
17761	596	488.5	313.7	202.9	233.1	NA	NA		NA
17762	58.8	106.1	64.5	112.5	76.8	NA	NA	B2	60.2
17763	356.1	80.2	167.5	178.1	174.9	NA	153.8	Play	169
17764	560	486	488.4	332.6	498.4	NA	NA		NA
17767	1477	486	126.5	230.9	164.4	102.4	NA		NA
17768	81.7	151.8	205.3	159.6	194.9	NA	NA		72.8
17770	573.6	136.6	331.6	340.2	447.2	NA	NA		NA
17771	132.3	85.3	148.2	81.2	353.7	NA	NA		NA
17772	208.4	108.1	400.7	394.5	637.5	NA	NA		NA
17774	NA	117.8	154.6	190.4	210.9	NA	NA	F1	151
17777	269	234.9	282.6	142.4	150.5	NA	NA		NA
17779	537.1	455.8	320.5	1651.5	364.4	NA	278.3		NA
17781	591.7	82.1	96.9	92.6	203.8	59.2	NA	Garden	68.9
17783	474.6	212.8	205.2	315.7	311.9	NA	NA		NA
17784	880.8	232.4	493.1	370.8	NA	223.6	NA	F1	255
17786	148.4	ND	70.6	41	49.2	NA	NA		NA
17787	185.2	128.4	242.2	431.6	360	NA	NA		NA

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Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
17788	425.6	129.1	218.2	301.4	258	NA	NA		NA
17789	1115.3	249.5	816	441.7	247.1	NA	326.3		NA
17791	ND	61.6	83.1	ND	59.7	NA	NA		NA
17796	228.2	82.9	70.4	106.7	86.2	NA	NA	B2	100
17798	220	63	NA	300.4	314.4	NA	NA		NA
17799	534	169	108.1	133.6	339.3	NA	NA		NA
17808	556.8	550	623.2	252	660.8	NA	75.1	Play	125
17811	780.4	272.4	NA	420.8	NA	NA	NA		NA
17812	674.5	257.7	177.2	242.5	319	NA	NA		NA
17814	74.6	110.9	65.3	67.3	76.1	NA	NA		NA
17815	1960.9	158	78.3	568.9	322.5	NA	NA		NA
17816	624.8	303.2	151.6	289.6	177.2	375.4	NA	Garden	547
17819	515.2	310.4	315.5	389.3	323	34.4	NA		NA
17822	885.6	201.5	91	384.6	192.7	314.6	NA		NA
17824	61.2	226.2	231	78.2	94.7	45.2	NA		86
17825	144.3	110.6	118.7	62.6	101.3	NA	98.4		NA
17826	245.1	229.4	103.6	196.8	56.5	NA	NA		NA
17828	349.4	147.7	670.5	369.5	715.5	NA	NA		NA
17832	975.7	333.8	286.3	281.9	235	202.3	NA		NA
17835	872.8	200.2	253.4	212.6	336.8	NA	932.8		NA
17837	3790.1	453.3	247.4	836.1	223.8	NA	NA		NA
17842	273.9	185.5	115.2	147.8	179.3	NA	NA		NA
17845	1316.5	241.7	465.7	226.8	857.4	NA	1076.4		NA
17850	424.7	106.7	163	NA	317.4	NA	NA		NA
17852	691.6	285	341.8	337.8	440	NA	NA		NA
17853	35.8	65.2	55.4	196.7	247	NA	NA		NA
17854	678.2	183	275.5	112.4	228	NA	NA		NA
17857	222.9	359.6	229.7	204.4	280.4	NA	163.9		NA
17860	35.2	86.7	71	110.9	119.5	21.1	69.5	B1	122
17862	124.5	97.9	113.7	80.9	92.8	NA	NA		NA
17866	62.4	74.5	83.6	60.1	60	NA	NA		NA
17869	430.6	624.9	716.2	788.6	409.4	NA	526.9		NA
17873	264.1	112.7	108.1	162.8	93.6	NA	NA	B2	93.3
17874	2668.8	319.2	132.5	352.8	359.2	NA	355.6		NA
17878	763.4	937.6	1177.3	742.6	NA	NA	365		NA
17880	121.3	173	87.1	53.6	57	NA	NA		NA
17882	649.6	290.2	508.4	468.8	203.6	NA	NA		NA
17884	825.6	339.5	729.9	137.8	119.3	NA	NA		NA
17885	100.1	150.3	208.7	334.8	329.8	NA	NA		NA
17892	415	53.2	238.4	195.1	277.5	NA	NA	B2	484
17894	85.3	351.8	82.6	125.7	107.5	NA	NA	F1	110
17895	300.5	612.3	214	400.8	261.4	NA	NA		NA
17896	206.5	192.4	147.6	544.6	457.1	NA	NA		NA
17898	102.4	585.8	267.1	465.7	106.8	NA	113.5		NA
17900	900.8	295	125.4	223.2	137.6	NA	NA	B1	432
17901	434.4	93.9	170.4	102.7	137.7	NA	NA		NA
17909	1325.6	209.2	357.6	522.3	838.3	NA	NA		NA
17911	201.9	363.6	354.1	319.9	374.6	NA	NA		NA
17914	1868.8	368.2	317.4	498.8	NA	NA	NA		NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
17919	805.2	90.6	112.3	210.4	293.4	NA	NA		NA
17922	518.2	208.4	377.6	255	496.2	NA	NA	F1	208
17926	102.7	191.1	527.2	227.4	193.1	NA	NA	F1	224
17927	505	401.2	230.9	416.3	391.3	NA	NA	B1	413
17929	ND	ND	70.9	51.7	51.3	NA	NA		NA
17930	190	255.1	150.9	122	258.9	NA	288.8		NA
17936	590	383	234.6	NA	NA	381	NA		NA
17940	NA	205.2	292.4	NA	NA	NA	NA		NA
17942	113.5	64.1	140.9	61.3	30.7	NA	NA		NA
17943	344.4	486.4	142.1	341.5	110.2	NA	NA		NA
17947	944.4	364.4	268.9	350.1	336.9	NA	NA	F1	463
17949	2009.1	206.2	130.9	288.1	301.1	NA	NA		NA
17950	97.6	169.9	197.4	95.3	114.3	NA	NA		NA
17951	74.3	54.7	61.2	107.1	137.9	ND	NA		NA
17954	55.3	83.2	126	140.1	45.1	NA	NA		NA
17955	321.1	408	148.2	85.4	72	NA	NA	F2	234
17956	347.9	261	160.7	61.1	52.3	NA	NA		NA
17959	163.1	120.7	116.9	121.1	91.4	NA	NA		NA
17962	130.5	170.5	109.8	524.1	147.8	NA	NA		NA
17966	190.1	230.6	210.6	291.8	258.6	NA	NA	F2	320
17969	2854.4	1078.7	340.7	401.1	630.6	NA	NA		NA
17973	621.5	228.5	190.7	267.9	143.7	NA	111.8	Play	135
17977	555.2	147.4	133.7	552.4	276.4	NA	NA		NA
17978	71.7	42.4	62.9	36.4	35.7	NA	29.1		NA
17980	1020.8	678.8	620	611	503.1	NA	NA	F2	614
17982	893.6	242.2	439.2	189.8	247.6	NA	NA		NA
17983	168.8	298.4	218.2	165.9	152.7	NA	NA		NA
17986	52.6	61.3	63.1	32.4	47.7	NA	NA		NA
17988	212.5	68	87.3	202.1	130.9	NA	NA	B1	265
17990	2076.8	290.9	1054	298.7	1042.5	671.6	NA	F1	394
17992	80.7	165	981.9	28.5	68	NA	NA		NA
17994	751.9	114.3	32	251.6	138.8	NA	NA		NA
17995	78.5	202.1	135.9	143.5	163.3	NA	NA		NA
17996	57.8	381.8	159.8	337.6	224.6	NA	NA		NA
17997	2665.9	219.3	597.1	560.1	4116.4	NA	NA		NA
17998	386.6	260.1	195.3	72.8	779.4	NA	NA		NA
17999	669.6	183.6	324	435.2	391	NA	NA		NA
18000	2129	69.7	129.9	668.9	145.1	NA	NA		NA
18002	143	146.9	71	59.2	69	31.6	NA		NA
18003	56.3	48.9	129.5	65.7	77.4	NA	NA		NA
18004	844.8	1109.6	676.8	310.2	481.2	NA	NA		NA
18008	588.4	199.1	133.5	135.3	148.1	NA	NA		481
18010	501.2	664	216.8	332	314.8	NA	490	B2	330
18012	804.8	220.8	181.7	220.2	147.5	NA	NA		NA
18015	2649.6	260.8	1209.6	107.1	271	129.1	NA		NA
18017	73.5	141.8	99.2	74.6	35.5	NA	NA		NA
18022	670.1	265.6	147.7	428.2	301.3	NA	NA	F2	165
18025	1538.4	672	246.4	1705	45.6	NA	NA		NA
18026	5458.1	766.4	1138.2	343.3	517.4	NA	NA		NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
18027	328.4	351.2	888	156.7	464.8	210.4	267.6	Play	445
18029	1477.5	91.8	157.8	53.8	100.5	193.1	138.7		2660
18030	1605.9	273.4	106.9	136.8	127	NA	NA		NA
18031	1069.2	367.3	102	1377.3	135.4	NA	NA		NA
18033	240.8	190.3	232.8	353.8	703.2	353	NA	F1	107
18034	62.3	49.5	69.6	34.5	31.9	NA	NA		NA
18035	2547.6	392.6	122.5	113.3	124.7	NA	NA		NA
18038	1584.1	72.8	119	534.3	279.2	NA	NA		NA
18041	367.4	139.9	418	159.3	121.3	NA	NA		NA
18047	468.4	233.2	374.4	79	275.2	105.4	155.9	F2	401
18052	61.8	240.6	278.6	99.6	100.4	NA	NA	B1	135
18059	32.5	22.3	33.4	71	38.3	NA	NA		NA
18060	686.8	133.1	299.9	564.2	1258.4	NA	655.3	Play	502
18062	125.6	77.5	63.5	209.1	61.9	64.7	NA	Garden	58
18063	838.9	358.7	122.6	301.5	459.4	NA	NA		NA
18064	928.3	276.6	109.9	132.7	81.9	136.8	NA		NA
18066	477.9	205.2	362.1	717.2	718.5	NA	NA		NA
18070	291.3	168.4	214.5	241.9	376.4	NA	NA		NA
18071	358.2	327.5	471.2	208.1	451.9	NA	293.9	F1	7230
18072	1373.6	204.6	481.3	1095.6	358.2	NA	NA	F1	300
18073	731.2	1289.6	218.8	599.2	221.6	NA	NA		NA
18078	58.4	49.3	65.5	54.1	113.3	48.9	NA	F2	93.6
18082	148.1	143	154.1	133.2	166.4	NA	NA		NA
18083	635	140.5	94.2	103.6	120.1	NA	NA		NA
18084	270.2	373.5	455.8	203.7	148.2	NA	NA		NA
18088	608.8	81	88.3	230.2	117.4	249.4	NA		NA
18094	96.8	ND	68.8	181.6	200.8	229.6	NA	Garden	450
18095	268.2	197.9	159.7	950.1	397.1	NA	NA	B2	407
18096	1040.5	551.3	617.6	NA	696.5	NA	NA		NA
18100	79.1	63.3	83.2	65.7	156.6	NA	NA		NA
18101	4885.1	247.7	318	320.3	188.5	NA	NA	F2	457
18104	53.4	390.5	78.3	117.1	53.3	NA	NA		NA
18105	364.3	213.4	159.1	184.6	216.4	185.2	154.9		NA
18106	54.3	334.5	309.5	167.9	131.6	NA	NA		NA
18107	111.3	228	192.4	925.6	207.5	NA	268.2		NA
18109	NA	118.4	265.1	321.9	117.6	NA	NA		NA
18111	NA	350.6	NA	483.2	514.5	NA	NA	B1	579
18112	204.9	159.5	261.8	154.4	211	222.5	NA	B1	162
18114	42.8	85.7	90.1	131.7	148.9	NA	NA		NA
18116	1489.5	346.3	403.7	724.3	452.3	NA	NA		NA
18118	197.4	199.8	165.6	193.3	120.4	NA	130.4		NA
18119	356.5	263.1	NA	335.7	588.6	NA	NA		NA
18122	66	67.9	53.5	65.3	52.1	NA	NA		NA
18126	503.3	212.3	248	545.6	370.1	722.7	NA		NA
18128	586.2	305.3	104	335.8	298.3	NA	NA		NA
18130	NA	712.4	644.4	273	470.4	NA	NA		NA
18132	2849.6	1440	641.6	764.8	981.6	NA	NA		NA
18134	40.9	41.4	56.6	53.1	63	NA	NA		NA
18136	1112.4	535.4	365.3	642.7	552.6	NA	NA		NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
18137	996.8	558	834.4	107.4	126.5	NA	NA		NA
18138	132.7	71.3	90.4	115.8	231.4	NA	NA	F1	68.5
18140	299	NA	NA	131.8	174.8	NA	NA		NA
18153	416.4	128	157.2	NA	NA	NA	204.8	F2	203
18154	1982.6	627.5	328.2	395.9	336.4	NA	NA		NA
18157	128.2	174.2	345.6	108.9	95.5	NA	NA	B2	78.7
18161	319.5	138.9	244.5	360.1	610.8	285	NA		NA
18165	4309.3	502	676.9	1231.3	NA	NA	NA		NA
18166	808.8	216.4	222.8	759.2	246.6	NA	NA		NA
18167	103.9	55.2	65.5	161.6	86.1	NA	NA		NA
18168	1009.6	481.2	268.8	182.7	281.8	NA	NA		NA
18170	128.2	175.6	296.8	156.2	157.6	NA	NA		NA
18171	79.9	213.5	102.6	49.5	65.9	NA	NA		NA
18172	1619.9	1012	NA	811.8	NA	NA	NA		NA
18173	508.2	181.5	188.1	507.1	405.1	NA	NA		NA
18176	402.3	364.8	NA	NA	NA	359.7	NA		NA
18180	521.2	87	143.5	272	825.6	NA	139.4	Play	197
18182	169.6	231.8	212.9	56.8	70.3	NA	NA	B2	87.4
18186	1210.9	383.5	103.9	295.6	241.3	236.5	NA		3510
18193	1100	770.8	1029.6	488.4	996	NA	428.8		1700
18194	400.3	95.8	NA	419.8	340	NA	NA		NA
18196	947.7	488.4	NA	721	NA	NA	NA		NA
18197	551.8	155.1	148	182.3	141.3	167.1	NA		NA
18199	NA	560.1	427.9	NA	489.5	409.5	NA		NA
18201	NA	287	243.4	76.5	184.5	NA	NA		NA
18204	244.6	87.8	177.2	225.6	72.3	365.6	NA		310
18205	501.9	308.3	304.7	448.9	63.5	NA	NA	F2	385
18206	161.7	409.9	81.4	724.2	137.4	NA	NA	B1	1020
18207	975.2	184.5	308.5	469.7	132.6	NA	NA		NA
18211	1447.8	218.5	243.4	250.5	143	NA	NA		NA
18213	356.1	259	222.5	225.8	231.2	244	NA		NA
18221	1303.9	495.5	511.3	447.4	393.8	NA	NA		NA
18224	580.8	339.7	419.4	420.3	144	NA	NA		NA
18234	999.2	192.3	388.8	192.7	192.3	148.3	NA		NA
18235	308.2	324.2	129.3	452.8	165.6	NA	111.9		NA
18238	1824.2	620.3	746.8	208.8	NA	NA	NA		NA
18240	1500	1120	NA	714	652.8	NA	NA		NA
18241	737.4	252.8	411.9	634.8	NA	NA	NA	F1	287
18243	1309.8	354.9	1075.2	317.7	594.4	NA	NA	B1	339
18252	606.4	776.2	998	523.1	279	259.7	NA	F1	1100
18253	3809.4	298.7	427.7	370.8	294.9	NA	NA		NA
18254	376.5	87.4	153.9	116.9	103.4	NA	NA		NA
18255	377.7	220	106.5	138.1	150.6	NA	NA		NA
18256	1200	233.8	NA	279.4	NA	330.2	NA		1160
18257	151.8	449.4	657.9	167.7	125.7	18	NA		NA
18258	3228.8	235.8	127.4	111.2	132.1	NA	254.2	B1	142
18259	536.3	225.8	420.4	184.9	159.4	NA	NA	B1	166
18269	70.2	134.7	66.8	296.5	79.9	NA	NA	B2	101
18271	798.4	234.2	363	247.8	157.6	NA	NA		NA

Appendix A
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Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
18272	308.8	366.2	308.2	194	331.6	NA	NA		NA
18275	769.6	196.7	254.4	224.4	135.2	NA	NA		NA
18277	91	363.6	219.4	338	202.3	NA	NA		NA
18278	2348.8	485.6	340.4	395.8	562.8	NA	NA	B2	708
18284	105.4	116.6	119.7	139.8	142.2	NA	NA		NA
18290	1760.7	52.6	111.2	85.6	146.2	NA	NA		NA
18291	95.8	59.8	71.9	88	58.5	NA	NA		NA
18296	809.6	430.4	316.8	428	428	NA	NA	B1	430
18297	1317.4	562.3	566.8	518.4	275.5	982.2	NA		NA
18303	108.7	109	100	35.7	117.5	NA	NA		NA
18304	341.1	60.9	69.4	79.3	64.8	NA	NA	F1	63.9
18312	2394.8	296.6	288.9	157	280.6	NA	NA		NA
18313	704	405.7	387.3	688.5	714.9	260.3	NA		NA
18316	NA	333.7	533.6	162	193.2	NA	NA		NA
18318	1463.8	1263.4	1048.4	488.9	336	NA	NA		NA
18324	213.6	260.4	234.6	166.3	129	NA	118.1	Play	95.1
18325	1832	714.5	487.5	293.2	312.7	NA	NA		NA
18326	708.9	621.1	163.4	573.2	462.9	NA	NA		NA
18338	207.9	49.4	70.6	61.9	48.7	NA	NA		NA
18344	1169.6	176.6	126.3	57.3	178.5	556	297	Play	355
18345	1800.1	260.6	461.3	787.9	755.2	NA	NA		NA
18346	198	106.3	81.7	242.9	410.5	NA	NA		NA
18347	632.4	129.6	93.9	118.4	ND	NA	NA	B1	242
18351	101.6	142.6	142.7	138.3	219.1	NA	NA		NA
18352	237	79	ND	226.6	249.6	NA	NA		NA
18354	298.7	259.3	186.3	168.3	156.4	NA	NA		NA
18358	ND	151.5	119.3	304.2	381.5	NA	396.3	Play	432
18359	NA	653.1	291.5	157.7	164.4	114.6	NA		NA
18360	116.6	48.2	155.4	424.4	219.4	580.8	NA	Garden	511
18361	378.2	357.4	296.5	551.8	354.5	396.2	NA		NA
18365	2095.7	694.3	874.1	234.1	526.9	NA	NA	F1	1420
18366	614.4	668.8	590.4	591.2	531.6	NA	NA		NA
18367	1229.6	496.4	327.4	660.4	416.8	NA	325.4		NA
18368	1947.2	701.9	404.8	420.1	336.8	NA	NA		NA
18373	110.1	378.5	254.7	167	126.7	NA	NA		NA
18375	545.3	313.2	415.6	236.4	177.1	NA	NA		195
18380	791.6	470	377.4	287.6	426.6	NA	NA		NA
18382	1892.3	889.4	737.3	NA	810.4	NA	635		NA
18386	319.8	104.7	79.2	227.3	289.1	NA	NA		NA
18387	1040	91.1	109.6	165.6	221	89.8	NA	B1	236
18389	542.4	177.6	57.1	95.6	2219.2	NA	NA	B2	3440
18391	272.9	314.9	NA	251.2	484.4	128	NA	Garden	124
18392	58	79.5	77.6	168.4	80.2	NA	NA		NA
18395	291.6	92.7	163.7	195.3	212.8	NA	NA		NA
18396	1272	266.3	77.9	200.1	503.5	NA	NA		2290
18398	371	268.7	150.3	170.1	178.1	138.7	NA		NA
18400	65	111.4	87.2	105.4	64	76.7	NA		NA
18402	2879	438.1	989.2	591.5	NA	NA	NA		NA
18403	960.2	817.7	842.1	331.3	628.3	NA	NA		NA

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Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
18404	103.4	156.5	70.6	84.4	166.7	NA	NA	F2	68.9
18405	2355.3	492.7	1123.8	NA	1453.8	5802.2	NA		NA
18411	359.1	196.2	304.8	248	201.1	NA	NA	F1	222
18417	1897.8	931.7	882.8	30.3	180.7	NA	NA	B1	45.5
18419	102.5	109.9	124.7	115.3	56.9	118.4	NA		NA
18420	251.6	82.3	106.4	220.3	182.9	NA	136.4		NA
18421	621.4	64.6	131	144.9	71.6	NA	NA		NA
18423	781.7	622.3	176.7	610.4	NA	NA	NA		NA
18424	49.3	658.3	619.5	108.9	406.4	NA	NA		NA
18433	375.8	332.1	311	224.3	461	NA	NA		NA
18434	93.5	293.3	265.1	49.7	108.9	NA	NA		NA
18445	991.2	260.2	194.9	301.2	637.2	222.4	NA		NA
18446	931.2	498	279.6	620.8	510.4	NA	NA		NA
18448	1249.6	332	374.2	761.2	454	NA	NA		NA
18462	794	434.5	179.9	117.2	120.5	102.2	NA		NA
18463	2203.1	325.9	304.9	1053.1	430.9	NA	NA		NA
18464	940.4	118.7	308.4	102	137.4	NA	NA	B1	123
18465	926.4	132	139.8	48.2	126.7	33.7	NA	B1	39.1
18466	2348	259.5	220.8	97.3	97.7	NA	NA		NA
18467	659.1	444.9	NA	302.5	NA	NA	NA		NA
18470	1313.7	216.8	303.7	426	248.2	332.1	NA		NA
18472	1429.6	90	167.1	41.2	34.7	NA	ND	Play	8.13
18478	1609.5	872.8	548	NA	NA	NA	NA		NA
18482	871.9	549.2	177.3	269.3	538.1	NA	578.7	Play	351
18484	90.3	495.4	181.5	159.1	195.2	56.5	NA		NA
18487	667.5	365.6	324.5	430.1	77.7	NA	NA		NA
18490	104.6	139.3	148.7	ND	438.9	NA	NA		NA
18492	934.8	261.4	657.2	224	361.7	NA	NA		NA
18495	909.2	216	309.7	396.9	377.6	NA	NA		NA
18500	1377.2	90.9	206.6	209.9	285.2	NA	244.4	B1	184
18502	NA	281.6	423.4	475.5	279.6	NA	NA		NA
18507	944.2	424.9	692	515.5	424	NA	NA		NA
18509	224.1	127.5	203.3	197.2	263.6	NA	NA	B1	234
18514	1109.6	182.6	119.6	173.3	91.1	NA	NA		NA
18516	2548.5	384.2	185.7	264.6	108.8	NA	225.8	Play	527
18518	1079.6	666.3	258.3	194.6	308.6	NA	NA		NA
18519	420	281.4	105.7	177.6	295.8	NA	196.6		NA
18520	1919.3	948.1	468.7	276.2	298.3	NA	201		NA
18522	855.1	NA	NA	472.3	424.2	NA	NA		NA
18530	NA	131.4	166.7	241	204.4	NA	NA	F2	175
18538	162.7	260.7	NA	268.8	133.4	NA	NA		NA
18541	417.4	197.3	300.3	418.7	587.7	NA	NA		622
18542	4596.2	233	159.6	197.7	229.9	NA	NA		NA
18543	1008.4	273.4	304.6	414	390.3	NA	NA		NA
18552	118.2	215.2	116.7	421.2	NA	NA	NA		NA
18554	265.4	443.8	NA	324	NA	NA	NA		NA
18556	1164.5	482.8	575.2	424.4	268.2	NA	NA		NA
18558	344.7	279	121.2	239.2	72.4	NA	NA		NA
18562	824.4	316.2	351	515.6	2938.7	NA	NA		NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
18564	1500	237.6	264.4	95	257.8	NA	NA		NA
18567	964	600.7	651.9	412.9	498.4	NA	NA		NA
18569	2289.6	330	459.2	219.8	148.9	NA	NA		NA
18572	1218.5	442.2	502.5	885.3	860.5	NA	NA		NA
18576	89.4	176	291.8	265.9	327.3	NA	NA		NA
18580	527.2	708	190.7	615.6	165.6	NA	NA		NA
18581	503.3	468.6	270.9	133.6	86.3	NA	NA	B2	105
18582	101.1	137.7	91.4	124.2	174.6	NA	NA		NA
18583	1319.6	281.2	108.3	137.7	264.5	NA	NA		NA
18588	637.2	1129.6	NA	231.2	341	NA	NA		NA
18591	754.3	192.7	170	333.9	494.9	122.1	NA		NA
18594	688	246.6	273	102.9	211.2	NA	NA	B1	95.7
18601	180.5	462.8	271.4	115	140.6	NA	NA	B1	354
18602	202.8	200.7	141.3	112	410	NA	NA		NA
18603	217.3	94.9	139	217.1	136.8	153.7	NA	F1	130
18605	1882.5	298.3	183.9	217.9	206.1	327.9	NA		NA
18606	2860.5	755.1	715.9	707.9	407.1	NA	NA		NA
18607	158.7	97.5	150.4	80.6	80.5	NA	NA		NA
18613	359.2	186.2	118	440	343.6	NA	NA		NA
18622	1975.2	793.8	447.8	366	404.4	218.5	NA		NA
18623	745.9	100.9	114.5	82.4	108.6	NA	NA	F2	329
18624	597.6	97.6	158.1	240.7	202.4	NA	NA		NA
18626	1004.2	979.7	NA	372.6	890.3	NA	NA		NA
18628	82.7	125.8	67.2	NA	40.9	NA	NA		NA
18630	423.2	180.1	217.2	219.2	302.4	NA	NA		NA
18632	1187.3	211	228.9	271.2	334.7	NA	NA		NA
18633	821.3	283.1	1233.7	660.5	354.2	384.8	NA		NA
18635	NA	365.8	1509.6	178.7	237.4	NA	NA		NA
18637	798	NA	443.6	202.8	294.2	NA	NA		NA
18640	2102.7	421	261.3	542.5	390.5	NA	NA		NA
18642	85.2	388.1	126.2	132.5	134.4	NA	NA	F2	160
18643	950.6	309.7	375.3	607.6	366.9	NA	NA	F2	367
18646	228.4	184.3	152.6	133.3	159.4	NA	NA	B1	252
18647	128.6	1024.5	3802.1	636	457	NA	437.2		NA
18650	566.4	859.9	327.4	201.9	202.3	NA	NA		NA
18652	1468.2	1144.1	1029.5	790.5	667.8	NA	NA		NA
18653	NA	131.7	171.1	190.9	241.8	NA	NA	F1	108
18657	264.8	143	227.9	89.8	153	NA	163.2	F2	322
18658	947.1	243	472.6	488.4	456.2	NA	182.9		1980
18667	241.3	193.3	111.3	147.1	114.3	NA	NA		NA
18669	118.3	120.1	43.3	90.1	49.1	NA	NA		NA
18675	1194.1	245.9	264.1	192.5	46.3	NA	NA		NA
18678	701.2	523.2	361.2	307.2	322.6	NA	NA		NA
18681	1065.5	504	581	125.9	135	NA	NA		NA
18682	685.4	214	220.2	536.8	320.1	NA	NA		NA
18684	65.7	98.2	59.2	100.2	ND	NA	53.9		NA
18685	857.2	136.6	334.6	82.8	75.8	40.4	NA		1980
18686	291.8	88.2	67.3	117.2	172.6	NA	78.2	F1	57.1
18688	132	266.9	299.1	172.5	83.9	NA	NA		NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
18689	2125.2	228.9	280.5	232.5	463.3	NA	NA	F2	457
18690	377.7	95.4	141.6	32.4	ND	NA	NA		NA
18696	1134.1	109.6	402.6	75.6	137.2	NA	NA		NA
18698	682	363.4	216.2	314.4	559.6	NA	NA		NA
18699	1828.8	232	188.1	415.2	447.2	NA	NA		NA
18701	416.4	143.3	97.9	434.8	245.2	NA	NA		NA
18702	749.3	476.5	NA	215.4	318.5	NA	NA		NA
18704	124.5	282.2	421.2	172.4	464.4	NA	NA	B1	348
18706	285.3	438.8	245.4	351.4	271.2	NA	NA		NA
18708	1512.9	399.5	846.6	410.9	335.7	NA	NA		NA
18710	303.5	201.5	32.9	147	87.3	NA	NA		NA
18713	586	404.6	167.6	NA	439.6	NA	NA		1800
18714	541.2	252.5	494.6	148.6	404.2	NA	NA		NA
18717	277.4	ND	ND	342.6	770.4	NA	NA		NA
18720	758.9	205.9	501.2	336.5	274.9	NA	NA		NA
18721	490.8	419.3	304.3	207	211.3	NA	NA		NA
18723	573.6	231.7	182.3	201.2	861.6	NA	NA		NA
18724	861.6	170.5	469.2	354.6	243.6	NA	354.2		NA
18725	830.7	318.3	727.3	756.9	228.5	NA	NA		NA
18726	NA	162.6	158.1	233.8	129.3	NA	NA		NA
18729	1787.1	174.9	184.8	865.7	41.4	NA	NA		1920
18732	359	354.2	NA	212.4	NA	NA	NA		NA
18734	1037.3	804.3	392.5	488.2	371.9	1173.5	NA	F1	954
18736	153.9	171.6	223.7	278.9	228.9	NA	NA		NA
18737	429.5	133.7	210.1	103.1	103.1	NA	NA	F1	131
18739	772.7	1716.8	225.6	1461.7	531.9	NA	NA		NA
18740	590.2	68.5	202	266.4	223.2	NA	155.8		NA
18741	307.6	311	274.8	213.9	300.2	NA	NA		NA
18743	135.7	118.9	155.2	NA	188.4	NA	NA		NA
18744	156.3	604	2259.2	589.6	209.2	NA	NA		NA
18747	517.4	269.3	193.3	203.2	NA	NA	NA		NA
18748	505.6	239.6	223.3	190.8	333	NA	522.4		NA
18758	588.6	221.5	511.8	170.6	272.8	NA	237.4		NA
18764	1049.8	966.3	564.2	954.6	696.1	NA	NA		NA
18765	267.2	261.2	349.6	405.6	217.8	NA	NA		NA
18766	184.9	NA	NA	221.1	68.5	NA	NA		NA
18770	1039.3	1012.3	175.3	283.1	152.6	NA	NA		NA
18771	653.6	143	367.4	436.5	495.4	645	NA		NA
18773	4067.2	471.1	192.9	98.7	31.3	NA	NA		NA
18774	460.2	386.1	151.2	247.1	265	216.9	259.9		NA
18775	3566.1	2865.3	173.3	313.1	256.6	NA	NA		NA
18777	479.4	167.5	180	107.6	257.7	NA	NA		NA
18780	NA	251.7	676.9	299.2	357.2	NA	NA		NA
18782	102.1	59.2	53.2	180.6	155.5	NA	122.8		NA
18785	664.7	377.8	365.3	568.9	540.8	NA	NA		NA
18788	1289.6	375.2	424	528	493.6	NA	NA		NA
18789	249	150.5	162.9	424.1	165.8	NA	NA		NA
18791	2049.6	853.4	783.7	343	NA	NA	NA		NA
18794	416.3	NA	NA	321.7	391.6	NA	NA		NA

Appendix A
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Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
18799	156.5	322.9	215.1	147.8	321.7	NA	NA		NA
18804	114.2	81.2	97	58.2	188.2	NA	NA	B1	77.2
18806	1320	91.6	76.3	372.8	265.4	135.1	NA		NA
18808	225.5	NA	NA	363.9	455.4	NA	NA		NA
18809	74.3	62.7	45.2	98.2	58	NA	NA		NA
18811	138.4	273.3	267.9	288.9	221.5	NA	NA		NA
18813	158	260.4	450	311.8	188.9	NA	NA		NA
18816	316.8	159.7	ND	27.5	60.1	NA	NA		NA
18821	543.2	1849.6	590.4	165.3	51.9	NA	NA	B1	325
18823	1400	416	213	704.8	347.6	NA	NA		NA
18824	1318.1	131.9	93.9	216.5	122.5	NA	NA		NA
18827	NA	194.2	330.3	NA	300.5	NA	NA		NA
18829	1689.6	594.4	1120	758.8	488.8	302.4	NA		NA
18831	3743	544.5	343.2	746.1	622.2	NA	NA		NA
18835	884.8	106.6	171.5	116.9	149.9	NA	NA		NA
18836	502.8	513.2	416	255	198.4	NA	NA		NA
18850	348	237.8	255	326	252	NA	NA		NA
18851	342.2	NA	NA	324.6	612.8	NA	NA		NA
18852	NA	NA	NA	188	178.4	NA	NA	B1	252
18855	215.5	176.5	140.5	335	301.7	NA	NA	B2	475
18856	181.8	93.5	498.4	54.3	344.2	NA	NA		NA
18860	1095.6	499.7	412.4	NA	NA	NA	NA		NA
18861	286.7	92.7	80.1	103.9	224.6	NA	NA		430
18864	NA	191	219.3	227.8	512	NA	NA	F2	233
18867	NA	444	NA	368.6	349	NA	NA		NA
18868	344.5	165.6	174.1	150.1	372.8	NA	NA		NA
18869	214.2	423.5	458.8	173.3	278.7	NA	NA		NA
18872	199.8	73.3	147.3	91.7	112.8	NA	NA		NA
18874	154.6	132.6	69.8	80.7	130.6	NA	NA		NA
18877	147.8	108.3	216.4	110.9	91.8	109	NA		NA
18885	249.6	153.5	228	243	317	185.6	NA		NA
18889	733.9	20.6	441.9	NA	NA	NA	NA	F2	1300
18893	288.1	163.3	694.8	346.1	55.7	NA	NA		NA
18897	2280.1	177.7	331.4	169.3	NA	NA	NA		NA
18899	1115.3	511.9	540.5	552.9	NA	525.8	NA		NA
18900	727.9	130.6	236.3	93.6	NA	NA	NA		NA
18904	1073.4	89.5	167.1	243.4	178.8	114.3	NA		NA
18905	452	140.5	99.2	89.6	97.9	58	NA		NA
18906	379.4	106.3	85	103.9	160.1	NA	NA		NA
18908	161.5	297.7	236	137.5	120.6	NA	NA		NA
18909	251.4	169.4	88.5	657.5	377.2	NA	NA		259
18913	1075.4	479.6	76.4	240.4	194.9	86.7	NA		NA
18916	368.3	84.6	82.7	108.7	181	NA	NA		NA
18917	251.5	164.7	132.8	149.7	105.9	NA	NA		NA
18918	136.6	102.9	40.3	91.4	177.2	NA	NA		NA
18922	157.3	134.7	204.7	145.1	149.2	NA	NA		NA
18925	175.8	84.2	37.8	167.5	78.2	NA	NA		NA
18933	NA	328.1	280.4	176.4	199.9	NA	NA		NA
18934	262.7	492.7	194.2	84.8	204	NA	NA		NA

Appendix A
Table A-2
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Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
18945	190.7	101.2	239.2	140	142.6	NA	NA		NA
18949	580.9	82.4	234.9	253.4	186.4	NA	NA		NA
18950	276.7	408	315	305.4	213.5	NA	NA		NA
18956	873.6	570	717.6	286.2	293.8	214.2	NA		NA
18960	788.7	212.7	329.1	650.6	493.2	383.1	NA	Garden	411
18963	686.2	286.2	504.2	114.7	204	NA	NA		NA
18965	NA	78.6	114.7	59.9	135.8	NA	NA		NA
18972	72.6	120.3	NA	205.6	101.6	115.4	131.8		NA
18978	195.8	227.6	318.6	ND	78.8	NA	NA	F2	279
18981	825.2	269.7	186.6	NA	75.4	NA	NA		NA
18983	28.6	150	49.3	158.9	43.6	NA	NA		NA
18985	81	92.4	132.9	71.1	143.4	NA	NA		NA
18991	160	477.3	363.2	NA	NA	NA	NA		NA
18993	654.8	264.8	133	173.1	254.6	NA	180.3	Play	168
18995	460.4	592.4	520.4	301	461.6	NA	NA		NA
18998	239.6	185.9	NA	174	334.3	NA	NA		NA
18999	1298.2	281.7	315	787.3	130.4	NA	NA		NA
19001	104	125.1	54.4	240.6	199.2	NA	NA		NA
19004	193.8	67.4	155.1	122.9	120.6	NA	NA		NA
19005	105.7	125.9	148.4	189.1	103.8	NA	NA		NA
19006	NA	75.2	80.9	106	546.3	NA	NA		NA
19007	52.3	75.1	ND	ND	88.4	NA	NA		NA
19010	200.6	404.8	311	386	357.2	NA	NA		NA
19012	599.3	289.7	347.8	625.6	299.1	NA	NA		NA
19014	173	41.3	58.2	67.4	83.2	NA	NA	B2	71.3
19016	368.7	168.2	238.1	115.6	241.6	NA	NA		NA
19019	932.2	187.3	204.8	250.2	538.4	NA	214.2		NA
19020	235.2	192.9	209.6	92.2	100.4	NA	NA		NA
19029	673.2	192.2	203.2	104.5	143.1	NA	NA		NA
19034	120	51.5	84.3	NA	101.4	NA	NA		NA
19035	323.8	75.9	253.8	219.8	223.1	NA	NA	B1	349
19036	716.8	111.2	ND	79.9	354	NA	82.8		NA
19037	1790.8	NA	1293.8	NA	109.4	237.8	NA		NA
19038	175.8	288	330.1	36.5	135.9	292.3	NA		3830
19044	525.8	532.2	526.9	204.3	201.1	136.7	NA	Garden	156
19045	834.9	307.8	404.5	NA	NA	NA	NA		NA
19048	NA	157.7	301.4	327.5	259.1	NA	NA		NA
19049	424.8	266.4	567.2	422	214.6	NA	NA		NA
19050	465.4	116.4	832.3	NA	400.4	607.4	NA		NA
19053	403.3	554.6	198.9	312.2	284.9	210.9	NA	Garden	241
19057	293.7	79.8	140.4	232	295.4	NA	NA		NA
19060	2468.8	462.4	280.6	248.8	129.7	NA	NA		NA
19067	881.6	333.4	730.4	851.2	455.6	NA	NA	F2	739
19068	392.5	162.9	236.3	283.3	176	NA	NA		NA
19069	68.3	NA	NA	66.4	85.7	NA	NA		NA
19071	146	52.8	65.7	161.1	103.5	52.3	NA		NA
19073	495.8	584.9	357.1	688	1179.7	NA	NA		NA
19074	1475.5	82	250.5	141	90.7	NA	NA	F2	408
19076	189.8	528.5	546.1	433.3	399	NA	NA		NA

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Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
19078	NA	577.6	272.6	NA	466.1	NA	NA	B2	389
19081	464.7	133.8	125.9	122.7	76.5	390	NA		NA
19084	NA	199	471.2	643.7	249.7	NA	NA		NA
19097	104.3	190.9	313.1	174.6	186.5	NA	NA		NA
19101	250.2	35.7	88.6	110.7	79.5	NA	NA	B2	62
19103	958.1	610.1	685.5	594.3	677.2	NA	NA		NA
19104	1513.6	NA	NA	823.2	351.1	NA	NA		NA
19105	840	847.2	198	173.9	187.2	503.2	NA		979
19107	507.6	310.7	148.1	344.3	179.3	647.1	540.9	F1	351
19109	231.2	101.9	151.3	62.7	120.2	NA	NA		NA
19112	NA	NA	NA	90.5	129.3	NA	NA	B1	121
19113	79.5	94.3	87.5	83.9	33	53.6	NA		NA
19117	310.4	114.3	124.1	45.4	167.2	NA	NA		1160
19118	195.3	57	61.6	22.7	46.6	NA	NA	B2	404
19122	687.1	249	182.7	471.5	680.4	NA	NA		NA
19123	1697.1	715.9	889.1	688.4	496.2	NA	NA		NA
19125	384.7	177.7	204.7	182.5	246.1	NA	NA		NA
19130	NA	NA	NA	142.4	139.8	NA	NA		NA
19134	334.2	547.6	238.8	124.7	126.3	NA	NA		NA
19137	304	142.5	144.7	104	NA	NA	NA		NA
19138	314.8	77.5	64.1	245.2	85.5	NA	NA		NA
19139	5266	1162.7	665.5	550.1	291.3	NA	NA		NA
19140	220.4	216.2	219.7	NA	NA	NA	NA		NA
19142	342.6	106.5	257	273.2	302.2	367	81.4	Garden	891
19143	131.4	104.9	76.7	105.3	59.5	NA	29.2		NA
19145	404.6	210.8	282.4	163.4	216.8	290.2	NA		NA
19147	388.7	116.7	189.9	148.1	140.4	NA	NA		NA
19149	113.4	515.7	495.3	135.5	115.4	NA	NA		861
19151	748.2	344.7	288.5	177.6	215.4	46.2	160.4		NA
19159	2475.6	354.4	170.1	225	330	NA	NA		NA
19161	497	285.9	183.2	320.8	146.8	NA	NA		NA
19164	481.4	371.7	231.8	594.7	683.9	NA	NA	F1	468
19168	282.8	111.3	143.5	64.4	75.5	NA	NA		NA
19170	439.2	817.3	320.6	228.6	406.9	283.4	NA		NA
19171	370	108.8	114.3	1204.2	95.5	NA	NA	B1	280
19172	527	254.4	275	NA	93.7	NA	NA		NA
19174	226.3	300.2	219.7	286.8	152.8	NA	131.5		NA
19178	1867.4	160.4	312.7	303.8	303.5	NA	238.4		NA
19184	606.3	217.4	146.7	126.4	160.2	NA	NA	F1	239
19186	364.4	115.7	224.1	204.8	263	182.4	NA		NA
19187	1128.8	609.1	1107.4	721.2	811.6	NA	NA		NA
19188	NA	NA	270.1	345.1	233.4	256.5	NA		NA
19192	960	223.2	156	1120	189.4	NA	NA		NA
19193	1339	309.4	587.6	258.9	692	NA	NA		NA
19194	498.7	142.3	157.1	145.7	161	154.8	NA		NA
19195	NA	672.4	487.6	214.8	259.5	NA	NA		NA
19196	2705	239.5	1214.7	326.7	175	NA	NA		NA
19201	809.9	488.5	481.6	214.4	78.7	NA	NA		NA
19202	862.6	88	383.5	359.1	444.8	NA	NA		NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
19203	393.3	389.9	359.8	499.5	155.8	NA	NA		NA
19205	NA	NA	NA	212.6	111.5	NA	NA		NA
19206	NA	60.6	NA	105	123.5	NA	NA		NA
19208	963.8	509.8	881.5	324.4	566.5	NA	NA		NA
19209	NA	109.1	NA	257.5	58.7	NA	295.7	F1	195
19212	NA	149.2	326	184.6	NA	419.6	NA		NA
19216	519	153.2	1038.8	97.1	88.6	NA	76.4		NA
19219	176.3	103.4	113.4	NA	75.6	NA	NA		NA
19220	511.5	267.2	341.6	236.6	195.1	NA	NA		NA
19222	168.5	123.7	110.5	151.8	115.9	NA	NA		NA
19227	2047.2	739.1	156.6	208.9	201.9	NA	NA		NA
19229	164.8	268.1	228	259.2	425.3	NA	NA		NA
19232	1555.6	626.2	287.5	831.5	547.9	NA	162.6		NA
19233	117.5	107.7	93.5	169.4	109.8	87.8	NA	F1	122
19234	342	138.8	119.4	155.1	36.5	NA	NA		NA
19243	92.3	138.3	99.1	211.3	NA	NA	NA		NA
19245	1861.7	192.6	166.3	412.4	445.3	NA	NA		NA
19246	251.6	128.8	ND	125.4	133.3	NA	NA	B2	105
19249	752.5	108.2	187.6	227.7	1822.2	87	NA		NA
19250	218.8	113.2	126.5	159	97.9	NA	112		NA
19258	NA	429.6	137.5	NA	257.3	NA	NA		NA
19259	118.8	64.5	100.1	80.1	183.2	NA	NA		NA
19260	791.4	275.6	598.2	318.1	815.1	NA	NA		NA
19261	238.1	100	109.6	123.4	129.1	NA	NA		319
19264	NA	376.6	225.4	511.9	741.8	NA	473.2	Play	593
19266	133	67.8	56.4	78.8	104.7	NA	NA		NA
19269	1866.7	216.8	632.5	484.2	518.9	NA	NA		NA
19271	121.3	75.4	83.3	301	129.2	NA	NA		NA
19276	598.7	251	292.4	433.6	200.6	352	NA		NA
19279	NA	NA	NA	378	302.2	NA	NA		NA
19280	278.8	197.6	282.8	154.5	240.6	NA	256.6		NA
19284	300.9	281.8	310.1	202.5	309.3	NA	NA		NA
19285	2146.4	372.8	269.9	374.1	553.7	NA	NA		NA
19289	447.7	215.8	290.3	155.6	264.6	NA	NA		516
19290	714.4	NA	NA	342.5	NA	NA	NA		NA
19295	362.4	201.7	114.6	149.7	371.5	NA	NA		NA
19296	193.6	255.4	114.5	247.8	199.6	NA	128.1	Play	172
19297	1109.6	257.6	545.6	712.4	790.4	NA	NA		NA
19300	2965.3	252	397.5	238.1	259.8	NA	NA		NA
19302	9299.9	204.9	2581.5	103.9	92.3	NA	NA		NA
19304	900.7	257.6	119.1	99	70.3	NA	135	F1	1090
19309	1209.9	398.1	275.3	376.6	179.2	194.7	NA		NA
19311	520.8	223.6	179.3	290	99.7	NA	NA	B1	253
19315	1868.2	488.8	626.7	361.3	646.1	NA	NA		NA
19317	121.9	182.3	192.1	135.7	530	69.3	NA		NA
19321	819.7	122.3	304.8	357.4	323.1	NA	NA		NA
19325	1112.2	1538.5	353.2	152.4	386.2	NA	NA		NA
19327	532.4	113.1	173.1	228.5	285.1	NA	NA		NA
19328	390.2	131.6	133.6	93.2	135.7	NA	NA		NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
19330	176.3	549.6	NA	417.2	NA	NA	NA		NA
19336	330.4	157.6	116.4	284.8	202.1	220.2	NA		NA
19339	199.6	76.2	143	159.4	126.4	NA	NA		NA
19340	628.2	329.9	176.8	277.6	134.6	NA	NA		NA
19342	632.3	127.5	93.4	532.5	278.9	NA	NA		74.7
19346	2041	487.2	514.8	313.8	269.9	540.1	NA		NA
19347	3529.7	518.5	284.7	314	341	NA	NA		NA
19348	508.4	134.8	153.7	420.8	463.6	NA	NA		NA
19351	601.8	401.4	403.7	226.9	252.7	297.2	NA		615
19352	604.7	550.6	433.4	98.4	291.9	NA	NA		NA
19353	102	152.6	140.5	89.5	130.1	NA	234.8		NA
19355	602.4	608.8	456.8	317.8	360.2	343.8	NA		NA
19356	559.3	125.5	215.3	198.5	143.2	NA	252.4	B2	1190
19357	453.2	NA	NA	NA	291.6	NA	NA		NA
19365	186.9	203.6	214.4	338.2	136.9	76.9	NA	F2	269
19367	1009.6	368	315.4	278.8	232.8	NA	NA		NA
19369	951.5	643.8	544.2	370.6	448	NA	NA		NA
19372	124.1	160.9	183.2	186	141.7	NA	NA		NA
19374	396.1	671.5	417	167.4	247.3	NA	NA		NA
19377	140	169.2	156	215	189.2	NA	NA		NA
19379	664.4	386.4	527.1	473.7	277.2	NA	NA		NA
19389	NA	428.6	403.5	163.3	195.3	332.4	73		NA
19391	793.5	272.4	424.6	523.5	362.3	NA	NA		NA
19392	1766.7	496.3	305	363.2	188.6	NA	NA		NA
19393	541.9	179.4	276	333	219.3	NA	NA	F1	169
19394	1560.5	745.6	604.5	499.3	2408.4	NA	NA		NA
19395	1444.2	397.8	596.4	554.4	538.8	NA	NA		NA
19396	304.6	355.6	438.4	695.2	261.4	NA	NA		NA
19398	1463	535	1100.8	698	594.7	NA	NA		NA
19399	1323.9	508.3	468.7	515.4	461.1	NA	NA		1620
19405	331.7	329.5	397.9	503.3	220.3	NA	NA		NA
19406	1378.8	415.2	394.8	NA	NA	326.6	NA	Garden	598
19407	95.4	207.6	339.2	NA	NA	NA	NA		NA
19412	439.6	203.6	303.2	508.4	212	NA	132.3		528
19415	1219.8	464.9	1246.8	850.1	769.2	NA	789		NA
19418	1421.3	260	231.6	242	259.9	252.1	NA		NA
19419	107.7	73.4	76.5	267.8	159.6	NA	NA		NA
19421	308.8	528	166.5	513.6	378.2	NA	118.8		NA
19422	648.5	143.3	166.2	220.2	425.8	NA	NA	B1	267
19427	481.6	209	198.5	104.8	143	NA	NA		NA
19428	2809.6	96.4	103.7	142.6	89.2	237.2	NA	B2	117
19430	870.2	705.1	515.1	601	NA	NA	NA		NA
19433	319.1	150.4	148.7	187.4	119.9	NA	NA		NA
19436	271.4	108.7	89	154.4	108.2	141	38.3		NA
19438	210	154.4	234.1	287.1	149.3	NA	NA		NA
19439	270.4	144.1	64.3	NA	143.7	NA	NA		276
19441	588.1	171.7	70.3	169.1	NA	NA	NA		NA
19442	684.2	164.1	232.4	197.7	NA	NA	NA		NA
19446	595.6	331.2	512.4	97.4	302.4	NA	NA	B2	438

Appendix A
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Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
19452	5408	104.7	376.2	272.5	109.1	NA	NA		NA
19453	123.3	108.7	161.3	110.4	51.9	NA	NA		NA
19457	90.9	76.3	111.9	67.9	NA	NA	NA		NA
19458	3914.9	199.6	544.8	266.5	562.1	NA	NA		NA
19459	2562.1	526.3	959.1	604	508.4	2279.4	NA	F2	1050
19462	267.4	109.8	220.6	174	304.5	NA	NA		NA
19463	178.4	729.4	435.7	170.3	187.5	NA	NA		NA
19470	120.6	173.6	197.7	406.6	223.7	NA	79.3		NA
19473	532.8	281.4	406.6	NA	NA	NA	345		NA
19478	1416.5	641.9	557.1	811	687.7	NA	NA		NA
19481	578.9	188	159.7	128.3	140	NA	NA		NA
19482	34.6	208.2	254.2	52.7	75.4	NA	NA		NA
19486	116.3	123.7	171.6	110.1	192.6	NA	NA		NA
19488	162.4	100.4	101.6	217.2	144	NA	NA		NA
19491	37.3	56.4	100.9	63.6	43.4	64.5	NA	Garden	262
19499	81.5	89.4	71.9	NA	NA	NA	NA		NA
19500	1510.1	89.4	591.8	45.9	107.5	NA	NA		NA
19502	392.5	66.5	168.1	186.7	186.4	NA	NA	F1	95.6
19503	161.2	167.8	226.9	120.5	146.7	NA	NA		130
19506	25.8	227.6	342.5	403	119.4	NA	157.1		NA
19508	147.6	185.9	190.1	44.7	277.5	NA	NA		NA
19512	1140.8	283.7	306.2	427.7	NA	NA	NA	F1	288
19515	288.9	250.6	172.1	224.6	210.4	NA	NA		NA
19518	1266.9	396.8	430.5	259.6	412.2	NA	NA		NA
19519	740.2	598.8	387.7	602.5	452.2	NA	NA		616
19520	510	344.2	386.6	432.8	900.3	NA	NA		NA
19522	201.2	215.9	339.8	244.9	NA	NA	NA		NA
19527	2883.2	NA	139.1	343.4	155.7	121.6	NA		NA
19528	193.1	92.9	111.6	27.9	178.2	NA	NA		NA
19529	NA	167.9	387.3	168.7	NA	252.8	NA		NA
19530	294.6	226.8	155	330	99.5	NA	NA	B2	131
19534	426.1	262.4	411.7	291.8	754.3	NA	NA		NA
19538	604.5	343	636.3	307.4	337.2	NA	NA		NA
19540	456.4	162.1	142.2	57.6	105.2	NA	NA		NA
19553	527.2	523	351.4	336.9	254.4	NA	NA		NA
19555	409.3	109.9	173.9	122.1	125.1	77.3	NA		NA
19563	NA	498.5	NA	2221.1	NA	NA	NA		NA
19566	716.4	NA	516.1	NA	681.5	NA	NA		NA
19567	2935.8	165.4	443.8	170.8	289.1	NA	NA		NA
19576	455.6	654.4	936	684.4	844	NA	NA	B2	832
19579	1320	498	403.6	275.6	317.2	NA	NA		NA
19580	1004	131.2	548.9	135.8	131.5	364.7	NA		NA
19581	1209.6	269	321.4	255.2	303.8	NA	NA		NA
19584	1569.6	330.8	1129.6	321.4	118	NA	NA		NA
19588	382	100.1	104.3	92.2	335.4	NA	NA	B2	40
19589	314.6	96.9	83.6	221.2	60.4	NA	NA		NA
19593	3727.6	403.8	232.9	416.7	186	NA	NA		NA
19595	635.7	510.1	227	416.8	241.3	NA	NA	F1	661
19597	830.3	227.7	380.9	178.6	207.9	NA	NA		NA

Appendix A
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Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
19599	84.3	61.5	77.6	30.1	167	NA	NA		NA
19603	NA	605.8	NA	527.8	NA	NA	NA	F1	786
19605	558.5	272	393.2	172.9	206.7	NA	NA		654
19606	243.2	141.8	146.4	NA	228.2	NA	NA		NA
19607	128	244.8	222.9	286.5	263.5	NA	NA		NA
19608	81.8	332.2	286.2	123.2	112.6	NA	NA		NA
19609	332	510.1	149.9	620.9	313.3	NA	NA		NA
19611	715.2	282.4	75.6	277.4	209.6	550.8	NA		NA
19613	444.8	236.2	214.9	56.9	254.7	NA	NA	F2	616
19615	783.2	372.5	333.2	107.8	267.1	184.8	29.7		NA
19616	1034.5	240.4	118.7	207.1	371.6	NA	NA	B1	189
19620	2131.5	874.7	338.7	NA	143.6	NA	NA	F1	1090
19622	352.1	145.8	283.3	149.9	232.8	NA	NA		NA
19623	552.8	446.8	217.8	402.6	136.7	NA	NA		NA
19624	143.5	103.6	67.5	272.3	95.5	NA	NA		NA
19625	1433.6	51	37.2	92.9	188	NA	NA		2380
19628	222.5	408.8	354.3	366.1	317.8	NA	NA	B2	550
19630	330.6	102.6	83.2	220.2	386.6	NA	NA		NA
19632	1197.9	611.9	207.5	299.5	271.1	NA	NA		NA
19633	713.6	199.3	309.4	191.7	241	NA	NA		NA
19634	938.8	514.6	152.1	163.4	221.6	NA	NA		NA
19635	625.3	211.7	241.1	169.2	597.5	NA	NA		NA
19636	925.6	237.4	346	274.2	188	NA	NA		NA
19638	NA	702	NA	691.6	633.2	974.4	NA		NA
19639	361.8	466	69.1	40.9	57.4	NA	189.5		NA
19648	515.7	103.4	165.4	152.2	161.8	NA	NA		NA
19652	293	222.8	140.9	286.1	294	NA	NA		355
19653	NA	NA	NA	154.1	576.6	210.7	NA		NA
19656	147.7	164.5	99.8	98.1	105.3	NA	NA		NA
19657	799.6	472.2	310.5	217	338.2	NA	254.3		NA
19662	534.5	273.9	321.1	214.9	253.4	NA	NA	F2	428
19664	545.8	446.7	264.3	356.1	197.5	NA	260.8	B1	694
19665	NA	196.2	NA	296.5	NA	317.2	NA		NA
19666	559.3	151.2	547.2	NA	NA	NA	NA		NA
19669	439.8	372.5	113.6	NA	318.6	NA	NA		NA
19674	1405.7	NA	NA	459	316.3	461.6	NA		NA
19675	2536.1	1085.7	307.4	331	241.6	NA	NA		NA
19677	2256.5	259.6	445.6	158	110.3	NA	NA		NA
19683	1496.9	1674.7	419.7	1151.2	1091.6	NA	NA	F1	2750
19685	53	865.7	278.1	132.7	299.7	NA	NA		NA
19690	NA	64.6	103.8	107.9	102.8	NA	NA		NA
19692	169.4	225.4	250.7	NA	212.9	NA	NA		NA
19693	2206.9	429.1	737	248.8	121.3	NA	NA		NA
19694	142.8	60.7	99.1	86.2	91.9	NA	55.1		NA
19697	254.6	236.9	57.2	NA	56.4	67.5	NA		NA
19698	3839.9	477.9	295.2	274.3	296.6	266.3	NA		NA
19700	664.1	83.9	149.5	76.4	160.2	149.2	NA		NA
19702	2240	429.2	366.8	260.6	770	NA	NA		NA
19703	1313.1	365.2	377.9	296.4	228.8	NA	NA		NA

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Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
19704	528.6	404.4	607.1	225.5	447.9	NA	NA		NA
19708	945.7	536.7	171.3	NA	150.2	NA	NA	F2	315
19710	160.6	220.7	362.2	111.7	122.1	NA	NA		NA
19711	177.8	195.1	116.6	274.3	137.3	NA	NA		NA
19714	326.4	327.4	219	245.2	171.2	NA	192.7		NA
19715	1071	789	1573	775.2	493	NA	NA		NA
19716	627.2	183	282.2	NA	225.8	NA	NA		NA
19717	3327	389.7	89.3	99.7	131.9	NA	NA		NA
19720	975.6	251.4	161.9	585.5	556.4	NA	NA		NA
19724	775.6	555.7	483.9	1045.9	334.5	NA	NA		NA
19726	4399	256.9	206.5	215	288.5	NA	NA	F2	170
19731	NA	576.5	NA	NA	NA	482.7	NA		NA
19735	727.2	159.4	56.9	192	129.1	NA	NA		NA
19737	438.4	184.2	225.8	424.6	386.1	NA	NA		NA
19739	517.8	211.3	434.9	265.6	NA	327.9	214.3		NA
19740	1368.7	122.1	408.8	116.9	NA	NA	NA		NA
19741	NA	90.7	134.8	133.2	373	NA	NA		NA
19743	423.7	99.7	172.2	NA	165.6	NA	NA		NA
19746	872.2	370.3	154.7	268.5	344.8	NA	NA		NA
19749	357.1	195.4	285.4	210.1	277.3	NA	NA		NA
19750	250.5	311.4	NA	318.3	285.9	614.2	NA		NA
19751	40.2	98.1	136.5	162.3	192.6	NA	NA		NA
19752	70.8	131	67.5	83.9	98.2	NA	NA		NA
19753	88.2	97.2	79.8	118.2	92.2	NA	NA	B1	133
19757	NA	239.8	271.4	363.2	877.9	NA	NA		NA
19758	51.6	114.9	142.7	68.4	119.3	NA	NA		NA
19762	1369.6	665.2	386.6	NA	357	NA	NA		NA
19765	5238.4	927.2	730	261.2	265.4	NA	NA		NA
19766	1110.5	244.6	301.1	409.7	172.5	1100.5	NA	Garden	1130
19771	1133	123.4	NA	297.5	1176.7	NA	NA		NA
19772	1300	397.6	502.4	334.2	225.2	NA	832		NA
19773	1220	641.2	714.8	238.4	656.8	NA	NA		NA
19774	110.4	146.2	75.7	89.1	139.9	NA	NA		NA
19778	859	1153.5	182.1	456	182.5	NA	NA		NA
19782	NA	352.8	401	254.4	567.2	NA	NA		NA
19783	322.4	243.2	142.6	204.5	285	125.6	NA	F2	124
19784	811.5	183.9	199.2	234	212.4	NA	252.8		NA
19785	741.9	622.4	493	435.4	586.3	NA	NA		NA
19790	1091.2	278	134.4	352.4	429.3	NA	NA		NA
19797	622.4	48.4	153.1	225	112.9	107.3	NA		474
19798	595.5	476.7	NA	438.6	688.6	NA	NA		NA
19801	1385.3	122.2	311.7	290.1	413.4	NA	NA		NA
19802	367.1	267.6	387.1	49.7	112	NA	NA		NA
19804	358	110	96.9	786	204.3	NA	NA		NA
19807	273.6	132.7	249.9	55.8	207.5	36.8	NA	F1	131
19808	107.7	266.1	254.5	372	300.9	NA	NA	F2	234
19809	723.1	256.9	218.8	912	169.6	NA	NA	F1	292
19813	1082.9	681.4	496.7	577.2	1200	NA	NA		NA
19814	1560.5	165.8	111.8	131.8	183.8	410.2	NA		NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
19815	888	3360	439.6	1440	908	NA	NA	B2	885
19817	1841.7	199.5	139.4	314.6	798.7	NA	NA		NA
19818	904.4	268.8	307.6	278.6	239.1	NA	NA	B2	310
19819	1209.3	187.2	331	272	231.8	153.7	NA	B1	302
19823	250	125.5	138.5	91.2	198.4	NA	NA		NA
19827	209.6	222.4	222.2	246	97.2	125.9	NA		NA
19828	96.6	285.4	41	97.6	41	NA	NA		NA
19829	691.2	264.2	149.8	114	152.1	103.3	NA		NA
19830	810.8	2772.6	1812.2	627.7	444.2	NA	NA		NA
19833	634.2	217	271.8	247.1	268.3	107.2	NA		NA
19835	2747.8	329.4	209.8	1070.4	660.4	NA	NA		NA
19836	1448.5	240.7	212.2	683.1	188.1	497.8	NA		NA
19837	136	103.3	72.7	290.2	101.1	NA	NA		NA
19842	6062	285.6	147.1	NA	265	NA	NA		NA
19849	932.7	156.9	NA	297.7	273.5	NA	177.7		NA
19853	338.2	585.7	347.8	466.7	310	410.3	NA		NA
19856	248.6	725.6	508.4	474.4	500.8	NA	NA		NA
19859	1291.2	337.5	99.1	NA	939.9	NA	NA		NA
19860	915.9	218.9	285.9	627.1	350	NA	NA	B2	344
19861	1992.4	300.1	252	208.2	60.2	NA	NA		NA
19862	991.5	278.2	305.4	730.3	315.3	NA	NA		NA
19866	877.4	187.4	233.5	134.3	587.9	133.1	NA	Garden	144
19871	320.9	179.7	146.2	273	175.2	204.1	NA		NA
19872	976.1	499.8	510.3	678.6	530.4	NA	NA		NA
19878	206.1	135.6	145.7	76.4	69.9	NA	NA	B1	70.4
19880	495.9	162.7	129.3	294.7	133.6	NA	NA	F2	158
19882	49.6	64.5	276.5	74.8	237.4	NA	NA		NA
19884	246	77.6	68.4	273.9	133.3	NA	NA		NA
19885	1484.9	1108.7	747.8	372.5	614.6	NA	NA		NA
19887	482.8	145.1	555.6	535.2	19.3	NA	117.3	F1	179
19888	695.5	87.5	76	96.6	85.5	NA	NA		NA
19889	465.8	113.2	285.1	372.8	275	NA	NA		NA
19890	2720	103.3	231.4	195.3	572	NA	NA		NA
19898	64.9	59.5	ND	60.8	32.6	NA	NA		NA
19900	343.4	110.6	174.3	203.2	303.6	281.4	NA	F2	194
19904	93.6	167.5	155.2	116	164.3	NA	NA		NA
19906	1749	339.3	384.1	256.3	666.5	NA	NA	B2	675
19914	2338.5	282.8	290.8	380.6	168.4	NA	NA	F1	259
19918	455.1	189.8	139.5	108.1	121.9	164.2	NA		NA
19919	763.1	78.6	80.5	114.5	247.9	NA	NA		NA
19922	898.5	408.7	106	848.3	286.5	NA	NA		NA
19928	790.4	449.2	NA	2668.1	NA	NA	NA		NA
19929	211.8	216.8	146.1	124.5	86.3	203.9	NA		NA
19931	2249.6	NA	NA	NA	NA	NA	NA		NA
19933	194.7	334.5	250.2	382.9	502.1	NA	NA		NA
19934	3253	321	326.4	282.4	265.2	NA	NA		NA
19937	588.4	192.7	194.4	66.1	169.2	NA	NA		NA
19939	938.4	401.4	310.2	246	205.2	NA	NA		NA
19946	748.2	1279.9	116	383.9	303.3	551.8	489.5	B2	2720

Appendix A
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Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
19954	167.3	156.7	83.2	196.7	96.6	NA	NA		NA
19955	245.7	199.4	480.9	126.8	118.5	218.6	NA		NA
19956	NA	68.8	NA	NA	84	84.9	NA		NA
19957	126.4	178.9	76.2	289.7	240.4	NA	NA	B1	252
19958	3255.8	384.2	429.8	647.9	600.8	NA	NA		NA
19959	469.1	455.5	178.9	932.7	186	NA	211.9		NA
19960	318.1	66.6	76.8	NA	63.5	NA	NA		NA
19961	244	158.2	57.2	344.9	NA	NA	NA		NA
19967	97.9	243.6	121.2	160.9	101.5	NA	NA		NA
19969	269.4	239.2	120.8	584.2	252.3	NA	308.6		NA
19974	115	69.1	72.6	73.1	72.4	NA	NA		NA
19975	198.2	172.7	221.2	104.8	335.8	NA	NA		NA
19978	152.9	202.6	208.2	374.4	158.5	147.2	NA		NA
19982	6639.9	1162.2	730.7	670.2	884.3	NA	NA		NA
19985	480.3	228.2	155.1	NA	554.2	766.6	NA	Garden	543
19985	480.3	228.2	155.1	NA	554.2	766.6	NA	Drip	755
19986	577.7	490.3	860.7	133.7	205.1	NA	124.8		NA
19992	774.9	137.8	170.6	199	272.4	NA	NA		NA
19995	2282.2	269.2	120.7	153.3	93.9	NA	257.8		NA
19999	4404.8	79.7	329.8	210.6	516.9	NA	617.7		NA
20002	106.1	NA	43.6	NA	71	NA	NA		NA
20004	878.9	222.2	341.4	372.9	639.3	NA	NA		NA
20011	988.4	291.3	491.5	349.9	450.4	NA	NA		NA
20015	186.2	344.9	411.3	133.3	NA	NA	NA		NA
20016	1160	311.4	302.2	352	294.8	NA	NA		NA
20017	920.2	224.1	215.9	934.2	435.6	NA	NA		NA
20019	2222.8	640.1	401.9	306.9	549.1	304.6	NA		NA
20021	443.7	253.8	172.4	468.5	396.6	NA	NA	B2	380
20025	1859.4	208.4	1145.5	442.8	528.9	NA	NA		NA
20030	38.6	283.5	320.6	NA	ND	133.1	NA		NA
20031	421.2	207.4	352.9	86.8	201.3	NA	NA		NA
20032	266	42.5	163	97.9	NA	ND	76.7		NA
20033	2081.5	391.3	248.6	181.8	283.4	NA	NA		NA
20034	759.9	249.8	417	463.1	434.8	NA	NA		NA
20035	1658.1	271.4	129.2	557	351.8	NA	229.9		NA
20036	910.4	317.4	146.5	1040	636	NA	NA		1010
20038	ND	29.5	ND	133.8	507.2	NA	NA		NA
20039	543.6	460.8	285.2	260.4	271	NA	NA	B2	278
20045	732.6	305.7	2190.9	500.2	6212.2	NA	NA		NA
20050	64.5	106.8	125.8	61	85	NA	NA		NA
20053	150.5	629.6	548.9	734.2	416.2	NA	NA		NA
20054	1760.2	509.2	386.8	229.7	248.6	NA	NA		NA
20058	3080.6	1369.9	808.1	998.6	1758.1	NA	NA		NA
20060	326	528	350.4	257.4	302.2	NA	NA	F2	439
20061	991.2	381.1	577.4	405.2	732.6	NA	NA		NA
20066	1088.1	203.9	199.9	NA	612.4	252.9	NA		NA
20067	123	50	249.3	127.5	306.3	NA	NA		NA
20073	1971.5	152.5	216.1	56.3	112.2	NA	NA	B2	144
20076	NA	62	NA	72.5	NA	68.7	NA		NA

Appendix A
Table A-2
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Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
20077	6391.5	255.4	240.8	336.6	NA	394.4	NA		NA
20078	1333.2	330.3	416.6	372.1	428.8	NA	NA		NA
20079	1979.2	2948.8	1748.8	7520	563.2	NA	NA		NA
20081	602.1	312.6	663.2	488.4	607.3	NA	NA		NA
20083	554.8	576	426.2	79.1	337.6	NA	NA		NA
20084	190.1	149.7	241	279.7	128	NA	195.8	F1	153
20085	296.8	176.6	111.2	56.5	200.7	186.2	NA		NA
20086	222	410.4	NA	142.7	76.1	NA	NA		NA
20089	245.1	175.9	259	194	337	NA	NA		NA
20092	1614.2	214.3	112.2	307	322.4	NA	NA	B1	384
20093	819.2	897.6	177	NA	416.8	NA	NA	F2	148
20100	1209.9	648.2	1100.3	416.5	944.9	NA	NA		NA
20102	1809.6	68.3	109.6	NA	102.6	NA	NA	B2	158
20103	939.2	436.8	454	306.2	731.2	NA	NA		NA
20104	470.3	421.3	544.9	NA	NA	NA	NA		NA
20111	1665.8	350.4	203.3	4167.7	622.2	NA	NA		NA
20113	94.9	92.7	88.9	64.8	50.3	NA	NA	B1	64.7
20122	2642.2	492	187.8	586.8	746.5	384.8	NA		NA
20123	1092.3	200.4	191.8	196.7	937.4	NA	NA		NA
20125	NA	176.4	72.8	194.7	172.9	NA	NA		NA
20127	300.5	289.3	130.9	204.5	93.1	NA	NA		NA
20128	679.6	260.4	189.8	221.1	634.6	NA	NA	F1	296
20131	126.5	45.4	39.5	208.6	180.7	NA	NA	F2	39.9
20135	311.6	526.7	369.7	524.9	82.4	NA	NA		NA
20140	244.5	539.7	215	226.7	117.3	90.9	NA		NA
20141	NA	145.2	233.9	222.2	368.6	NA	191.3		NA
20145	1319.7	79.6	594.7	334.6	526.9	NA	NA		NA
20150	1302.9	230.7	125.4	177.6	170.7	NA	NA	B1	184
20151	390.1	445.2	315	320.8	263.1	NA	NA		NA
20154	1588.7	458.5	1364.8	225	NA	NA	NA		NA
20155	559.8	200.3	196.2	507.2	257.2	NA	NA		NA
20156	136.7	175	149	214	211.8	NA	NA		NA
20160	NA	612.9	1617.8	NA	NA	177.5	NA		NA
20164	1056.4	191.6	310.2	617.7	456.5	NA	NA	B1	838
20171	941.1	490	413.2	1005	631.6	NA	NA		NA
20173	64.9	79.1	146.3	115.2	157.3	NA	NA	F2	152
20174	1249.6	293.2	802.8	414	337.8	NA	NA		NA
20178	1106	NA	231.2	294.2	240.7	NA	NA		NA
20181	633.4	345.6	237	792.3	927.5	NA	NA		NA
20182	4786.7	345.5	1420.4	446.9	952.2	NA	NA		NA
20184	465.5	NA	195.6	492.3	237.4	NA	NA		NA
20186	1714.6	1187.4	473.7	306.7	285.9	NA	NA		NA
20187	331.8	224.6	477.6	251.8	238.6	NA	NA		NA
20190	170.9	101.3	106.4	197	164.4	NA	NA		NA
20192	1341.2	766.9	928.8	128.7	409.5	NA	NA		NA
20197	1349.6	NA	NA	422.8	673.2	NA	NA		NA
20202	NA	NA	468.9	414.8	414.9	NA	NA		NA
20205	558.4	696.1	340.2	761.4	791	108.6	NA		NA
20206	NA	353	462.1	571.9	400.8	1005.3	NA		NA

Appendix A
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Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
20212	1798.9	547.5	934.4	748.8	419.5	NA	NA		NA
20213	801.3	881.1	159.2	767.8	638	NA	NA		NA
20215	1288.9	375.5	351	782.8	265	NA	NA		NA
20221	860.7	1318.6	689.2	735.9	444.2	NA	NA		NA
20224	516.6	121.9	126.1	264.3	187.4	NA	NA		NA
20225	149.2	193.3	190.8	184.8	237.2	NA	NA	B2	317
20226	7352.1	989.5	480.2	294.4	205.2	NA	NA		NA
20227	129.9	294	125	54.7	50.2	NA	NA		NA
20228	776.8	296.4	597.2	719.6	648.8	NA	193.5		NA
20229	NA	323.7	459.7	NA	NA	NA	NA		NA
20230	326.7	347.1	471	428.9	293.4	560.8	NA		NA
20233	360.4	263.9	125.7	739.7	917.3	NA	NA	F1	269
20234	1039.1	941.3	448.6	571.8	629.1	NA	NA		NA
20240	NA	70.4	74.1	390.7	351.3	NA	NA		NA
20242	233.6	444.3	282.4	298.7	401.3	NA	NA		NA
20245	2709.1	344.7	676.4	187.7	293.4	NA	NA	F1	431
20246	680.5	94.1	293.1	510.9	212.8	245.2	NA		NA
20247	2719.9	752.8	477.4	407.9	211.4	NA	NA		NA
20250	499.6	62.9	87.2	294.1	NA	NA	NA		NA
20256	NA	321.4	706.8	383.9	282.3	NA	NA		NA
20259	437.5	287.2	333	204.7	320.1	NA	NA		NA
20263	1171.5	189.4	164.2	509.1	288.4	NA	NA		NA
20268	11784.3	181.5	81.1	167.9	28.4	245.8	264.9		NA
20269	291.8	242	230.6	430.8	462.8	230.6	NA	Garden	322
20270	177.2	102.7	65	88.3	NA	NA	NA		NA
20271	1441.7	235.6	224.7	257.6	400.2	NA	NA		NA
20274	284.4	138.5	378	313.8	521.2	NA	NA		NA
20276	697	372.1	524.7	450.2	367	NA	NA		NA
20278	259.6	156.5	100.3	207.8	72.6	NA	NA	F1	133
20296	4853.9	163.2	125.6	167.9	124.9	NA	NA		NA
20297	1569.6	895.2	301.6	874.4	408.4	NA	NA		NA
20299	736.3	129.6	358.7	443.4	741.5	NA	NA		NA
20301	472.2	122.5	134	204.2	99.4	NA	NA		NA
20306	5120	225.2	350	580	336.4	NA	NA		7440
20307	53.3	131.7	166.8	98.7	218.8	NA	NA		NA
20308	NA	460.4	268.8	320.7	319.9	NA	NA		NA
20312	1754.8	558.2	361.8	304.9	367.6	NA	NA		NA
20316	363.5	253.4	172.6	713.4	1156.3	NA	NA		NA
20318	1087.5	154.8	205.3	168.9	129.6	NA	NA		1520
20319	NA	NA	NA	990.8	1127.4	1604	966.4		NA
20320	269.6	374.9	543.2	NA	NA	NA	NA		NA
20321	280.1	296.1	181.2	153.3	126.8	231.5	128.2	Garden	259
20323	316.8	186.9	277.2	206.8	172.9	NA	NA		NA
20326	587.1	125.3	98.9	97.6	96.4	NA	NA		NA
20327	1824.3	584.9	455.9	1962.1	2683.1	NA	NA		NA
20333	514.8	385.8	179.7	648.5	1627.5	2087.7	NA		NA
20334	1106.3	362.2	315.2	220.1	1250.6	NA	NA	B2	266
20341	447.5	306.2	705.4	271.5	619.5	NA	NA		NA
20343	3695.6	232.5	222.5	602	NA	NA	NA	B1	705

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Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
20351	437.6	286.8	209.6	247.6	277.6	NA	427.6		NA
20352	1554.4	3070.8	546	191.5	230.6	NA	289.2		NA
20355	1743.5	474.6	308.5	697	390.8	NA	NA	B1	2110
20357	754	156.9	167.5	245.4	323.4	NA	NA		NA
20363	502.8	428.4	NA	744.8	366.2	NA	NA		NA
20371	NA	916	1256.3	415.8	1664.9	NA	NA	F1	1040
20374	703	522.5	469.6	290.3	1529.3	245.8	NA		NA
20375	1939.8	NA	NA	970.1	981.6	NA	NA		NA
20379	158.8	123.6	115	129.7	119.4	NA	NA	B2	124
20384	1139.4	349.5	390.3	149.5	361.5	245.5	NA		NA
20394	1580	230.2	360	196.6	215.2	NA	NA		NA
20395	271.7	196.3	318.3	389.4	164.3	NA	NA		NA
20396	628.1	98.1	101.8	253.9	150.4	NA	NA		NA
20397	576.6	147.4	174.8	476.9	439.8	NA	NA		NA
20401	1804.5	NA	NA	2763.9	1507	NA	NA		NA
20403	791.6	NA	148.1	303.8	205	NA	NA		NA
20404	616.1	643.7	454	1092.8	290.3	NA	NA	F2	9270
20406	1992.1	369.5	332.7	821.9	1040.9	NA	NA	B2	1540
20408	1791.2	955.8	466.8	893.7	228.6	NA	NA		NA
20414	335.4	160.3	143.2	594	72.9	NA	NA		NA
20417	1901.2	391.8	317.8	808.6	799.2	NA	NA	B1	762
20422	413	197.2	349.3	155.1	91	126.2	NA		455
20423	470.7	249.6	259.2	113.2	NA	NA	NA	F1	229
20425	276.5	202	221	380.4	252.7	NA	NA		NA
20427	2172.2	1812.5	1012.3	685.6	143.1	86.3	NA		NA
20428	225	137.4	72.7	97.4	84.3	NA	NA	F1	155
20434	378.5	387.5	358.4	76.7	209	NA	NA		NA
20438	NA	211.7	413.1	337.9	214.8	187.8	NA		NA
20444	NA	312.5	220.5	392.3	541.8	189.2	NA		NA
20446	787.2	1089.6	860.8	415.6	418.4	NA	NA		NA
20450	544.2	94.8	187	230.7	898.4	297.2	NA		NA
20456	1939.6	199.8	1297.6	748.4	351.7	NA	NA	F2	573
20460	723.6	974.3	NA	1275	NA	NA	NA	F1	1780
20468	NA	765.6	346.2	NA	NA	NA	NA		NA
20472	2200	468.4	263.8	275	796.4	NA	393.6		NA
20474	159.1	140.4	149	144.3	142.1	NA	NA		NA
20481	1348.3	91.5	765	326.7	349.1	NA	NA		NA
20482	760.2	652.7	211	374.4	199.2	NA	341.1		NA
20485	476.6	858.8	743	112.2	385.4	NA	NA		NA
20486	128.4	268.7	1123.6	494.5	874.5	NA	NA		NA
20487	NA	356.2	149.2	293.4	NA	NA	445.1		NA
20489	368.4	403.2	732	650.8	304.2	584.4	NA		NA
20491	298.6	413.2	386.4	407.4	330.8	240.6	NA		NA
20497	2448.6	170.4	169.5	1237.7	1186.1	NA	NA		NA
20498	2897.6	727.8	740.9	940.6	1022.1	NA	NA	B1	880
20507	289.6	443.4	178.6	237.1	191.4	NA	NA		NA
20508	880.8	427.2	185.7	301.4	226.8	66.4	NA		NA
20509	1609.6	239.2	640	309.8	487.6	NA	NA		NA
20512	1851.8	1036.7	629.3	1009.8	243.7	NA	NA		NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
20518	NA	249.8	203.6	60.3	127.2	NA	NA		NA
20519	191.2	435.7	252.6	132.9	589.4	NA	NA		NA
20520	1558.7	129.7	141.5	558.5	685.8	NA	750.3		NA
20524	1428.5	412.6	458.4	1508.3	NA	346	NA		NA
20528	8364.8	836	626.4	546.4	619.6	NA	NA		NA
20531	2464	278.2	315.1	NA	NA	NA	NA		NA
20532	803.9	208.9	316.6	238.5	929.9	NA	NA		NA
20533	519.4	218.5	743.7	NA	298.8	NA	NA		NA
20538	213.7	188.4	73.2	180.6	133.4	NA	NA		NA
20546	343.2	538.9	390.4	753.3	1099.7	NA	555.1		NA
20547	1500.3	135.9	112.9	241.1	351.2	NA	NA	F1	139
20548	332.4	154.7	211.2	322.2	496.8	NA	NA		NA
20549	1126.8	352.8	593.6	360.9	379	NA	NA		NA
20551	976.4	422.4	82.4	NA	1159.1	NA	NA		NA
20552	319	NA	82.5	375.3	91.4	NA	NA		NA
20559	270.9	436.1	615.5	121	529.8	NA	NA		NA
20560	663.9	198.6	396.4	164.1	376.7	149.2	NA	F2	687
20564	932.2	26.3	333.9	184.2	125.3	NA	NA		NA
20565	1220.8	172	314.1	344.1	653.7	NA	205.6	Play	190
20566	228.5	290.5	181.7	198.7	248.5	NA	NA		NA
20570	489.8	299.6	253.1	274.7	582.3	NA	NA		NA
20571	1936.9	294.7	476.2	262.4	258.9	NA	NA		NA
20572	413.6	203.8	163.6	263.4	249.1	NA	87.9		NA
20573	603.4	167.9	414.8	89.2	215	126.5	NA		NA
20577	1312	1069.8	358	165.2	255.9	NA	138.2	Play	171
20578	NA	110.1	148.1	133.5	898	NA	NA		NA
20580	3150.2	1620.9	255.1	73	107.3	169	NA		NA
20583	4996.7	1139.6	2105.5	613.1	688.8	NA	NA		NA
20589	712	182.3	352.4	298	637.2	NA	NA		NA
20592	200.7	182.8	225.9	220.2	229.2	NA	NA		NA
20593	236.6	151.3	226.3	114.4	NA	NA	NA		NA
20595	724.8	163.1	91.5	142.5	76.7	NA	NA	F2	107
20600	1466	376.1	1028.3	858.5	1012.1	NA	NA		2420
20602	332.1	473.8	156.8	58	215.6	NA	NA		NA
20604	NA	541.6	520	523.6	1120	NA	NA		NA
20609	556	254.8	139.5	211.6	341.2	126.7	NA	Garden	224
20611	1540.4	392.3	91.1	116.7	264.7	NA	102.5		NA
20614	3656.2	405.4	236.5	528.8	389.6	NA	NA	F1	485
20616	740.6	163.5	114.4	258.6	106.1	NA	NA		NA
20617	162.3	411.1	648.5	488.4	190.5	NA	NA		NA
20618	651.2	267.4	82.2	84	98.6	NA	NA	F1	372
20620	187.5	304.7	215.2	453.4	159.8	NA	NA		NA
20621	823.4	229.2	442	821.6	627.8	NA	NA		NA
20622	409.1	179.5	130.3	214.6	146.1	NA	NA		NA
20628	300.5	260.7	142.4	483.3	145.7	NA	NA		NA
20630	342.9	44.3	425.3	194.9	112.4	NA	NA		NA
20632	256.8	224.6	80.7	NA	116.5	NA	NA		NA
20633	1234.8	288.5	105.2	249.7	230.8	NA	NA		1140
20634	219.4	148.9	95.6	77.7	109.9	101.5	NA	B1	73.3

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
20636	988.5	197.9	532.9	94.4	128	NA	NA		NA
20641	469.4	635.3	216.8	348.5	206.3	NA	NA		NA
20645	291.5	921.8	535.6	581.7	674.4	NA	NA		NA
20647	2204.8	390.5	326.9	491.9	633.6	NA	387.2	Play	242
20649	71.9	48.5	50.8	173.6	158.1	NA	NA		NA
20651	316	184.3	209.4	188.2	344.2	NA	268.4		NA
20652	339.3	215.9	238.1	236.8	161.1	272.3	NA	Garden	343
20653	2209.6	465.6	388.2	632	296.2	NA	NA	F2	703
20660	68.6	111.4	NA	82.3	134.4	NA	25.7	Play	11.2
20663	1300	360	189.8	518.8	433.2	704.4	NA		NA
20666	484.4	279.8	405.8	712.4	349.2	NA	NA		NA
20668	201.2	148.6	114.4	138.6	172.1	NA	NA	B2	189
20670	826.2	953.4	309.2	511.4	407.2	NA	NA		39.1
20672	1203.1	142.3	361.5	117.7	160	NA	NA		NA
20676	708	632	579	460.8	562.8	NA	NA		NA
20678	1500.2	29.9	163.3	324.8	350.4	NA	NA	F1	28.1
20680	912.9	388.3	433.3	284.9	709	NA	NA		NA
20687	229.6	177	184.2	100.4	86.4	NA	74.5		NA
20689	204.6	146.6	350.7	446.6	613.8	NA	NA	F2	430
20692	655.5	121.1	220.6	760.9	822.7	NA	NA		NA
20705	298.8	269.6	374.6	244.2	NA	NA	934.4		NA
20706	436.3	200.3	403	133.4	296.1	NA	NA	F1	251
20709	356	59.2	189.8	NA	NA	NA	NA		NA
20712	1734.8	174.8	104.1	331.4	1018.2	NA	NA		NA
20713	84.2	NA	63.9	NA	93.4	NA	NA		NA
20717	754.3	286	224.3	491.6	483.3	NA	NA		NA
20719	NA	132.9	98.3	509.6	150.5	NA	NA		NA
20720	675.2	340.5	470.3	296.9	665.3	270.1	NA	Garden	248
20726	2958.1	750.2	955.7	856.5	311.1	NA	NA		NA
20727	1272.6	370.7	1074.1	NA	176	NA	725.3	Play	710
20731	1040	NA	169.4	218.9	365.8	NA	NA		NA
20734	NA	NA	278.8	304.4	394.6	NA	NA		NA
20735	110.6	100	109.7	104.4	89.8	NA	NA		NA
20736	794.8	162	208.3	NA	NA	143.2	NA	Garden	171
20737	5852.4	3031.8	5486.9	3427.8	1240.9	NA	NA		NA
20738	474.6	208.3	304.1	312.5	538.7	306	NA		NA
20739	612.4	115.2	92.7	338	131.6	NA	NA		NA
20741	1328.9	608.1	1456.6	1584.8	414.8	NA	NA		NA
20745	145.4	411.4	309.7	417.5	153.3	NA	NA		NA
20749	391.4	279.8	231.3	155	265.8	NA	NA		NA
20750	461.2	204.1	243.1	149.4	133.1	109.7	NA	F2	262
20753	5439.9	373.4	250.2	NA	286.9	NA	NA		NA
20755	1194.1	95.7	377.8	321.8	NA	NA	NA		1700
20758	503.2	171.8	268.5	227	490	302.9	NA		NA
20760	256.7	122	167.7	73.4	80.5	NA	117.9		NA
20763	NA	109.4	110.9	84.4	123.2	NA	NA	B2	149
20768	65.3	114.9	127.4	107.3	226.1	NA	101.2		NA
20770	187.5	55.7	72.2	81.2	83.6	NA	NA		NA
20772	207.7	133.4	160.1	172.9	137	NA	NA		NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
20778	620.8	472	367	544.7	558.6	NA	NA		NA
20779	704.8	338	210.2	282.8	1009.6	NA	NA		NA
20783	639.5	1135.1	276	119.5	155.1	NA	NA	F1	1740
20788	648.6	90.3	99.5	831.2	442.4	NA	NA	B1	978
20790	174.7	146.3	100.2	137	100.9	110.2	NA		NA
20793	1817.2	410.8	484.9	392.5	376.9	NA	NA	F1	536
20794	8763	8386.8	291.9	747.7	317.1	NA	NA		NA
20795	39.7	284.7	280.1	446	169.3	NA	NA		NA
20796	428.6	398.2	1217.5	239.7	NA	NA	193.4		NA
20797	2659.2	372.2	301.6	410	624.4	NA	NA		NA
20799	257	367.7	654.8	236.4	183.1	NA	NA		NA
20800	4038.4	365.6	176.5	280	315.2	NA	NA		NA
20801	1440.2	548.4	436.1	207.2	277.5	NA	NA		1590
20805	811.5	182.3	190.8	333.1	357.2	NA	NA		NA
20806	738	429.2	408.8	523.6	594.8	NA	125.2		NA
20807	211.3	77.7	122.9	94.2	682.3	NA	NA		NA
20808	659.6	392.3	660.3	356.1	330.1	181.4	298.3	Garden	212
20809	311.2	206.2	350	578.8	226.8	NA	NA	F1	200
20810	190.6	141.9	130.7	138.1	195.9	NA	185.4		NA
20815	93.4	109.3	104.4	77.3	101.6	73.3	NA		NA
20816	461.6	608.2	505.1	250.4	106.9	NA	229.1	B1	301
20817	550.1	164.1	198.5	426.4	213.5	NA	NA	F1	178
20818	NA	384.6	334	737.7	450.8	NA	NA		NA
20825	556.4	859.9	1262.5	387.8	NA	NA	NA		NA
20826	147.1	106.4	195.6	222.3	285	NA	666.8		NA
20828	184.7	895.2	600	124.5	226.8	253.2	NA		NA
20829	1606.5	395.5	208.5	148.9	468.4	NA	NA		NA
20838	701.1	129.8	159.7	472.5	248	NA	NA		NA
20840	684.4	853.1	243.5	1542.3	1459.8	195.2	81.1		NA
20844	834.4	686	506	396	337.2	NA	NA		NA
20853	376.2	261.6	288.1	209	225.8	NA	NA		NA
20854	413.7	193	169	205.4	138.6	NA	NA		NA
20857	901.6	498	855.9	343.4	329.5	NA	NA		NA
20859	132.6	369.7	552.5	600	221.3	NA	NA		NA
20863	370	419	407.8	95.9	290.4	NA	139.2		NA
20869	1111.1	519.3	312.3	466.9	1240	NA	NA		NA
20871	3136.8	566.8	490.1	345.2	NA	770.9	NA	F1	730
20875	258.1	237.4	119.4	406.6	176	108.6	NA		NA
20876	13035.3	1171	2786.7	477.7	690.8	NA	NA		NA
20877	546	NA	206	357.6	405.5	NA	NA		NA
20878	2154	219.6	286.1	1505.9	354.1	NA	NA	B1	2780
20879	1353.1	376.4	465.7	413	399.6	NA	NA		NA
20887	22.5	419	353.6	1091.9	271.5	NA	NA	F1	449
20889	439.6	193.5	317.5	444.9	273.5	NA	324.5		NA
20895	129.1	360.4	261.6	NA	NA	NA	NA		NA
20896	2306.6	318.1	166.3	533.1	NA	NA	NA		NA
20902	522.6	254.4	225.3	196.4	312.5	NA	NA		NA
20903	982.6	490.4	331.5	366.2	651	NA	NA		NA
20907	1465.9	570.9	724.8	396.2	495.3	NA	NA		NA

Appendix A
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Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
20911	183.8	165.3	359.5	142.8	228.3	NA	NA		NA
20914	58.9	84.5	62.5	119.9	60.1	NA	NA		NA
20915	836.2	195.4	253	893.9	417.1	NA	NA		NA
20919	908.1	973.4	492.6	NA	NA	NA	NA		NA
20921	378	269.3	161	167.9	145.2	NA	NA		NA
20923	562.9	441.2	462.1	477.1	365.8	245.3	NA	Garden	355
20927	2340.8	319.3	150.6	265.9	138.6	NA	NA		NA
20928	981.6	242.6	189.8	263.6	205.4	NA	NA	B1	398
20929	531.9	339.2	283.6	271.8	449	NA	246.8	B2	527
20930	849.3	644.6	197.5	196.1	344.8	381.1	NA		1190
20933	413	392.1	201.6	169.2	180.1	521.8	NA		NA
20937	408.1	307.1	119.8	137.6	122.5	NA	194.3		NA
20938	1263.9	712.5	704.9	201.1	831.7	NA	NA		NA
20941	4204.5	570.6	462	113.5	252.2	NA	NA		NA
20942	137.1	39.2	93.7	21.9	36	NA	NA		NA
20943	43.2	129.9	115.6	94.9	162.9	NA	NA	B2	224
20944	661.4	334.3	346	265.2	221.5	NA	NA		NA
20946	93.8	515.9	193.7	116.2	258.8	NA	241.9	Play	262
20949	675.6	247.4	261	54.1	216	NA	NA		719
20951	965.6	241.6	105	275.8	1049.6	NA	NA		NA
20953	4980.7	382.3	1275.6	2394.7	7448.9	NA	NA	F2	2360
20954	805.5	186.8	421.1	315.8	1316.8	NA	NA		NA
20956	279.2	151.7	155.8	158.2	135.1	NA	NA		NA
20958	ND	34.3	86.6	ND	40.9	NA	NA		NA
20959	4786.1	739.6	354.9	370.5	4384.8	NA	NA		NA
20960	624	140.6	222.2	543.6	969.6	NA	NA	B1	940
20963	ND	116.8	152.4	333.6	303.1	NA	NA		NA
20966	134.3	196.1	160.6	366.8	175.2	NA	NA		NA
20968	NA	400.4	327.5	278.7	328.7	252.1	NA		NA
20969	317.5	67.5	55	106.8	108.8	201.6	NA		NA
20971	409.2	673.3	288.6	1052.1	354.2	404.2	NA		NA
20972	657.6	290.2	424.4	417.6	231.4	186.9	NA		NA
20973	764.3	811.2	778.8	584.7	699.4	NA	NA		NA
20978	52.6	46.7	101.1	277.3	206.2	NA	NA		NA
20990	247.9	235.4	269.5	540.6	231.8	NA	NA	B1	582
20992	1360	845.6	393	229.2	163.1	2379.2	NA		NA
20996	25	63.1	57.2	56.8	72	NA	NA		NA
20997	2988.8	250.2	207.8	492.4	NA	NA	NA		NA
20998	1052.8	282.6	450.8	239.4	674.7	NA	NA		NA
21000	1226.6	322.4	254.3	166.5	321.9	NA	NA		NA
21003	88.4	81.1	171	155.1	22.1	NA	NA	F1	74.9
21017	2835.8	1392.3	1127.7	807	605.7	NA	NA		NA
21018	215.3	NA	NA	263.3	243.2	NA	NA	B1	349
21020	1553	863	416.3	465.7	159.9	NA	NA		NA
21022	93.1	198.5	77.6	80.2	189.8	NA	NA		NA
21025	124.4	77.6	57.6	64.2	602.4	NA	NA		NA
21027	732.5	449.7	986.2	351.3	392	NA	NA	B1	371
21028	306.6	125.5	130.1	149.7	172.7	NA	NA		NA
21032	1668.8	241.6	548.4	1340	1739.2	NA	NA	F1	356

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Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
21036	762.4	108.4	127.2	NA	231.2	NA	NA		NA
21037	342.9	157.6	64.7	194.6	NA	NA	NA		NA
21041	290.6	92.7	100.2	205.3	157.4	NA	NA		NA
21043	396.9	ND	56	NA	118.9	NA	NA		NA
21044	33.8	45.3	69.2	23.8	18	NA	NA		NA
21048	566.4	210.7	303.3	334.2	1018.3	NA	NA	B2	1230
21049	339.1	297.3	458.4	263.8	426.2	221.3	NA	Garden	179
21050	1319.1	616.9	1064.8	743.9	921.6	NA	NA		NA
21051	37.9	49.7	83.3	146.6	133.1	NA	NA		NA
21054	126.3	97.4	105.6	82.9	102.3	NA	NA	B2	132
21055	181.4	112.7	90.9	237.6	161.7	NA	NA		NA
21056	330.4	271.1	273.6	402.6	275.8	NA	NA		NA
21060	642.5	213.6	500.3	156.3	NA	NA	NA		NA
21061	95.7	88.8	82.7	123.7	73.2	69.9	78.7		NA
21073	437.1	252	413	279.4	218.5	NA	NA		NA
21074	207.4	110	354	ND	66.2	NA	NA		NA
21075	849.3	331.9	221	463.8	3809.7	NA	NA		NA
21077	1336	284.5	459.2	542.9	259.6	NA	NA	F1	646
21080	312	144.5	122.7	76.8	352.8	NA	NA		NA
21082	415.2	252.6	361.6	253.9	408.7	NA	NA		NA
21083	440.8	154.7	171.5	213.8	91.1	NA	NA		NA
21084	17.1	54.9	28.4	ND	23.7	37.5	NA		NA
21088	1859.2	210.4	394.2	430	136.4	NA	NA		NA
21089	658.6	201.1	232.2	570.1	697.5	462	NA		NA
21095	914.3	175.7	225	406.3	452.6	NA	NA		NA
21100	27.6	591.1	1199.3	176.8	452.5	NA	NA		NA
21103	70.3	96.3	64.8	40.5	52.8	NA	NA		NA
21104	1516.8	749.6	894.8	425.1	483.4	NA	NA	F2	1240
21106	727.2	172.8	88	212.3	109.9	NA	NA		NA
21109	965.1	79.3	83.1	120.4	77.8	NA	NA	F2	66.3
21111	286.8	618.7	226.9	692.2	137.7	NA	260.8	Play	254
21115	360.3	141	138.5	151.9	219.7	NA	NA		537
21117	438.8	482	461.6	247.2	252.6	NA	NA	F1	577
21121	66.3	52.6	61.5	53.1	54	NA	NA		NA
21124	137.3	202.3	337	67.5	71.9	NA	NA		NA
21126	60.1	96.4	77.2	38.3	13.9	NA	NA		NA
21133	192.5	1969.3	272.4	155.4	149.6	NA	NA	F2	380
21135	NA	NA	669.8	NA	NA	NA	NA		NA
21138	2028.8	276.6	483.6	285.4	298.4	NA	NA	B1	321
21140	209.4	300.6	262	98.3	157.5	97.8	37.7	Play	40.7
21141	2385.6	444.3	224.1	679	381.5	NA	NA		NA
21142	1143.8	407.3	358.7	420.4	597.7	NA	NA		NA
21144	31.8	105.6	77.3	171.3	91.3	NA	NA		NA
21151	429	116.7	82.4	115.5	232.2	NA	NA		NA
21157	1484.6	489.5	709.9	NA	NA	NA	NA		NA
21158	655.2	515.4	906.1	183	458.4	509.5	271.7		606
21161	NA	422.2	635.2	478.9	397.3	NA	NA		NA
21164	NA	NA	941	245.6	689.3	NA	244.5		NA
21165	1415.6	399.3	752.9	279.5	717.2	NA	2751.9		NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
21167	1665.1	217	63.8	407.9	ND	NA	NA		NA
21170	496.7	102.9	197.8	370.5	432.2	NA	NA		NA
21171	366.8	218	163.3	347.8	452	NA	NA		NA
21174	1356.5	286.6	168.9	396.4	497	352.9	636	Garden	1610
21177	1114.4	200	147.6	2544.2	152.2	270.5	NA		NA
21178	498.7	197.1	209	448.6	345.2	244.3	NA		NA
21179	2009.6	81.3	259.6	1009.6	188.8	NA	NA		NA
21180	1388.7	204	817.4	534.4	292.1	NA	NA	B1	576
21181	NA	138.2	NA	331	603.2	NA	225.5		NA
21184	NA	36	442.4	41	51.8	NA	NA		NA
21191	389.9	509.4	248.8	272.9	731.8	NA	NA		NA
21192	195.3	94.4	119.8	ND	54.9	NA	308.7		NA
21194	NA	229.4	300.1	137.2	800.7	NA	NA		NA
21195	323.2	156.6	137.5	177.8	161.3	NA	255.6		NA
21198	1119.5	776.8	476.2	422.2	473	NA	273.1	B2	864
21199	1328.2	385.1	693.8	419	285.3	NA	NA		NA
21202	126.2	83.9	113.7	217.6	162.9	NA	281.8		NA
21203	300.1	252.1	340.5	460.8	407.7	NA	NA		NA
21206	240.2	98	98.3	95.3	109.9	NA	NA		NA
21208	1409.6	949.6	536.8	820.8	882.4	NA	NA		NA
21209	5129.6	61.2	177.9	699.6	576	NA	NA		NA
21210	ND	132.4	154.3	67.2	170.8	NA	NA		NA
21211	NA	1069.4	437.9	632.9	735.9	NA	NA		NA
21212	137.8	59.9	101.4	113.2	NA	NA	135.6		NA
21218	90	94.9	58.2	145.2	26.1	NA	NA	F2	81.5
21221	369.1	97.7	434.1	126	NA	NA	NA		NA
21222	145	50.2	78.8	ND	166.7	NA	NA		NA
21223	267.5	100.7	109.3	46.6	124.9	62.9	NA		NA
21226	798	126.9	198.1	732.7	233.8	NA	NA		NA
21227	251.6	159	533.3	162.7	92.3	NA	NA	F1	238
21229	732.1	NA	1600.7	625.2	193.4	NA	NA		NA
21232	509.2	468.4	381.9	247.3	254.9	NA	262.7		NA
21235	1807.7	584.4	655.4	524.9	509.8	NA	NA		NA
21236	NA	271.4	336.8	459.3	258.9	NA	NA		NA
21237	1150.9	232.8	165.7	370.3	1180.3	NA	NA		NA
21239	1948.8	105.3	101.8	240.6	284.8	339.4	NA		NA
21241	2965	205.6	474.2	417.8	475.5	NA	NA		NA
21245	27.7	30.3	151.6	18.5	14	NA	NA		NA
21247	367.7	168.6	131.6	283.8	136.9	NA	NA		NA
21250	848.4	NA	NA	627.6	242.8	NA	NA		NA
21251	164.4	68.9	47.3	74.2	65	NA	NA	B1	78
21254	344.5	198.1	322.3	955.7	NA	NA	NA		NA
21255	52.7	ND	19.5	26.6	24.4	NA	NA	B1	39.8
21256	NA	NA	NA	36.8	13.6	NA	NA		NA
21259	1240	592	570.8	448	385.6	NA	NA	F1	930
21262	378.9	679.4	1054	207.6	918.5	NA	NA		NA
21267	226	106.2	133.4	151.7	285.4	NA	NA		246
21269	533.2	210.8	278.4	223.4	273.8	NA	NA		NA
21272	101.5	192.6	84.3	183.7	NA	NA	NA		NA

Appendix A
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Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
21273	1300	324.8	191.3	372	430	NA	NA	F2	481
21276	206.8	161.8	137.9	199.1	387.9	NA	NA		448
21277	457.3	171.8	239.8	296.5	365.3	NA	NA		NA
21284	554.1	428.3	260.2	479.6	405.1	NA	NA		NA
21285	341.6	112	109.3	38.3	176.7	NA	NA	F1	113
21286	822.6	286.2	128	247.6	114.3	NA	NA		NA
21288	99.1	491.6	196	202.4	500.8	NA	NA	B1	185
21291	51.5	ND	ND	ND	ND	NA	NA		NA
21293	510	180.8	132.2	170.3	197.2	NA	NA		NA
21295	1137.1	185.9	157.5	1170.8	2119	NA	NA		NA
21296	346.5	157.6	190	137.3	187.1	NA	NA		NA
21297	62.2	144.8	151.5	177.7	170.2	NA	NA		NA
21299	1183.2	431.1	704.7	604	275.6	NA	NA	F1	1050
21301	348.2	192.3	54	138.7	710.8	NA	NA	F2	50.7
21306	1320	468.4	1600	417.2	443.6	NA	NA		NA
21307	424.4	410.5	1091	240.9	149.7	NA	NA	F2	1220
21311	385.6	153.5	78.6	239.8	266	NA	194		NA
21313	217.8	144.3	347.1	764.9	324.3	NA	803.1	F2	459
21314	288.2	184.6	107.9	411.6	185	NA	NA		367
21316	365.2	78.7	101.9	NA	147.4	NA	NA		NA
21317	193.6	166.1	95	149.6	186.3	NA	NA		NA
21319	37.5	52.9	53.5	91.4	75.4	NA	NA	B1	73.1
21322	372.8	72.4	91.6	153.2	92.2	NA	NA		NA
21323	1701.8	945.4	508	199.8	NA	NA	NA		NA
21326	897.5	559.7	525.4	400.9	381.1	NA	NA		4440
21329	221.8	91.2	187.5	NA	204.2	NA	NA		NA
21330	227.8	102.7	41.1	126.3	67.5	NA	NA		NA
21332	3478	553.5	582.8	218.2	396.8	NA	NA		NA
21334	449.2	275.2	265.3	579.2	365	NA	2370.7		NA
21339	323.4	286.9	199.7	555.1	307.1	NA	NA	B1	624
21342	1283.6	360.1	191.6	134.3	72.2	48	NA		NA
21351	170	80.5	167.6	122.4	86.5	56.3	NA		NA
21356	729.2	85.7	71.2	415.2	120.9	NA	NA		NA
21357	26.9	22.7	29	27.2	24.2	NA	NA		NA
21359	213.9	62.7	NA	101.3	55.5	NA	NA		NA
21362	539.4	68.3	151.2	185.5	124.8	86.8	NA		NA
21363	186.7	60.1	71.9	81.8	71.9	NA	NA		NA
21365	1699	278.7	332.8	510.5	441.5	NA	NA		NA
21369	476.8	127.5	309.4	925.6	174.6	NA	NA		NA
21375	273.4	77	82.6	328.3	242.5	NA	NA		NA
21376	2714.6	274.6	211	NA	NA	NA	NA		NA
21378	1214.1	260.5	329	303.2	431.5	NA	NA		NA
21381	2019.2	548	1349.6	NA	298	NA	NA	F2	1460
21382	89	104.4	81.3	35	54.2	NA	NA		NA
21383	59.6	60.1	53.3	58.1	100	NA	NA		NA
21384	3142.4	313	2106.7	617.5	325.3	NA	NA		NA
21385	542.2	128	231.9	100.1	176.6	NA	NA	F2	567
21386	2468.8	234.2	168.2	226	185	NA	NA		NA
21392	NA	31.1	29.2	26.9	ND	NA	NA		NA

Appendix A
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Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
21400	2649.6	197	221.4	300.6	NA	NA	NA		NA
21403	248.9	91.1	231.4	258.9	111.9	NA	NA		NA
21405	1450.1	421.3	451.6	298.7	299.7	NA	NA		2780
21407	36.1	24	35.5	52.2	27.5	NA	NA		NA
21409	2120	601.6	1549.6	760	1300	NA	NA		NA
21411	189.2	90.6	46.4	75.4	91.6	ND	NA		NA
21412	777.2	NA	222.8	NA	NA	NA	199.4		NA
21414	NA	384.7	525.8	958.1	692.1	NA	NA		NA
21415	ND	89.8	257.4	144.4	55.2	NA	NA		NA
21416	NA	NA	NA	67	79	NA	NA		NA
21417	810.3	658.5	636.7	555	1140.8	NA	NA		NA
21422	22.4	42	24.5	32.8	ND	NA	NA		25
21423	2592.5	252.9	761	NA	1184.8	509.3	NA		NA
21425	NA	NA	29.7	NA	NA	NA	NA		NA
21427	1340	656	583.6	662.8	804.4	NA	NA		NA
21428	832.6	437.1	NA	373.2	361.4	NA	239		NA
21430	520.1	251.1	180.9	84.9	170.9	NA	NA		NA
21432	466.4	359	429.6	532.8	781.6	NA	NA		NA
21434	796.6	506.6	391.5	NA	NA	NA	NA		NA
21437	273.6	224.7	NA	233	339.9	NA	NA		NA
21438	582.8	172.2	146.7	318	313.6	NA	180.6		NA
21443	236	155	218	155.6	153.1	NA	NA		441
21450	661.7	77.1	85.3	42.9	135.6	NA	NA	F2	128
21452	49.6	25.1	26.9	25.8	ND	NA	NA		NA
21456	194.2	NA	NA	325.1	682.1	NA	202.4	Play	242
21457	762	247.8	227.6	432.8	106.3	NA	NA	F1	170
21459	165.7	299.4	223	679.7	503.4	NA	158.6		NA
21460	269.2	103.8	97.5	114.9	76.7	NA	NA		NA
21461	2179.2	344.8	229.6	535.6	367.6	NA	NA		NA
21462	NA	146.5	137.5	131.9	845.4	NA	NA		NA
21466	596.7	482.3	NA	241.9	NA	NA	NA		NA
21470	634.8	134.2	296.4	101.9	118.9	NA	NA		NA
21472	1183.4	114.7	119.5	340.4	248.7	NA	NA		2010
21475	113.5	245.7	158.3	54.1	NA	NA	NA		NA
21476	853.6	89.4	167.8	127.7	151.5	NA	96.8	F2	179
21480	230	56	112.1	NA	NA	28.8	NA		NA
21483	1080	464	270	465.6	425.2	378.4	NA		NA
21484	607.2	146.9	152.4	NA	484.8	NA	NA		NA
21489	184.9	220.9	131.3	40.8	89.1	178.9	NA		NA
21491	309	144.3	236.4	30.1	101.7	NA	NA		NA
21492	162	406	214.2	137.3	198	248.3	NA		NA
21493	617.8	653.3	628.9	151.2	199.9	NA	NA	B1	131
21494	1748.8	393.2	105.1	555.6	293.6	NA	NA		NA
21495	177.5	120.3	56.9	90.6	180.7	NA	NA		NA
21496	310.1	160.2	116.9	192.5	190.2	NA	NA		NA
21497	1649.6	263.2	183.2	208.8	286.8	NA	NA		NA
21499	283.4	NA	265.2	295.7	496.2	NA	NA		NA
21500	414.8	190.8	146.9	339.8	361.4	NA	NA		NA
21504	976.8	257.4	217.4	303.8	NA	NA	NA		NA

Appendix A
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Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
21509	293.3	155.8	79.7	259.5	225.7	NA	NA		NA
21514	ND	59.1	48.8	66.9	ND	NA	NA		NA
21515	NA	118.8	134.5	102.6	126.5	NA	NA		NA
21517	550.7	268.8	170.6	412	371.3	NA	165		NA
21519	57.1	170.4	382.8	192.9	148.2	NA	NA		NA
21522	837.6	650.8	484.4	NA	NA	NA	NA		NA
21527	381.2	426.1	116.3	280.3	214.8	NA	NA		618
21528	431.8	352	298.5	241.6	471.2	NA	NA		NA
21529	794.3	709	254.5	125.3	137.1	NA	NA		NA
21530	291.8	131.1	184.8	208.8	397.5	NA	NA		NA
21533	626	157	139.5	422.8	391.8	NA	NA	B2	570
21538	807.2	207.4	175.4	359.2	624.4	NA	NA		NA
21542	891.4	208.3	199.6	516.5	197.9	NA	NA		NA
21545	45.7	254.4	164.5	166.7	398.2	NA	NA		NA
21550	121	99.7	73.9	103.5	64.9	NA	NA		117
21553	1480	1429.6	812.8	340	289.2	NA	NA		NA
21557	750.1	938.5	443	285.4	231.7	NA	NA		NA
21558	86.4	106.9	67.7	126.2	78.8	NA	NA		NA
21559	472.8	603.6	231.4	356.6	466.8	NA	NA		NA
21562	306.5	620.8	441.3	129	172.7	120.2	NA		NA
21566	621.7	271.4	505.2	249.7	NA	341.2	NA		NA
21570	706.2	185.9	240.6	397.8	194	NA	NA	F1	281
21577	71.4	63.8	64.3	42	77	NA	NA		NA
21580	163.4	251.8	301	139.7	188.4	280.2	NA		279
21585	134.4	241.6	114	112.8	100.8	NA	NA		NA
21586	147.1	91.1	131.5	105.7	137.8	NA	NA	B1	172
21596	354.7	249.2	153.1	272.6	183.2	NA	192.2		NA
21600	105.9	93.2	107.1	163.3	71.2	NA	NA		NA
21602	610	408.4	691.2	458	355.8	NA	NA		NA
21603	516	216.6	393.6	338.2	130	NA	NA		NA
21605	162.5	153	102.3	298.6	301.7	172.7	NA		NA
21610	748.8	111.1	118.9	129.8	260.5	NA	NA		NA
21613	167.8	98.3	102.6	132.9	114.9	NA	NA		NA
21615	751.2	290.5	148.8	247	158.3	390.3	NA		NA
21616	291.9	122.9	554.6	345.6	188.3	336.4	NA		NA
21620	509.6	305.1	898.2	1386.8	NA	NA	NA		NA
21623	2715.3	405	163	338.8	359.9	NA	NA	B2	466
21624	791.6	154.3	299	556	342.6	NA	NA		NA
21626	860.8	462	357.2	238.2	264.8	NA	NA		NA
21634	490.8	524	519.2	327.2	166.8	NA	NA		NA
21639	869.5	420.6	174.1	328.8	297.5	NA	NA	B2	257
21641	689.4	180.4	232.5	146.2	95.6	NA	NA		NA
21642	NA	NA	472.3	NA	346.6	NA	NA		NA
21643	79.3	197.7	282.1	146.9	180.8	126.3	NA		NA
21648	4536.8	1309.3	802.9	2485.7	956.9	NA	NA		NA
21650	563.8	141.7	94.3	2240.2	191.1	NA	NA	B1	5410
21658	44.3	54.5	100.7	NA	139.4	NA	NA		NA
21659	513.2	501.5	397.6	434.5	393.1	NA	NA		NA
21661	450.7	165.4	286.6	226.3	369.4	NA	NA	B2	1250

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Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
21664	215.9	28.7	331.1	108.7	102.9	58.2	NA		NA
21665	27.9	154	139.6	217.2	221.4	NA	NA		NA
21667	1057.9	154.7	217.3	154.3	209.8	213.7	NA	F1	138
21669	100.9	242.9	548.4	104.2	138.2	NA	NA	F1	244
21672	766.4	188	261.4	215.2	327	NA	NA		NA
21673	579.2	341.6	127.9	350.2	245	274.4	NA		NA
21679	231	198.2	104.1	94.2	76.8	87.5	185.8	Garden	131
21680	895.6	1087.9	480.1	143.4	729.5	NA	NA		NA
21683	221.2	331.4	435.6	254.4	594	NA	182.1		NA
21684	1979.2	1009.6	237.4	245.2	482.8	NA	68.4		NA
21686	2313.5	380.7	252.2	613.3	1062.8	NA	NA		NA
21688	263.2	136.4	106.5	NA	274	NA	NA		NA
21690	2920	99.9	366.8	78.5	229	NA	NA		NA
21691	1199.7	63.7	104.7	165.7	79.4	NA	NA	F1	127
21693	136	93.1	96.1	148.3	162.8	NA	NA		NA
21695	4118.6	434.6	488.9	NA	1096	NA	NA		NA
21698	480.4	139.8	110.6	192.3	201.8	NA	381.9	Play	369
21699	61	68.9	96.2	60.4	52.4	NA	NA		NA
21700	264.6	149.4	187.3	308.1	441.9	NA	NA	B2	472
21701	1161.4	218.7	151.3	315.6	148.7	142.4	NA		NA
21703	565.2	298.2	310.8	1659.2	956.8	NA	NA		NA
21707	289.6	195.7	125.5	192.6	139.3	NA	NA		NA
21713	1871	115.4	100.9	308.5	180.5	NA	NA		2110
21721	40	815.6	54.9	95.1	262.8	NA	NA		NA
21726	678	193.9	439.2	245.6	266.2	NA	NA		NA
21728	166.5	344.2	164.2	104.9	58.7	NA	83.5		NA
21731	1058	299.7	399.9	498.7	625.2	823	NA	Garden	1290
21734	730.4	88.1	199.7	108.8	112.7	NA	NA		NA
21735	348.4	275.3	252.4	247.4	174.4	182.6	NA		NA
21736	NA	89.6	31.7	94.6	NA	NA	NA		NA
21739	368.2	399.2	80.6	371.4	315.4	NA	NA	B1	415
21748	5497.6	217.2	172.3	181	650.8	NA	NA		13900
21749	923.3	133.9	625.2	194.9	108.2	543.2	195.3		NA
21750	927	289.6	333.7	3966.6	831.3	NA	NA		NA
21752	113.9	164.8	179.9	75.2	147.5	704.1	NA		NA
21757	549.2	172.6	261.6	114	115.6	NA	NA		NA
21758	364.3	273.3	374.2	174.2	194.1	NA	NA		NA
21760	884.3	37.8	149.1	177.9	85.4	NA	126.4		NA
21764	845.6	239	183.4	398	263.4	NA	NA		NA
21765	892.8	530.4	464.8	617.6	728.4	NA	NA		NA
21767	580.7	332.1	699.1	422.4	640.9	NA	NA	F1	474
21772	520.4	258.7	291.7	136.1	114.1	67.9	NA		NA
21775	404.9	229.6	126.9	277.5	1145.4	NA	NA		NA
21777	258.7	145.4	103	120.1	195.9	NA	82.2		NA
21778	43.6	657.6	138.6	168	180.9	NA	184.9		NA
21779	1104.1	652.6	482.7	433.1	218.9	263.9	350.6		NA
21782	990.7	285.2	609.1	506.5	162	NA	81.2		NA
21788	411.6	190.4	113.8	157.8	109.5	NA	118.3		NA
21789	766.4	189.5	157.2	180.5	140.2	NA	NA	B1	208

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
21790	1447.5	321.5	351.3	221.9	317.5	NA	NA		NA
21791	250.8	259.1	492.6	578.8	651.1	NA	NA		275
21793	821.6	149.1	NA	297.4	177.6	NA	NA		NA
21794	56.6	151.2	74.7	178.9	183.3	48.2	NA		NA
21798	NA	520.4	235.4	370.5	502.7	256.5	NA		NA
21800	411	90.5	99.2	52	97.7	NA	NA		NA
21801	355.8	168.8	322	120.2	206.6	NA	NA		NA
21804	332.6	181.8	223.4	187.3	313.6	NA	NA		NA
21807	1715	159.1	207.9	301.2	541.5	216.2	NA		NA
21809	755.6	185.7	189.5	721.6	798.8	NA	NA		NA
21810	547.6	212.2	503.6	315.4	NA	NA	NA		NA
21813	285	267.4	264.6	973.6	558	NA	NA		NA
21816	441.8	210.1	178.5	202.8	474.3	NA	NA		NA
21818	462.1	169.9	303.9	NA	373.2	NA	NA		NA
21819	2948.8	647.2	274.4	598.4	616	NA	NA		NA
21824	352.5	180.9	55.8	122.9	52.6	NA	NA	F1	199
21825	392	331.9	222.1	449.2	492.3	NA	NA		575
21826	477.3	262.2	1474.7	835.5	349.6	NA	NA		NA
21827	285.6	213	266.4	209.8	347.4	NA	NA		NA
21829	2525	398.3	223.1	548.1	892.1	NA	NA		NA
21835	847	117	163.5	369.8	885.8	NA	NA		858
21838	860	217	401.2	388.4	320.2	NA	NA		NA
21839	573.4	276	362.7	318.7	341.4	NA	NA		NA
21843	666	384	616.4	NA	196.1	NA	NA		NA
21844	110.1	213.3	111.7	114.1	130.1	181.5	NA	Garden	153
21845	379.2	487.6	263.2	892	275.4	NA	NA		NA
21846	1868.8	2188.8	612.8	668.8	766	NA	NA		NA
21849	2747.9	419	785.7	488.4	NA	314.4	NA		NA
21857	144.6	70.6	92.8	151.1	189.8	NA	NA		NA
21858	487.1	147	55.7	129.9	43.8	NA	NA		NA
21859	863.2	244	142.2	466	763.6	NA	NA		NA
21860	217.7	87.1	159.9	92	88.8	NA	NA		NA
21861	523.2	208.8	261.8	54.2	125.2	NA	NA	F1	1460
21864	473.9	160.3	307.6	106.5	96.8	NA	NA		NA
21865	549.6	205.9	482.2	171.2	159.8	NA	NA		NA
21866	207.6	340.6	438	236.8	86.2	NA	NA		NA
21868	647.4	152.2	119	247.8	210.8	NA	NA		NA
21869	228	94.6	130.1	371.6	142.1	NA	NA		NA
21870	2278.1	812.6	396.8	NA	NA	NA	NA		NA
21871	307	579.3	374.4	122.2	1088.2	NA	NA		NA
21873	364.8	218	130.6	208.8	294	NA	NA		NA
21874	169.6	174.6	133.9	125.1	314	NA	NA		NA
21876	627.2	74.7	163.7	336.2	410.8	NA	NA		NA
21877	1001.4	300.2	328.2	238.5	102.9	NA	NA		NA
21878	173.2	409.7	277.6	71.6	191.4	NA	NA	F1	436
21880	790.2	64.8	167.1	102.5	160.5	NA	NA		NA
21883	171.2	160.3	115.7	192.3	390.4	NA	NA		NA
21885	588.8	115.8	241.8	307.3	121.8	114.8	NA	B2	169
21886	903.8	377.7	521.5	NA	473.7	NA	NA		NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
21887	236.6	88.4	84.8	113.9	110.2	NA	NA		NA
21888	117.1	98.2	246.2	87.3	85.9	NA	NA	F2	300
21896	179.6	71.5	265.1	86.5	198.7	NA	NA		NA
21898	3140.5	628.5	152.2	891.9	4361.1	NA	NA		NA
21899	1868.8	378.6	104.2	NA	235.8	NA	217.2		NA
21900	819.2	161.3	277.4	114.2	184.6	NA	NA		NA
21902	4889.6	1120	851.2	417.6	181.1	NA	NA	F2	1760
21904	571.7	114.2	173	175.5	384.2	NA	196	Play	216
21907	746.8	378.6	1289.6	444.8	448.8	NA	NA		NA
21908	351.2	210.7	239.7	NA	195.1	NA	NA		NA
21910	2360	1828.8	311.6	239.4	677.2	NA	NA		NA
21913	1453.7	250.7	392	240.1	323.4	NA	NA		NA
21921	693.3	225.8	227.9	245.8	324.7	NA	NA		NA
21922	599.2	171	344.4	173.7	NA	NA	NA		NA
21932	645.2	315	193.4	525.2	512	297	NA		NA
21935	663.4	1488	173.2	262.1	467.7	NA	NA		NA
21936	1446.9	228.9	286	154.6	272.9	NA	NA		2170
21938	1373.6	433.6	635.9	321.1	1603	NA	NA	B2	1850
21939	3731.9	666.9	420.6	3238.5	NA	NA	NA		NA
21946	944.8	224.4	196.1	287.4	200.9	NA	NA		NA
21950	591.2	90.8	91	90.4	159.5	125.5	NA		NA
21952	760.4	310.1	93	289.4	133.6	NA	118.6		NA
21954	114.1	98.9	NA	NA	NA	NA	NA		NA
21958	1729.6	120.7	137.4	261.2	433.6	409.4	NA		NA
21959	706.4	338.4	357.2	272.8	334.4	NA	NA	B1	107
21961	39.4	43.9	40.4	63.8	76.5	NA	NA		36.9
21966	692.3	243.8	202.3	534.5	270.9	NA	290.2		NA
21967	2899.2	365.4	575.2	179.4	275.6	NA	NA		NA
21971	489.2	47.2	174.5	NA	286.8	NA	NA		NA
21975	NA	758.1	645.5	NA	NA	NA	NA		NA
21978	2108.8	875.2	1520	306.2	367.8	NA	NA		NA
21979	1090.4	163	175.6	305.9	333.9	NA	NA		NA
21991	393.5	314.1	286.2	NA	633.6	NA	NA		NA
21994	560.8	358.4	NA	302.4	NA	NA	NA		NA
21996	230.8	81.6	197.6	168.8	231.2	NA	NA	B1	216
21998	343.4	236.6	234.2	126	197.6	NA	NA		NA
21999	119.4	213.8	113	168.6	NA	NA	NA		NA
22000	1473.9	624.9	783.8	278.5	476.5	NA	NA	F2	826
22002	555	148.1	370.1	253.1	629.3	NA	NA		NA
22004	799.2	434.4	112.3	409.4	267.8	NA	NA		NA
22010	1232.7	346	180.2	272	607	NA	NA		NA
22016	2207.5	400.7	746.4	NA	537.9	NA	NA		NA
22026	167.4	79.2	203.5	114.8	145.7	NA	NA		NA
22031	157.1	78.5	168.2	36.6	NA	NA	NA	F1	94.8
22033	2209.6	222.4	1069.6	1069.6	1040	NA	NA		NA
22035	897.6	1009.6	160.9	696.8	NA	NA	NA		NA
22037	832.7	NA	170.5	293	102	NA	NA		NA
22038	2299.2	168.4	139.6	675.6	996	NA	NA		NA
22041	357.6	83	277.2	362.3	689.2	NA	NA	F2	320

Appendix A
Table A-2
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Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
22042	814.4	85.3	236	335.8	356.2	NA	NA		NA
22047	218.4	139.2	130	426	273.6	NA	NA		NA
22049	777.3	522.4	334.3	316.5	424.8	NA	NA		NA
22052	1772.8	606.8	246.3	145.8	161.1	NA	NA	F2	198
22053	249	185.4	605.2	395.2	173	NA	NA		NA
22054	2161.3	133.9	150.7	82.4	81	NA	NA	B2	124
22057	118.4	82.8	100.9	370.1	NA	NA	NA		NA
22063	94.6	486.4	664	NA	757.2	NA	NA		NA
22064	974.1	140.1	825.1	604.1	NA	NA	NA		NA
22065	671.8	200.7	276.2	211.8	209.2	NA	NA	B2	318
22067	965.1	221.8	166.9	817.6	284	NA	NA		NA
22069	1040	158.7	263.6	146.9	116.9	NA	NA		NA
22072	249.7	177.6	132.3	340.1	264.4	55.6	NA		NA
22073	1144.9	245.3	135.6	NA	412.4	NA	NA		NA
22075	1178	290.1	505.3	1105.8	565.4	820.2	NA		NA
22076	1449.6	151.2	167.8	129.9	183.8	NA	NA	B2	259
22077	632	244	396	309.6	425.2	NA	NA		NA
22087	934.9	452.5	879.2	260.7	317.9	NA	NA		NA
22092	3708.8	265.8	392.2	205.8	570	NA	NA		NA
22093	507.7	214.9	160.6	155.4	210.2	NA	NA		NA
22096	4528.7	558	906.6	813.5	292.8	NA	351.6		NA
22101	113.1	117.1	127.2	137.9	106.1	NA	NA	B2	104
22104	3049.6	477.6	867.2	112.8	72.6	238.6	NA		NA
22108	469.8	498.1	608.2	341.6	383.5	NA	NA		NA
22109	349.6	499.2	703.2	570	646.4	NA	NA		NA
22114	550.8	130.5	147	288.4	292.8	NA	NA		NA
22116	390	NA	NA	277.1	405.4	NA	NA		NA
22118	237.3	NA	NA	368.8	388.4	NA	NA		NA
22119	658.4	180	351.4	47.9	93.3	NA	NA		NA
22120	607	196.1	291.8	NA	118.8	NA	NA		NA
22126	NA	286.4	547.7	509.3	564.4	NA	NA		NA
22128	43	135.2	127.7	47	64.6	NA	NA	B1	43.4
22132	1654.8	1313.2	644.7	304.4	451.3	NA	NA		NA
22133	816	237	583.6	328.6	387.6	NA	NA	B2	445
22134	732	157.1	268.6	568.8	629.2	NA	NA		NA
22135	9809.4	377.5	765.5	343.7	398.9	NA	NA		NA
22136	6285.2	254.2	481.9	219.1	656.7	NA	NA		NA
22138	623.2	102.3	328	212	140.5	NA	NA		NA
22139	652.4	503.6	424.8	402.4	NA	NA	NA		NA
22141	505.4	292.5	370.2	471.2	232.4	NA	NA		NA
22146	2865.9	731.4	583.3	NA	1035.7	1792.1	NA	B2	990
22151	256.6	269.5	817.3	360.5	397.4	578.8	NA		NA
22152	283.8	605.6	141.4	206	223	NA	NA		NA
22158	403	969.6	2009.6	968.8	462.8	NA	NA		NA
22161	378.6	437.1	424.2	611.6	378.4	NA	NA		775
22162	213.4	197.3	184.6	274	623.2	NA	NA		NA
22166	NA	162.2	120.2	NA	NA	NA	NA		NA
22167	31.7	67.3	130.3	32.2	210	NA	NA	B1	78.7
22170	504.3	255.3	225	257.1	430.3	NA	NA		1020

Appendix A
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Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
22173	561.5	320.6	261.2	423.8	505.2	NA	323.2		NA
22174	269.6	34.2	113.7	257.2	NA	NA	NA		NA
22175	1349.6	270.2	321.2	278	225.8	NA	NA	F2	332
22178	811.3	NA	840	576.3	1070.6	NA	NA		NA
22179	1349.6	306.4	270.6	543.2	NA	NA	NA		NA
22186	657.5	181.9	282.4	486.5	263.1	NA	NA		NA
22187	200.3	523.2	1809.6	212.6	219.2	NA	NA	F2	3930
22188	1603.2	1611.9	694.7	130.1	369.9	NA	NA	B1	161
22190	1035.6	261	232.2	220.8	1005	NA	NA		NA
22191	922.4	240.8	349	682	244	NA	NA		NA
22192	1723.9	580.3	495.2	352	208.8	NA	NA		NA
22201	NA	150.9	167.1	NA	195.5	NA	116.1		NA
22205	743.5	257.8	407.8	250.4	1177.3	NA	NA		NA
22206	105.7	76.4	NA	917.7	NA	NA	NA		NA
22210	352.6	191.2	787.2	195.7	216.6	NA	NA		NA
22213	367	145.1	127.6	NA	NA	NA	NA	F2	168
22215	691.8	436.6	464.7	222.4	NA	NA	NA		NA
22217	531.2	167.4	253	157.1	165.1	NA	NA		NA
22226	626.8	269.6	437.4	227.8	147.1	NA	253.7		NA
22232	210.5	NA	129.1	NA	59.3	NA	NA		NA
22233	2306.2	165.9	119.2	165.1	266.8	NA	NA		NA
22234	883.5	NA	NA	149	244.8	NA	NA		NA
22238	1131.6	220.2	215.3	199	314.7	432.6	NA		NA
22243	1195.6	247.2	342.2	246.9	NA	NA	NA		NA
22246	279.8	91.9	68.2	191.4	725.8	NA	NA		338
22247	1107.3	303.9	142.3	355.3	507.1	NA	NA		NA
22260	4503.1	1109.4	335.8	331.2	278.6	NA	NA		NA
22264	1257.3	344.8	357.5	1313	541.7	NA	NA		NA
22267	1309.6	445.6	1549.6	496.4	402.8	1889.6	NA		NA
22275	771.5	200.7	325.6	443.9	315.9	NA	NA		NA
22276	3594.9	553.4	589.7	288.7	180.5	NA	NA		NA
22277	181	319.9	NA	55.9	NA	NA	NA		NA
22280	2754.4	129.8	NA	589	405.5	NA	NA	F1	245
22289	500.7	1353.9	536.5	NA	NA	NA	NA		NA
22290	813.7	393.4	452.4	196.7	200.5	NA	NA		NA
22291	1737.8	348.1	823.9	401.2	73.4	NA	NA	B2	93.4
22293	759.6	542.5	352.6	380	168.5	NA	NA		NA
22296	1836.7	2055.6	1769.8	1158.2	1063.9	NA	NA		2210
22297	1409.6	945.6	317.2	342.6	559.2	NA	NA		NA
22306	NA	686.9	NA	221.5	NA	181.6	NA		NA
22318	3619.2	233.8	314.6	206.2	191.8	NA	NA		NA
22319	2789.7	1458.6	805.5	518.8	837.5	NA	NA		NA
22325	336	165.8	582.8	NA	NA	NA	NA		NA
22331	3252	359.2	171.9	756.7	796.3	NA	NA		NA
22332	1520	409.6	232	29.3	96.3	222.6	135.6	F1	492
22334	298	175.9	229.1	157.5	138.2	NA	NA		NA
22338	14410.5	259.3	180	360.7	3717.3	511.3	NA		21800
22339	1872	352.9	266.6	101	92.2	NA	NA		NA
22342	3108.8	481.6	ND	626	363.4	NA	NA	B2	446

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Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
22345	1731.3	360.4	164.4	375.8	480.4	NA	NA		NA
22347	341.6	937.6	205.1	271.8	246.7	NA	NA		NA
22349	177.5	90.7	67	284.2	445.6	NA	NA	B1	294
22350	NA	75.4	NA	NA	NA	NA	NA		NA
22352	226.4	112.3	173	243.1	164.7	NA	NA		NA
22355	2847	413.9	697.6	2837.3	3031.7	NA	NA		NA
22359	700.9	409.8	290.8	314.5	793.1	NA	NA		NA
22361	NA	NA	ND	190.1	393.9	NA	NA		NA
22365	285.5	260.6	109.1	128.3	166.4	108	NA		NA
22366	576.1	124.2	166.9	395.9	800.6	NA	NA		NA
22367	NA	35	NA	107.3	77.9	NA	NA	B2	109
22368	2440.9	446	173.1	NA	1585.8	NA	NA		NA
22369	177.7	545.6	464.8	328.2	283	NA	NA	B2	453
22370	188	NA	NA	142.3	184.3	NA	NA		NA
22372	590.2	185.5	346.2	227.7	594.5	NA	NA		606
22373	NA	NA	36.7	74.7	76.6	NA	NA		NA
22374	2019.2	327.5	433.3	250.4	316.7	467	NA		NA
22376	1156.3	1993.9	1725.2	NA	60.7	NA	NA		NA
22378	910.5	274	197.3	329.2	185.4	NA	NA		NA
22382	NA	45.3	32.4	37.2	64.2	NA	NA		NA
22383	206.3	142.5	62.7	174	167.3	NA	NA		NA
22385	626.9	139.2	187.2	430.7	NA	NA	NA	B2	623
22390	502.5	186.9	190.2	265.6	387.1	NA	NA		NA
22391	828.7	252.5	404.3	351.5	321.4	NA	NA	F1	303
22392	1351.9	516.1	817.4	1362.2	2020.4	NA	NA		NA
22396	2259.2	316.2	464.8	285.2	289.6	NA	NA	F1	300
22398	2593.5	404.3	358	368.4	135	303.4	NA		NA
22400	372.1	183.4	518.8	302.8	198.3	NA	NA	B1	353
22401	2071.8	146.4	295	454.8	611.1	NA	NA		NA
22404	1070.1	NA	NA	312.5	780	NA	NA		NA
22407	589.1	202.8	256.3	NA	373.1	NA	NA		NA
22410	744	479.6	279	60.4	45.8	NA	NA		NA
22411	2083.3	2716.8	3986.8	182.5	397.8	NA	NA		NA
22414	1648.4	636	450.9	374.5	240.3	271	NA	Garden	274
22415	10300.5	476	292	399	955.8	NA	NA		NA
22416	677.2	546	573.2	405.6	298.2	NA	NA		NA
22419	1316.2	1612.5	1450	745	812.5	1495.7	NA		NA
22425	365.7	64.6	46.9	325.1	79.8	NA	NA		NA
22430	376.2	293.2	603.2	674.2	NA	NA	NA		NA
22440	562.4	991.3	378.1	322.5	555.9	NA	NA		NA
22441	173.9	145.3	158.4	294.2	NA	NA	NA		157
22443	222.9	168.7	91.4	207.2	125.4	NA	NA	F2	102
22454	623.4	358.2	241.8	276.7	456	NA	996.9		NA
22458	930.4	201.9	203.2	265.8	200.9	NA	73.4		NA
22461	1221.2	313.9	176.7	1201.5	75.5	NA	NA	F2	189
22463	853.6	464	435.8	NA	522.4	NA	NA		NA
22464	2028.3	618.2	974	458.8	928.8	NA	NA		NA
22465	53.1	90.3	44.7	64.8	45	NA	NA		NA
22466	248.4	180	165.6	88.9	161.5	NA	NA		NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
22467	169.4	187.9	221.9	82.5	102.7	NA	NA		NA
22471	480.4	186.9	248.8	302.8	846.4	NA	NA		NA
22473	2030.3	751.5	1281.4	442.7	664	NA	NA		NA
22474	314.4	111.9	164.2	150	219	NA	NA		NA
22480	3354.4	261.1	421.5	319.3	352.7	NA	NA	B1	545
22483	513.1	444	310.3	238.4	476.3	83.8	NA		NA
22486	102.6	39.1	ND	NA	NA	NA	NA		NA
22488	233.6	133.8	195.8	318.9	255.7	NA	NA		NA
22490	128.2	80.2	166	225.9	97.8	112.6	NA		NA
22491	853.6	285.4	306.6	660.4	375.8	NA	NA		NA
22496	248.2	424.4	194.9	178.2	175.6	NA	NA		NA
22500	227.8	186.1	77.1	800.6	78.3	NA	NA	B1	925
22501	923.3	52.7	101.5	290.3	NA	NA	NA	B1	295
22503	133.3	74.5	120.5	359.2	161.2	NA	NA	B2	202
22505	830.6	129.5	242.7	124.1	170.9	NA	NA	F1	181
22506	180.1	144.3	157.5	114.5	407.4	NA	NA		459
22510	143.9	196.1	121.9	NA	526	NA	NA	F2	151
22515	70.3	149.8	108.2	142.9	168.6	NA	NA		NA
22521	1020	192	197.1	139.9	173.8	NA	NA	B2	156
22524	179	193.2	186.5	232.7	399.9	NA	NA		NA
22528	443.2	130.9	202.3	194.3	66.8	92.2	NA		NA
22529	1309.6	770.8	289.8	664.8	817.2	104.5	NA		NA
22530	546	241.8	354.5	196.9	358.6	NA	NA		NA
22531	32.7	27.5	83.5	88.3	81.4	NA	NA	B2	68.7
22532	314.4	200.6	170.6	234	445.6	NA	NA		391
22536	593.6	145.4	117.7	358.4	329.4	NA	NA		NA
22537	1276.3	460.1	292.8	163.2	631.5	NA	NA		NA
22538	688.8	165.6	99.2	1040	542.8	NA	NA	B2	965
22540	654	271.8	340.8	234.6	490.8	NA	NA		NA
22545	1039.6	157.9	221.2	314.2	364.3	NA	NA		NA
22547	252.6	492.6	246.5	281.5	332.3	NA	NA		NA
22550	247.3	34.7	75	274.8	76.3	NA	NA	B2	85.8
22551	219.6	228	698.8	162.4	1629.6	NA	NA		NA
22553	337.6	185.6	177.6	181.4	243.4	32.5	NA		NA
22554	7416.7	598.7	899.1	674.1	1259.5	NA	NA		NA
22559	220.4	154.4	95.2	175.7	167.4	NA	NA	B1	204
22560	740.5	210.8	450.9	178.7	348.4	NA	NA		NA
22564	91.5	90.1	88.8	156.5	119.5	NA	NA		NA
22566	274.4	202.5	85.6	125.4	126.5	NA	NA		NA
22568	171.2	145.4	157.5	251.5	230.4	NA	NA		NA
22569	2821	955.4	180.3	538.6	1233.4	156	NA		NA
22584	526.5	211.3	270.9	332.7	1200	NA	NA		NA
22587	226.8	178.5	196.2	322.8	316.6	NA	NA		NA
22602	1043.5	209.4	187.9	491.7	1022.4	NA	NA		NA
22603	2732.4	1098.5	1029.1	817.2	539.1	NA	NA		NA
22607	1503.3	927.4	620.5	362.2	1226.6	NA	NA		1960
22610	359.1	196.7	300.6	NA	362.4	NA	NA		NA
22613	3707.2	521.2	1055.8	431.8	251.4	NA	NA		NA
22621	66.2	109.6	95	201.5	166.5	NA	NA		NA

Appendix A
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Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
22623	3738.6	366.7	246.4	405.2	460	NA	NA		NA
22630	4979.2	1329.6	16499.2	999.2	4377.6	NA	NA		NA
22643	3444.2	745.5	1096.3	495.5	388.8	NA	NA		NA
22650	221.7	274.4	174.9	65.2	93	NA	NA		NA
22655	2300	211.1	340.8	621.5	234	NA	NA		NA
22658	175.3	105.9	187.3	421.7	104.5	NA	NA		NA
22660	676.4	178.7	181.6	114.3	99.1	NA	NA		NA
22661	NA	NA	116.7	44.5	108.9	NA	NA		NA
22662	151.7	231	152.7	386.3	141.7	NA	NA		NA
22665	22.2	288.8	216.5	136.5	177.7	NA	NA		NA
22672	102.7	48.3	58.5	59.7	NA	NA	NA		NA
22675	72.5	NA	NA	73.7	69.2	NA	NA		NA
22680	1317.5	1616.3	798.7	1074.1	1209.1	NA	NA		NA
22684	161	105.2	109.4	84.3	333.5	NA	NA		NA
22685	106.5	150.2	91	83.8	43.5	NA	NA	B2	87.5
22687	56.9	114.9	67.4	129.1	122.5	185.1	63.4		NA
22689	1067.7	407.3	536.7	174	1045.6	NA	1942	F1	526
22691	NA	NA	NA	85.3	66.7	NA	NA	B2	95.8
22692	77.4	125.4	72.3	NA	NA	NA	NA		NA
22693	837.8	140.6	122.2	237.4	183.5	NA	NA		NA
22697	179.2	246.7	882.1	97.8	323.4	NA	NA		NA
22717	187.8	423.6	120.9	228.6	177	59.6	NA		NA
22719	NA	56.7	23.1	NA	66	NA	NA		NA
22720	NA	NA	NA	130.8	215.4	NA	NA		NA
22721	NA	NA	NA	76.4	66.5	NA	NA		NA
22725	ND	162.5	NA	91.6	NA	NA	85		NA
22729	1369.6	532.4	713.6	959.2	298.4	NA	NA		NA
22734	1120	369	692.8	844.8	149	NA	NA		NA
22737	150.2	NA	NA	115.7	48.4	NA	NA		NA
22739	NA	NA	NA	174.6	78	NA	NA		NA
22743	482.4	243.8	202.2	580.4	203.3	NA	NA	F2	200
22744	180.4	117.1	182.4	111.7	NA	NA	NA		NA
22751	215.3	238	153.8	NA	207.7	NA	NA		NA
22753	2021.3	1485.3	590.1	252.9	302.6	NA	NA		NA
22755	1057.1	349	512.4	651.6	NA	362.4	NA		NA
22756	45.3	NA	46.9	57.5	58.5	NA	NA	F2	42.5
22757	1213	705.2	555.6	672.4	479.1	NA	NA		NA
22760	1269.6	284	774.8	202.8	149.8	NA	NA		NA
22761	465.2	ND	255	51.2	305.2	NA	NA	B1	270
22764	1041.5	512.9	456.1	200.2	868.7	NA	NA		NA
22768	3612.7	671.9	1573.9	491.3	459	194.4	NA		NA
22770	NA	NA	106	NA	256.1	NA	NA		NA
22774	1100.3	263.6	456.8	377.1	982	NA	NA		NA
22778	751	342.1	282.1	1048.5	321.9	NA	NA		NA
22780	1729.6	760.8	513.6	186.1	NA	NA	NA		NA
22782	903.7	184.4	298.1	279.2	851.9	NA	NA		NA
22784	2023.4	174.5	495.1	800	472.6	NA	NA		NA
22790	3057.5	857.8	263.8	361.8	614.8	NA	NA		NA
22791	848.9	137.1	85.5	296.5	NA	NA	NA		3090

Appendix A
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Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
22793	234	224	154.2	275	269.4	NA	NA		NA
22796	127.9	150.8	197.2	62.2	77.1	NA	NA		NA
22797	285.7	247.4	83.8	45.2	64.6	NA	NA		NA
22802	1388.2	288.3	294.5	768.1	NA	397.9	NA		NA
22804	1966.1	1076.5	1387.1	1647.7	1568.7	NA	NA		NA
22809	205.8	124.3	66.9	294.2	NA	NA	NA	F1	134
22812	2148.8	1809.6	598.4	190.1	276.2	NA	NA		NA
22814	91.3	113.3	75.7	NA	NA	NA	NA		NA
22821	820.8	535.6	1049.6	192.3	474.4	NA	NA		NA
22824	634.4	389.4	430.8	220.6	NA	NA	NA		NA
22839	68.4	55.4	136.2	175.5	124.5	NA	NA		NA
22843	301.8	61.6	54.7	244.3	328.4	NA	NA		NA
22845	1428.8	319.5	303	143.8	333.5	NA	NA		NA
22854	562.4	294	164.6	NA	175.4	NA	NA		NA
22861	496.2	NA	NA	181.8	350.1	NA	NA		NA
22867	286.6	382.1	401.1	118.5	NA	NA	NA	F1	462
22870	690	113.8	46.2	223	145	NA	NA		NA
22878	163.5	255.5	178.8	102.7	NA	NA	NA		NA
22880	588.2	344.1	635.6	458.1	571.7	NA	NA		NA
22881	NA	377.2	289.4	154	NA	NA	NA		NA
22886	904.4	304.1	415.9	223.2	1564.1	NA	NA		NA
22891	1963.4	NA	1418.9	1057	895	NA	NA	B1	1100
22895	746.8	232.7	251.5	NA	NA	NA	NA		NA
22896	1969.6	512	1369.6	875.2	1840	NA	NA		NA
22897	NA	2516.2	1742.6	3226.4	4021.4	NA	NA	F1	3230
22905	2920	127	508.8	487.6	4307.2	NA	NA		NA
22909	870	806.8	1157.5	274.6	487.5	NA	NA		NA
22910	195.2	340	345.2	138.5	119.3	NA	NA		NA
22914	201.6	159.6	185	NA	NA	NA	NA		NA
22922	679.2	797.8	467.7	1264.3	342.1	NA	NA		NA
22923	1460	1489.6	697.6	NA	2268.8	NA	NA	B2	2790
22924	683	434.5	NA	549.2	961.3	NA	NA		NA
22925	2899.1	1084.8	940.1	NA	1367.3	NA	NA		NA
22934	1208	1001.9	925.6	NA	393.8	NA	NA		NA
22938	24.8	ND	40.6	NA	NA	NA	NA		NA
22958	214.3	99.7	134.4	231.1	140.2	NA	NA		NA
22960	1400	297.8	319.6	NA	836.8	NA	NA		NA
22963	152.7	40.3	145.8	NA	314.9	NA	NA		NA
22964	NA	374.8	431.2	NA	NA	NA	NA		NA
22970	78.8	259.3	89.4	216.5	NA	NA	NA		NA
22977	203.5	146.4	126.9	120.3	42.2	NA	NA		NA
22979	1788.8	499.7	458.3	505.9	783.8	NA	NA		NA
22995	661.5	156.8	241.7	212.6	355.5	NA	NA		NA
22998	1272.7	381	NA	1136.6	NA	NA	NA		NA
22999	1898.5	526.9	549.2	345.1	233.3	NA	NA		NA
23002	936.2	134	156.5	98.3	527.6	NA	NA	B1	45.5
23006	1375.4	1104.5	537.3	514.1	NA	NA	NA		2130
23007	1289.2	539.1	NA	188.3	526	NA	NA		NA
23010	1469.7	377.3	237.8	173.3	285.3	NA	NA		NA

Appendix A
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Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
23019	2619.2	968	495.2	418.8	NA	NA	NA		NA
23025	1529.6	624.4	162	568.4	420.8	NA	NA		NA
23038	514.4	364.6	233.6	391.4	2259.2	NA	NA		NA
23044	1251.6	212.3	357	418.7	227.7	NA	NA		NA
23045	1089.6	648	356.6	NA	NA	NA	NA		NA
23056	NA	85.8	NA	216	213.8	NA	NA		NA
23059	1155.6	NA	NA	428.1	264.4	NA	NA		NA
23061	635.6	147.5	365.4	NA	NA	NA	NA		NA
23071	562	1016.6	297.5	290.6	257.4	NA	NA		NA
23073	4548.4	270.4	2404.1	385.7	402.7	NA	NA		NA
23074	526.6	147.5	270.9	288.8	185.1	NA	NA		NA
23078	315.2	287	160.7	147.8	143.5	NA	NA		NA
23079	714.3	1603.3	235.8	365.4	387.6	NA	NA		NA
23080	37.7	27.8	36	54.4	85.3	NA	NA		NA
23081	1489.9	475.9	592.7	479.6	212.2	NA	NA		NA
23082	187.5	198.3	349.8	368.1	366.7	NA	NA		NA
23086	281.8	204.2	247.2	240.6	343.4	NA	NA		NA
23088	1440	385.8	782	352.8	NA	NA	NA		NA
23090	132.9	156.7	165.1	68.8	81.5	NA	NA		NA
23091	593.2	336.8	639.6	222.4	591.2	NA	NA		NA
23092	653.6	136	178.3	124	129.8	NA	NA		NA
23097	886.4	407	411.2	212.8	733.2	NA	NA		NA
23103	423.7	91.6	127.8	132.3	196.9	NA	NA		NA
23106	354.2	115.9	260	258.4	154.1	NA	NA	F1	120
23108	42.4	105.3	87.3	37.8	102.6	NA	NA		NA
23109	180.3	111.8	90.3	NA	NA	NA	NA		NA
23111	636.4	459.2	170.8	139.4	85.3	NA	NA		NA
23118	460.4	222.2	484.4	129.7	46.6	NA	NA		NA
23124	113.7	149.1	244.9	119.4	NA	NA	NA		NA
23133	149.2	82.3	113.7	223.5	NA	NA	NA		NA
23135	571.2	111.5	125.7	405.2	131.7	NA	NA		NA
23136	554.8	164	118	114.4	135.5	NA	NA		NA
23138	147	1700	118.7	2099.2	1366.6	NA	159		NA
23140	1849.9	385.9	893.8	702.4	831	NA	NA		NA
23146	267.4	137.9	380.6	NA	NA	NA	NA		NA
23147	41	61.2	56.1	23.2	NA	NA	NA		NA
23154	597.2	307.4	306	119.3	527.6	36.3	264.6		NA
23158	75.8	137.7	32.2	579.7	641.9	NA	NA		NA
23160	885.6	531	421.8	1582.8	305.1	NA	NA		NA
23161	197.8	132.7	202.2	160.3	NA	NA	NA		NA
23163	2359	538	318.2	NA	NA	NA	NA		NA
23165	4661.3	403	269.5	198.5	357.9	NA	NA		NA
23166	820.2	171.9	316.5	63.3	533.3	NA	NA		NA
23168	280.1	118.1	179.7	NA	512.5	NA	NA		NA
23171	49	148.6	115.8	NA	194.8	NA	NA		NA
23172	489.5	248.9	185.3	NA	NA	NA	NA		NA
23175	8638	198.8	129	132.9	294.5	374.6	NA		NA
23181	2506.2	716.5	313.6	1110	203.2	NA	NA	B1	2100
23183	645.5	108.6	136.6	150.1	231.8	NA	NA		NA

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Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
23184	1262.4	126.1	256.6	NA	NA	NA	NA		NA
23185	355.6	1500	1089.6	572.4	402.4	NA	NA		NA
23186	497.7	275.4	379.3	100	267.1	NA	NA	F1	227
23187	143.2	170.3	157.2	472.8	240.8	NA	NA	F2	202
23188	3272.4	1426.7	262.5	204.4	1652.9	NA	NA		NA
23189	1120	875.8	261.2	535.9	606.2	NA	336.4	Play	444
23190	149.4	52.4	89.6	NA	NA	NA	NA		NA
23191	2741.2	1711.2	760.1	424.5	319.2	NA	NA		NA
23197	988.8	1271.9	786.4	316.8	451.9	NA	NA		NA
23198	774	131.8	111.3	NA	568.8	NA	NA	F1	140
23200	55.2	25.4	36.6	38.2	36.1	NA	NA		NA
23202	472.7	604.4	894.3	320.2	200.9	NA	NA		NA
23203	828	532.4	466	388.4	416	NA	NA		1090
23205	307.4	31.5	102.9	317.6	142.6	NA	143.5		NA
23208	ND	171.4	44.7	71.6	82.2	NA	NA	B2	61.3
23212	754	393.4	330.1	506.2	458.1	NA	NA	F2	368
23217	263.7	262.6	328.4	233.5	203.8	NA	137.2		NA
23218	202.8	70.2	246.8	220	337.4	NA	NA		NA
23220	821.6	266.7	368.9	1170.4	226.8	NA	NA		NA
23221	1788.8	248.6	146.4	73	105	NA	NA	B2	33.4
23222	NA	160.7	118.6	NA	NA	NA	NA		NA
23224	680.3	447.1	74.5	180.1	397.9	NA	NA		NA
23226	475.6	453.2	575.6	NA	319.8	NA	NA		NA
23230	68.3	49.7	NA	43.4	38	NA	NA		NA
23231	52	50.2	61.4	36.3	39.4	NA	NA		NA
23233	415.3	281.1	211.2	272.8	284.6	NA	NA		NA
23235	34.6	150.2	68.5	45.8	24.3	NA	NA		NA
23236	453	437	255.6	341.2	303.6	NA	NA		NA
23238	512.1	173.8	NA	287.2	286.5	NA	NA		NA
23243	193.8	194.8	142.6	215.1	146.5	NA	NA		NA
23248	442.5	NA	147.2	142.7	184.8	NA	NA		NA
23253	1679.4	184.7	160.6	231.3	368.6	NA	NA		NA
23254	305.5	145.2	130.9	NA	256	NA	NA	B2	294
23256	959.3	124.2	250.2	204.3	203.7	NA	NA		NA
23262	330.9	294.1	109.7	62.6	94.8	NA	NA		NA
23264	106.1	74.9	70.2	82.7	85	NA	NA	B2	106
23266	88.5	167.8	700.3	48	98.6	NA	NA		NA
23268	450.5	108.7	115	109.8	132.5	NA	NA		NA
23270	264.6	189.3	136.1	48.4	174.9	NA	NA		NA
23275	456	NA	232.6	187.9	130.8	NA	NA		NA
23276	4779.6	291.2	149.2	101.4	95.1	NA	NA		NA
23278	2074.6	464.6	977.4	238.7	1060.5	963.8	NA		NA
23281	1549.6	321	293.8	268.2	304.2	NA	NA		NA
23282	633.1	849.4	313.1	NA	NA	NA	NA		NA
23283	1389.6	126.6	134.4	93.2	109.5	NA	NA		NA
23285	810.7	207.4	196	384.5	474.8	NA	NA		NA
23286	1222.8	180.4	678.8	1690.7	349.1	NA	NA		NA
23288	435.4	296.9	223.2	NA	NA	NA	NA		NA
23289	4255.4	637.6	282	240.7	601.6	NA	NA		NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
23290	3605.2	718.8	301	538.6	868	NA	NA		NA
23294	265	35	403.1	393.7	454.9	NA	NA		NA
23297	207.4	133.7	97.6	64.1	321.8	NA	NA	F2	137
23302	157.8	99.8	88.4	116.2	130.5	NA	NA		NA
23308	84.1	401.8	1147.5	81.1	222	NA	NA		NA
23312	1151.2	160.3	254.3	148.8	234.2	NA	NA		NA
23313	396	358.8	307.6	NA	140.1	NA	NA		NA
23315	850.4	233.4	167	646.5	943.8	NA	NA		NA
23316	2064.1	209	3491.5	NA	329.8	NA	NA		NA
23317	148.2	117.1	54	NA	195.7	NA	NA		NA
23318	1199.9	105.5	1488.6	184.5	228.6	102.2	NA		NA
23325	1881.9	2012.4	1933.2	777.2	1070.1	NA	NA		NA
23330	2855.9	693.9	1168.9	526.9	528.2	NA	NA	B1	1010
23331	553.3	1178.2	83.2	245.2	1516.8	NA	NA		NA
23332	617	190.3	508.6	478.3	NA	NA	NA		NA
23333	534	303.5	652	368.5	549.4	NA	NA		NA
23334	50.7	101.9	201.4	276.8	27.8	NA	NA	B2	43.2
23335	1329.6	478	1200	222.6	613.2	NA	NA		NA
23340	NA	119.3	NA	NA	450.8	266.4	NA		NA
23341	1815	346.4	76.8	142.3	120.9	NA	NA	F1	423
23346	2148.8	192.1	208.8	340.6	359.2	NA	NA		NA
23348	79.2	125.1	118.4	136.9	107.5	NA	NA		NA
23350	517.6	188.5	237.5	247.5	250.1	NA	NA		NA
23351	1280	334.4	115.2	638.8	229.2	NA	NA		NA
23353	997.8	331.1	154.6	329	361.7	NA	NA	F1	463
23354	174.8	94.7	986	130.2	84.2	NA	NA		NA
23356	381.5	109.9	212.5	446.7	521.9	NA	NA		NA
23358	834.4	266.8	287.8	330.4	470.8	NA	NA		NA
23359	121.4	83.1	125.3	97.1	168.8	NA	NA		NA
23360	300.2	208.2	132.3	470	225.4	NA	NA		NA
23361	2817.9	208.2	343.2	172.2	376.3	NA	NA		NA
23362	659.2	204.1	730.3	190	481.2	NA	NA		NA
23363	3987.2	623.2	777.6	NA	278	NA	622.4		NA
23365	496.4	267.6	137.8	357.4	183.5	NA	NA		NA
23371	316.7	236.8	165.3	244.1	293.4	NA	NA		NA
23373	1180	474.4	180.9	321.4	105	106.8	ND		NA
23374	234.4	23.2	153.2	242.9	260.4	NA	NA		NA
23377	539	335.2	391.3	151.7	264.4	NA	NA		NA
23378	1834.9	298.1	211.7	258.3	1023.2	NA	NA	B1	282
23383	1901.7	245.5	496.9	185.2	368.4	579.1	NA		NA
23384	696.8	319.1	320.3	749.1	NA	NA	NA		NA
23385	430.4	147.3	288	224	715.6	NA	NA		NA
23387	1389.6	292.6	247.6	249	550.4	NA	NA		NA
23390	1080	329.2	441.6	581.2	335.2	NA	427.2		NA
23392	1444.8	236.6	832.4	480.3	711.4	NA	NA		993
23393	1480	1240	1629.6	448	179.4	NA	NA		NA
23395	357	144.9	367.8	58.6	105.6	NA	NA		NA
23400	983.4	225.1	310.7	197.8	228.3	NA	NA		NA
23401	NA	599.4	3945	6943.7	2211.5	NA	NA		NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
23403	8790.1	523.7	955.2	1269.2	942.7	NA	NA		NA
23404	440	269	5238.4	240.4	228.4	NA	NA		NA
23406	2068.8	419.6	490.4	211	347.4	NA	NA		NA
23407	443.6	252.8	264.3	408.2	296.3	NA	267.4		542
23408	2571.1	254.9	265.9	349.2	251.6	NA	NA		NA
23412	2578.3	670	435.8	1842.7	385.8	NA	NA		NA
23413	2138.3	1298	1469.7	NA	1239.7	NA	NA		NA
23418	923.1	171	1120.7	1031.8	1215.7	NA	NA	B2	1640
23421	641	213.4	189.2	243.2	101.3	NA	NA		NA
23428	708.8	218.8	152.9	NA	108	NA	NA		NA
23430	582.4	451.1	300.2	91.5	483.5	NA	NA		NA
23436	631	226.6	124.9	84.6	NA	NA	80.3		NA
23437	359.6	131.7	222.1	303.9	304.3	227.2	308.1		NA
23438	1151.4	207.3	214.5	398.5	227.4	NA	NA		NA
23439	157.6	313	167.1	98.6	146.1	NA	NA		NA
23440	1425.9	122.4	165.3	1078.9	109.2	250.9	NA		NA
23443	694.7	95.1	123.7	288.2	184	NA	NA		NA
23448	191.5	380.2	561.2	271.8	689.2	NA	NA		NA
23449	1797.6	457.1	223.6	403.6	641.6	NA	NA		3710
23451	301.8	260.3	256.8	205.3	227.7	NA	NA		NA
23453	301.6	261.8	110.9	126.2	138.7	NA	NA		NA
23458	462.9	475.1	473.7	253.8	218.3	NA	NA		NA
23459	367.8	253	351.9	290.5	697.9	NA	NA		NA
23461	395.2	235.1	124.2	126.4	NA	NA	NA		NA
23462	1004.4	224.8	824.1	245.4	314.1	NA	NA	F1	196
23465	556.7	519	139.4	575.4	346.8	NA	NA		NA
23466	1229.6	316.2	292.8	584.4	1149.6	NA	NA		918
23467	1129.6	1180	414.8	194.6	385.2	284	185.8		NA
23468	914.4	309	227	219.8	232	NA	NA		NA
23469	662.9	304.3	488.1	NA	453.2	NA	NA		NA
23470	548.4	123.4	88.8	163.7	138	NA	NA		NA
23472	2142.5	59.4	145.9	81.8	130.6	NA	NA		NA
23473	204.8	182.2	446.8	381.8	599.2	NA	NA		NA
23476	572.6	866	156	598.1	503.7	NA	NA	B2	684
23477	229.6	115.9	80	378.4	NA	NA	NA		NA
23478	1016.8	391.8	582.2	1882.8	211.3	NA	NA		NA
23479	789.6	314.2	1289.6	NA	NA	NA	NA		NA
23480	481.5	307.2	67.1	119.2	268.2	NA	NA		NA
23485	430.4	146.8	240.8	398.6	326.6	NA	NA		NA
23486	ND	109.2	144.4	109.5	NA	NA	NA		24.7
23487	1030.9	158.6	236.3	52.8	NA	99.4	NA	F1	443
23488	297.4	106.3	254.1	181.2	131.6	NA	NA		NA
23489	797.4	367.3	473.5	310.1	237.7	NA	NA		NA
23491	526.8	257.2	600.4	109.5	454.8	NA	NA		NA
23492	814	328.8	356.6	191.8	466	NA	NA		NA
23493	869.5	350.8	319.6	869.6	572.1	NA	NA		NA
23495	187.8	429.4	333.9	856	406.3	NA	NA		NA
23500	1988.8	336.2	403.2	389.6	523.2	NA	NA	F1	485
23503	303.1	144.1	183.3	183.8	93.6	NA	177.5		NA

Appendix A
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Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
23504	555.3	174.3	186.1	129.5	116.5	NA	190	Play	194
23506	1160.4	183.5	255	94.6	285.7	NA	NA	B2	492
23508	277	166.1	227.4	225.6	352.8	NA	NA		NA
23511	1795.2	399.8	827.5	NA	NA	NA	NA		NA
23513	1249.6	214.4	180.6	156.3	58.1	NA	NA		1380
23515	672.8	84.3	101.6	269.2	155	NA	NA		NA
23516	3658.5	895.3	335.1	155.7	197.2	NA	NA		NA
23517	65	69.4	72.4	248.4	687	NA	NA		NA
23518	903.1	195.3	123.1	323.3	376.9	319.4	NA	B1	472
23519	1114.1	206	104.7	424.7	170.3	NA	NA	F1	255
23520	923.9	1249.4	323.1	225.8	224.6	NA	NA		NA
23523	563.2	77	119.4	153.8	209.6	NA	NA		NA
23524	196.1	160.9	NA	178	167.9	NA	NA		NA
23525	841.2	116.8	68.8	87.5	133.5	NA	NA		NA
23527	3676.2	390.7	459	679.4	508.9	NA	NA	B2	432
23528	622.4	58.9	367.6	22	88.5	NA	NA		NA
23530	278.6	223.2	240.2	290.2	138.4	NA	NA		NA
23531	642.8	182.5	129.1	165.6	421.2	NA	NA		NA
23533	300.8	115	42.6	63.4	122.1	NA	NA		NA
23534	375	220.8	229.2	123.4	NA	NA	NA		NA
23536	467.4	473.1	194.2	236.4	200.2	NA	NA	B1	308
23544	344.4	150.8	253.2	45.7	104.1	NA	NA		NA
23545	127	117.7	120	88.5	76.8	49.2	ND		NA
23548	1403.7	1330.8	269.8	530.1	NA	NA	NA		NA
23551	1192	963	295.6	893.5	2394.3	NA	NA		NA
23554	574.9	218.9	94.9	142.4	246.4	NA	NA		NA
23555	191.3	239.2	243.2	839.2	268.4	NA	NA		NA
23557	532	336.2	450.4	151.9	782.1	505.6	NA		493
23558	258.9	105.7	161.5	71.3	118.9	NA	NA		NA
23560	1680.1	254.9	223.4	207.7	739.6	NA	NA		NA
23564	283.2	111.9	109.2	667.2	947.2	NA	NA		NA
23565	528.8	200.5	491.2	369.2	394.4	367.6	103.4	B1	404
23568	910.1	406.4	670	356.6	780.2	NA	NA		NA
23569	223	43.9	63.3	48.4	891.2	NA	NA		NA
23575	1592.8	103.9	163.3	226.5	NA	NA	NA		NA
23578	1589.6	160.5	94.4	405	297	NA	NA		NA
23579	1121.7	361.9	997.1	1879.2	550.7	NA	NA		NA
23582	262	239	136.8	185.8	207.8	NA	NA		NA
23588	685.2	413.2	134.5	215.2	NA	NA	NA		NA
23589	725	174.8	177.9	1022.3	685.8	NA	NA		NA
23595	265.4	88	101.7	92.6	79.5	NA	NA		NA
23596	1610	135.2	358.9	303.4	480.5	244.3	NA		NA
23599	593.3	605.7	1330.6	211.8	118.2	NA	NA		NA
23602	631.6	157.2	110.7	82.1	82.8	NA	NA		NA
23603	1064.6	189.6	316.9	434.9	255.8	NA	NA		NA
23605	525.9	212.6	585.5	163.1	351	NA	NA		NA
23607	601.2	43.4	626.6	51.1	52.5	NA	38.7		NA
23608	818.4	80.4	77.9	297	203.8	NA	NA		NA
23609	62.1	142.2	226.2	53.2	237.5	NA	NA		NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
23610	214.8	89.4	79.2	188.4	106.9	NA	NA		NA
23613	38.3	304	297.8	91	250.6	NA	NA		NA
23618	1800	170.6	132.6	194.1	289.8	NA	NA		NA
23619	493.6	158.3	248.2	184.8	187.1	NA	NA		NA
23622	1706.7	193.6	1396.1	633.9	659.6	NA	NA		NA
23625	48.9	109.2	191.5	123.6	133.9	NA	NA		NA
23629	579.4	261.9	201	120.5	278.7	NA	NA		NA
23631	269.1	210.4	188.7	180.2	283.1	NA	NA		NA
23635	540.4	95.9	139.2	141.3	466.4	NA	NA		NA
23636	586.9	300.5	252.1	251.4	234.2	NA	NA		NA
23639	24.9	59.8	312.4	169.3	545.2	NA	NA		NA
23640	515.2	108.9	543.2	128.2	241.8	NA	NA		NA
23641	915.3	299.5	143	87.9	96.2	NA	NA		NA
23642	540.6	414.4	195.8	111.4	594.1	NA	NA		NA
23644	89.3	66.9	46	NA	NA	NA	NA		NA
23645	875.5	557.3	486.3	248.5	578.2	NA	NA		NA
23647	1266.2	182.5	176.6	322.9	474.6	NA	NA		1850
23648	7666.2	2196.7	2691.1	4798.2	1513.2	NA	NA	B2	2220
23649	2390.9	762.4	844.4	395.1	194.4	NA	278.4	B1	488
23652	3255.8	558.5	405.1	183.9	NA	NA	NA		NA
23653	1312.1	111.9	395.2	266.2	605.1	NA	218		NA
23654	6786	229.8	425.1	135.9	NA	NA	NA	F2	765
23655	2699.2	276.8	2499.2	730.8	301.8	NA	NA		NA
23657	166.2	251	165.2	158.8	250	NA	NA		NA
23664	385.6	274	220.4	143.3	717.2	NA	NA		NA
23665	1555.4	1325.3	878.5	642.6	231.7	NA	NA		NA
23666	512	302.4	354.4	236.6	312	NA	NA		NA
23667	220	633.2	969.6	168.2	179.7	NA	NA		NA
23668	576.6	352.8	622.1	336.3	269.4	NA	NA		NA
23670	917.6	485.2	202.7	247.2	329.2	NA	NA	F2	197
23671	3750.3	1551	1378.4	6495.8	1811.9	NA	NA		NA
23672	442.8	197.7	315.8	651.6	181.5	NA	NA		NA
23674	432.3	146.4	291.4	207.2	173.2	NA	NA		NA
23677	414.1	112.7	95.1	132.6	801	NA	NA		NA
23680	6827.6	1830.7	1878.1	NA	1321.4	NA	NA		NA
23681	498	227.8	243.6	366.4	185.7	NA	NA		NA
23684	ND	305.6	41.5	127.1	873.3	NA	NA		NA
23686	312.4	180.6	44.2	433.5	116	NA	NA		NA
23689	597.6	464.8	1100	NA	NA	NA	NA		NA
23690	1419.8	276.8	364.7	136.2	137.3	219.2	NA		NA
23691	NA	100	NA	82.3	NA	49.6	NA		NA
23693	465.6	337	156.5	276	1338.7	NA	NA		NA
23694	36	63.1	229.2	29	125.7	NA	NA	F1	86.3
23695	222.9	132	174.1	NA	NA	NA	NA		NA
23697	916	436.4	311.4	525.2	564.4	NA	NA		NA
23698	230.8	555.1	109.7	185.4	442.8	NA	NA	B1	258
23701	607.6	374.2	NA	162.5	456.4	NA	262.6		NA
23702	328.6	110	124	187.5	158.2	NA	NA		NA
23707	310.9	102.1	83.7	133.4	143.8	NA	182.8		NA

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Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
23710	648	96.1	132	130.6	171.4	75.8	NA		NA
23711	721.8	198.1	589.6	127	311.7	NA	NA		NA
23714	251.8	461.9	172.8	188	186.7	NA	NA	F1	858
23716	1084.8	163	142.4	176.5	227.8	NA	NA		NA
23717	242.1	298.7	77.8	288.8	80.9	66.4	NA	F1	381
23718	112.6	98.5	81	99.8	105.2	NA	NA		NA
23719	279.9	253.9	214.6	205.1	128.2	838.5	NA		NA
23723	330	76.3	84.1	118.3	131.3	NA	NA		NA
23725	563.5	68	196.1	103	196.2	NA	NA		NA
23726	530.4	343.4	161.7	170.3	181.5	NA	180.8		NA
23727	1302.9	196.6	178.2	275.6	262.6	NA	229		NA
23732	275.2	1629.6	123.5	162.8	159.8	NA	NA		NA
23734	426.4	518.8	535.6	203.6	256.8	NA	NA		NA
23735	485.8	197.6	204.1	329.8	684.9	NA	NA		NA
23737	478.4	673.9	746.1	314	365.7	NA	NA		NA
23738	324	60.4	92.7	118.7	99.7	161.7	NA	B1	165
23739	1433	214	216.4	266.9	272.8	NA	NA		NA
23741	357.7	262.2	143.3	157.6	254.9	NA	NA		NA
23744	195.5	108.8	80	1022	81	NA	NA	F1	150
23746	241.4	70.5	46.3	167.4	350.6	NA	NA		NA
23750	536.4	804.3	190.9	221.3	554.1	NA	NA		NA
23752	871	320.4	322.5	191.3	243.4	172.6	NA		NA
23753	1166.5	201.6	112.4	356.3	290.2	NA	NA		NA
23754	316	155.5	152.6	110.1	236.8	142.8	NA	B1	122
23758	1720	159.2	294	237.8	175.5	NA	NA		NA
23760	169.5	109.6	155.2	513.2	519.2	271.4	NA		NA
23761	2545.7	390.5	527.2	349	313.1	NA	NA		NA
23764	151.7	203.2	81	149.1	156.3	NA	201.5		NA
23765	149.5	135.5	128	233	152.6	NA	NA		NA
23770	300.7	171.7	118.3	1079.9	533.2	337.1	NA	F1	252
23772	456.4	418.4	1229.6	173.6	194.5	NA	NA		NA
23773	926.7	153.1	170.9	382.3	151.7	NA	NA		NA
23774	9593.1	352.9	759.9	705.9	819.2	NA	NA		NA
23775	786.8	246.4	439.2	195.6	329.2	NA	NA		896
23776	2172	84.9	306.7	783.7	1048.7	NA	NA		NA
23779	970.3	103.7	116.6	283.7	133.3	NA	NA		NA
23780	1609.5	208.8	272.5	230.5	203.2	NA	NA		NA
23782	1213.9	268.6	303.4	414.1	2926.2	NA	NA		NA
23783	3148.8	615.6	267.8	455.2	300.4	NA	NA		NA
23789	303.4	177.3	213.5	302	130.5	NA	NA		NA
23791	761	146.5	280.7	NA	243.4	NA	NA		735
23794	51.4	83.2	92.4	53.1	322.2	NA	NA		NA
23795	640.3	142	NA	227.8	1394.6	NA	NA		NA
23799	8724.4	574.6	238.3	96	906.8	NA	NA	B2	928
23800	121	208.4	178.5	257.8	69.8	NA	NA		NA
23801	62.8	101.8	143.4	271.2	1040	NA	NA		NA
23803	828.8	133.7	110	60.7	154	NA	ND		NA
23806	1300	574	116.3	499.2	125.9	NA	NA		NA
23808	1210.5	246.6	232.3	255.7	223.5	NA	NA		894

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
23809	601.2	166.6	362.9	238.4	370.2	NA	NA		NA
23812	3488	824	323	NA	NA	NA	NA		NA
23816	73.7	NA	77.9	93.3	150.6	NA	79.5		NA
23818	380.2	135.9	273	258.2	123.8	NA	NA		NA
23819	1383.7	115.2	167.1	363.4	NA	NA	NA		NA
23820	334.6	285	249.4	NA	834.4	NA	NA		NA
23821	149.1	48.2	127.7	34.8	49.2	NA	NA		NA
23823	198.4	152.6	150.6	42.8	48.1	NA	NA		NA
23825	460.2	189.6	171.7	176.6	1451	188.1	NA		NA
23826	335.5	116.7	120.7	193.1	112.4	NA	NA	B1	245
23827	428	195	152.1	126.6	112.3	NA	NA		NA
23830	149.2	30.3	38.6	82.5	99.1	NA	NA		NA
23831	59.8	110.5	158.1	208	97.9	NA	NA		NA
23832	783.6	162.5	414.6	262.7	172.3	NA	NA		NA
23846	335.2	169.4	297.6	204.4	89.1	NA	NA	F2	261
23848	992.4	263.5	1001.2	195.8	249	751.5	NA		NA
23851	754.4	197.3	488.3	183.7	257	NA	NA		NA
23854	1811.7	234.9	88.6	594.6	758.9	NA	NA		NA
23856	919.2	285	139.5	527.2	1109.6	NA	NA		NA
23857	587.4	384.6	275.8	884.1	847	NA	367.4		NA
23858	486.8	355.7	161.5	277.6	325.6	149.1	NA		NA
23859	597.4	65.9	164	NA	393.5	282.4	NA		NA
23860	752.8	707.6	205.2	1149.6	585.6	NA	NA		NA
23861	637.8	146	206.3	219.4	283	304	NA		NA
23862	658	277.8	169.8	192	149.9	NA	NA		NA
23864	1754.4	420.7	485.4	NA	253.2	NA	NA		NA
23868	2099.2	306.4	NA	86.2	79.6	NA	NA		NA
23870	2784.7	780.4	575.4	615.5	587.8	NA	NA		NA
23876	1075.5	415.3	340.6	901.6	633	NA	NA		NA
23877	450.9	215.2	246.7	180.5	225.4	NA	NA		NA
23878	1938.8	261.6	79.7	398.4	184.9	NA	NA		NA
23882	1957.4	310.3	NA	527.6	545.7	NA	NA		NA
23883	271.6	154	81.7	102.9	144.5	NA	106.7		NA
23885	2800	1160	848.8	602	287.6	NA	NA	B1	757
23886	344.8	182.6	169	NA	335.6	NA	NA		NA
23887	1580	1320	446.4	1400	574.8	NA	NA		NA
23888	1040	128.9	123.7	NA	187.4	NA	NA		NA
23898	564.4	287.2	372.2	369.6	292.2	NA	NA		478
23901	314.6	168.6	193.5	102.6	99.5	NA	NA		NA
23906	335.7	NA	402.9	107.4	557.6	NA	NA	B1	268
23907	1119	322	558.5	258.3	264.7	NA	NA		NA
23908	766.7	175.4	187.3	228.8	152.1	NA	NA		NA
23910	102.9	115.4	76.5	96.4	66.1	NA	NA		NA
23911	461.1	185.9	337.6	239.1	NA	NA	NA		NA
23915	173.8	187.1	133.4	163.5	77.2	NA	NA	B2	91.9
23916	456.7	161.3	184.2	206.8	134.6	NA	NA		NA
23917	137.5	159.6	233.5	157	218.2	NA	NA		NA
23919	437.1	222.5	226.4	332.2	205.6	NA	NA		NA
23925	106.1	82.8	174.2	107.2	191.5	149.3	NA		NA

Appendix A
Table A-2
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Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
23926	1993.6	257.5	299.8	511.6	139.8	NA	NA		NA
23927	835	261.4	315.2	789.9	82.6	NA	NA		1430
23928	4019.6	240.7	155.9	161.8	186	NA	NA		8260
23929	476	366.2	374.1	504.4	509.8	NA	NA		NA
23932	237.3	107.1	92.2	158.8	141.3	NA	NA		NA
23934	1540	126	159.6	156.1	223.8	NA	NA		NA
23935	560.4	121.4	100.6	92.9	ND	NA	NA		NA
23936	280.6	292.2	106.8	214.8	255.4	NA	NA		NA
23937	219.6	571.2	387	580.8	235.8	NA	NA		469
23938	313	623.2	500.8	181.9	382.2	NA	NA		NA
23940	775.2	227.8	132.6	281	139.4	153.3	NA		NA
23942	1953	230.4	152.1	144	181.4	NA	NA		NA
23944	364.7	364.8	212.1	263.7	491.4	NA	NA		NA
23945	1089.6	267.8	325.2	1200	712.8	NA	NA		NA
23946	2958.8	332.1	354	399	368.7	NA	NA		NA
23947	610.8	218.8	278.8	476.8	636	NA	NA		NA
23952	437.4	196.8	490.1	262.7	190.7	NA	188.9		NA
23954	884.8	645.7	261	240.4	262.1	NA	NA		NA
23958	1195.1	950.2	856.8	378.8	217.9	NA	NA		NA
23959	954.7	167.9	622.4	205	320.1	NA	NA		NA
23960	1275.7	NA	501.7	167.8	220.1	NA	NA	B1	202
23964	2782.3	310.2	384.9	197.8	359.2	NA	NA		4040
23965	1095	197	116.2	293.8	359.6	NA	136.9		NA
23969	1409.6	494	500.4	725.2	785.2	NA	NA		NA
23970	1073	395.1	751.8	181	NA	NA	NA		NA
23971	407.4	173.5	159.1	161.5	84.6	121.2	NA		NA
23972	1665.9	128.6	114.8	442.1	413.2	NA	NA		NA
23973	1049.6	338.4	188.9	488	NA	425.2	NA	F1	343
23976	5998.7	348	559.5	1185.7	1230.5	NA	NA		NA
23978	308.6	262.5	218	54.6	171.4	NA	NA		NA
23979	317	144.5	121.8	196.6	44.4	NA	NA		NA
23980	149.9	705.2	310.2	132.2	161.6	NA	NA		NA
23981	557.2	111.7	39.8	407.8	526.8	NA	NA	B1	677
23982	745.8	127.9	118.6	119.4	237.9	NA	NA	B1	140
23987	69	123.5	190.6	287.8	68.1	238.3	48.4		NA
23988	465.3	174.8	126.5	78.6	210.9	NA	NA		409
23992	824.3	205.4	171.1	251.3	NA	NA	NA		NA
23993	1847.3	155	201.1	1666.3	536	NA	NA		NA
23994	293	95.9	153.7	115.1	227	NA	139.1	F1	107
23996	1172.2	92	126.8	160.3	301	269.1	NA		NA
23998	3035.5	866.4	715.3	1511.3	1630.5	NA	NA		NA
23999	NA	NA	NA	391.6	361.4	NA	NA		NA
24002	644.9	96.4	113.3	160.5	283.6	NA	NA	F1	93.2
24004	105.8	34.3	95.4	147.8	195.7	NA	NA		NA
24008	257	390.2	780.4	223.2	134.1	NA	NA	B2	184
24011	685.4	133.6	461.2	NA	57.2	NA	NA	F2	180
24014	3191.9	367	NA	380	665.2	161.1	NA		NA
24016	410.4	109.2	143.6	234.7	119.7	NA	NA		NA
24018	412.4	270.6	163.1	262.4	141.6	NA	NA	F2	207

Appendix A
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Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
24021	1069.6	396.6	832	422.4	1129.6	638.4	NA		NA
24022	1849.6	441.2	422.4	690	274	NA	233.4		NA
24024	3594.4	968.3	486.4	363.1	416	NA	NA		4950
24031	NA	71.1	27.3	31.7	52.4	NA	NA		NA
24033	1837.8	175.2	211.5	299.4	455.9	NA	NA		NA
24035	294.6	185.3	172	127.3	142.7	NA	NA		NA
24036	447.4	155	190.7	98.9	197	NA	115.2		NA
24038	629.3	330.1	81.1	349.9	206.9	114.6	NA		NA
24041	421.8	126.4	119.1	134.3	3846.8	NA	NA		NA
24045	1743.2	432.8	326.9	211.6	177.3	102.2	NA		NA
24047	1424.4	301.2	254.9	679.8	284.7	172.2	NA	Garden	252
24048	2803.7	332.6	238.8	334.1	190.4	56.2	120.9		NA
24049	1540	159.1	260	280.4	700.4	NA	NA		NA
24051	5615.1	1374	436.6	433.6	421.1	NA	168.3		NA
24052	1029.2	338.4	188.9	238.3	442.6	NA	102.2		NA
24053	2081.9	147.2	286.4	158.9	351.6	146.2	NA		NA
24054	363.6	168.5	185.7	45.6	110.2	NA	NA		NA
24055	280.6	145.4	206.4	159.2	247.8	NA	NA		NA
24056	NA	77.8	60	27	24.1	NA	NA		NA
24057	1500.2	123	224.8	385.9	190.3	120.6	NA		NA
24058	189.5	145.5	147.4	82.2	68.1	NA	NA	F2	154
24060	361.2	412.7	324.7	80.3	176	NA	NA		NA
24062	221.3	139.2	210.6	52.4	145.5	NA	NA		NA
24063	255.6	393.6	354	NA	NA	NA	NA		NA
24065	267.9	261.2	278.8	213.3	134.9	NA	NA		NA
24068	2254.4	220.1	184.9	860.4	472.3	NA	NA		NA
24069	469.4	261.5	158.9	210.2	96.2	NA	NA		NA
24072	1889.6	502.4	860.8	1100	1180	NA	NA		NA
24074	732	697.2	1093.3	756.2	1252.3	NA	NA	B2	2020
24077	3648	326.4	232.6	782.8	167.9	NA	NA	F1	502
24078	63.5	207.9	219.1	224.2	414.9	NA	NA		NA
24079	1779.4	756	1082.4	469	831.3	NA	NA		NA
24080	196	117.1	102.9	135.2	120.9	NA	NA		NA
24082	231.4	134.8	148.9	166.6	59	NA	70.7		NA
24083	450.7	243	279.4	191.5	373.8	NA	NA		NA
24085	4912.4	176.7	214.4	582.4	142.2	NA	NA		17200
24086	189.6	200.8	93.3	70.9	33.8	NA	NA	F2	97.6
24087	506.7	222.6	186.7	366.6	334.1	NA	NA		NA
24091	1238.4	1695.6	363.9	318	323.3	NA	NA	B1	263
24093	3295.9	207.5	332.2	637.3	671.7	NA	NA		NA
24095	1290.1	336.2	247.8	342.4	137.3	NA	NA		NA
24097	1020	433.6	342	1029.6	1240	NA	NA		NA
24100	1528.7	714.1	838.2	181.3	217.2	NA	218.1		NA
24103	3079	819.3	349.8	546.2	305.1	699.1	NA		NA
24105	585.6	336.7	223.7	210.4	154.1	NA	NA		NA
24106	1220	68.2	412	118.2	101.5	NA	NA		NA
24108	112.6	75	137.9	238.2	103.7	NA	NA		NA
24116	1537	406.5	1812.5	522	598	NA	NA		2110
24117	380.8	237.6	239.4	649.2	83.8	NA	NA		NA

Appendix A
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Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
24120	542.5	65	153.2	450.2	NA	NA	NA		NA
24124	44.4	91.9	144	33.6	66.8	66.6	NA		NA
24127	1020	310	221.8	202.5	349.8	NA	NA		NA
24135	182.8	84.9	127.1	95.1	198.2	NA	NA		NA
24136	1216.9	507.4	475.8	701.7	304.1	278.6	NA	F1	386
24137	142.9	107.4	52	155.7	63	NA	NA		NA
24143	170.6	154.4	143.2	185	106.3	NA	NA	F1	176
24148	219.7	237.1	349.5	698.6	435.4	NA	NA		NA
24149	1524.8	430	579.4	219.9	115.8	NA	NA		NA
24150	625.5	432.5	357.5	175.6	241.8	NA	NA		NA
24151	586.4	108.9	161	247.2	823.2	NA	NA	F1	164
24152	66	225.2	127.9	299.2	260.4	NA	NA		NA
24153	936	502.4	422.4	257	562.4	NA	NA		NA
24154	162.8	123.9	177	127.1	112.9	NA	NA		NA
24157	1545.1	220.8	260.9	556.6	469.7	NA	NA		NA
24160	480	281	290.8	364.4	194.8	NA	NA		NA
24164	554.2	NA	157.4	223.9	671.7	346.6	NA		NA
24166	849.6	180.9	140.7	1200	294.8	360.2	NA		NA
24170	2146.4	129.3	1950.4	103.8	341.3	NA	NA		NA
24173	4868.4	1242.7	1581.6	3647.9	510.4	NA	NA		NA
24175	1071.9	267.6	422.7	417.8	222.5	NA	NA		NA
24176	278.8	210.4	160	208.9	316.3	NA	NA		NA
24178	878.3	146.1	210.1	56.9	182.8	NA	NA		NA
24179	1016.7	450.3	265.3	535.8	265.4	253.3	193.9		NA
24181	210.2	128.6	137.2	72.9	93.6	47.9	NA		NA
24185	2017.3	405.6	1380.5	471.2	452.8	NA	NA		NA
24191	721.1	230.9	204.4	150	2559.8	NA	NA		NA
24192	311.8	130.4	131.1	97.3	150.5	NA	NA		NA
24197	1208.9	234.2	304.3	501.7	365.1	NA	NA		NA
24203	767.7	1168.9	205.9	580.5	602.1	NA	NA		579
24207	714.8	227.8	212	368.2	343	NA	NA		NA
24208	1182.1	306.7	146.5	145.6	253.6	NA	NA		NA
24209	52.1	95.2	114.1	197.7	369.7	NA	NA		NA
24211	135.2	130.2	110.7	63.7	62.8	NA	NA		NA
24212	337.1	200.8	246.7	228.9	220.6	NA	NA		NA
24226	476.4	166.8	139.3	288.2	242	NA	NA		NA
24234	814.3	354.5	241.3	156.3	182.1	NA	NA		1040
24235	740.8	203.7	96.5	212.4	65.5	NA	NA		NA
24236	304	124.9	116.3	474.8	220	277.8	NA		NA
24242	1269.6	732	246	234.4	380.8	118.7	NA		NA
24244	2014.5	607.4	223.5	256.7	720.9	NA	NA		NA
24249	1849.6	129.4	132.9	214.8	168.9	NA	NA		NA
24250	719.2	270.2	229.9	430	465.2	NA	NA	F1	248
24253	208.6	119.6	76.8	146	108.5	NA	NA		NA
24255	580.8	121.6	59.6	245	264.2	NA	NA		NA
24256	416.9	157.6	1011.6	112.4	215.2	NA	NA		NA
24259	2619.2	184	156	245.4	237.6	NA	NA		NA
24260	975.2	427.6	347.2	180.9	147.1	NA	NA	F1	365
24264	1096.6	447.6	1192.8	132.8	636.4	NA	79.7		NA

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Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
24267	1302.9	288.2	429	228.5	64.4	NA	NA		NA
24269	1716	371	757.7	1358.5	355.7	NA	NA	F1	467
24275	1582.2	238.8	232.9	293.4	290.8	NA	NA		NA
24276	5449.6	167.5	251	266.8	656.8	195.2	NA	Garden	217
24279	388.2	456.9	484.6	276.9	229.4	NA	NA	B2	258
24280	303.4	531.5	201.6	NA	NA	NA	NA	F1	1170
24287	277	ND	ND	65.6	86.9	NA	NA		NA
24288	304.4	290	75.7	202.4	184.7	NA	NA		NA
24290	934.9	142	119.5	323.3	281	NA	NA	B1	484
24291	471.2	159.1	318.8	ND	ND	NA	NA		NA
24292	436.1	214.4	116.3	183.2	166.1	NA	NA		NA
24295	303.4	387.5	384.3	217.8	225.9	94.1	NA		NA
24296	1380	268.2	105.5	190.6	594	631.6	118.6		NA
24299	341.2	202.5	369.6	226.8	282.4	NA	NA		NA
24301	528.4	222	201.1	355.6	136.9	NA	NA		NA
24303	7073.5	250.7	221.5	335.4	231.7	202.2	NA		13700
24304	45.5	63.1	70.7	44.5	52.2	NA	NA		NA
24313	562.3	345.6	559.8	229.9	421.5	NA	NA		NA
24314	1249.6	213.8	127.4	216.6	180.9	NA	NA		NA
24318	780.1	206.4	263.5	363.1	297.6	NA	NA		NA
24319	1265.2	249.8	94.6	159.1	NA	NA	NA		NA
24320	236.4	158.2	112	335.9	762.7	NA	NA	B1	298
24323	3672.9	598.1	1251.2	242.7	173.5	NA	NA		NA
24326	2089.6	1389.6	793.6	985.6	794.8	NA	NA		NA
24327	238.4	115.3	157.1	294.6	399.6	NA	NA		NA
24341	4888.1	225	234.9	324.2	960.4	1778.5	NA		NA
24344	1009.6	135.2	192.9	479.6	384.4	NA	NA		NA
24350	571.6	204.6	249.2	266.8	164.7	NA	NA		NA
24352	427.6	161.2	206	431.5	139.7	NA	NA		NA
24354	1304	1443.9	1195.1	595.7	NA	NA	NA		NA
24361	129.7	126.3	333.5	129.3	135	NA	NA		NA
24365	738.7	327.1	233.8	756	341.3	NA	NA		NA
24366	2618.2	325.1	291.9	642.5	459.6	NA	NA		5940
24369	295.2	156	222	494.8	NA	NA	NA	F1	187
24372	178.4	131	204.3	88.4	248.9	NA	NA		NA
24373	1760	491.2	1229.6	224.4	250.8	473.2	129.6	Garden	562
24375	1176.5	139.7	293.8	685.2	317.7	NA	NA		NA
24380	1400	211.6	145.1	1889.6	440.8	NA	NA		NA
24383	2195.1	353.9	506.6	1015.6	533.3	NA	NA	F1	569
24388	607.8	221.9	944.8	441.6	204.1	NA	NA		NA
24391	378	291.4	115.5	157.8	378.8	NA	NA	F1	404
24397	92	139.5	292.4	168.7	120.7	NA	NA		NA
24398	724.5	536.1	235.1	292.2	161.7	NA	NA		NA
24400	786.6	74.9	434.5	673.6	442.3	NA	NA		NA
24401	1429.6	513.6	437.6	349.8	804.4	NA	NA		NA
24410	450	858.4	2120	701.6	341.6	NA	NA		NA
24413	2744.2	217.2	224.7	146.5	316.4	NA	NA		NA
24415	740.4	782	115.8	195.2	451.2	NA	NA		NA
24416	741.6	136	98.1	123.5	173.8	NA	NA		NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
24417	2139.2	398	305.2	170.5	310	NA	NA		NA
24418	1682.5	70.5	136	330.3	162.5	NA	56.3	Play	166
24426	109.4	126.9	67.6	165.7	108.8	NA	NA		NA
24429	38.9	129.3	130	NA	107.9	NA	NA		NA
24430	920.8	156.7	119.3	255	180	NA	NA		NA
24432	185.4	146.1	156.4	122.2	116.5	NA	126.4	Play	138
24433	67.5	62.1	NA	NA	30.8	NA	NA		NA
24436	667.4	141.9	269.7	79.9	NA	NA	NA		NA
24437	468	175.5	126.9	451.4	579.2	NA	NA		NA
24438	NA	585.3	525.5	NA	672.2	NA	NA		NA
24439	421.8	556.4	350.6	213.7	NA	NA	NA		NA
24442	81.1	172.8	116.6	61.6	188.8	NA	NA		NA
24443	776	185.2	155.2	597.6	206	NA	NA		NA
24444	366.7	1384	309.6	677.2	568.6	199.3	NA		NA
24445	2579.2	1000	158.9	442.8	367	NA	NA		NA
24447	478.8	316.6	179.8	247	118.9	NA	NA		804
24449	241	199.9	188.5	181	181.9	476.4	122.4		NA
24453	602.4	218	214.4	188.8	206.2	NA	NA		NA
24456	91.6	103.4	159	84.2	88.1	NA	NA		NA
24458	143.9	195.6	216	308	333	NA	NA		NA
24462	299.6	109.4	266.3	90.3	45.1	NA	NA		NA
24465	12303.6	189.5	3068.4	276.5	263.1	NA	NA		NA
24466	1094.7	333.7	258.5	597.5	167.7	NA	NA		NA
24467	929.6	1360	723.6	219	213.4	NA	NA	F1	2030
24468	204.8	267.4	163.1	137.5	217.1	NA	NA		NA
24469	NA	582.6	NA	NA	858.3	NA	NA		NA
24476	2288.4	383.8	875.4	308.8	162.5	NA	NA		NA
24479	182.5	165.8	84.2	88.9	156.1	NA	NA		NA
24480	2067.2	621.1	743.5	NA	NA	NA	NA		NA
24483	120.9	195.9	1298.8	1479.7	147.9	NA	NA		375
24487	3354.2	525.6	163.1	188.9	696.2	NA	NA		NA
24488	510.4	232	124.6	204.5	261.2	280.8	NA		NA
24489	479.2	1708.8	94.2	83.8	175.8	NA	110.4		NA
24493	1480	453.2	199.8	644.8	253	NA	NA		NA
24500	132.4	91	273.6	69.6	188.5	NA	NA		NA
24502	734.4	NA	236	NA	185	NA	NA	F2	260
24503	2583	434.6	404.3	362.4	1048.2	NA	538.1		NA
24510	60.6	104.5	94.2	198.9	87.2	NA	NA		NA
24513	300.7	110.4	88.9	216.9	154	NA	NA		NA
24516	503.4	266.8	129.4	119.5	118.1	NA	NA		NA
24518	1289.6	97.4	104.2	126.3	267.8	NA	NA		NA
24519	2092.7	1200.1	722.5	1481.5	728.6	NA	1455.4		NA
24520	131.2	208.4	73.7	234	79	NA	NA		NA
24521	261.8	290.5	68.2	218.3	190.6	NA	NA	F2	73.1
24523	306.8	213.3	168.7	242.2	161.8	NA	NA		NA
24525	653.7	2492.4	199	397.7	497.1	NA	NA		NA
24526	1974.1	392.9	330.1	249	169.2	NA	NA	F2	382
24527	NA	89.7	67.5	75.4	44.7	NA	NA		NA
24531	31.5	72	46.8	77.3	38.2	NA	NA		NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
24534	NA	130	76.9	43.6	43.9	NA	NA		NA
24535	507	651.1	1576.2	984.7	165.3	NA	NA		NA
24536	152.3	70.2	170.2	NA	NA	NA	NA		NA
24540	112.1	94.3	93.9	360.8	264.8	NA	NA		NA
24541	506.8	407.4	338.6	315.4	380.2	NA	NA		NA
24543	574.4	367	270.6	531.6	152.1	NA	NA		NA
24547	306.8	787.5	216.7	333.1	892.3	NA	NA		NA
24549	198.8	446	378.6	143	137.6	155	NA	Garden	176
24550	83.9	1934.9	552	603	167.1	NA	NA		NA
24552	1375.5	429.2	195.3	379.8	366	NA	NA		NA
24556	3089.6	195.2	929.6	215.8	233.4	NA	NA	B2	277
24559	NA	206.3	119.5	99.4	168.3	NA	NA		NA
24561	258.9	901.2	NA	270.9	1007.8	NA	NA		NA
24562	1699.2	1109.6	1269.6	229.6	145.1	NA	NA		NA
24564	1209.7	1100.6	1707.7	545.8	373.6	NA	NA		NA
24565	827.7	457.6	497.6	168.3	106.2	NA	NA		NA
24567	57.7	53.4	51.6	24.3	32.5	NA	NA		NA
24569	752.6	312.6	248.9	108.7	177.4	NA	NA		NA
24570	3033.3	213.6	564.7	376.1	807.2	2461	NA		NA
24574	492.3	216	440.2	254.1	NA	471.9	NA		NA
24580	445.2	268.2	249.6	824.8	903.2	NA	NA		NA
24581	729.5	390.5	393.4	539.5	679.8	NA	NA		987
24582	79.2	102.9	105.2	116.6	119.6	NA	NA		NA
24589	5034.2	1541.2	376.3	1823.4	355.5	NA	NA		9950
24592	812.3	261.1	578.7	413.2	335.5	NA	NA		NA
24594	6096.5	137.5	281.7	151.9	1047.3	NA	NA		NA
24595	352.2	230.6	594.8	48.7	572	NA	NA		NA
24596	213.6	186.2	238.6	NA	NA	NA	NA		NA
24597	264.4	151.2	306.8	468.8	268.6	NA	NA		NA
24607	178.6	457.7	198.3	302	147.2	NA	NA	F1	513
24608	1709.9	933.4	385.3	399.2	NA	NA	NA		NA
24609	274.9	165.6	212.8	228.1	127.2	NA	NA		NA
24610	3074.2	578.6	272.7	308.6	NA	NA	NA		NA
24615	2619.2	261.8	256.4	690.8	410.4	NA	NA		NA
24616	368.8	357.3	198	281	116.9	NA	NA		NA
24618	2115.2	681.1	593.3	132.6	954.5	NA	NA		4670
24620	732.4	206.8	352	139.5	187.9	NA	NA		NA
24621	1039.3	1231.2	783.7	NA	128	NA	210.3		NA
24622	1703.5	1254.1	609.6	4816.9	2408.7	NA	NA		NA
24623	2854.5	1256.6	754.2	231.5	348.8	NA	NA		NA
24626	1104.7	697.3	526.8	232.6	369.5	NA	NA		NA
24628	2388.8	659.6	738.8	310.8	226.4	NA	NA		NA
24629	2148.1	685.6	641.8	326.2	867.4	NA	NA	F1	1190
24633	2120	1229.6	1908.8	529.6	720	NA	NA		NA
24634	1081.6	1953.3	1594.5	1736.6	NA	NA	NA		NA
24637	NA	519.2	369.8	304.4	997.6	NA	NA		NA
24639	178.2	116.2	124.3	NA	77.5	NA	NA		NA
24643	280.6	276.8	201.4	NA	NA	NA	NA		NA
24649	167.6	103.5	92.1	97.1	147.7	NA	NA		NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
24656	670.4	231	386	117.1	NA	NA	NA		NA
24657	736.6	98	162.3	134.4	321.3	NA	NA		NA
24660	828.9	278.2	258.9	499.3	383.2	555.1	NA		NA
24661	NA	202.4	172.5	100.9	ND	NA	NA		NA
24663	1071.2	110.8	355.5	NA	NA	NA	NA		NA
24680	29.9	61.3	31.7	NA	54.5	NA	NA		NA
24681	275	470	200.3	230.4	2268.8	269.6	NA		NA
24682	76.7	99.7	121.9	106.2	154.3	NA	NA		NA
24685	1160	172.8	152.9	555.6	294.4	NA	NA		NA
24686	1560.9	131.3	80.2	494.7	435.4	NA	NA		NA
24688	1573.6	138.5	279.3	609	NA	NA	NA		NA
24691	1329.6	331.2	444.8	740.4	299.6	NA	NA		NA
24696	2729.8	352	354.1	308.9	190.5	NA	NA		NA
24699	602	245.8	230.2	NA	460.8	NA	NA		NA
24700	446.7	218.5	157.4	176.5	242.7	NA	NA		NA
24706	480	146.9	182	74.6	134.9	113.6	NA		NA
24709	331	152.5	465.5	177.8	181.3	NA	NA		NA
24711	108.3	126.7	177.1	177.5	109.5	NA	NA		NA
24712	266	181.6	178.7	72.9	58.2	345.6	26.5		NA
24713	167.7	80.4	72	121.6	ND	NA	NA		190
24717	386.4	249.4	227.9	780.4	1155.1	NA	NA		NA
24718	2445.4	235.7	562.7	391.4	521.1	NA	NA		NA
24724	251.7	246.2	276	209	122.4	190.5	NA		NA
24732	318.2	653.3	146.8	2850.9	1218.7	87.2	NA	Garden	113
24734	NA	278	128.9	323.4	282	NA	NA		NA
24742	421.2	114.5	135.4	89.9	ND	NA	NA	F1	129
24743	3031.6	274.1	884.5	249.4	897	NA	NA		NA
24744	915.2	104.4	136.6	501.6	521.2	NA	NA		NA
24755	272.2	207.7	179.9	390.9	58.2	NA	NA	F2	190
24758	636.2	117.4	172.6	163.5	367	NA	NA	B2	348
24759	163.7	91.7	40.6	NA	NA	139	NA		NA
24761	570	153.8	175.4	106.7	222.6	NA	NA		NA
24764	337.6	222.6	214.4	142.2	154.9	NA	NA		NA
24767	866.9	150.1	293.8	1170.6	470.2	NA	NA		NA
24769	NA	411.3	549.9	946.1	2940.5	NA	NA		NA
24772	570.7	738.6	1003.1	514.6	397.3	NA	NA		656
24778	1826.6	159.8	136.9	68.9	61.8	NA	NA		NA
24782	83.5	52.4	72.4	82.8	62.5	NA	NA	F1	69.5
24786	2190.1	425.8	162.9	1014	397.9	NA	NA		NA
24789	1044.1	811.9	1156.7	737.7	343.5	NA	NA		NA
24790	244.8	89.3	214.9	141.9	ND	NA	NA		NA
24795	140.4	48.4	136.9	114.1	155.7	NA	NA		NA
24797	631.6	129.4	283.4	724.4	470.4	NA	NA	B1	1740
24799	216.2	203.1	285.9	118.6	62.8	NA	NA		NA
24801	1264	160.1	363.4	230.4	99.2	NA	NA		NA
24802	641.2	256.8	240.8	131.2	112	NA	NA		NA
24803	1409.6	90.4	340.2	185.3	297.6	NA	NA	B1	211
24809	468	149	206	71.5	199.5	NA	NA		NA
24811	1029.6	327	422.8	240	316.8	NA	NA		NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
24815	71.9	64	72.4	82.6	66.2	NA	NA		NA
24816	1420	271.2	107.7	239.6	373.2	335.2	NA		NA
24818	1467.8	178	167.9	228.4	274.9	NA	192.7	Play	224
24822	1340	77.2	109.2	102.6	116.4	NA	NA		NA
24824	NA	86.3	160.5	163.2	113.5	NA	111.4		NA
24825	401.4	148	231.6	245.4	132.3	NA	NA		NA
24828	456.4	234.6	652.7	440.1	187.5	NA	NA	B1	376
24830	498.6	86.4	159.6	831.7	299.5	NA	NA		NA
24832	3198.1	591.3	542.8	411.5	NA	NA	NA		NA
24834	804.8	348.6	186.3	NA	NA	NA	NA		NA
24839	3009.8	390.9	670.5	195	108.6	NA	NA		NA
24842	1277.7	260.2	332.7	177.6	505	NA	NA	B2	1320
24843	261.1	116.3	86.2	236.5	97.3	NA	NA		NA
24846	2809.8	136.5	170.3	147.6	1059.2	NA	NA		NA
24850	805.5	214	306.3	766.1	759.4	NA	NA		NA
24851	1769.6	172	84.7	230.4	100	NA	149.3	B2	128
24853	1091.2	480.9	144.1	182.9	92	NA	NA		NA
24855	1280	297.4	391.4	623.3	265.5	NA	NA		NA
24857	855.6	221.5	125.3	129.8	224.7	NA	NA		NA
24858	225	196.6	256.2	102.3	90.2	NA	NA		4050
24860	1630.2	575.4	1848.9	1499.2	312.8	NA	NA		NA
24861	6161.9	402.9	250.5	419.1	684.5	NA	NA		NA
24863	260.8	333.8	247.8	144.3	98.9	NA	NA		NA
24866	570.2	191.9	191.5	180.5	818.1	NA	NA		630
24873	791.4	40.8	NA	229.8	750	NA	NA		NA
24874	455.3	293.6	307.9	222.6	364.3	NA	NA		NA
24877	762.6	139.8	204.5	246.1	658	NA	116.4		1550
24878	353.9	206.8	186	137.8	86.2	NA	402.2	F2	262
24879	143.4	144.6	100.1	204.2	171.8	NA	NA		NA
24882	438.4	166.1	131.2	405.4	214.2	NA	NA		1010
24886	975	424.6	738	808.1	381.7	NA	NA		NA
24891	1343.5	226.5	226	102.9	131.4	NA	NA		NA
24892	546.8	153	137.4	60.1	151.5	57.3	NA		NA
24895	1096.9	238	229.7	316.8	242.9	NA	NA		NA
24899	1038.1	132.5	114.7	101.9	182.4	NA	NA		NA
24902	347.7	333.5	470.9	597.9	417.8	NA	NA		NA
24904	332.7	261.9	340.1	244.4	96	NA	134.8		NA
24906	1053.7	331.3	144.5	178.5	227.7	171.2	NA		NA
24907	1600	446.4	333.6	204.8	223.8	NA	NA		NA
24908	439.8	224.5	246.3	403.6	123.2	NA	NA		NA
24909	242.5	183.4	390.6	178.8	220.9	NA	NA		NA
24911	433.8	204	274.1	290.5	280.3	NA	NA		NA
24912	818.4	265.4	260	303.7	240.9	NA	NA		NA
24914	1021.1	350.3	239.5	NA	140	NA	NA		NA
24917	652.8	206	528.8	86.5	242.8	NA	NA		NA
24918	850.8	240.7	199.4	73	ND	NA	NA		NA
24920	144.1	111.4	119.2	211.9	182.8	NA	NA		NA
24926	2249.6	504	442.8	383.4	376.8	NA	NA		NA
24942	868	187.8	110.7	1013.1	567.5	NA	NA	F1	240

Appendix A
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Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
24944	6136	377.6	359.7	1427.6	629.6	NA	NA		NA
24950	447.6	334	202.6	ND	67	NA	NA	B1	25.5
24951	208.8	217.5	191.8	245	258.4	NA	NA	B2	290
24953	277.2	106.3	66.1	107.3	141.3	NA	100.5		NA
24954	2633.1	403	380.5	399.7	1044	NA	NA		NA
24968	662.9	245.6	122.6	56.5	64	NA	NA		NA
24970	746.6	138.5	250.3	248.8	259.8	189.2	NA		NA
24975	829.6	129.3	188.7	287.8	286.4	327.4	NA		NA
24981	1419.6	499.8	868.2	454.8	508.8	NA	NA		NA
24983	790.4	267.8	504.6	395	483.9	NA	NA		NA
24984	437.2	119.8	114.8	399.5	316.9	NA	NA		NA
24987	368.4	232.5	215.3	369.2	187.8	NA	NA		NA
24993	2163.8	548.5	369.5	517.6	259.4	NA	NA		NA
24996	NA	623.2	1354.6	393.8	NA	NA	NA		NA
24997	537.6	155.7	217.4	386.2	394.2	NA	NA		NA
25002	1380	542.4	183.8	685.6	2699.2	NA	NA		NA
25004	413.8	1059.1	984	496.9	385.5	NA	NA		NA
25011	676.9	440.9	713.4	556.3	366.7	NA	NA		NA
25020	1809.8	180.3	487.2	331.7	2774.7	NA	NA		NA
25030	382.6	500.8	209.8	986.4	644.8	NA	NA		NA
25038	12432.6	679.5	1023.6	1397.4	1054.5	NA	NA	B1	1920
25043	798.8	884.8	566	492.8	516.8	NA	NA		NA
25045	NA	NA	NA	628.8	828	NA	NA		NA
25051	784.6	131.4	293.4	522.5	309.4	NA	NA		NA
25054	373.4	93.2	91.7	207.6	124.6	NA	NA		NA
25059	982.4	271.9	615.9	188.3	235.9	NA	NA		NA
25060	2579.2	1769.6	190.2	3878.4	NA	NA	915.2		NA
25065	2384.4	53.4	40.6	318.2	65.1	NA	NA		NA
25068	608	306	385.6	191.8	649.2	NA	NA		NA
25070	1089.8	286.3	658.3	130.8	221.6	568.4	NA		NA
25072	439.6	338	175.4	1033.2	182.6	NA	NA		NA
25074	1149.6	ND	181.8	470.4	217.6	NA	NA		NA
25077	705.4	108.7	137.8	136.5	174.8	NA	176.2		NA
25080	4344.7	786.1	197.1	671.2	117.5	NA	NA		NA
25083	5699.2	1809.6	112.1	293.4	458.8	NA	NA		NA
25085	103.3	103.6	54.6	ND	119.2	NA	NA		NA
25094	1430.1	250.6	117.5	377.6	1647	NA	NA		NA
25098	2365.1	78.4	387.6	212.4	248.6	NA	NA		NA
25102	1752	989.7	1478.4	810	591.9	336.8	NA		NA
25103	2209.6	412	171.1	859.2	343	NA	NA		NA
25107	1452.8	112.9	750.2	108.1	681.9	NA	NA		NA
25122	ND	69.4	183.5	97.8	124.8	NA	NA		NA
25124	220.8	345.8	232.9	211.6	370.9	NA	NA		NA
25125	668.2	280.5	101.8	468.4	485.5	NA	NA	F1	261
25126	213.7	675.8	271.8	NA	235.2	NA	NA		NA
25127	105.3	85.6	53.4	166.5	138.9	NA	NA		NA
25138	656	237.4	1080	202	NA	1029.6	563.6		NA
25142	144.8	194	429.3	NA	NA	NA	NA		NA
25148	941.5	1787.1	NA	140	86.4	NA	NA		NA

Appendix A
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Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
25151	1180	225.6	160.4	502.8	319.2	NA	267.4		NA
25152	1284.3	416.3	228.9	150.2	219.9	NA	NA		NA
25157	541.6	820	401.8	246.4	251	NA	NA		NA
25163	517	278.2	NA	207.1	225.6	NA	NA		NA
25168	NA	139.8	83	179	400.4	NA	NA		NA
25170	807.3	149	37.9	288.2	1660.7	NA	NA		NA
25175	1979.2	129.7	NA	968	398.4	NA	NA		NA
25177	874.4	265.6	154.4	550.8	1948.8	NA	NA		NA
25179	766.8	171.1	150.1	175.4	183.7	NA	NA		NA
25180	803.4	261.6	196.8	445.4	204.4	NA	NA		NA
25181	742.2	606.5	209.4	381.6	299.8	NA	NA	B2	423
25184	170.9	93.6	119.7	236.8	292.8	NA	NA		NA
25187	1931.5	306.4	272.8	327.9	314.5	NA	208.7		NA
25188	85	153	302.1	102.7	119.1	NA	NA		NA
25190	652	305	202.3	159.9	221.2	NA	NA		NA
25196	256.6	604.2	585.2	181.9	1993.3	NA	NA		NA
25198	582.2	237.6	359.1	8201.5	625.9	NA	NA		NA
25200	276.7	130.7	91.9	305.8	219.5	NA	NA		NA
25201	NA	132.6	414.4	687.6	732.8	NA	NA		NA
25203	199	323.2	112.6	555.1	261.2	NA	NA	B2	260
25209	1320.1	450.2	237.2	148.4	NA	199.6	NA		NA
25210	803.8	1063.6	103.9	1621.7	1184	NA	NA		NA
25211	2102.8	202.9	477.4	1781.4	1665.5	NA	NA	F2	1620
25214	2977.5	1524.9	326.9	256.4	NA	NA	NA		17000
25216	1223.8	190.1	141.2	79.3	126	NA	NA		NA
25218	1822	283.6	827.7	132.4	145.4	NA	NA		NA
25220	270.6	103	108.5	113.1	368	NA	NA		NA
25223	3120.6	269.6	117.1	628.4	250.5	NA	NA		NA
25226	4083.4	488.2	218.2	495.8	290.7	NA	NA		NA
25227	93.3	90.8	78	85.2	152.2	NA	NA	B2	143
25228	639.4	378.8	325.4	198.1	532.8	157	NA	Garden	126
25230	251.7	396	463.5	132.5	140.7	NA	NA		NA
25236	628.8	93.2	175.5	105.7	102.8	NA	NA		NA
25238	387	210.3	95.7	71.8	121.1	NA	NA		282
25243	1094.8	423.7	421.6	2327.4	576.8	NA	NA		NA
25244	3019.2	511.2	300.2	183	221.4	NA	NA		NA
25247	NA	199.7	159.1	256.6	111.1	NA	NA		NA
25248	2508.8	326.2	309	480	697.2	NA	NA	B2	871
25251	1257.8	119.4	371.3	313.9	175.2	NA	NA		NA
25260	888	564.8	NA	564	475.2	NA	NA		NA
25273	1532.6	432.9	243.8	2458.2	273.8	NA	NA		NA
25274	161.7	130.6	90.9	272.2	644.9	NA	NA		NA
25275	2219.2	345.4	1620	102.6	282.4	NA	NA		NA
25277	NA	88.9	81.2	226.3	NA	NA	NA		NA
25280	NA	157.9	ND	205.4	290	79	NA		NA
25282	649.8	212.6	237.2	244.4	167.1	NA	NA		NA
25287	2609.6	NA	1420	1229.6	3840	NA	NA		NA
25293	656	274	279.8	258.2	128.3	309.2	NA	Garden	492
25294	3919.1	226	158.5	452.1	238	NA	NA	F2	234

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
25295	1550.9	186	233.2	220.6	387.7	NA	NA		NA
25297	1238.8	493.7	101.3	329.2	836.3	251.1	NA	B2	1140
25298	2209.6	584	401	182.6	164.1	NA	NA		NA
25300	1372.8	1459.5	260	489.2	316.9	NA	NA		NA
25302	3656.1	727.9	359.7	260.8	405.4	NA	NA		NA
25309	940.8	158.9	255.8	227	289.8	NA	NA		NA
25325	132.3	81.8	219.5	203.8	97.7	NA	NA	B1	359
25327	538.6	247.6	233.9	NA	518.1	NA	NA		NA
25330	184.6	118.1	118.6	72.5	149.2	NA	NA		NA
25331	128.4	148.8	79.3	102.2	274.4	NA	NA		NA
25339	139.7	241.5	94.5	1754.3	356.7	NA	NA		NA
25341	624.4	293.4	728	309.6	230.6	NA	NA		NA
25342	5788.8	860	548.4	653.6	907.2	NA	NA	F2	384
25343	NA	152.6	217.6	259	426.8	NA	NA	F1	163
25345	1240	119.9	298.4	147	248	NA	NA	F1	258
25355	1140	315.8	121	363	371	NA	NA		NA
25356	1849.7	762	112.2	287.4	181.3	NA	NA	B1	264
25357	1660.5	NA	330.5	NA	241.8	NA	NA		NA
25364	379.4	232.7	NA	182.1	299.7	NA	NA	B2	328
25365	697.7	547.2	NA	715.8	NA	NA	NA		NA
25371	1981	230.7	315.4	592.8	NA	NA	NA		NA
25372	1822.3	180.8	242.2	1578.8	2025.2	NA	NA		NA
25373	1943	377.5	229.5	522.1	1055.1	NA	NA		NA
25383	59.9	143.3	68.4	79.8	73.9	NA	NA		NA
25386	2588.8	1320	828	708.8	570	NA	NA		2310
25388	522.8	207.6	287.4	272.2	288.4	NA	NA		NA
25390	1098.8	477.6	1512.8	1070.3	NA	NA	NA		1120
25401	4429.2	394.4	367.7	385.5	351.5	NA	NA		NA
25413	1040	121	133.2	92.2	NA	NA	NA		NA
25415	451.2	332.2	466.4	364	235.8	NA	NA		NA
25419	245.8	219	129.3	99.8	109.4	NA	NA		NA
25420	714.4	177	216.6	362.8	NA	NA	NA		NA
25422	507	145.7	183.8	289.6	133.5	NA	NA		NA
25423	726.6	309.8	139.6	311.8	101.6	NA	NA		NA
25426	1819.2	175.9	256.4	1280	194.1	NA	NA		NA
25428	1006.2	NA	473.4	NA	516.6	NA	NA		NA
25432	269.4	NA	NA	698.2	335.3	NA	NA		NA
25433	280.3	211.9	264.8	281.2	NA	NA	NA		NA
25434	788.4	169.3	180.8	137.1	103.1	NA	NA		NA
25450	51.7	41.6	41.2	32.4	59.9	NA	NA		NA
25453	41.5	167.8	118.8	72.6	55.5	NA	NA		NA
25454	120	104.1	61	93	81.4	NA	NA	F1	121
25455	612	215.8	223	667.2	221.2	398.6	NA		NA
25457	4196.5	148.1	182.2	362.7	361.8	NA	NA		NA
25459	447.3	674.6	180.2	260.1	361.6	NA	NA		NA
25464	2383.9	820.4	491.8	606.8	420.5	NA	NA		NA
25466	584.8	427.6	624.8	527.9	487.9	NA	NA		NA
25476	1180	2120	NA	498.4	411.2	NA	NA		NA
25477	674	241.6	218.8	NA	166.9	NA	NA		NA

Appendix A
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Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
25478	NA	139.7	284.7	27.7	56.2	NA	NA		NA
25479	NA	203.6	160.6	140.7	337	NA	NA		NA
25481	482.9	549.1	744.8	55.8	321.4	NA	NA		NA
25485	1003.5	456	274	643.5	73.9	NA	NA		NA
25490	1779.2	236.6	314	251.2	439.6	NA	NA		NA
25492	465.4	384.7	357.3	254.8	216.8	NA	NA	B1	374
25497	1640	NA	540	249.4	273	NA	NA		NA
25498	2647.3	314.4	190.4	329.1	282.5	NA	NA		NA
25502	3289.6	461.2	726	157.4	485.6	NA	NA		NA
25509	1558.7	349.2	413.7	420.9	438.4	NA	NA		NA
25512	1394.5	380.3	179.2	NA	1118.8	NA	NA		1660
25517	531.2	95.1	277	NA	NA	NA	NA		NA
25520	484.6	362.2	549	188.9	253.6	NA	NA		NA
25522	315	238.1	467.5	301.2	201.8	NA	NA		NA
25528	204.5	114.6	124.8	130.5	109.1	NA	NA		NA
25536	NA	1748.8	277.8	NA	NA	NA	NA		NA
25539	480.7	180.4	160.5	210.5	188.8	NA	NA		NA
25540	676.8	307.1	205.2	622.1	532.8	NA	NA		NA
25541	595.2	86.8	236.4	139.8	238.6	NA	135.6	Play	58.8
25542	2228.8	532	868	519.2	402	NA	NA	B2	643
25549	927.2	1340	309.8	230.4	199.7	249	NA		NA
25552	3920	626	418	599.6	281.6	NA	NA		NA
25557	1225.5	235.6	451	446	391.5	NA	NA		6100
25559	1357.1	700.3	323.1	532.8	1070.6	NA	NA		NA
25564	2360	427.6	171.9	347.4	360.6	NA	NA		NA
25568	1353.7	864.4	413.8	344.3	207.6	NA	NA		NA
25572	1493.4	1172.9	156.6	725.3	315.6	NA	NA		NA
25573	426.9	514.5	246.8	616	217.6	NA	NA		NA
25574	1884.1	188.2	245.5	415.6	398.1	NA	NA		NA
25576	860.1	273.6	241.9	84.5	222	243	98.5		NA
25586	540.4	79.4	103.1	269.4	318.2	NA	NA		NA
25587	1209.6	305.4	584.8	NA	NA	NA	NA		NA
25590	1229.6	404.8	340.4	256.8	NA	NA	NA		NA
25591	531	118.9	165.4	147.2	199.5	NA	NA		NA
25593	1149.6	ND	100.4	395.6	349.8	697.2	NA		NA
25603	620	110.9	114.3	185.2	98.3	NA	NA	F1	131
25606	1629.6	443.2	291.8	319.2	576.8	NA	NA		NA
25610	1029.6	288	546	294.2	421.6	NA	NA	B2	487
25615	742.8	190.8	239.6	193.2	290.6	NA	NA		NA
25617	286.9	146.4	178.7	141.5	204.9	NA	NA		NA
25618	1310.6	787.2	602.3	161.3	583	NA	NA		NA
25620	3160	401.4	570.8	282.6	1659.2	NA	NA	B2	2250
25641	844.8	293	532.4	345.6	226.2	NA	NA		NA
25642	603.2	157.3	97.3	229.6	212.8	NA	188.1		NA
25644	87.3	41.8	77.5	118.8	215	NA	NA	B2	240
25645	690.1	465.6	238.9	148.1	147.6	NA	NA		NA
25649	1535.4	190.6	175.3	228.7	177.5	NA	NA		NA
25653	2784.8	515.1	328.2	1920.1	936.8	2902.9	NA		NA
25660	848	274.2	356.4	NA	149.4	NA	NA		NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
25693	1129.6	329.6	280.6	NA	806	NA	NA		NA
25696	2451	242.9	557.4	532.3	553	NA	286.8		NA
25710	1720	436.8	892.8	376.4	517.6	NA	NA		NA
25719	1216.1	413.5	432.1	374.7	269.7	NA	NA		NA
25731	960.8	389.8	297.6	459.2	535.2	NA	NA	B2	727
25735	1176.1	271	366.9	426.6	204.9	NA	NA		NA
25736	694.2	379.4	614.5	335.2	126.9	NA	NA		NA
25749	135.1	174.1	159.1	169.4	148.4	NA	NA		NA
25754	118.1	165.4	129	379.3	262.7	NA	NA		NA
25758	863.2	241.8	289	264.7	387.7	206.5	NA		NA
25763	636	203.7	130.8	350.2	336	NA	NA		NA
25767	1808.4	165.4	173.7	316.5	400.6	NA	NA		NA
25769	187.1	149.9	165.4	129.8	153.8	114.6	NA		NA
25770	781.8	292.5	283.4	436.3	212.9	NA	NA		NA
25773	1566.3	88.3	663.6	309.8	160.8	NA	NA		NA
25774	1128.4	119.9	124.3	98.5	332.3	NA	NA		NA
25776	290.7	95.5	460.7	319.2	206	NA	NA		NA
25778	NA	283.7	162.6	111.1	NA	NA	NA		NA
25781	117.1	142.2	145.9	171.7	200.6	NA	NA		NA
25782	743.2	193.9	133.1	497.5	220.7	NA	NA		NA
25784	1327.7	438.9	911.7	165.2	234.9	NA	NA		NA
25788	579.5	266.2	191.5	210.3	248.4	NA	312.5	Play	343
25789	2465.7	257.1	1509.5	532.4	NA	NA	NA		NA
25800	379.4	108.5	426.4	163.5	140.8	NA	NA		NA
25808	378.3	190	158.4	198.1	354.7	NA	NA		NA
25812	2534.6	434.5	919.4	611.3	654.8	NA	NA		NA
25818	72.3	480.4	224.2	313.4	227.8	NA	NA	B2	470
25829	2429.6	480.7	336	737.5	710.2	NA	NA		NA
25840	1200	87.1	100.4	250	244.2	NA	NA		NA
25846	427.2	108.6	185.5	2329.6	NA	NA	NA		NA
25855	1390.8	412.5	272.7	479.1	445.8	459.9	NA		NA
25860	516.4	79.1	71.1	334.3	150.2	NA	NA		NA
25864	774.5	97.3	118.8	129.4	120.1	NA	NA		1340
25866	268.3	73.7	27.9	194.4	88.2	NA	NA		NA
25868	1882.6	209.5	154.4	239.1	258.3	NA	NA		NA
25871	1062.6	232.1	365.3	368.9	562.8	412.2	NA	Garden	445
25882	13025	115.7	158.4	1113.6	967.4	NA	NA	F2	228
25885	454.8	117.7	178.4	1369.6	303.4	NA	NA		NA
25888	876.2	947	326.9	162.9	1708.4	NA	NA		NA
25891	82.8	90.2	179.3	70.8	64.6	NA	NA		NA
25899	448.3	410.7	NA	NA	NA	NA	NA		NA
25907	1077.8	224.6	271.7	124.8	146.1	NA	NA		NA
25915	45.6	82.2	86	291.8	91.7	NA	82.1	Play	85.3
25919	1469.7	246	318.3	578	451.8	NA	NA		NA
25925	441.4	289.7	368.4	793.5	409.8	NA	NA		NA
25947	492	560.8	309.2	412.4	532.4	NA	NA		NA
25949	1473.3	120.5	174.4	268.7	156	NA	174.5	B1	420
25954	4922.9	681.6	156	978.8	764.1	947.5	NA		NA
25956	3800.6	116.7	36.6	144.5	117.1	NA	NA		NA

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Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
25959	2323.7	264.1	225.4	966.4	254.7	NA	NA		NA
25968	8706.5	1011.9	590.1	932.5	557.4	NA	NA		13700
25971	226.8	449.7	217.8	184.8	170.9	NA	NA		NA
25975	1488.7	138	749.1	409.1	697.4	NA	NA		NA
25978	8265.5	829.8	219	1304.9	920.3	NA	NA		NA
25979	239.2	177.9	147.1	95.2	33.3	NA	NA		NA
25982	59	180	632.2	208.4	186	NA	NA		NA
25984	417.2	345.6	427.2	339.2	84.9	NA	NA		NA
25988	133.3	50.4	130.5	119.5	116.2	NA	NA		NA
25991	3268.7	309	107.3	101.6	161.9	NA	NA		NA
25995	1972.7	118.8	74.2	394.2	NA	NA	NA		NA
25999	1360	750.8	460	1469.6	407.6	290.6	NA		NA
26000	1058.9	336.3	264.4	287.8	395.4	427.9	NA	Garden	596
26002	2844.4	188.7	279.3	240.9	701.3	NA	299.8		NA
26007	1689	279.6	378	236.6	375	NA	NA		NA
26008	213.8	40.7	ND	220.8	210	NA	NA	B1	211
26014	208.2	204.7	271	NA	NA	NA	NA		NA
26018	2473.2	285.9	270.1	87.6	240.7	NA	NA		NA
26025	902.3	431.6	103	309.3	85.3	262.9	NA	Garden	318
26033	1661.9	187.6	342.2	49.3	137.4	47.3	NA		NA
26035	2154.3	254.8	350.8	711.5	238	NA	NA		NA
26038	1453.6	70.5	77.7	135.7	79.3	NA	NA	F1	85.6
26041	221	147.3	114.6	106.8	119.9	NA	NA		NA
26044	1420	132.7	282.8	87.1	461.6	NA	NA		1080
26062	2103.3	439.7	1007.3	NA	NA	NA	NA		NA
26066	997.6	620.4	492.4	216.8	467.6	NA	NA		NA
26068	1050.7	201.3	139.8	353.8	265.5	NA	324		NA
26069	1431.6	231.6	143.4	274.7	368.5	NA	NA		NA
26092	579.8	329.2	127.7	583.1	254	NA	NA	F1	371
26101	980.6	201.9	192.9	97.8	107.3	NA	161.4		NA
26105	2609.6	491.2	561.2	278.6	282.4	NA	454		4180
26106	5367.1	4498.3	6042.3	262.8	303	NA	NA	F1	6570
26109	469.6	902.4	3188.8	593.2	701.6	NA	NA		NA
26120	518.3	102.8	390.6	553.2	537.3	NA	NA		NA
26129	172.7	172.3	180.3	158.4	217.8	NA	NA		NA
26131	59.5	87	68.7	230.4	85.2	NA	NA		NA
26132	1052	310.2	303.5	286.3	241.6	NA	208.5		NA
26134	1831.1	352.6	541.4	761	964.3	NA	693.5		NA
26137	166.6	125.3	72.2	58.2	103.5	136.4	NA		NA
26140	474.3	391.6	212.1	277.5	167.1	23.3	509.5	B1	359
26141	231.8	278.2	368.2	140	105.8	NA	NA		381
26143	513.6	205	148.7	215.8	157.7	NA	688		NA
26144	45.1	280.7	301.7	282	234	NA	NA		NA
26150	73	118.7	50.9	70.1	83.8	NA	NA		NA
26153	298.9	194.6	257.4	313.7	193.2	NA	NA		NA
26154	2483	556.8	504.5	578.3	394.7	NA	NA		2220
26155	NA	312.2	261.2	1440	786	NA	NA		NA
26158	1020	272.6	234.4	390.4	239.4	NA	NA		NA
26159	2684.5	211.8	869.9	317.8	434	NA	NA	B1	313

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Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
26162	195.6	46.1	27.8	36.5	118.2	NA	NA	B1	83.6
26169	571.6	462.8	260	448.9	384.5	NA	NA		NA
26178	1687.1	252.7	133	170.8	NA	NA	191.5		NA
26182	255.3	NA	229.8	321.8	514.4	NA	NA		NA
26188	268	99.1	155.3	135	88	NA	NA	F1	105
26203	103.5	44.8	40.4	115.6	148.3	NA	NA		NA
26206	726.3	278.4	172.7	220.5	623.2	NA	NA		NA
26209	78.4	77.2	101.7	66.9	101.8	NA	NA		NA
26212	963.3	131.1	135.4	67	292.6	87.4	NA		NA
26217	28.8	47.3	34.1	80.6	56.8	NA	NA		NA
26242	489	339.6	299	595.8	349.9	NA	NA		NA
26250	1094	645.1	461.9	929.1	916.9	NA	NA		NA
26253	398.6	184.5	344.7	345.9	287.4	NA	NA		NA
26254	1449.8	260.1	251	304.8	852.6	NA	NA		NA
26265	89.6	174.4	57.5	260	186.4	NA	NA		NA
26266	762.8	284.6	254	149.7	368	NA	NA		NA
26269	209.7	148.1	218.8	158.1	170.3	146.8	NA	B2	211
26276	529.6	389.6	492.4	361.6	441.6	NA	NA		NA
26279	3336.9	421.2	489.3	289.8	210.3	NA	NA		NA
26282	824.2	191.1	168	NA	149.5	NA	NA		NA
26285	248.8	273.8	279.8	241	235	NA	237.6		NA
26291	208.1	78.2	84.4	97.8	97.8	NA	NA		NA
26292	1320.7	184.5	201.4	172.5	186	NA	NA		NA
26296	128.6	82.5	92.6	NA	NA	NA	39		NA
26301	2308.8	NA	NA	872.8	290.8	NA	NA		NA
26304	483.2	231.4	137.5	218.2	240.4	NA	NA		NA
26306	639.5	87.9	40	86.7	67.2	NA	NA	F1	80.1
26307	197.5	126.8	89.4	151	96.3	NA	NA		NA
26310	32.8	52.6	73.7	47.2	75.7	NA	NA		NA
26311	629.9	176.4	95.9	147.3	340.2	NA	NA		NA
26314	672.6	177.5	171.2	271.8	248.2	NA	NA		NA
26315	3289.6	240.2	257.6	177.8	234	408.4	NA		NA
26319	438.9	239	237.6	NA	246.9	NA	NA		NA
26332	2228.8	231.6	297.6	117.1	155.8	NA	NA		NA
26335	205.1	110.1	86	396.8	581.3	284.2	NA	B1	439
26349	118.5	91.7	182.7	133.6	118	NA	NA		NA
26353	86.3	102.3	82.5	61.6	64.5	NA	NA		NA
26355	398.6	478.6	292	273.9	226.1	NA	NA		NA
26356	208.2	111.9	126	147.3	126.2	NA	NA		NA
26361	122.6	64.6	112.1	49.4	228.4	NA	NA		NA
26362	1821.5	168.4	246.5	259.4	315.1	NA	NA		NA
26364	912	240.5	501.6	252.1	391.1	NA	NA	B2	425
26366	654.8	293.4	384.4	168.2	330.4	NA	NA		NA
26373	796.5	130.1	148.6	132.7	43	NA	NA		NA
26377	1050	263.5	254.7	238.6	685.3	261.5	NA	Garden	534
26379	4569.6	216.8	297.4	195.3	NA	NA	NA		NA
26389	68	59	68.3	101.4	97.2	NA	NA		NA
26395	371.1	307.4	165.6	94.8	128.5	223.3	NA	Garden	257
26397	31.3	125.1	112.3	205.2	343.4	NA	NA		NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
26398	85.8	103.3	96.3	109.4	82.1	NA	NA		98.1
26399	746.4	143.1	200.9	552	89.1	NA	NA		NA
26405	NA	78.6	100.6	250.8	139.2	NA	NA		NA
26415	710.9	111.2	893.2	262.3	351.3	NA	68		NA
26421	247.2	77.4	235.8	107	NA	NA	NA		NA
26424	148.6	68.7	146.5	84.9	259.7	NA	NA	F1	79.4
26431	290	97.8	NA	142.9	160.8	NA	NA		NA
26432	76.4	37.1	70.6	83.3	61.3	NA	NA	B1	92.9
26433	277.3	108.7	160.2	153.5	163.9	NA	351.7		NA
26436	34.4	59.9	47.1	186.5	124.2	NA	NA		NA
26443	1320	387.2	662	903.2	561.6	NA	NA		NA
26450	1312.1	281.4	210.5	242.5	NA	NA	NA		NA
26451	420	332.2	153.1	89.1	254.8	NA	NA		822
26463	306.4	109.9	130.3	168.9	185.5	NA	NA		NA
26467	63	153.9	50.1	91.7	45.2	NA	NA		NA
26471	732.3	191.5	758.9	217.4	177.2	NA	NA		NA
26479	1739.2	128.8	204.2	239.2	175.5	NA	NA		NA
26487	828	167.3	98.9	181.8	362	NA	NA	B2	2.32
26489	2387.6	547.2	261	306.5	108.1	NA	NA		NA
26492	657.8	259.6	186.5	1152	659.6	NA	NA		NA
26494	6688	560	850.4	281.8	378.8	NA	NA		NA
26500	1668.8	766.4	175.9	122.6	147.6	NA	NA		NA
26502	1309.6	443.6	552	196.4	220.8	NA	NA		NA
26504	556.9	504.2	402.6	383.1	586.4	NA	NA		NA
26505	855.9	145.6	749.7	409	274.8	NA	162.8		NA
26510	165.8	90.8	69.4	75.3	84	NA	96.5	Play	90.1
26512	73.1	290.4	250.4	152.5	NA	NA	NA	B1	115
26524	451.9	392.4	203	326.5	454.4	NA	NA	F1	456
26553	1098.8	563.2	808.6	60.9	881.1	NA	NA	B2	808
26554	1217.8	385.8	136.1	402.3	529.4	NA	NA		NA
26564	1340	235.2	484.8	255	796.8	NA	NA		NA
26566	450.7	423.6	158.3	297.3	157.1	NA	NA		NA
26567	4136.7	274.5	101.3	1096.7	1415.7	NA	NA		NA
26569	600.7	310.3	428.1	1013.7	489.3	NA	NA		NA
26593	18348.1	387.7	357.2	169.7	236.4	296.5	NA		NA
26596	1216.3	1926.8	856.3	2120.6	358.4	NA	NA		NA
26600	266	546	329.6	988.6	185.4	NA	NA		NA
26601	693.5	279.3	396.7	303.3	415.8	NA	NA	F1	338
26607	1227.7	152.1	94.2	313.3	138.2	NA	NA		NA
26613	244.4	1052.5	545.7	298.6	NA	NA	NA		NA
26618	1748.8	594.4	377.6	935.2	321.6	NA	NA	B2	738
26619	5742	1814.7	2074	2095.5	259.8	NA	NA		NA
26630	1589.6	319.8	177.1	378.2	104.9	NA	NA		NA
26632	896.9	205	501.9	267.8	143.3	NA	NA		NA
26633	495	324	385.7	241.6	NA	NA	NA		NA
26634	1562.7	61.4	407.7	188.6	102.5	NA	NA		NA
26637	805.8	113.7	159.2	237	104.6	NA	NA		NA
26638	48.3	85.8	69.3	55.7	59	NA	NA		NA
26641	2748.8	444.4	196.6	100.1	80.2	NA	NA		NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
26642	3608.9	263.2	130.6	397.7	206.1	NA	NA		NA
26643	359.2	53	150.2	144.5	129.7	NA	86.7		NA
26658	1268.8	2275.4	85.3	145.1	177.1	NA	NA		NA
26667	5680.3	153.1	387.5	257.7	2191.9	NA	NA		NA
26673	176.8	867.5	120.5	140.3	136.2	NA	NA		NA
26675	538.8	219.8	397.8	234.2	208.7	NA	NA		838
26677	51.5	98.4	89.7	51.5	78.9	NA	119.8		NA
26678	1052.6	330.2	127.3	365.9	509.2	NA	NA		NA
26687	538.4	241	282	NA	243.4	NA	NA		NA
26697	104.4	19.5	100.4	106.3	145.9	NA	NA		NA
26699	881.6	453.6	528	1049.6	950.4	NA	NA		NA
26705	239.2	200.9	289.6	NA	327.8	NA	NA		NA
26707	232.9	206.5	203.2	139.1	141.6	NA	NA		NA
26720	1389.6	200.1	135.4	463.2	232	NA	NA	F1	325
26723	8128.4	600.7	531.4	538.4	2066.3	NA	NA		NA
26729	760.8	355.4	189.9	96	172.1	NA	NA		NA
26732	24.1	280.1	443.6	277.5	239.8	NA	NA		NA
26736	132.9	275.5	244.7	329	447	NA	NA		NA
26739	819.2	425.6	872.8	NA	NA	NA	NA		1040
26740	51.5	57.6	97.8	63.2	65.6	NA	NA		NA
26752	122.2	NA	77.5	ND	64.7	NA	NA	B2	55.9
26753	852.8	87.4	158.7	332.8	156	242.3	NA		NA
26756	1283.6	444.5	280.7	166.3	121.2	NA	NA		NA
26785	267.6	143.9	167.9	211.5	175.6	NA	NA	F2	200
26799	233.4	145.5	41.8	267.4	NA	NA	NA		NA
26803	52.2	111.6	89.9	51.6	52.8	NA	NA	B2	47.7
26810	1414.9	294.9	799.7	172.1	350.5	NA	NA		NA
26816	380.6	271.1	238.3	246.8	229.2	NA	NA		NA
26820	3086.2	129.3	197	79.6	123.9	NA	NA		NA
26822	425.5	567.5	229.1	1268.7	716.1	NA	NA		NA
26827	2819.2	182.8	273.6	143	268.4	NA	NA		NA
26828	172.6	278.3	136.3	143.2	163.6	NA	NA		NA
26838	273.7	264.2	95.8	291.8	144.8	NA	NA		NA
26840	935	339.3	145.1	92.8	89.5	NA	NA		NA
26843	118.3	146.9	150.5	139.8	147.4	NA	NA		NA
26849	44.9	53.6	74.2	75.3	55.8	NA	NA		NA
26859	399.2	367	337.2	464.8	440.4	NA	318.4		NA
26871	1853.8	321.1	913.2	598.4	821	NA	NA		NA
26873	149.9	138.3	42.6	228.9	184.3	NA	NA		NA
26889	3558.4	1640	164.2	333.6	333.8	NA	NA	B1	446
26893	58.1	41.7	37.3	53.6	49.1	NA	NA		NA
26894	145.5	51.4	54.1	71	77.4	NA	NA		NA
26897	58.6	38.1	46.9	45.4	48.9	NA	NA		NA
26899	46.4	79.9	138.6	71.1	91.4	NA	NA		NA
26916	446.8	219.8	129.7	254.6	371.6	NA	NA		NA
26917	80.8	300.2	162.8	146.3	219.2	NA	NA		NA
26926	104.8	95.8	144.8	53.4	40.4	NA	NA		NA
26930	141.1	160.2	159.7	NA	138	NA	NA		NA
26941	1109.6	214.2	232.8	381.4	267.8	NA	NA		NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
26944	259.6	164	306.6	124.9	349.8	NA	NA		NA
26945	984	653.2	918.4	452.8	191	NA	NA		NA
26947	221.5	445.8	262.1	286.8	508.5	NA	NA		NA
26950	320.2	205.6	150.5	91.7	182.4	NA	NA		NA
26952	43.8	35.6	109.5	28.7	219	38	NA	F1	53.5
26953	1747.7	325.5	231.5	378.5	440.6	NA	NA		NA
26956	52.4	30	96.1	78.2	20.6	28.7	NA		NA
26960	NA	97.6	101.1	143.4	NA	NA	NA		NA
26968	55.3	ND	76.7	116.1	68.5	97.5	NA		NA
26983	329.8	40.9	123.4	102.8	71.8	NA	NA		NA
26991	86.6	59.3	107.5	45.4	103.8	NA	NA		72.7
26994	2920	301.8	448.8	229.4	336.2	NA	NA		NA
26995	5564.7	227.3	582.8	NA	923.4	NA	NA	F2	589
26998	854.2	214.3	1246.7	380.8	524.8	NA	NA		NA
27000	265	298.6	215.7	207.7	150.5	NA	NA		NA
27009	718.9	106.2	775.7	49.2	72	NA	31.4		1000
27020	81	38.4	39	64.7	75	NA	NA		NA
27026	113.8	142.3	147.3	23.8	55.5	NA	NA		NA
27029	59.7	35.7	46.6	NA	41	NA	NA	B2	47.9
27037	522.7	60.7	72.8	171.3	80.7	NA	NA		NA
27040	510.9	140.5	166.4	47	200.7	NA	NA		NA
27054	73.7	27.5	52.1	32.3	58.1	NA	NA		NA
27059	62.3	75.5	64.3	116.8	167.6	NA	NA		NA
27071	1784.6	365.5	75.8	89.7	270.7	NA	NA	B1	89
27073	1359.5	247.5	580.8	492.7	149.1	NA	NA		NA
27075	689.4	299.1	92.7	249.3	176.3	NA	NA		NA
27078	8960	155.8	831.2	626	718	NA	NA		NA
27081	87	469.1	914	463.8	537.8	NA	NA		NA
27082	630	256.8	481.2	NA	616	NA	NA		NA
27087	214.5	162.1	112.8	397.7	141.5	NA	NA		NA
27090	154.4	196.1	55.8	114.1	181.9	433.3	NA		NA
27094	4419.2	114.7	217.4	124.2	57.7	NA	NA	F2	351
27098	208	54.5	65.1	118.4	29.5	NA	NA		NA
27109	56.4	43	32.9	83.2	101.3	NA	NA		NA
27114	1035.9	295.2	256	795.2	312.2	NA	NA		NA
27115	457.2	154.7	415.9	73.8	81.8	NA	NA		NA
27116	357.2	993.2	311	617.1	288.1	269.1	NA		NA
27118	1043.7	350.4	301.4	NA	NA	NA	NA		NA
27123	244.4	135.5	239.2	302.3	271.4	NA	NA		332
27132	185.2	320.8	247.8	324.3	247.9	NA	NA		NA
27136	1738.4	202.7	275.2	217.7	273.6	NA	NA		NA
27146	52.1	48.2	28.9	47.6	43.9	NA	NA		NA
27150	57.1	46.7	44.2	35.7	41.9	NA	NA	F1	451
27151	92.8	47.3	40.7	47.1	37.1	NA	NA		NA
27153	83.5	45.5	119.7	58.2	48.4	NA	41.2		NA
27155	78.1	94.3	85.5	46.6	48.2	NA	NA		NA
27162	317	56.5	69.4	72.4	46.7	NA	NA		NA
27168	90.5	67.6	39.5	45.5	47.8	NA	NA		NA
27169	96.7	18.9	23.2	46.6	156.6	NA	NA		NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
27170	97.2	58.6	46.9	47.9	34.8	NA	NA		NA
27173	96.7	82.8	38.8	31	29.8	NA	NA	B2	33.5
27174	58.7	55.8	29.4	73.6	19.2	40	NA		NA
27178	40.6	45.9	27.9	33.3	42.3	NA	NA		NA
27194	5177.6	1100	906.4	582.8	796	NA	NA	B2	888
27198	647.7	120.3	135.7	390.5	368.7	NA	NA		NA
27199	72.4	36	51.7	44.2	42.6	NA	NA		NA
27204	60	39.3	47.9	84.1	67.9	NA	NA		NA
27205	64.6	251.8	294.6	57.8	211.3	NA	NA		NA
27212	595.9	439.9	341.9	232.5	199	NA	NA		NA
27218	55.9	51.2	56.8	243	50.3	NA	NA		NA
27221	263.4	103.3	154.8	135.9	107.9	NA	NA		NA
27231	203.6	77.8	44.3	54.7	56.1	NA	NA		NA
27239	68.7	47.7	57.5	67.2	108.4	NA	NA		NA
27242	4467.2	321.8	345.2	472	475.2	NA	NA		NA
27244	79.1	47.7	55.9	64.3	57.1	NA	NA		NA
27246	675.7	145	119.8	196.1	219.5	NA	NA		NA
27248	150.4	45.3	57.8	50	37.8	NA	NA	B2	36
27249	138.3	121.6	199.3	51.1	70.6	NA	NA		NA
27254	2326.4	330.3	320.3	941.4	863	NA	NA		2240
27258	173.7	44.1	39.6	69.8	50.8	NA	70.3		150
27259	116.8	168.9	52.6	51.5	76.2	NA	NA	B2	56.4
27260	101	52.8	78.4	36.1	41.9	NA	NA		74.1
27276	171.7	145.2	82.5	25.6	48.6	NA	NA		NA
27281	1280	263.6	297.4	284.8	214	NA	NA		NA
27283	55	36.6	34.8	43.2	ND	NA	NA		NA
27288	152.5	756.7	388.3	323.1	298.7	NA	NA		NA
27293	1106.3	313.5	261.5	228.6	345.6	NA	NA		NA
27298	465	126.4	202.7	293.2	352.2	NA	NA		NA
27300	860.2	71.7	92	147	140	NA	NA		NA
27302	1733.9	109.1	187.3	NA	NA	141.7	NA		NA
27310	4151.7	160	507.9	447.6	184.1	NA	NA	F2	492
27316	1306.6	101.2	151.4	326.4	223.8	NA	NA		NA
27322	101	36.8	38	32	34.4	NA	NA		136
27324	900	406.8	299	984	508.8	658.8	NA		NA
27326	60.6	43.8	36.8	30.5	34.7	NA	NA		NA
27327	658.7	655.4	NA	938.6	387.6	NA	NA		NA
27328	236.7	116.8	96.1	86.6	159.9	NA	NA	B1	76.2
27329	124.5	74.3	92.3	62	100.8	NA	NA		NA
27332	3314.5	291.1	1707.4	458.2	854	NA	NA		NA
27346	38.9	58.8	54.2	34.9	39	NA	NA		NA
27348	2219.2	735.2	1009.6	874.4	661.2	NA	688		NA
27353	37	43.8	72.9	59.1	NA	NA	NA		NA
27362	ND	ND	68.1	47.8	43.3	NA	54.1		NA
27373	216	68.7	66.3	70.6	69.4	NA	NA		NA
27380	111.9	84.2	91.8	86.8	54	NA	NA		NA
27383	89.5	35.8	37	37.7	57	NA	NA		NA
27385	78.8	181.7	200	72.6	243.5	NA	NA		NA
27386	134.4	72.1	109.3	35.6	48.8	NA	NA		NA

Appendix A
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Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
27387	55.7	48.7	88.4	68.7	101.5	NA	NA		NA
27388	412.6	64.4	68.5	157.9	97.7	NA	NA		NA
27390	1160	369	690.8	809.6	428.8	NA	NA		NA
27394	149.1	39.5	82	32.6	36	NA	NA	B2	39.6
27398	1580	185.8	399.3	388.4	470.2	NA	NA		487
27408	86.7	43.4	50.6	47.6	34.7	NA	NA		NA
27409	73.3	47.3	89.6	52.2	53.1	NA	39.1		NA
27411	73	36.9	58.9	72.8	NA	NA	NA		NA
27414	38.3	69.2	47.5	39.1	60.1	NA	NA	B2	68.8
27416	735.9	297	270.6	519.6	305.8	NA	NA		NA
27424	338.9	96.9	117.3	82.8	204.6	NA	NA	F2	137
27425	63.4	84.9	75	67.5	81.9	NA	NA		NA
27428	123.4	58	75.7	48.7	50.4	NA	NA		NA
27429	69.5	NA	73	42.5	66.6	NA	NA		NA
27439	859.6	437.3	23.8	226.1	243.9	NA	NA		NA
27444	149.8	307.6	176.1	93.9	173.9	NA	NA		NA
27448	52.4	49.8	55.6	98.7	83.4	NA	NA	B2	94.2
27450	52.3	55.8	32.2	60.3	53.2	NA	NA		NA
27454	42.9	47.7	62.1	88.2	66.4	NA	NA		NA
27456	80	93.1	95.5	87.3	61.3	NA	NA		NA
27460	1826.5	650.7	289.9	449.2	503.2	NA	NA		NA
27476	7000.9	490	379.2	152.7	1077.3	NA	NA		NA
27478	78.4	56.2	56.2	87.7	67.2	NA	NA	B1	150
27479	104.3	330.8	134.6	171.9	104.2	NA	NA		NA
27485	33.8	243.3	53.6	84.8	42.5	NA	NA		NA
27496	340.8	33.8	50.4	141.2	37.8	NA	NA		NA
27503	174.5	83.7	78.2	50.7	56.2	NA	NA		NA
27507	2409.9	582.6	712.2	2820.8	2488.3	NA	NA		NA
27508	1480	99.9	401.4	193.6	139.2	NA	NA	F1	141
27510	75.8	84.1	34.1	52	68.9	NA	NA		NA
27511	249.3	47.5	29.5	195.6	62.7	NA	NA		NA
27513	125.4	22.7	67.9	52.9	24.4	NA	NA		NA
27515	83.9	47.9	75.4	46.4	38.7	NA	NA		NA
27517	191	80.9	42.1	78.4	211.1	NA	NA		NA
27528	1241.4	769.2	130.2	515.2	291.5	NA	NA	B1	631
27542	113.3	80	109.8	103.8	102	NA	NA	F1	116
27546	60.6	61.4	47.1	62	46.5	NA	NA	B2	69.6
27548	93.7	53	45	33.5	33.3	NA	NA		NA
27551	167	44	81.7	52.8	82.8	NA	NA		NA
27553	958.5	103	701.5	257.7	370.5	NA	NA		NA
27559	3219.2	344	444	1189.6	555.6	NA	358.2	F1	436
27571	2702.8	237.5	828.6	302.2	292.1	305.3	NA	Garden	391
27578	1400.3	572	768.1	108.8	217.5	NA	237.5		NA
27587	705.6	185.1	159.9	177.1	211.6	NA	NA		NA
27593	86.2	77.7	195.8	50.2	24.9	NA	NA		176
27596	127.7	118.9	57.4	118	101.9	NA	NA		NA
27603	1260	587.2	579.6	912	842.4	NA	NA		NA
27609	147.2	53	51.6	86.4	38.3	NA	NA		NA
27614	70.9	105.8	76.2	77.8	74	NA	NA		NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
27617	71.6	51.2	21.5	44.1	51	NA	NA		NA
27620	115.1	114.8	168.2	90.7	108.1	NA	NA		NA
27627	1125	331.8	299.1	709.5	220.7	NA	NA		NA
27628	549.5	680.7	293.4	267.7	253.9	NA	NA	B2	268
27629	1262.5	163.9	108	68.9	48.7	NA	NA		NA
27631	88.6	67.2	90.9	128.9	146.6	NA	NA		NA
27638	191.8	47.4	50.5	69.3	50.8	NA	NA		NA
27645	293.8	109.9	263	109.6	150.8	NA	NA		NA
27647	67.3	57	49	68.2	54.6	NA	NA		NA
27650	1320	1020	449.2	NA	643.2	NA	NA		NA
27663	179.4	91.1	108.4	67.2	117.2	NA	NA		NA
27665	74.8	116.9	47.4	28.8	27.7	NA	NA		NA
27669	101.9	321.2	96.6	452.8	135.6	NA	NA	B1	605
27672	102.7	35.9	33.5	35.6	47.5	NA	NA		NA
27678	NA	32.9	32.2	30.6	36.6	NA	NA		NA
27684	47.8	51.3	65.2	46.4	35.9	NA	NA	B2	40.1
27685	415.2	83.2	106.2	119	107.2	NA	NA		NA
27687	152.2	62.4	21.6	33.8	777.7	NA	NA		145
27688	3466.2	389.1	932.8	1409.7	831.8	NA	NA		NA
27699	2893.2	381.2	247	670.7	378.2	NA	NA		NA
27706	891.7	140.8	203.7	308.7	94.4	NA	NA		NA
27708	262.2	304.8	326.4	235.5	238.2	NA	NA		NA
27723	40.2	146.5	28.5	25	32.3	99.8	NA	Garden	105
27732	57.2	58.4	ND	32.7	47.6	NA	NA		NA
27741	2068.8	390	710	387.6	612.8	NA	NA		NA
27744	1848.9	1004.3	697.9	675.5	531.7	NA	NA		NA
27746	2039.9	269.3	438.5	NA	522.8	NA	NA	F2	383
27750	59.2	71.1	52.7	38.9	70.4	NA	NA	B1	58.5
27779	1073.5	77.4	ND	395.6	97.2	NA	NA		NA
27782	883.1	260.3	267.5	257.3	300.5	NA	NA		NA
27786	79.9	49.5	78.5	70.2	28.4	NA	NA		NA
27792	NA	207.1	222.3	354.7	165	NA	NA	F1	281
27803	86.2	128	NA	38.3	92.3	58.9	NA	Garden	69
27805	956	338	782	190.4	469.2	NA	NA		NA
27812	542.8	210	188.5	54.2	358.6	247.2	NA		NA
27813	58.6	55.4	46.8	NA	69.9	NA	NA		NA
27816	69.5	207	246.6	140.2	103.2	NA	NA	F1	253
27830	764.4	142.8	261	117.8	140.2	NA	NA		NA
27833	989	114	215.4	681.2	485.1	NA	NA		NA
27837	2801.8	577.5	552.8	517	616.7	653	NA	Garden	826
27842	1098.7	260	631.7	833.8	743.5	NA	NA		NA
27846	2767.6	393.9	242.2	407.9	617.2	NA	NA		2680
27860	246.8	695.2	199.5	255.4	193	1029.6	NA	Garden	332
27863	1629.6	409.6	471.6	317.4	403.8	NA	NA		NA
27865	109.1	63.9	126.3	111.9	69.1	29.6	NA		NA
27866	88.7	76.3	47.2	76	83.3	NA	NA	B1	80.6
27867	90.8	407.9	104.3	347.1	331	NA	NA		NA
27877	534.3	120.3	169.9	845.2	220.8	NA	NA	B1	1230
27890	268.2	49.3	ND	487.2	114.8	NA	NA		NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
27891	248.7	362.4	458.4	388.1	NA	NA	NA		NA
27892	1969.8	167.4	132.4	352.5	193.3	NA	209.5		3550
27896	1759.2	235.3	147.8	150.3	256.8	NA	NA		NA
27898	823.7	274.3	454.1	459.4	407.6	NA	NA	F2	622
27902	36.3	46.5	34.1	33	36.5	NA	NA		NA
27903	413.8	190.6	243.2	231.3	187.7	NA	NA	F2	312
27908	83.1	37.1	53.5	30.2	33	NA	NA	F1	34.4
27914	962.4	88.6	83.1	215.2	222.2	NA	NA		NA
27919	184.1	385.1	355.1	356.2	456.3	NA	NA		NA
27928	3308	626.9	397.5	471.9	251.2	NA	NA		5460
27932	85.7	35.6	36.6	33.2	27.4	NA	33.2		NA
27935	1021.7	282.5	496	207.7	838	NA	NA		NA
27942	77.7	38.4	61.9	49.3	39.1	NA	NA		NA
27943	962.7	80.5	202.2	580.5	3207.5	NA	NA		NA
27944	1720	579.2	433.6	327	509.2	NA	NA	B2	628
27947	24.2	34	44.6	70.3	41.4	NA	41.3		NA
27950	3299.7	174.6	203.2	141.1	230.5	NA	NA		NA
27959	1632.6	731.3	633.7	568.8	546.6	NA	NA		NA
27965	264	136.1	66.8	912.8	253.4	NA	NA		337
27988	2019.2	208.2	302.2	86.4	100.2	44.7	NA		NA
27993	1264.7	1360.2	33.8	248.7	161.6	NA	NA		NA
27999	1672.1	725.7	935	797.3	1085.2	NA	NA	F1	660
28001	2054.6	665	579.5	795.3	904.4	NA	NA		NA
28005	101.2	55.3	77.6	52.9	87.5	NA	NA		NA
28006	534.4	419.2	219.6	192.5	340.6	230.6	NA		NA
28007	963.7	88.1	148.9	81.9	64.7	NA	NA	B1	76.8
28010	5883.1	248.9	522	1087.8	166.5	NA	NA	F1	247
28032	53.5	53	52.5	69.4	92.8	NA	NA		NA
28035	912	258.6	199.8	323.2	252.8	NA	NA	B1	376
28041	1889.6	211.4	150.1	430.4	339.4	NA	301.2		NA
28051	116.4	58.9	79.7	53.9	34.8	NA	NA		NA
28057	1009.6	85.7	171.4	278.8	359	NA	NA		NA
28058	104.3	41.2	86.1	86.5	105.9	NA	NA		NA
28059	219.4	170.3	290.6	160.9	163.6	NA	NA	F1	106
28060	962.4	377.8	505.2	909.6	766.8	NA	NA	F2	503
28069	166.2	51.2	44	61.3	72.6	NA	NA		NA
28081	781.9	328.2	228.8	314.7	594.7	NA	NA		NA
28084	2028.8	464.8	157.6	454	653.2	NA	NA		NA
28111	2726.4	390.6	299.3	248.1	789	NA	NA		4690
28112	ND	24.7	ND	40	ND	NA	NA		NA
28113	1520.4	232.5	360.9	NA	472.6	NA	NA		NA
28114	2081.8	NA	196.7	NA	166	NA	NA		NA
28138	3722.7	160.4	314.7	100.3	716.7	361.4	NA	B2	699
28146	39.6	95.7	102.2	98.7	146	NA	NA		NA
28152	411.9	159	439.7	211.3	575.2	NA	NA		NA
28156	432.9	127.5	196	NA	103.9	NA	NA		NA
28159	81.9	74.8	54.1	53.1	58	NA	NA		81.5
28161	449.8	985.4	2322.6	3182.9	255.1	NA	NA		NA
28165	2797.5	254.6	400.9	1473.2	458.7	NA	NA		3020

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
28166	2089.6	456.8	203.2	139.1	327.4	NA	NA		NA
28168	1842	694	270.5	890	330	NA	NA	F1	1140
28169	3477.6	76.3	207.5	232.9	187.5	NA	NA		NA
28172	1063.2	248.9	177.9	131.5	99.3	NA	NA		NA
28177	6053	674.6	212.4	287.6	213.4	NA	NA		NA
28193	302.9	234.5	182.4	277.7	503.4	NA	NA		NA
28200	802.4	181.3	210.6	732.8	642.8	NA	NA		NA
28213	634.6	NA	NA	1089.1	726.1	NA	NA		NA
28214	1300	281.2	NA	229.6	266.8	172.9	194.4		NA
28217	108.3	64.4	68.5	91.8	58.6	NA	NA		NA
28232	4248.2	266.4	1026.3	892.5	1984.9	NA	NA		6160
28233	1948.8	637.6	275.2	390	500.8	NA	NA		NA
28237	642.4	103.3	153.4	200.7	253.6	202.7	NA		NA
28247	284.5	212.4	225.7	NA	NA	NA	NA		NA
28248	1572	424.1	857.3	645.5	806.4	NA	NA		NA
28251	1340.6	398.3	545.4	277.2	607.5	NA	NA		1960
28258	520.1	264.7	181.8	225.4	225.1	NA	NA		NA
28261	941.3	201.7	306.7	267.9	371	NA	NA		NA
28264	1645.3	265.9	256.9	384.9	373.4	NA	NA		NA
28265	359.4	290.4	149.1	260.6	199.3	NA	NA		NA
28266	2388.8	338.8	410.4	1140	877.6	NA	NA		NA
28268	948.8	418.2	537	443.4	490.9	NA	NA		NA
28269	6916.6	238	232	486.4	351.9	NA	NA		NA
28272	1530.5	241.6	549.7	82.6	505.5	NA	NA		NA
28286	523.7	137.1	170.1	187.3	201.9	NA	NA		NA
28296	709.6	137.2	144.4	296.2	263.4	NA	NA	F1	150
28297	320	190.7	144.8	92.1	122.9	NA	NA		NA
28318	2186.5	529.3	1375.1	386.9	238.7	NA	NA		NA
28330	319.2	141.3	141.1	NA	115.1	NA	NA		NA
28332	1332.3	1365	705.4	1014.3	1056.3	NA	NA		NA
28348	7694.6	345.1	496.8	543	202.6	NA	NA		NA
28352	1271.5	612.1	352.5	690.3	972.3	NA	NA		NA
28353	1220	245.4	175.6	200.9	302.8	225.8	NA		3420
28359	3868.3	279.3	120.8	76.1	159.4	235.1	NA		NA
28362	405.2	125.9	155.4	134.4	186.3	NA	NA	B1	345
28379	363.1	265.4	212.6	409	397.7	NA	NA		NA
28380	289.8	180.4	214.8	1049.6	1180	NA	NA		NA
28382	786	293	538.4	366.6	197.8	NA	NA		NA
28385	274.5	174.8	152.6	162.3	274	NA	NA		NA
28390	225.6	146.3	367.2	298	280.2	NA	NA		NA
28400	309	96.5	127.5	1060	287.8	NA	NA		NA
28407	42.8	62	43.7	24.9	24.7	NA	NA		NA
28413	526.6	129.8	129.7	233.8	114.8	NA	NA		NA
28416	252.1	276.3	320.2	177.5	425.1	226.5	NA		NA
28420	684.8	131	127.4	78.4	242.2	NA	NA		NA
28424	1620	271.2	316	257.6	786.8	NA	NA		NA
28429	1720.8	154	136	122.7	48.4	NA	NA	B2	74.1
28432	103.5	46.3	99.1	136.9	133.3	NA	NA		NA
28437	362.7	123.1	270	114.1	214.7	NA	NA		NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
28440	245.2	358.8	321.4	420	388	NA	NA		NA
28447	4648.4	384.1	652.6	372.6	1019.6	NA	NA		6440
28448	807.3	536.9	243	703.8	269	NA	NA		NA
28456	431.6	236	216.2	668	352.4	NA	NA		NA
28461	443.4	170.9	127.6	273.5	357.1	NA	NA		NA
28468	366.2	146.9	104.1	275	262.8	NA	NA		NA
28470	310.2	175.4	236.6	145.3	191.5	NA	NA		NA
28471	756.7	157.6	220.2	217.4	202.9	NA	NA		NA
28473	99.2	122.3	122.3	165.2	209.1	NA	NA		NA
28475	457.7	145.1	122.5	194.1	NA	NA	NA		448
28477	567.2	63.4	102.9	207.9	243.3	NA	NA		764
28479	193.5	106.1	91.9	81.5	99.4	NA	NA		NA
28487	451.6	1018	286.6	576.9	1080.1	NA	NA		NA
28494	1077.5	1188	834.8	1015.2	1311.6	NA	NA		NA
28506	84.8	131.7	64.8	49.9	111.4	NA	NA	F2	76.5
28511	389.2	245.4	337	546.8	603.5	NA	NA		NA
28513	101.8	238	90.3	82.8	84.5	NA	ND		NA
28521	1466.9	405.5	284	515.6	643.7	NA	NA		NA
28533	256.6	110.3	140.9	105.1	227.7	136.3	NA	Garden	153
28539	224	56.9	186.5	104.1	224.7	NA	NA		NA
28547	1332.7	75.4	98.1	85.9	237	NA	NA		NA
28554	209.5	140.5	104.3	272.6	138.9	NA	NA		NA
28555	68.3	60.1	52.7	110.7	80.9	NA	NA	B1	139
28565	134.1	117.2	66.7	127.9	72.2	NA	NA		NA
28593	1167.3	260.4	178.3	354.8	513	NA	NA		NA
28595	1372.1	428.1	491.7	530.5	281.4	NA	NA		NA
28599	1808.7	416.4	146.3	NA	NA	90.2	NA		NA
28604	82.6	37.6	51.9	103.1	108.9	93.6	NA		NA
28605	44.1	88.2	75.7	206.4	138	NA	NA		NA
28607	287.3	166.1	173.2	578.1	138.9	NA	NA		NA
28609	2612.4	538.1	164.1	395.6	101.2	NA	NA		NA
28613	61.5	101.7	101.7	128.1	124.8	NA	NA		NA
28626	392.8	85.1	78.8	122.2	265.4	NA	NA		NA
28628	101.6	129.5	83.9	240.8	107	NA	NA		118
28633	356.3	268.6	224.3	281.8	157.4	NA	NA		NA
28635	74.2	73.7	ND	ND	ND	NA	NA		NA
28637	127.3	43.6	65.9	60.5	64.9	NA	88.1		NA
28642	202.9	110.6	79.8	80.9	91.4	NA	NA		NA
28643	179.9	168.8	385.8	64.9	93.9	NA	NA		NA
28660	740.4	600.8	304.6	1549.6	474.4	NA	NA		NA
28668	1367.8	156.3	104.6	232.4	245.3	NA	NA	B2	282
28674	878.4	640.8	796.8	125.4	338.4	NA	NA		NA
28675	580.5	174.3	129.5	205.5	124.3	NA	NA		911
28686	536.4	256.4	363.2	244.6	392.2	NA	NA	F2	372
28687	906.6	452.1	392.8	643.8	429.5	NA	NA		NA
28692	115.9	81.2	61.3	70.6	95.4	NA	NA		95.7
28719	782	412	348.2	759.2	631.2	NA	NA		NA
28731	8076.6	447.9	564.6	2351.3	606.4	503.7	NA		NA
28740	208.4	ND	69.9	ND	76.5	ND	NA		NA

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Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
28754	328.8	277.8	183	588.4	266.6	NA	NA		NA
28757	922.2	290.8	328	497.6	234.9	167.2	NA		NA
28761	1006.1	177.1	403.7	198.6	278	NA	NA	F2	409
28768	113.3	69.9	56.9	ND	ND	NA	NA	B2	52.3
28770	281.8	175	265.4	NA	161.7	NA	NA		NA
28771	452.4	136.4	163.9	209.4	161.1	NA	161.5		NA
28772	3614	83.2	112.3	418.8	74.4	282.3	NA		NA
28773	ND	ND	24.4	96.5	93.1	NA	NA		NA
28783	296.6	178.4	284.6	376.6	219.6	NA	NA		NA
28784	4508.8	142.8	166.6	76.2	120	NA	NA		NA
28790	433.6	106.3	212.8	170.9	175.8	NA	NA		NA
28793	428.4	349.4	187.1	405.2	401.4	NA	NA		NA
28796	323.8	176.8	185.1	113.9	115.7	NA	NA		553
28800	244.6	195.4	77.2	198.8	286.8	NA	NA		331
28801	308	231.4	325.3	239.8	447.3	NA	NA		NA
28804	1095.7	203.7	217.3	188.3	705.7	NA	NA		NA
28810	298.3	175.1	102.1	346.1	378.6	NA	NA		435
28812	510.8	130.2	117.8	85.2	149.4	NA	166.4	Play	129
28813	865.6	288.6	218.2	680.4	987.2	NA	NA		NA
28815	47.7	125	131.9	607.6	574.4	NA	NA	B1	1010
28818	339.9	81.8	138.4	269.3	316.8	NA	NA		NA
28822	196.3	85.8	123.6	NA	NA	NA	NA		NA
28825	255.6	180.6	95.8	305.5	151.8	NA	NA		NA
28827	632.6	223.9	384.9	397.4	559.7	NA	NA	B1	2.14
28828	652.4	123.4	NA	171.6	NA	NA	NA		NA
28832	1167.3	395.7	344.2	1055.6	642.4	NA	NA		NA
28834	54.8	76.8	113.3	140.4	72.3	NA	NA		NA
28844	158.9	172.3	114.5	80.8	147.1	NA	NA		NA
28849	26.2	44.5	69.2	114.1	62.8	NA	NA		NA
28853	58.1	103.1	70.4	57.5	79	NA	NA		NA
28854	125.2	69.4	139.9	89.1	54.1	NA	NA		NA
28856	522.2	407.2	114.3	337.6	201.8	NA	NA	B1	348
28857	718.6	229	206.7	474.5	392.4	NA	NA		NA
28859	3274.1	535.6	562.8	666.1	665.4	NA	NA		NA
28881	916.7	515.8	1001	259.9	1277.9	177.5	NA		NA
28896	491.9	702	217.9	795.8	130.2	NA	NA		NA
28900	195	104.5	159.5	636	243.9	NA	NA	B1	922
28901	331	95.9	274.6	192.3	217	NA	NA		NA
28906	488.4	277.8	256	275.2	242.6	NA	NA		NA
28913	431.3	72.9	119.7	116.1	116.3	NA	NA		NA
28915	1026.4	382.1	429	879.7	725.2	NA	NA	F2	490
28918	2068.8	198.3	736.4	514	706.8	NA	NA		NA
28921	1509.4	429.9	846	1381.4	2325.2	NA	NA		NA
28926	1049.6	332.8	224.4	410.8	383.8	NA	NA		NA
28929	964	331.8	279.6	346.4	328.4	NA	NA		NA
28937	8343.1	100.3	208.5	192.1	90.5	NA	1157.9		NA
28951	81.3	157	78.7	117.1	52.3	NA	NA		NA
28952	816.8	245.8	301.6	1720	255.2	NA	NA		NA
28960	245.1	203.9	103.4	186.9	123.4	NA	NA		NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
28965	1668.8	743.2	763.2	512.4	220	NA	NA		NA
28968	128.6	106.2	NA	98.5	107	NA	NA		NA
28969	94.6	94.9	71.8	70.1	60.3	NA	NA		NA
28971	1589.6	465.6	502.8	573.2	1220	NA	NA		NA
28972	593.2	488.7	257.7	157.6	100.3	NA	NA		644
28979	1325.4	181.1	178.7	91.4	220.7	NA	NA		NA
28982	2486.8	663.4	1098.3	882.4	4602.7	NA	NA		NA
28985	386	124.2	66.1	71.3	71.1	NA	NA		NA
29005	NA	NA	631.7	NA	792	NA	NA		NA
29008	549.6	416.8	166.7	527	201.4	NA	NA		NA
29024	408	697.6	473.6	389.8	366.2	NA	NA		NA
29025	146	96.7	138.2	82.7	68.9	NA	NA		NA
29029	1348	484.8	336.5	412.1	989.3	NA	NA		NA
29032	1079.8	736.4	603.6	1134.6	462.3	NA	NA		NA
29056	1921	159.4	350.9	152.5	115.8	NA	NA		NA
29074	454.7	517.2	332.2	792.3	358.1	NA	NA		NA
29076	1723.7	650.5	278.8	869.6	973.7	NA	NA	F2	390
29081	385.4	214.4	353	281.2	345	324.4	NA		NA
29082	30.2	45.4	71.1	32.4	84	NA	NA	B2	77
29083	133.5	67.8	207.4	226	151.1	NA	535.6		NA
29085	49.1	114.9	39	31	63.3	NA	NA		NA
29098	1355.5	634.6	901	85.2	236.8	NA	NA		NA
29099	326.8	143.3	193.2	211.2	95	NA	NA		NA
29100	3331.1	412.9	841.9	875.4	2490.4	NA	NA		NA
29107	677.4	310.4	224.4	120.3	351.2	NA	NA		NA
29108	59.9	77.1	83.4	51.6	41.3	NA	68.9		NA
29111	44.3	60.4	59.2	119	84.6	NA	NA		62.1
29112	7667.8	146	167.9	134.1	631.7	NA	NA		NA
29114	168.9	155.7	151	182.9	213.6	NA	NA		NA
29115	2299.2	561.6	417.6	1209.6	1908.8	NA	NA		4960
29116	221	56.9	112.7	414.8	48.5	NA	NA		NA
29119	183.2	91.5	75.4	74.5	277.3	NA	NA		NA
29123	528.2	108.2	136.6	98.9	388.1	146.9	112.8		NA
29124	1383.9	79.9	58.8	152.8	264.3	NA	NA		NA
29128	3136.6	299	157.4	244.7	213	NA	NA		NA
29133	398.6	133.2	90.6	154.2	288	NA	NA		NA
29138	243.4	107.7	197.4	123.4	140.5	NA	NA		NA
29141	161.6	62.9	90.6	84.1	86.1	NA	NA		NA
29144	121.1	71.4	71.1	221.8	115.2	NA	NA		NA
29146	NA	112.6	NA	186.8	154.6	196	NA	Garden	219
29149	392.7	129.7	102.1	244.2	176	NA	235.5		NA
29154	454.8	473.6	237.6	128.8	151.4	NA	NA		NA
29160	233	119.2	72.7	111.7	65.2	NA	NA		NA
29161	420.3	723.2	1000.8	899.2	651.1	NA	NA	B2	860
29162	41.1	NA	144.4	107	705.5	NA	NA		NA
29168	74.6	47.8	59.4	60.5	82	NA	NA		NA
29171	159.4	39.5	59.3	83.8	81.6	NA	NA		135
29176	126.8	140.8	121.2	79.2	93.7	NA	NA		NA
29179	239.6	35.1	38.9	96.9	46.2	NA	NA		NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
29184	107.5	157.5	61.8	149.3	131.6	NA	75.6		NA
29186	45.1	61.6	56.5	52	164.4	NA	NA		NA
29193	705.2	864	516.5	403.3	385.4	NA	NA	F1	1110
29201	157.5	91.4	ND	125.9	80.6	NA	93.6	F1	102
29208	163.7	84.3	104.1	88	68.2	NA	NA		NA
29209	1840	243.8	222.4	221.6	267	NA	NA	B1	255
29211	65	65.7	46	139.2	97.9	NA	NA		NA
29219	129.3	108.3	135.8	182.2	105.7	NA	NA		NA
29223	893.3	151	173.5	235.2	146.5	NA	NA		NA
29232	1289.6	379.6	264.6	2308.8	1469.6	NA	NA	F2	1750
29243	76.2	29.9	56.2	65.2	44.3	NA	NA	F1	43.9
29246	827.6	313.5	164	132.3	326.9	NA	NA		NA
29250	470.4	115.8	126	288.4	231	NA	NA		NA
29252	586.9	285.1	116.4	150	160.9	NA	NA	F1	342
29261	79.4	129.2	185.5	124.3	135.6	NA	NA		NA
29262	64.6	74.2	96.3	71.6	112.3	NA	NA		NA
29263	481.3	93.4	117.3	166.9	181.3	NA	NA		NA
29296	1667.3	602.1	975.9	484.5	332.4	NA	NA		NA
29299	30	83.7	50.9	129	105.9	NA	NA		NA
29310	1249.6	605.6	548	466.4	817.6	NA	NA		NA
29318	167.6	101.3	46.4	55.4	67.3	NA	65		NA
29325	389.6	216.3	202.1	325.2	157.7	NA	NA		NA
29331	108.1	107.5	131	114.3	201.1	NA	NA		NA
29334	547.2	134.3	181.9	124.2	190.9	NA	NA		NA
29335	325.6	144.8	92.3	352.5	388.3	NA	NA		368
29342	113.4	151.4	203.5	201.3	518.5	NA	NA		132
29344	922.4	76.5	119.2	109	246.4	NA	NA		NA
29346	118.1	258.8	237.4	166.4	267.9	NA	NA		NA
29348	290.3	381.8	82.6	180.6	825.6	NA	NA		NA
29359	3638.4	451.6	255.6	770.4	748.4	NA	NA		NA
29366	93.5	36.8	63.8	60.6	64.2	NA	NA		NA
29368	2699.2	117.8	260.4	121.6	220	NA	NA		NA
29370	596.1	134.8	110.1	56	158.3	NA	50.8		NA
29378	179.9	107.6	90.2	103.9	90.9	NA	NA		NA
29385	871	637.5	411.7	299.5	295.1	NA	NA		NA
29397	166.3	215.9	322.7	86.9	307.4	NA	NA		NA
29406	192.8	65.8	100.4	442.7	552.2	NA	NA		NA
29407	2992.7	1062	1222.7	795.5	1732.9	NA	NA		3840
29411	108.9	196.2	194.1	151.3	200.6	NA	NA		NA
29413	269.3	143.7	63.5	405.6	307.7	NA	NA	B1	483
29418	801.8	162.5	103.7	328.1	458.3	NA	NA		NA
29425	270.5	186.2	NA	228.6	144.7	NA	NA		NA
29433	345	327	398.2	233.2	232	NA	NA	F1	419
29434	179.3	85.1	65.8	91.2	136.7	NA	NA		NA
29451	35.8	37.5	60.8	97.3	NA	NA	NA		NA
29453	449.2	57	216.8	229.4	31.1	NA	NA		NA
29455	209.7	305.7	194.1	356.7	293.6	NA	NA		NA
29459	600	356.8	290.4	613.2	258.6	NA	NA		NA
29462	725.2	176.3	130.8	169.2	252.2	NA	NA		NA

Appendix A
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Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
29464	837.6	287.8	555.2	394.6	358.6	NA	NA		NA
29465	249.6	285.7	414.3	336.5	575.3	NA	NA		NA
29473	1119.5	558.3	61.9	49.8	NA	NA	NA		NA
29477	509.9	197.2	371.1	377.3	349.6	NA	NA		NA
29479	1167.1	310.7	464	287.9	206.9	NA	NA		NA
29483	1739.2	162.3	170.7	105.7	1289.6	NA	NA		NA
29486	834.4	75.3	165.8	74.3	79.3	NA	NA		NA
29495	972	161.1	143.3	375.4	305.6	NA	NA	B1	433
29497	190.4	80.5	70	90.3	121	NA	NA	B2	148
29502	2198.8	53.3	118.5	284.4	115	NA	NA		NA
29504	1507.3	139.1	176.7	192.9	222.1	NA	NA		NA
29507	1039.9	229.5	505.8	367.4	731	NA	NA		NA
29512	3507.2	518	187.9	310.2	NA	NA	NA		NA
29515	863.2	214.2	683.6	457.6	294.2	NA	NA		NA
29518	1816.1	301.8	385.4	966.3	392.3	NA	NA		NA
29521	1105.2	288.3	443	1395.8	574.4	NA	NA		NA
29523	550.9	166	373.3	411.2	493.6	NA	NA		NA
29525	1404.3	164.3	157.7	381.4	270.9	207.6	NA		NA
29527	1655	253.7	167.6	955.6	390.8	NA	NA		NA
29532	8000.3	290.4	169.2	NA	1344.8	NA	NA		NA
29539	205.9	211.3	227.7	183.7	865.3	NA	NA		NA
29540	7847	213	151.3	574.2	296.5	NA	NA		11000
29553	2412.6	598.4	995.4	767.8	1883.8	NA	NA		NA
29561	1185	200.1	107	210.1	168.2	NA	NA		NA
29567	98.9	127.4	63.3	81.1	54.2	NA	NA		NA
29568	41.4	123	167.4	72.8	97.3	NA	53		NA
29569	365.6	76.6	284.8	181.3	119.6	NA	NA	F1	71.2
29570	276.1	47.5	43.9	NA	136.1	NA	NA		NA
29571	1309.6	227.4	187.7	439.6	167.9	NA	NA		NA
29572	510.2	352.8	296.9	368.5	148.6	NA	NA	F1	420
29573	317.2	157.1	208.9	834.8	280.6	NA	NA		NA
29574	747.5	57	115	606.3	94.1	NA	NA		1020
29577	125.6	85.5	62.8	58.9	75.2	NA	NA		NA
29580	738.1	124.4	82.2	296.8	500.7	632.5	NA		NA
29583	829.2	229.4	324.1	590.4	325.5	NA	NA		NA
29600	488	92.9	259.6	163.2	187.1	108.4	NA		NA
29602	92.2	217	117.8	232.7	198.8	NA	NA		NA
29604	185.8	98.7	135.2	72.1	82.4	NA	348.5		NA
29606	309.7	397.9	NA	260.7	238.2	NA	NA		NA
29611	794.4	250.6	181.5	135.2	223.4	NA	NA	B2	312
29619	2988.8	811.2	352.6	294.8	435.6	NA	NA	B2	896
29623	1748.8	200.4	325	337.8	261.6	NA	NA	F1	106
29624	542.4	212	733.9	982.1	655.6	NA	NA		NA
29632	32.2	27.2	80.4	63.6	243	NA	NA		NA
29636	128	1054	369.7	434.4	1041.1	NA	NA		NA
29639	929.9	483.2	663.7	755.1	596.4	NA	NA	F2	811
29650	2809.6	285.6	277	305.8	345.8	NA	433.2		NA
29654	644	633	508.6	215.4	239	NA	NA		NA
29655	621.3	172	93	561.4	244.9	NA	NA		NA

Appendix A
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Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
29668	127.5	97.7	117.1	67.2	61	NA	NA		NA
29669	2345	1220.4	465.5	542	372	NA	NA		NA
29673	3688.9	103.1	136.1	NA	375.5	NA	NA		NA
29675	1160	155.5	284.4	261.2	264.8	182.9	NA		NA
29688	101.3	89.1	120.7	61.4	113.2	NA	NA		NA
29701	707.6	250	181.7	329.4	639.2	NA	NA		NA
29706	2443.9	242.1	660.1	350	419.5	NA	NA		NA
29711	777.9	931.8	681	1031.7	766.9	NA	NA		NA
29715	31.1	159.8	90.6	22.4	20.1	16.3	NA	F1	173
29719	3019.2	307	275	606.8	328.2	NA	NA		NA
29720	729.1	152.1	420.7	171.3	144.6	NA	NA		NA
29740	3249.6	244.2	284.4	146.9	273	NA	NA		NA
29741	1248.9	301.2	131.9	492.1	426.4	119	NA		NA
29746	1089.6	296.4	353.2	651.2	860.8	NA	NA		1190
29747	1779	847.6	346	570.4	503	NA	NA		NA
29748	827.4	616.3	507.9	946.3	433.3	NA	NA		NA
29749	2841.6	1038.7	490.1	1238.3	890.6	NA	NA		NA
29760	1116.4	80.7	148.6	117.6	107.7	NA	NA		1580
29761	2598.2	754.2	196.3	1180.7	1047.2	NA	NA		NA
29764	430.1	608.2	185.9	96.1	132	177.5	NA		NA
29768	807.6	356.4	284.2	648.8	1020	NA	NA		NA
29770	673.7	149.3	255.6	236.8	176.8	NA	NA		NA
29773	763.9	385.8	396.6	172.9	234.2	214.1	NA	Garden	150
29781	476.5	491.6	271.6	183.8	180.9	NA	NA		NA
29784	420.5	48.7	87.9	186.9	192.6	NA	NA		NA
29789	1017.4	747.7	856.1	338.7	406.9	NA	217.2		NA
29797	1177.3	799.5	319.1	580	553	NA	NA		NA
29798	734.6	59.9	75.4	NA	105.9	176.5	NA		NA
29800	52.4	109.1	153.8	115.8	134.1	NA	NA		NA
29802	156.8	NA	NA	574.4	1120	NA	NA		4210
29804	241.3	123.4	67.1	128.4	81.8	NA	NA		NA
29808	73.9	75.9	93.3	60.5	234.4	NA	NA		NA
29810	974.4	925.6	532.8	574	343.2	NA	NA		NA
29811	2381.5	180.6	285.8	100.4	142.6	NA	NA	B1	120
29813	766.4	679.2	358.4	800	796.4	NA	NA		NA
29814	525.6	93.5	103.4	245.9	235	173.4	NA		NA
29816	185.4	145.6	NA	123	143.6	NA	NA		NA
29820	172.2	139.3	100.7	61.4	142.6	NA	NA		NA
29831	63.5	396.6	217.8	398.8	251.8	NA	NA		NA
29832	186.6	197.7	158.4	381.4	90.7	NA	NA		NA
29837	570.2	110.9	166.2	71.8	65.2	NA	NA		NA
29840	146.5	92	72	103.1	65	NA	NA		NA
29842	127.2	55.2	81.2	53	126.3	87.4	70.1	Play	80.4
29855	1489.6	462.4	712	249.8	356.4	NA	584.4		NA
29866	59	172.8	78.8	547.1	370	NA	NA	B2	251
29867	96.1	60.9	64.5	61.5	76	NA	NA		NA
29872	2227.8	184.5	211.8	166.4	293.9	NA	NA		NA
29876	2068.8	1580	707.6	440	418.4	NA	NA		NA
29879	386.6	177.6	263.2	313.2	71.5	NA	NA		NA

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Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
29884	NA	283.2	346.2	578	454.4	NA	NA	B2	571
29892	1688.9	378.9	236.7	378.2	437.4	NA	NA		NA
29894	1762.7	194.2	216.8	NA	1039.1	NA	NA		NA
29906	NA	192	142.4	201.3	307.4	NA	NA		NA
29907	43.4	297.7	241.5	221.9	NA	NA	NA	F1	256
29928	228.5	62.3	88.2	127.1	177.4	NA	NA		NA
29933	439.9	234.5	346.7	200.4	489.4	NA	NA		NA
29938	1129.6	1080	205.8	864	896	NA	NA		NA
29941	936.6	1189.6	1313.4	596.5	895.2	NA	NA		NA
29944	1198.5	296.2	162.2	160.4	87.4	NA	NA	B1	150
29956	2462.5	637.5	246.3	234.8	301.7	NA	NA	B1	235
29960	172.8	110.5	121.7	199.2	499.6	NA	NA		NA
29961	437.6	129.5	105.4	129.3	96.7	NA	NA		NA
29969	593.1	135.4	162.4	446.1	194.9	NA	NA		NA
29970	885.5	97.4	86.1	90.4	116.9	NA	NA		NA
29977	1299.7	509.3	244.9	117	143.1	NA	NA		NA
29980	504.8	208.2	197.7	167.3	214	NA	NA		NA
29984	426.5	131.3	228.6	252.1	NA	NA	NA		NA
29992	193.3	45.3	64.6	104.1	288.9	NA	NA		NA
29996	1173.7	107.6	225.7	354.9	262.9	NA	NA		NA
29999	448.9	237.4	201.2	264.4	409.8	NA	NA		NA
30001	821.8	NA	280.2	137.4	162.3	NA	132.8		NA
30004	40.3	NA	NA	NA	79.9	NA	NA		NA
30005	2878.1	636.1	257.9	344.6	378.9	NA	NA		NA
30009	183	33.2	56.7	46.8	68.5	NA	NA		NA
30011	205	34.7	63.4	151.1	173.6	NA	NA		276
30015	84	58.9	ND	144.6	126.9	NA	NA		NA
30023	1289.7	635.9	272.7	1179.3	326.1	NA	NA	B2	430
30025	83.9	87	75.4	151.5	143.1	NA	NA		71.7
30026	81.9	125.3	98.2	130.5	133.9	NA	NA		NA
30028	143.9	161.6	88.3	165.3	230.5	NA	NA		NA
30030	69.9	55.7	65	277.2	213	NA	NA		NA
30031	147.4	122.9	86	231.9	202.2	NA	NA		NA
30033	251.4	133.8	101.1	200	202.4	NA	NA		NA
30036	1540.7	239.2	418.4	163.2	377.1	NA	NA		NA
30039	829	410.9	546.8	359.6	771.2	NA	NA		NA
30043	212.1	177.6	140.1	531.1	366	NA	NA		NA
30046	1560	552	263.6	644.4	589.2	NA	NA	B2	740
30047	1390.8	610.8	311.8	205.4	288.3	NA	NA		NA
30049	3888	1560	926.4	1289.6	527.2	NA	NA		NA
30052	222.7	62.6	89	152.3	185.2	NA	NA	F2	93.6
30053	164	147.1	96.4	189	315.7	NA	NA		NA
30054	48.8	51.2	74.7	67.7	82.1	NA	NA		NA
30065	1096.6	415.7	337.6	499.5	227.9	NA	NA		NA
30071	754.6	150.5	203.9	648.3	440.9	NA	NA	F2	253
30073	89.9	141.8	114.4	118.4	74.8	NA	NA	B1	125
30074	378.3	261	241.5	513.4	232.7	NA	NA	B1	541
30076	623.9	180.2	132.1	300.7	212	NA	NA		NA
30087	140.2	63.9	40.9	31.3	57.5	NA	NA	B1	58.3

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
30089	353.9	238.8	274.7	394.8	221.7	NA	NA		340
30092	562.8	257.6	237.6	327.2	NA	NA	NA		NA
30096	1189.6	711.2	613.6	365.6	386	NA	NA		NA
30101	980	672	1100	698.8	744	NA	NA		NA
30104	519.6	1609.6	604	332.2	394.4	NA	NA		832
30111	960.8	42.6	51.1	78	90.3	NA	117.2		NA
30112	2228.8	83.1	131.1	210	140.3	NA	NA		NA
30117	2753.8	255.6	76.3	114.2	128.3	NA	NA		NA
30118	144.8	105.6	89.6	263.4	229.8	NA	NA		147
30124	206.4	159.5	122	116.9	108.3	NA	NA		NA
30127	ND	38.2	92.6	87.5	71.5	NA	NA		NA
30129	532.7	360.1	383.2	626.5	2468.2	NA	NA		NA
30134	ND	61.9	99.3	90.6	165.7	NA	NA		NA
30136	819.1	191	235.7	218	131.2	NA	NA	B2	155
30137	116.8	72.5	160.4	NA	NA	NA	NA		NA
30138	67.7	80.9	78.5	123.3	195.1	NA	NA		NA
30148	239.6	84.2	112.6	118.9	206.6	NA	NA		NA
30151	2272	506.5	285.6	482.7	755.1	NA	NA		4610
30158	165.1	34.1	288.5	49.7	208.9	NA	NA	B2	275
30160	ND	56.1	52	ND	105.4	84.1	NA		NA
30166	133.5	74.6	65.6	97	51.1	NA	NA		NA
30178	3766.1	421.1	723.1	468.9	1482.1	NA	NA		NA
30219	618.4	456.6	309.3	657.5	510.7	329.1	NA	Garden	278
30234	772.1	102.2	84.9	61.7	82	NA	NA		NA
30237	1734.8	109.4	308.2	220	268.1	78.4	NA		NA
30240	164.8	195.4	125	177	157.2	NA	NA		NA
30247	3817.6	1409.6	739.6	108.8	392.2	NA	NA		NA
30249	267.5	71.6	302.4	80.6	127.1	NA	NA		NA
30251	212.5	47.1	58.5	119.1	112.9	236.4	NA	B2	124
30257	229.7	167.8	164.1	85.2	114.8	NA	NA		NA
30260	2708.8	3289.6	1960	1029.6	1420	NA	NA		NA
30267	696.3	560.6	373.1	NA	352.1	NA	NA		NA
30270	3162.3	207.9	821.9	155.4	294.2	NA	135.8		NA
30273	2578	209	174.3	203.9	317	NA	NA		NA
30275	2059	277.4	447.9	130.1	255.2	NA	NA		NA
30283	966.4	247.8	261.2	174	182.8	NA	NA	F2	253
30286	170.9	88.4	136.9	110.5	90.1	NA	NA		NA
30304	575.3	296.5	719.3	551.8	243.8	NA	NA		NA
30305	263.6	600.3	305	424.2	NA	NA	678.2		NA
30312	870.3	422.3	270.3	276.8	200.5	NA	NA		NA
30319	102.8	66.9	54.8	66.1	88.3	NA	NA		NA
30325	1587.8	287.3	280.3	374	447.8	NA	NA		NA
30329	719	325.8	234.4	492.7	224	NA	NA		NA
30336	339.5	203.5	183.3	357.1	299.3	NA	NA		NA
30337	247.8	226.8	109.2	67	449.6	NA	NA		NA
30338	835.1	103	75	170	165.5	NA	NA		NA
30339	66.2	133.9	81.5	82.5	65.8	NA	NA		NA
30340	51	NA	202.6	145.2	88.2	NA	88		NA
30350	125.1	77.8	81	55.7	54.3	NA	NA		NA

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Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
30353	1288.4	112.9	1514.1	98.5	133.4	NA	NA		NA
30356	275.4	353	686.1	266.7	284.7	NA	NA		NA
30357	1872.5	266.5	284.1	364	344.7	NA	NA		NA
30358	235	120.2	124.4	138.2	NA	NA	NA		NA
30361	75.7	87.3	120.9	96.8	72.8	NA	NA		NA
30362	280.5	169.4	137	87.4	124.2	NA	NA		NA
30366	189.2	116.9	117.9	89.6	142	NA	NA		NA
30367	227.5	114.8	115.6	97.1	108.5	NA	NA	F1	137
30370	35.3	67.6	47.8	193.2	46.3	NA	NA		NA
30372	115	93.9	99.5	187	273.8	NA	NA		NA
30378	1525.7	377.5	421.7	NA	1079.7	NA	NA	F2	387
30379	ND	147.1	131.8	100.1	135.3	NA	NA		NA
30381	2339.2	1149.6	1260	499.2	462	NA	NA		NA
30392	745.8	65.7	86.1	181.7	55.9	NA	NA		NA
30396	39.9	84.5	108.9	83.2	127.6	112.6	NA		NA
30397	59.5	56.3	45.9	391.6	116	NA	NA		NA
30398	57	132.1	110.1	116.5	70.7	NA	NA		NA
30399	1392.5	222.2	191.4	187.8	186	NA	NA	B1	118
30403	1562.1	200.7	343.5	178.2	271.9	NA	NA		NA
30404	268.4	NA	126.9	62.3	63.7	NA	NA		NA
30405	633.5	517.8	1000.5	487.4	494.4	NA	NA		NA
30408	156.7	NA	130.9	125.6	112.3	155.4	NA	Garden	204
30413	98.8	107.5	93.2	124.2	121.4	NA	NA		78.2
30416	107.8	49.2	59.1	98.1	183.8	NA	NA	F2	73.1
30418	198.9	246.7	150	366.2	381.6	NA	NA		472
30425	118.1	116.4	71.6	87.8	71.4	NA	NA	B2	81.2
30426	30	90.9	129.2	96.3	181.6	NA	NA	F2	133
30430	381.2	65	149.7	89.2	84.1	NA	NA		NA
30432	179.3	208.4	173.7	82.8	138.9	NA	NA		NA
30433	355	85.9	401.4	380.4	455.6	NA	NA		NA
30436	944.2	365	310.9	290.3	296.2	NA	NA		NA
30441	2734.3	383.9	270.5	456.1	230.6	NA	NA		NA
30447	727.7	408.2	252.4	NA	44.1	NA	NA		NA
30448	1926.5	165	294.6	336.3	NA	NA	NA		NA
30449	549.6	143.1	100.6	226.4	94.9	NA	NA		NA
30452	586	146.9	82.9	115.3	98.8	NA	NA		NA
30456	150.7	74.1	113.9	118.7	131.1	NA	NA		NA
30459	938.4	320	334.8	165	196.9	NA	194.4		NA
30465	108.5	125.5	185.1	86.1	77.9	NA	NA		NA
30466	735.6	350.6	317.8	293	357	NA	NA		NA
30481	53.8	85.2	146	132.2	91	NA	NA		NA
30487	104.1	93.5	62.4	399.8	159.8	NA	NA		NA
30493	883.9	560.4	1695.9	444.9	265.1	NA	NA		NA
30501	708.3	85.3	322.1	92.9	70.2	NA	NA		NA
30503	3548.8	377.8	164.2	320.6	261.6	NA	NA		NA
30520	936.3	382.3	579.5	552	1211	NA	NA		NA
30531	202.3	63.8	97.3	197.3	130.9	NA	NA		NA
30539	150.9	182	285.4	131.5	255.7	NA	NA	B1	142
30540	599.6	142.2	325.4	303.9	301.4	NA	NA		NA

Appendix A
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Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
30544	697.7	176.3	248.4	624.8	544.9	NA	NA		NA
30557	364.1	127	121.1	76.4	140.9	NA	NA		355
30560	766.4	533.2	NA	313.6	NA	NA	458	Play	493
30571	196.9	120.3	93.5	50.4	72.3	NA	NA		NA
30579	135.3	963.2	93.4	367.1	187.7	NA	NA		NA
30582	2296.3	212.7	414.6	309.3	729.8	NA	NA		NA
30583	300.8	94.1	81.8	ND	84.1	NA	NA		NA
30588	157.2	49.5	70.2	410.1	76.7	NA	NA		NA
30589	162.7	113.3	68.4	100.5	98.3	NA	NA		NA
30590	81.8	189.5	54.7	133.2	93	NA	NA		NA
30592	6965	306.3	412.1	210.2	1250.2	NA	NA		NA
30593	630	251	165.4	313.3	154.9	NA	NA		NA
30594	170.8	146.5	69.4	222.2	217.7	NA	NA		234
30599	121.7	85.5	119.9	154	94.8	NA	NA		NA
30604	256	251.2	256.6	277.2	223.8	NA	NA		NA
30605	1760	330	320.8	205.8	272.6	NA	NA		NA
30606	1089.6	537.7	NA	485.9	NA	174.5	NA		NA
30607	245.7	219.8	180.1	318	226.5	NA	NA		NA
30608	974.5	496.4	212.4	271.1	572.5	NA	NA		NA
30612	465.6	127	85.2	124.4	67.5	NA	NA		NA
30615	3088.4	165.3	475.9	708.5	NA	NA	NA		NA
30619	305.2	670.6	277.6	195.1	1093.5	NA	NA	F2	330
30621	197.4	116.8	127.9	210.5	143.1	NA	NA		NA
30622	131.2	145.5	99.8	271.1	155.5	NA	NA		NA
30623	90.6	115	114.2	190.9	136.5	NA	NA		NA
30628	299	221.3	159.9	172.4	197.7	NA	NA		NA
30631	1648.6	173	229.7	302.1	384.5	NA	NA		NA
30635	82.8	166.2	172.8	154.6	195.3	NA	NA		NA
30646	1380.7	81.9	48.2	198.6	86.5	NA	NA	F2	32.2
30647	1511.2	313.7	331.2	193.6	1265.1	198.5	NA		NA
30649	244.9	111.9	99.6	128.6	107.9	NA	NA		NA
30653	1826.9	257.1	689.5	635.3	3932.4	NA	NA		NA
30655	870.6	187.6	492.5	414.8	519.6	268.5	NA		NA
30657	321.8	229.8	376.6	256.4	NA	NA	NA		NA
30658	674.4	268.7	444.1	113	193.5	NA	NA		NA
30661	594.4	164.9	94.8	122.8	68.2	NA	NA		NA
30662	27.7	73.4	80.9	43.8	97.4	NA	NA	B1	51.6
30666	49.6	84	41.6	62.4	45.4	NA	NA	B1	73
30668	2504.5	369.2	474.9	181.5	673.3	NA	NA		NA
30671	961.7	435.5	321.9	541.1	860.8	NA	NA		NA
30672	66.5	123.3	89.8	83	66.3	NA	NA		NA
30673	1249.6	200.6	170.5	370.8	558.8	NA	NA		NA
30674	151.1	142.4	130.8	332.8	184.2	NA	NA		NA
30685	153.8	95.4	94	56.2	71.2	NA	NA		NA
30687	1200.7	118.2	100.2	99.2	204.1	NA	NA		NA
30689	428.4	343.4	288.6	318.4	388.6	NA	NA	F1	341
30692	730.1	152.1	1170.9	96.4	155.9	NA	NA		NA
30693	259.2	81.1	80.7	239.8	126.7	NA	NA		NA
30707	155.8	83.1	176.8	175.8	NA	NA	NA		NA

Appendix A
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Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
30716	125.6	73.6	187.5	130.1	142.3	NA	NA		NA
30717	132.1	124	57.2	92.2	75.1	NA	NA		NA
30720	128.5	81	255.6	65.9	95.1	NA	NA		NA
30721	1974.2	NA	575.6	NA	2213.3	289	NA	Garden	317
30722	67.7	46	44	117.7	53.7	NA	NA	B1	116
30724	68.5	63.4	65.1	108	99	NA	NA		NA
30731	378.6	103	60	129	70.9	NA	NA		NA
30734	594	254.7	359.8	217.5	391.8	NA	NA		NA
30736	149.8	101.6	NA	NA	NA	NA	NA		NA
30738	1390	253	722.6	378	522.6	NA	NA	B2	502
30742	239.5	90.5	116.5	77.7	46.1	NA	NA	B2	41.1
30748	60.9	NA	62.2	NA	NA	NA	NA		NA
30751	121.7	88.2	73	87.1	77.4	NA	NA		NA
30761	986	269.2	182.6	175	227.3	NA	134.9	Play	120
30763	933.4	234	300.6	916.2	411.6	NA	NA		NA
30764	761.1	321.3	393.4	331.6	331.9	NA	NA		NA
30768	382	68.6	110	78.4	108.8	NA	NA		NA
30773	411.6	66.6	105.9	108	80.7	NA	NA	F2	132
30774	1599.3	204.3	411.2	463.5	363.7	NA	NA		NA
30777	1409.6	193.5	172.9	457.2	273.2	NA	NA		2370
30778	2253	365.2	450.1	605.1	779	NA	NA		NA
30780	1154.5	513.7	118.2	39.9	54.9	NA	NA	B1	51.5
30782	1723.4	250.1	521.2	1015.3	695.9	NA	NA	B2	770
30783	103.5	67.4	66.3	48.2	60.4	NA	NA		NA
30784	328.4	280.4	187.4	265.1	95.8	NA	NA		NA
30785	2049.6	123	86.2	90.1	140.4	NA	NA		NA
30788	31.7	47.2	25.6	67.1	269.3	NA	NA		NA
30793	242.6	155.2	101.5	495.8	207.4	NA	NA		NA
30795	89.7	31	52.1	53.9	59.7	NA	NA		NA
30805	52.7	91.4	73.7	126	42.7	NA	NA		NA
30807	295.2	154.6	154.4	106.9	99.6	NA	NA		NA
30818	527.7	306.2	395.5	183.6	104.3	NA	NA		NA
30819	706.9	69.2	124	146.6	68.4	NA	NA		NA
30821	1451.8	297.3	141.7	2890.4	674	NA	NA		NA
30825	173.6	234	183.7	84.4	105.4	NA	NA		NA
30829	167	68.3	89.9	44.7	47.1	NA	NA		NA
30842	703.4	271.2	999.7	459.7	681.2	NA	NA		NA
30843	95.7	101.4	83.6	34.8	40.1	NA	NA		NA
30849	155.5	479.9	NA	106.6	87.7	NA	NA		NA
30851	61	64.7	NA	NA	48	NA	NA	B2	35.5
30854	81.5	NA	57.3	NA	123.5	NA	NA		NA
30856	128.9	62.3	43.3	110.5	192.3	NA	NA		NA
30865	1050.4	231.9	256.6	278.1	313.4	NA	NA		981
30867	87.6	76	35.7	NA	NA	NA	NA		NA
30868	179.4	68.6	54.4	32.8	58	NA	NA	F2	80.9
30869	483.2	129.8	258	316.2	195.5	NA	NA		120
30872	481.7	222.9	284.3	290.3	206.2	NA	NA		NA
30873	256.9	98.6	84.6	173.4	140.3	NA	NA		NA
30875	1427	393.8	310.1	225.2	353.2	NA	NA		NA

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Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
30877	246.7	50.2	64.8	30.4	45	NA	NA	B1	46.2
30878	118.2	371.4	234.1	147	223.5	NA	NA		NA
30879	1560	121.7	143.9	272.8	1069.6	NA	151.9		NA
30880	122.4	236.2	402.4	486.8	195.3	NA	NA		NA
30886	720	263	180.2	331.7	170.5	NA	185.8		NA
30889	1801.1	536.5	677.3	515.9	518.8	NA	NA		NA
30894	1602.5	726.7	327	185.7	558	169	NA		NA
30895	647.1	342.4	220	820.5	297.8	NA	NA		NA
30896	295.4	224.2	260	140.7	161.3	205	NA		NA
30902	316.4	73.3	45.4	97.2	149.5	NA	NA		NA
30906	1936	73.5	234.2	1836	125.8	NA	NA		6530
30907	444.8	229	497.2	256.2	320.6	215	NA		NA
30908	814.9	261.3	142	202.1	251.7	NA	NA	F1	337
30911	1317.2	240.8	315	207.2	229.2	NA	NA		NA
30913	137.4	65.2	67.9	57	82.9	NA	NA		261
30914	161	70.2	82.7	41.5	62.6	NA	NA		NA
30917	390.3	NA	674	170.3	222	NA	NA		NA
30923	79.2	30.4	98.5	112.6	185.9	92.5	NA	Garden	92.4
30924	162.4	400.2	262.2	217	241.2	NA	NA		NA
30929	889.6	96.8	113.1	196.5	320.1	NA	114.3	Play	128
30941	189	65.3	49.8	160.6	164.4	NA	NA		NA
30943	384.4	72.2	95.5	106.4	238.6	NA	NA		410
30950	78.1	NA	50	49.8	NA	NA	NA		NA
30953	405.3	100.7	87.2	93.5	134.7	57.7	NA		NA
30958	1700.9	88.3	242.6	977	424.5	NA	548.2		NA
30959	30.2	103	123.3	103.5	38.2	NA	NA		NA
30961	2171.5	243.4	377.9	425.8	303.9	NA	NA		NA
30962	17	146.7	355.4	259.8	48.3	NA	NA		NA
30969	204.6	89	105.6	166.9	118.4	NA	NA		NA
30976	166.8	84.9	106.9	148.1	89.6	NA	NA		NA
30987	1409.6	786.8	1180	1859.2	1120	NA	NA		NA
30994	725.2	225.4	373.4	188.6	241.4	166.7	NA		NA
31003	245.8	75.4	155.1	122.8	152	NA	NA		NA
31005	557.6	494.4	294.2	248.6	561.6	NA	NA		NA
31009	60.2	90.5	48.3	47.3	81	NA	NA		NA
31011	1064.9	285.6	64.4	499.8	259.1	NA	NA		NA
31012	740.4	98.9	147	219	50.3	NA	NA		NA
31013	86	76.3	152.1	218.6	918.4	NA	NA		NA
31015	48.2	42.2	52.6	59.9	60.4	NA	NA		NA
31028	477.6	143.7	243.6	497.6	139.1	NA	343		NA
31030	473.9	138.2	252.9	81.6	162.4	NA	NA		NA
31033	1725.3	411.8	519.6	231.8	513.2	NA	NA		NA
31034	1070.5	359	233.4	NA	376.3	NA	NA		NA
31036	97.6	57.1	48.8	59.7	51.1	NA	NA		NA
31040	191.9	171.1	169.6	51.5	97.1	NA	NA		NA
31041	432.6	284.6	547.6	223.6	302.4	NA	NA		NA
31043	1606.9	319.2	210.9	NA	347.5	NA	NA	F2	233
31044	277.6	302.3	135.6	246.5	392	NA	NA		NA
31051	126.6	54.9	48.2	47.4	92.4	NA	NA		NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
31053	40.6	148.5	130.4	NA	1159.1	51.2	NA		NA
31054	72.8	32.5	53.2	62.2	69.7	NA	NA	B1	50.4
31059	649.8	277	230.9	1692.2	570	NA	NA		NA
31062	ND	72.8	68.3	88.3	99.6	NA	NA		NA
31067	401.9	118.7	157.6	250.8	608.1	NA	NA		NA
31085	48.1	NA	76.2	67	NA	NA	NA		NA
31088	2161.2	90	518.8	245.1	220.4	NA	NA		2870
31091	272.6	NA	134.6	180.1	250.8	NA	NA	B2	288
31094	408.9	230.7	185	658.8	519.4	NA	NA		NA
31099	166.4	NA	106.4	94.5	70.9	89.9	NA		NA
31106	313.6	55.9	127.7	141.1	264.6	NA	NA		NA
31107	356.4	32.9	52.6	130	71.8	NA	NA	B1	183
31111	175.7	115.7	177.8	201.1	153.7	NA	NA		NA
31113	81.8	66.4	77	159.7	54.1	48	NA		NA
31118	86.4	38.3	NA	67.2	48.9	NA	NA		NA
31122	137.2	93.5	84.7	67.5	89	NA	NA		NA
31124	1659.2	310.4	319	428	457.6	262.2	NA		NA
31127	99.4	31.7	81.7	44.3	47.3	NA	48.4		NA
31136	49.1	50.6	54.6	55.8	24.9	NA	NA		NA
31148	343.4	322.5	481.1	68.2	152.8	NA	NA	F2	738
31157	2960	172.5	314.4	322.4	351.8	NA	NA		NA
31170	1300	234.8	227.2	368	522	NA	NA		NA
31175	17.5	43.5	42.2	44.3	68.7	41.1	NA	Garden	38.6
31197	52.7	66.6	NA	NA	54	NA	NA		NA
31204	42.2	NA	37.9	NA	32.5	109.7	NA		NA
31211	174.7	56.9	64.8	159.1	93.2	NA	NA		NA
31213	1389.6	175.8	487.6	NA	645.6	661.6	440.4		NA
31216	6769.5	314.3	384.7	434.5	320.3	NA	NA		NA
31224	49.8	NA	115.4	76	NA	NA	NA		NA
31226	517.6	249	162.4	NA	371.6	NA	NA		2030
31235	2335.5	278.3	724.9	415.4	417	NA	NA		NA
31236	213.2	109.7	123.1	NA	156.2	107.3	NA		NA
31243	86.6	34.9	62.8	55.5	55	NA	NA		NA
31248	264.7	665.6	179.9	127.9	100	105.5	NA		NA
31257	3635.5	357.7	341.3	350.2	692.2	NA	NA	F1	437
31260	61.7	199.9	124.4	62.3	NA	NA	NA		NA
31264	ND	60.2	ND	65	ND	NA	NA		NA
31269	184.3	171.3	243.5	76.6	111.3	NA	NA		NA
31271	30.7	34.6	38.7	28.1	47.6	NA	NA		16.4
31273	89.1	100.4	71.4	52.9	76.8	NA	NA		NA
31278	3075.1	287.4	953.9	270.9	549.9	NA	NA		NA
31289	2086.5	337.8	268.9	332	265.9	NA	NA		NA
31296	244.2	256.4	145	130.9	129	NA	NA		NA
31311	74	43.1	49.5	36	60.1	NA	NA		NA
31314	53.6	49.5	35.4	NA	NA	NA	NA	F2	52.8
31326	26.7	95.5	97.6	29.9	162	NA	NA		NA
31329	147	264.4	238.5	204.9	464.1	NA	NA		NA
31331	391.6	372.4	367.4	199.9	225.4	NA	NA		NA
31335	548.8	405.2	236.8	280.4	256.8	NA	NA		NA

Appendix A
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Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
31343	ND	137.5	580	216	168.1	NA	NA		NA
31345	2680	464	384.8	491.6	947.2	NA	NA	F1	640
31349	349.6	119.3	86.4	ND	122.8	NA	NA	F1	114
31351	293.8	73.9	NA	ND	92.7	NA	NA		NA
31356	612.3	79.5	262.6	61.6	94.4	NA	NA		NA
31364	342.4	83.5	135.4	90.2	72.3	NA	NA		NA
31368	471.2	86.4	169.6	89.1	84.7	NA	NA	B1	111
31378	1073	319.6	314.8	344.6	224.8	NA	NA		NA
31384	8077.3	775	977.7	602.7	1180.6	NA	NA		NA
31395	195.7	199	161.4	148.3	103.7	NA	NA		NA
31405	872.8	1229.8	481.3	777.9	780.3	NA	NA		NA
31410	624	249.3	135.6	102.6	129	NA	NA	B1	112
31420	ND	ND	ND	ND	101.3	NA	NA		NA
31429	72.2	84.3	88.6	45.9	69.1	NA	NA		NA
31431	90.5	101.6	95	76.4	32.2	57.7	NA		NA
31434	98.2	16.7	64.4	70.5	56.5	NA	NA		NA
31437	488	215	180.8	96	63.8	NA	NA		NA
31445	284.4	82.7	115	76	173.9	NA	NA		NA
31446	9650.3	135.1	115.2	159.6	183.6	NA	NA		NA
31450	806.2	577.3	375.8	873.2	330.2	NA	NA	B1	1040
31453	163	87.5	168.1	113.9	83.7	NA	NA		NA
31454	508	199.1	196	NA	97.6	NA	NA		NA
31455	121.7	67.7	65.1	36.7	46	NA	NA		NA
31483	246.3	80.4	99.4	40.7	41.3	NA	NA	F2	139
31489	658.8	1006.5	562	528.7	508.6	NA	NA		NA
31493	100	196.5	178.3	151.4	564.5	NA	NA		NA
31494	470	108	119.8	154.6	116.8	NA	NA		NA
31498	193.2	165	235.7	125.6	257.6	NA	NA	B1	151
31501	244.2	27.1	NA	50.7	67.6	NA	NA		NA
31511	1730.2	592.2	569.9	813.4	738.1	NA	NA		NA
31513	840.8	212.6	627.6	305.8	68.8	NA	NA		NA
31519	402	57.2	109.3	233.9	49	67.5	NA		NA
31522	97	66.9	104.6	54.5	72.7	NA	56.5		NA
31528	649.2	178.3	197.6	220.2	440.1	NA	NA		NA
31534	89.2	77.1	59.5	86.1	75.3	NA	NA		NA
31536	596.1	291.5	303.9	183.4	173.1	NA	NA		NA
31537	65.8	53.6	66.4	170.5	189.1	NA	NA		38.4
31539	20.8	56.2	56.6	180.9	207.4	NA	NA		NA
31541	486.1	81.6	51.4	52.8	57.4	NA	NA		NA
31543	117.6	133	251.4	99.5	248.8	NA	NA		NA
31548	576.5	149.9	111.2	55.5	74	NA	NA		NA
31549	815.1	382	269.1	1598	516.9	NA	NA		NA
31559	1100	677.6	728.4	586.8	295.6	NA	NA		NA
31560	258.7	86.4	82.7	45.9	23.2	NA	NA		NA
31561	92.3	51.8	54.3	144.4	132.4	68.6	NA	Garden	95
31566	1030.1	227.2	210.8	301.6	351.1	NA	NA		NA
31572	251.7	388.1	78.9	100.4	93.6	NA	NA		NA
31574	1389.6	330.8	319.4	524.4	436	NA	NA		NA
31577	196.9	116.9	103	72.2	177.7	NA	NA		NA

Appendix A
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Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
31580	1759.4	321.8	922.1	359	354.8	NA	NA		NA
31581	22.6	55.5	29.4	22.2	32	NA	NA		NA
31585	219.3	199.5	149.5	179.4	122	NA	NA		NA
31586	1063.1	136	250.1	584.2	607.5	NA	NA		NA
31604	108.2	86.8	26.2	87.4	34.5	NA	NA		NA
31608	269.4	122.1	154.4	195	173.9	NA	NA	B1	84.3
31609	5558.4	383.8	1380	224.4	279	NA	NA		NA
31612	68.3	104.8	110.8	178	214.8	NA	NA	F2	142
31614	1908.8	1429.6	310	205.2	368.8	NA	NA		NA
31617	638.2	117.4	149.3	250.2	538.4	NA	NA		NA
31620	1340.7	211.2	268.7	415.8	272.6	382.2	NA		NA
31624	34.1	32.7	225.7	98.2	189.9	NA	NA		NA
31628	84.1	114.4	58.4	115.7	88.9	NA	NA		NA
31630	785.5	537	269.6	252.8	137	NA	NA	F1	717
31631	1058.6	740.4	227.4	321.6	355.8	NA	NA		21.5
31633	727.4	464.7	540.2	652.9	570.1	452	NA		NA
31638	40.1	61.5	41.4	48.2	50.3	NA	NA		NA
31641	720	181.2	230.4	133.6	261.1	NA	NA		NA
31642	113.7	68	66	110.9	950.5	NA	NA		NA
31649	1191.8	288.1	333	1328.3	553.5	413.7	NA		NA
31652	936.8	195.1	215.2	240.8	NA	NA	NA		NA
31653	2268.8	459.2	656.8	956	294.2	NA	NA		NA
31656	481.2	145.9	242.6	264.8	302	NA	NA		NA
31659	60.3	53.6	36.3	94.8	47.1	NA	60.4		55
31664	4347.5	212.4	113.1	152.8	114.3	NA	NA		NA
31670	379.5	48.8	94.1	56.7	66.5	NA	92.9		NA
31671	849.6	117.8	327.2	67	107.1	NA	NA		NA
31672	856	693.2	190.2	267.2	477.2	NA	NA	B2	392
31673	354	NA	426	101.8	91.2	NA	NA		NA
31678	315.5	68.9	104.7	71.7	57.7	NA	NA		NA
31679	164.6	95.1	115.7	87.2	86.3	NA	NA		558
31680	1369.6	248.8	241.8	563.2	180.9	NA	NA		NA
31681	627.6	48.7	43	86.2	103.3	NA	NA	F1	47.9
31682	116.6	45	102.9	54.3	63.9	NA	NA		NA
31683	76.5	64.3	57.3	74.9	57.4	NA	NA		NA
31692	351.8	98.2	99.3	45	57.1	NA	NA		NA
31694	279.8	157.9	197.5	127.5	240.8	NA	NA		NA
31704	79	42.3	26.1	61.4	39.7	NA	NA		NA
31707	104.7	90.4	108.5	75.6	62.6	NA	65.5		NA
31709	2626.4	218	526	360.2	284	NA	NA	F2	609
31710	73.9	46	35.7	36	47.3	NA	44.1		NA
31714	261.1	66.2	167.3	54.2	85	NA	NA		NA
31716	86	24.3	55.7	32.7	55.7	NA	NA	F2	58
31717	132.4	67.3	64.1	94.4	80	NA	NA		NA
31718	95.5	35.3	49.8	118.8	160	NA	NA	B1	151
31724	174.4	224.3	102.8	163.9	NA	NA	NA		NA
31726	4348.8	184.2	188.5	248.2	385.8	NA	1180		NA
31729	151.8	122.9	103.2	59.5	69.2	NA	NA	B1	77.8
31730	958.5	188.5	215	264.4	1034.3	NA	NA		NA

Appendix A
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Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
31732	148.5	116.8	166.1	109.3	120.4	NA	NA		NA
31734	973.5	237.4	158.4	553.2	254.8	NA	NA		NA
31737	147.3	268.9	75.4	209.4	468.8	NA	NA		NA
31743	839.2	547.1	473.8	245.2	305.6	NA	NA		NA
31744	472	229.5	157.9	348.3	285.2	NA	NA		NA
31750	363.2	244.4	496.8	161.1	130.3	NA	NA		NA
31753	742.2	207.3	218.8	352.8	354	NA	NA		NA
31762	245.4	232.1	356	137.1	NA	NA	NA	B1	185
31765	1201.8	156.7	195.2	171.2	221.9	NA	NA		NA
31767	1124.2	390.9	288.2	195.2	512.8	NA	NA		NA
31768	11200	204.4	994.4	298.2	438.8	NA	NA		NA
31769	606.3	317.8	76	101.8	174.5	NA	NA	B1	139
31771	283.6	595.2	281.6	NA	259.6	NA	NA		NA
31773	727.1	105.5	85.7	104.7	73.2	NA	NA		NA
31774	78	36.7	56.3	88.6	30	NA	NA		NA
31775	1396.8	225.7	230.1	231.2	287.3	NA	NA		NA
31776	229.3	229.5	108.9	128	163.5	NA	NA		NA
31777	173	314.6	161	NA	146.2	NA	NA		NA
31780	78.2	82	143.9	109.9	259.7	182.4	NA		NA
31783	779.3	195.4	182.2	330.1	333.2	NA	NA	B2	373
31788	159.6	59.9	65.9	33	39.2	NA	NA		NA
31790	NA	95.7	121.6	NA	NA	NA	NA		NA
31792	188.1	178	115.4	323	167.2	NA	NA		NA
31793	30.9	86.6	54.3	114	93	NA	NA		NA
31801	916	161.3	870.4	554	1000	NA	NA		NA
31807	1027.6	312.3	308.9	410.4	517.2	NA	NA		NA
31810	61.7	60.7	80.9	51.8	123.5	NA	NA		NA
31818	703.6	559.2	169.5	150.4	116.8	NA	NA	B2	141
31819	407.3	276.1	540.5	114	86.5	NA	NA		NA
31820	1300	268.2	139.2	226.6	256.6	NA	NA		NA
31822	141.5	72	49.1	117.6	154.8	NA	NA		160
31824	1733.4	139.5	181.3	70	89.2	NA	NA	B1	83.4
31827	1674.9	42.5	74	82.2	79.7	NA	NA	F2	71.7
31835	35	136.3	116.8	64.5	54	NA	NA		NA
31844	351	73.8	76.2	66.2	63.4	NA	NA		NA
31847	655.6	225.8	159.5	NA	172.2	NA	NA	F2	214
31848	152.6	319.8	201	592	1269.6	NA	NA		144
31851	649.6	51.1	228.6	157	206.4	NA	NA		NA
31860	173.1	55.1	66.1	49.2	37.4	NA	NA		NA
31862	251.2	132.9	99.5	132.7	104.5	NA	NA		NA
31865	67.2	50.1	84.2	42.4	48.7	NA	NA		NA
31867	449.7	473.2	194.9	603	446.4	NA	NA		693
31872	140.4	59.8	60.2	56.3	44.1	NA	NA	F2	67.3
31876	53.9	88.5	95.9	87.1	84.2	NA	NA	B2	92.2
31878	280.6	111.8	80.1	71.9	76.6	NA	NA		NA
31891	101.8	54.3	52.2	51.8	53.4	NA	NA		NA
31895	1228.7	212.3	275.3	NA	334.1	NA	NA		NA
31910	104.6	92	76.2	101.5	159.9	NA	NA		NA
31917	3094.3	1125.3	206	212.4	159.2	NA	NA		NA

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Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
31923	338.8	127.3	108.2	106.3	147.8	NA	NA	B1	126
31928	364	33.6	62.2	114.3	84.4	NA	NA		NA
31929	827	194.6	134.6	239.3	388.4	NA	NA		NA
31930	174.7	208.6	72.4	72	216.8	NA	NA		570
31940	131.4	75.5	82.1	87.3	45.3	NA	NA		NA
31941	415	224	88.2	177.4	79.3	NA	NA		NA
31942	NA	299.4	250	288.8	194.5	NA	NA		NA
31944	140.8	95.3	79.6	63.6	44.9	NA	NA		NA
31945	325	157.4	164.9	649.2	310.8	NA	NA	B1	653
31946	536.6	155.2	259.9	302.5	NA	NA	NA		NA
31954	696.8	318.7	335.4	789.3	504.5	916.4	NA		NA
31956	444.1	218.3	337.7	292.7	252.9	NA	NA		NA
31960	1657.7	410	431.5	380	NA	438.7	NA		NA
31961	2015.5	207.4	241.1	385.6	404.1	NA	NA		NA
31962	4019.2	486.4	465.2	258	736.4	NA	NA		NA
31963	1280	863.2	360	937.6	616	NA	NA		NA
31967	2410.8	95.4	214.7	218.4	80.5	NA	NA		NA
31968	893.1	248.4	718.8	263	530.3	NA	NA		NA
31970	179.8	129	211	216.2	297	NA	NA		NA
31974	226.2	88.3	59.3	ND	60.3	NA	NA		NA
31975	529.7	123.3	338	138.9	82.1	NA	NA		NA
31980	220.6	148.7	141.5	205.2	212.6	307.3	NA		NA
31988	222	136.5	251.8	243.3	279.5	NA	NA		NA
31991	617.9	435.5	136.3	290.5	249	NA	NA		NA
31994	191.3	181.1	282.2	276.8	529.1	NA	NA		NA
32003	183.9	88.9	96	NA	210.8	NA	NA		NA
32006	135.3	99.7	79.6	151.9	123	NA	NA		NA
32011	109.2	66.8	70	61.9	49.3	NA	NA		NA
32012	42.9	119.2	67.1	126.1	104.9	NA	NA		NA
32013	409	169	218.2	494.3	198.8	NA	NA	B1	665
32017	57.9	73.2	81.3	83.6	149.3	NA	NA		NA
32020	312.7	103.5	66.3	84.3	164.2	NA	NA	B1	116
32023	351.6	NA	183.5	160.4	250	NA	NA	B1	194
32028	1640	152.5	174.7	385.6	212.6	NA	NA		NA
32029	537	307.4	871.2	323.1	682.8	NA	NA		NA
32030	624	200.1	516.8	NA	387.4	548	NA		NA
32034	226.5	204.6	85.8	138.6	119	NA	NA		NA
32038	717.1	134.4	106.2	115.8	94.7	NA	NA		NA
32045	1109.6	NA	69.6	144.3	134.2	NA	NA		NA
32048	60.8	102	93.2	165.2	88.6	64	NA		NA
32051	ND	43.9	64.8	70.8	90.6	NA	NA	F1	57.1
32054	410.7	522.3	417.7	6073.3	6629.1	NA	NA		NA
32055	301.3	144.3	176.2	1899.9	300.5	NA	NA		391
32056	743.5	552.5	404.7	162.7	169.9	NA	NA	B1	179
32058	889.5	235.7	189.2	130.7	84	NA	NA		NA
32059	541.5	326	254.5	261.9	207.9	NA	NA		NA
32062	944.7	1700.4	1452.5	197	235.7	NA	NA		NA
32064	1167.7	188	NA	NA	NA	NA	NA		NA
32065	108.1	102.9	99.5	402.9	NA	NA	NA		NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
32067	522.5	108	76.2	49.9	51.1	NA	60.4		NA
32069	396	213.8	219.1	320.1	1004	NA	NA		NA
32079	641.7	135.6	111.9	46.3	226.1	NA	NA		NA
32085	125.4	79.6	73.7	110	113.8	NA	NA		NA
32088	174.6	205.8	237	139.2	180.1	100.8	NA		NA
32090	427.9	294.3	113.6	177.3	253.5	NA	NA		NA
32094	241.6	181.1	266.2	179.1	2668.8	NA	NA		NA
32096	88.1	72.7	72.9	39.9	69.4	NA	NA		NA
32097	670	107.9	83.4	75.1	1308.6	NA	NA		NA
32098	1985.2	404.7	192.3	426	NA	NA	NA		NA
32104	210	390.5	671.4	237.6	177	NA	NA		NA
32105	107.9	167.8	27.8	74.2	34.2	NA	NA		NA
32108	78.2	132.4	35.7	30.8	70.6	NA	NA		NA
32110	110.4	58.6	47.3	93.7	83.8	NA	NA		NA
32115	229.8	56.7	89.5	38.2	67.2	NA	NA		NA
32117	89	77	37.8	83.1	87.9	NA	NA		NA
32119	2668.8	291.2	234.2	348	246	NA	NA		NA
32123	63.3	172.9	124.1	166.2	61.8	NA	NA		NA
32124	1407.5	217.7	220.2	405.6	353.7	NA	NA		NA
32129	79.3	83.7	65	193.3	479.2	NA	NA	B2	700
32131	80.9	85.6	123.8	127.2	121.4	NA	NA		NA
32134	206.1	66.2	69.6	110.5	ND	NA	NA		NA
32135	602.8	563.2	544	718.8	395.6	NA	NA		NA
32137	547.1	410.1	233.5	444.4	NA	NA	NA		NA
32143	1843.5	1545.1	2009.4	441	404.9	NA	NA		NA
32144	69.7	401.8	173	204	458.2	NA	NA	F1	806
32146	1316.5	826.3	311.1	627.3	435.6	NA	NA	B1	671
32155	592.6	235.3	245.1	101	326.8	NA	NA	B1	85.7
32156	98.3	56.7	55.8	58.8	69.5	NA	NA		NA
32161	94	128.6	ND	132.1	ND	NA	NA		NA
32163	65.9	51.9	58.1	123.8	73.9	NA	NA	B1	139
32164	422.8	139.6	352.8	66	181.5	NA	NA	B1	60.2
32165	553.8	300.3	211	294.9	506.9	NA	NA		NA
32166	257.6	60	619.1	471.1	138.1	NA	213.4		NA
32169	115	60.7	NA	87.7	42.6	82.7	NA		NA
32173	4413.7	1620.4	626	2189	863.1	NA	NA		NA
32181	87.4	70.5	43.6	57.3	68.2	NA	NA		NA
32182	81.6	123.7	NA	89.8	65.9	NA	NA		NA
32184	1374.6	106.6	56	99.2	48.3	NA	NA		NA
32187	166.3	94.8	105.4	166.8	126.4	NA	NA		NA
32191	504.8	126.5	99.6	295.6	1120	NA	NA		NA
32193	113.6	120.5	131.6	146.1	143.9	208.3	322.8		126
32194	5737.6	137.9	114.6	251.4	125.4	NA	NA		NA
32198	114.1	ND	61	63.7	105.4	NA	NA	F1	63.6
32202	1380	354.4	3337.6	1800	954.4	NA	NA		NA
32205	342.6	96.4	302.7	103.7	109.4	NA	NA		NA
32211	1020.2	280.1	671.7	697.8	134.3	NA	NA		NA
32219	68.2	64	90.4	73.9	37.7	NA	NA		NA
32222	63.6	40.9	69.4	45.3	50.7	NA	NA		163

Appendix A
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Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
32225	165.2	278.2	NA	116.5	148.9	NA	NA	F1	305
32230	106.6	113.8	151.6	45	75.2	54.1	NA		NA
32233	121.3	111.8	133.4	62.3	63.9	NA	NA		130
32236	7756.8	572	1469.6	921.6	446.8	NA	NA		NA
32239	167	48.6	109.9	114	112.7	NA	NA		NA
32240	632.1	57.7	93.1	72.1	45.7	NA	NA	F2	119
32242	817.6	504.8	483.2	246.8	336	NA	NA		NA
32244	NA	110.8	102	132.7	265.4	NA	NA		NA
32246	573.6	150.2	107.8	60.9	64.4	NA	NA		NA
32247	924.8	243.6	184.8	229.6	129.6	NA	NA		NA
32249	133.7	139.6	78.5	101.1	82.6	NA	NA		NA
32253	100.1	69.2	114.5	64.9	98.3	NA	NA		NA
32255	773.2	89.5	162.8	83.1	82.8	NA	NA		NA
32258	427.1	579.3	408.9	238.9	278.9	NA	NA		NA
32271	586.5	258.3	258.8	NA	448	NA	NA		NA
32272	2024.1	240.5	337.3	184.5	492.1	NA	NA		NA
32278	201.4	46	109.3	114.7	225.7	NA	NA		NA
32282	172.2	NA	50	42.3	70.8	46.4	NA		NA
32289	30.7	21.3	31	24.6	34.7	NA	NA		35.1
32292	211.5	327.3	196.4	405.4	223	NA	NA		NA
32296	1349.1	57.1	146	89.4	230.5	NA	NA		NA
32303	74.6	151	195.2	131.4	80.4	NA	NA		NA
32304	794.4	164.1	134.2	222.2	85	NA	NA		NA
32307	1580	95.3	78.3	74.9	72.2	NA	NA		NA
32308	1064.1	19.4	46	35.6	63.9	NA	NA	B1	35.6
32309	5857.5	99.1	131.5	128.7	108.3	NA	NA		NA
32314	598.4	207.4	204.6	204	201.8	334.8	NA		NA
32320	383.7	103.9	76	83.4	399	NA	NA		NA
32324	107.4	65.2	104.7	88.9	73.2	NA	NA		NA
32328	325	109.5	80	NA	237.8	NA	NA		NA
32330	1440.2	54	236.2	64.9	102	NA	NA		2080
32332	ND	87	61.7	51.2	44.7	NA	NA		NA
32333	1047.5	123	155.6	120	973.2	NA	NA		NA
32334	NA	41.8	44.5	90.1	107.2	NA	NA		NA
32335	598.3	108.4	77.4	109.1	72.2	NA	NA		NA
32336	75	31.8	38.1	61.3	67.6	NA	NA		NA
32340	53.2	67.7	76.7	50.6	92.6	NA	NA		NA
32343	122.7	63.1	65.6	46.4	44.4	NA	NA		394
32345	122.6	94.8	76.4	95.2	51.3	NA	NA		NA
32347	45.9	29.7	61.9	36.7	68.3	NA	NA		NA
32350	56.2	64.3	51.2	62.5	39.6	NA	170.1		NA
32352	42.2	37.6	54.2	28.4	28.6	NA	NA		NA
32353	3088.1	360.7	284	193.5	206.4	208.4	NA		NA
32354	937.9	308.3	252.2	NA	339.7	NA	NA		NA
32355	34.4	88.8	55.8	50.1	47.1	NA	NA		NA
32356	498.2	137.2	248.8	281.3	NA	NA	NA		NA
32358	622.8	218	138.1	241.2	228.6	NA	NA		NA
32365	114.6	91	86.2	129.4	64.2	NA	NA		NA
32368	2239.4	243	214.2	291.8	98	51.7	NA	Garden	93.9

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Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
32369	1256.2	233.2	193.7	318.8	181.3	NA	NA		NA
32376	461.6	594.4	285	317.8	2308.8	NA	NA	F1	611
32377	132.4	27	55.7	83.7	115	NA	NA		NA
32379	634.7	561.7	527.6	115.8	204.9	NA	NA		NA
32395	280.6	113.2	129.2	292	139.8	NA	NA	B2	500
32396	143.3	66.1	56.3	47.7	58.2	NA	NA		NA
32403	72.5	112.3	131.7	99.3	72.6	NA	NA	B1	131
32410	NA	60.7	62.4	53	48	NA	NA		NA
32417	1461.2	214.2	206.2	110.6	135.3	NA	NA		NA
32423	2699.2	902.4	496.4	482	603.6	NA	NA		NA
32425	2388.8	173.6	170.2	532	238	335.2	NA	F2	171
32430	2611.2	678.8	710	178.2	135.9	NA	NA		NA
32432	395.6	40.3	NA	58.9	203.1	NA	NA		NA
32434	97.8	53.2	72.7	73.1	99.4	NA	NA	B2	93.9
32438	106.8	60.5	64.5	45.2	81.9	NA	NA		NA
32439	2540.2	493.1	457	232.2	513.3	NA	NA		NA
32443	87.9	50.7	47.8	49.2	65.5	NA	NA		NA
32446	1360	596	1788.8	465.2	1109.6	274.6	NA		NA
32447	882.3	506.2	285.4	555.9	415.4	165.9	NA		NA
32451	136	63.3	64.4	83.6	85.3	NA	NA		NA
32457	40.3	ND	29.7	36	50.7	NA	43.1		NA
32464	63.3	84.8	63.8	52.5	49	NA	NA		NA
32467	97	111.5	NA	42.1	36.4	NA	NA		NA
32476	111.1	56.2	66.8	38.3	52.3	NA	NA	F1	63.7
32479	776.2	164.6	140.8	138.2	123.1	NA	NA		NA
32487	97.9	49.5	62.9	47	43.9	NA	NA		NA
32492	159.3	39.1	67.6	60.7	84.7	NA	NA		207
32493	215.6	252.2	314	427.6	177	NA	NA		NA
32496	750.8	133.4	222.4	273.6	284.2	NA	132.9	F1	164
32509	55.6	48.4	66.3	140.1	161.5	NA	NA		NA
32512	95.1	NA	75.1	41.3	40.6	NA	NA		NA
32516	1684	312.7	1020.8	394.6	774.8	NA	NA	F1	994
32518	949.1	327.9	259	138.6	181.7	NA	NA		4910
32521	699.2	149.1	117.5	158.6	76	NA	NA		NA
32524	28.3	39.1	64	44.7	47.7	NA	NA		NA
32526	711	350.5	247.8	310	335.4	NA	NA		NA
32527	71.1	54.7	50.5	26.9	45.5	NA	NA	B2	46.8
32528	265.6	143.6	113	129.8	222.3	74.6	NA		NA
32540	822.1	380.5	747.4	221.7	577.4	NA	NA	B2	611
32544	163.3	79.1	77	335.3	219.8	NA	NA		NA
32549	82.5	79.2	118	65.7	66.7	NA	NA		NA
32552	392.6	67.1	91.8	145.1	118.2	126.8	NA	Garden	180
32560	912.3	NA	348.3	NA	120.1	NA	289.6		NA
32563	643.1	NA	218.7	NA	40.9	NA	NA		NA
32564	178.9	424.7	516.1	159.1	157.5	NA	NA		NA
32567	370	86.2	182	186.4	365.1	NA	NA		NA
32568	132.3	307.8	168.6	85.6	896.8	135.4	NA		NA
32574	NA	164.5	123.6	67.7	67.3	NA	NA		NA
32575	7667.2	565.6	541.9	644.8	846.4	NA	648.3		NA

Appendix A
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Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
32577	56	19.8	45.1	37.4	34.3	NA	NA		NA
32588	510.3	177.7	209.1	433.2	267.7	NA	NA		NA
32597	83.1	52.3	44.8	62.9	101.5	NA	NA		NA
32599	156.7	84.5	192.8	116.9	83.5	NA	NA		NA
32605	218.2	125.8	113.4	85.9	110.7	NA	NA	F1	124
32606	350.6	168.2	70.3	176.8	119.9	NA	NA		NA
32607	NA	85	49.7	238.2	46.3	NA	NA		NA
32608	304	133.2	96.3	52.5	58.1	NA	NA		NA
32612	90.5	79.6	64.8	91.3	96.4	NA	NA		NA
32618	65.8	99.5	98.3	57	45.8	NA	NA		NA
32620	NA	93.5	74.2	146.6	169.3	NA	NA		NA
32622	152.8	73	NA	66.8	87.3	113	NA		NA
32623	636.9	231.7	99.8	42	117.4	NA	NA		NA
32627	1254.5	374.9	267.2	386	231.2	NA	NA	F2	664
32636	684.8	416	308.8	803.7	530.8	NA	NA		NA
32639	152	86.3	49.7	69.4	130.4	NA	NA		NA
32641	333.5	222.3	392.5	154.4	300.4	NA	NA		NA
32643	370.7	322.4	147.7	170.2	144.7	NA	NA		NA
32656	68.7	100.3	39.6	34.9	22.4	NA	NA		NA
32663	1031.9	186	172.5	148	316.6	NA	NA		NA
32664	36.4	56	40.5	32.2	39.2	NA	NA		NA
32665	3217	244.7	146.3	180	217.5	NA	NA		NA
32667	1662.9	65.5	NA	126.5	38.1	NA	47.5	Play	58
32672	105.9	ND	ND	59.9	73.4	NA	NA		NA
32675	106.5	65.1	31	70.3	54.5	NA	NA		116
32677	59.7	75.7	80.7	117.7	113.2	NA	NA		NA
32681	614.1	36.6	127.1	48.8	56.8	NA	NA		NA
32683	558.9	242.7	208.5	195.9	409.1	NA	NA		NA
32685	412.8	76.9	61.8	169.9	373	123.7	NA		NA
32690	1183.1	191.7	186.9	122.2	143.7	NA	NA	B1	173
32692	2084.1	282.9	304.3	57	108.1	NA	NA		NA
32693	89.9	81.5	63.9	105.9	137.2	NA	NA		NA
32709	388.8	515.9	210.7	332.8	228.1	NA	NA		NA
32712	508	158.5	370.3	446.6	273.4	NA	NA		NA
32715	740.7	103.2	130.6	370.6	288.4	NA	NA		NA
32716	698.4	341.6	350	210.1	255.9	NA	NA	F1	355
32717	1089.6	135.5	435.6	666	638	NA	NA		NA
32722	394.8	115.3	188.3	285.5	554.7	NA	NA		NA
32724	220.6	82.9	72.7	200.9	127.1	NA	NA		NA
32726	504.9	149.6	327.2	343.7	1100.9	NA	NA		NA
32731	327.1	584	1130.8	333.7	358.2	NA	NA		NA
32740	307.9	79	56	ND	30.8	NA	NA		NA
32742	426	134.7	122.1	201.4	91.7	221.4	NA	Garden	292
32747	154	78.3	68.9	57.1	43.2	NA	NA		NA
32753	438.1	94.1	107.7	145.2	99.5	NA	NA		NA
32755	748.2	79.1	66.8	54.1	37.2	NA	NA		NA
32758	758.6	69.8	142.8	35.3	105.7	NA	NA		NA
32761	147.4	112.6	143.6	150.9	81.3	NA	NA		NA
32762	1569.6	285.4	286	335.4	388.8	NA	NA		NA

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Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
32765	332.2	102.9	60.5	72.6	70.3	NA	NA		NA
32766	447.6	357.6	511.6	797.6	57.1	NA	NA	F1	404
32768	466.6	124	1398.9	271.5	664.7	NA	NA		NA
32776	63.5	60.7	84.6	97.1	74.3	33.9	NA		NA
32777	321.5	53	73.3	70.2	51.4	NA	NA		NA
32778	34.6	68.7	50.8	35.6	107.5	NA	NA		NA
32782	69.2	51.6	84.8	20.8	31.7	NA	NA		NA
32785	38.7	79.7	109.8	156.7	94.4	NA	NA		NA
32788	3919.6	249.2	442.6	360.8	557.7	NA	NA		NA
32794	749.1	91.5	195.8	203.1	274.6	NA	NA		NA
32804	555.2	123.3	166.3	190.4	270.8	NA	NA		NA
32805	64.1	77	NA	42.9	67.4	NA	NA	B2	52.5
32808	318	115.9	56.8	137.3	125.3	NA	NA		NA
32809	228.8	145	58	297.8	584.2	NA	NA	B2	579
32813	978.7	255.6	151	161.6	352	NA	NA	B1	179
32820	260.4	111.4	69.3	65.2	68	NA	NA		NA
32822	1012.8	633.7	291.3	NA	338.5	NA	NA		NA
32823	236.4	66.4	74	46.1	65.8	NA	NA		NA
32826	324.2	156.2	315	187.8	419.2	NA	NA		NA
32833	105.6	93.5	75.4	82.4	83.5	NA	NA		NA
32836	548	107.7	135.2	88.6	91.9	NA	NA		NA
32839	705.6	662.9	787.5	566.8	428.6	NA	NA		NA
32840	128.8	120.5	117.5	96	65.2	NA	NA		149
32844	45.3	65.1	41.7	44.6	45.8	NA	NA		NA
32858	225.4	96.9	50	142.5	156.2	66.6	NA		NA
32861	48.5	49.1	65.5	28.6	45.5	NA	NA		NA
32862	62	NA	78.1	NA	37.6	NA	NA		NA
32870	1262.7	327.7	298	893.2	602.6	NA	NA		NA
32878	ND	39.5	75.9	51.8	119.6	NA	NA		NA
32880	187.6	68.8	104.7	125.5	59.4	NA	NA	F1	64.8
32886	96.1	66.1	47.6	97.8	234.6	NA	NA		NA
32889	164.5	70.6	52.7	77.8	83.5	NA	NA		NA
32890	206.8	194	172.9	221.6	583.9	NA	NA		NA
32892	107.1	45.1	49.8	344.2	125.8	NA	NA		NA
32894	114.4	157.5	84.4	104.5	101.8	NA	NA		153
32897	4998.9	338	272.3	902.3	302.6	NA	NA		NA
32901	217.1	277	918.5	190.6	429.1	NA	NA		NA
32909	122.1	75.1	75	41.8	41.7	125.1	NA		154
32911	769.6	364.6	356	NA	732	NA	NA	B2	870
32923	5612.6	726.9	737.6	776.5	806	NA	NA		NA
32925	540	312.8	382.4	216.8	273.4	NA	NA		NA
32926	140.3	56.5	80.8	42.1	54.4	NA	NA		NA
32932	86.3	100.5	42.4	78.9	41.1	NA	NA		NA
32937	4511.4	267	1029.9	398.3	491.3	NA	NA	B1	2190
32941	224.1	48.5	64.1	188.3	207.2	NA	NA		NA
32942	2646.6	179.5	65.6	175.7	98.1	NA	NA		NA
32950	1128.6	1000.3	451.9	358.2	338.5	NA	NA		NA
32957	820	178.8	152.9	330	271.8	140.9	NA	Garden	152
32960	244.9	77.8	87.8	57	166.5	NA	NA		393

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
32961	941	464.4	750.8	709.6	382.6	NA	NA		NA
32962	2209.6	684	190.9	728.4	412.4	NA	NA		NA
32966	166.1	150	275.2	88.8	89.5	NA	NA		NA
32971	91.6	50.7	55.8	90.9	52.5	NA	NA		NA
32975	683.4	116.1	111.1	251.1	865	NA	NA		NA
32977	413.3	94.5	103.9	196	201.3	NA	NA		NA
32981	4804.8	197.9	404.7	506.2	486.4	191	NA		NA
32991	282.3	218.9	289	130.6	103.6	NA	NA		NA
32993	1169.6	682.8	664	287.8	516	NA	NA	F2	953
32994	380.7	246.3	356.2	487.6	346.6	NA	NA	F2	344
32997	112.8	82.2	ND	126.8	80.9	NA	NA		NA
33006	1332.8	280.3	677.1	912.1	450.8	NA	NA		NA
33011	129.5	82.4	64.1	75.4	102.6	NA	NA		NA
33015	606.5	165.9	406.1	508.9	102.5	NA	NA		756
33024	149.3	53.9	50.7	41.5	241.9	NA	NA		NA
33030	584.6	59.1	91.3	83.8	53.5	NA	NA		NA
33033	661.3	189.8	21.8	197.1	100.2	NA	NA		NA
33035	1329	116	NA	106	193.3	NA	NA		NA
33044	493.9	121.5	77.1	264.9	152	162.8	NA		NA
33046	206.2	190.9	197.3	66.9	83.9	NA	NA		NA
33047	34.7	91.3	28.8	139.1	279.8	NA	NA		NA
33048	253.4	95.4	72.3	177.1	143.8	NA	102.2	Play	264
33051	156.2	45.6	43.9	52.8	36.3	NA	NA		189
33052	89.7	154.3	73.3	87.5	61.7	NA	NA		NA
33053	722.5	288.6	179.6	400	2263.9	NA	NA		NA
33054	402.2	150.1	110.8	127.3	180	NA	NA	B2	183
33056	104.3	603.2	354.4	NA	465.6	NA	NA		NA
33059	711.6	56.4	384.7	143.5	198.5	NA	NA	B1	147
33061	1453.9	538.3	142.9	57.4	NA	NA	NA		2050
33069	1249.6	114.1	60.4	96.6	39.4	NA	NA		NA
33072	68.4	37.8	118.6	65.3	36.5	NA	NA		NA
33075	221.1	153.7	233.4	242.6	670.4	NA	NA		NA
33085	ND	94.2	98.9	ND	99.7	NA	NA		NA
33086	39.7	66.8	76.2	48.3	192.9	52.9	NA	Garden	76.2
33106	2064.4	112.4	92.1	82.5	463.2	147.6	NA		NA
33111	50.1	181.9	114.2	351.8	184.9	NA	NA		NA
33116	359.1	74.5	73.1	63.9	38.3	NA	NA		NA
33117	690.2	103.4	108.2	57.6	74.5	NA	NA		NA
33118	149.2	76.2	78.4	141.4	52.7	NA	NA		NA
33122	283	187.5	316.9	252.5	346.9	NA	NA		NA
33129	46.6	91.9	55.1	68	27	NA	NA		NA
33136	407.8	159.5	193.8	92.2	249.2	NA	NA		NA
33138	1580	422.8	436.4	391.4	342.8	NA	NA		NA
33139	268.9	NA	256	102.2	136.6	NA	NA		NA
33146	441.4	134.7	64.7	41.1	89.5	NA	NA		NA
33148	4290.3	138.3	85.3	142.5	86.6	NA	NA		NA
33156	448.8	301.9	166.3	255.7	281.6	NA	NA		NA
33157	373	120.5	99.4	283.2	380.6	NA	NA		NA
33158	40.1	102.5	65.5	155.6	88.9	NA	NA		NA

Appendix A
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Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
33160	116.3	78	65.6	137.7	37.3	NA	216.4	Play	189
33168	695.6	579.6	268	408.6	122.6	NA	NA		NA
33169	604	143.5	185.8	440	281.2	NA	NA		NA
33181	191.3	155.7	147.5	NA	169.6	NA	NA		NA
33185	33.4	47.4	57.6	48.1	32.3	NA	NA		46.6
33189	96.4	59.6	65.1	92	62.7	NA	NA		NA
33190	243.8	53.1	NA	228.8	161.1	NA	NA		271
33198	687.7	175.8	206.7	276.2	343.2	NA	NA		NA
33202	86.3	52.4	57.6	61.5	51.3	64.4	57.6		NA
33206	317.8	186.7	93.6	137	229.2	NA	NA	B1	155
33208	210	102.8	71.2	40.1	38.9	NA	NA		NA
33212	3650.5	226.3	324.1	625.4	1094.2	NA	NA		NA
33230	93.6	74.2	49.8	ND	55.6	NA	NA		149
33236	1010.9	87.3	76.7	62.9	98.9	NA	NA	F1	142
33242	1393.3	673.2	211.7	660.7	352.5	NA	NA		1480
33244	NA	79.6	119.8	38.2	NA	NA	NA		NA
33245	193.8	84.2	179.9	273.2	70.2	NA	152.5		NA
33251	112.3	64.9	65.9	177.6	113.4	NA	NA		NA
33256	686.5	367.1	325.1	279.3	592.4	NA	NA		NA
33258	589.2	226	303.2	251.8	198	NA	NA		NA
33260	73.4	93.3	57.5	69	72.4	NA	NA	F2	74.4
33261	129.2	134.7	131.9	51.8	83	NA	NA		NA
33263	44.6	44.9	43.8	53	45.2	NA	NA		NA
33272	3718.4	192.4	1149.6	613.2	NA	NA	NA		NA
33273	1041.2	284.7	153.5	309.3	194.7	NA	NA		NA
33278	1748.8	226.8	374.4	395.8	588	NA	NA		NA
33282	2075	292.1	294.7	480.7	NA	NA	NA		NA
33283	140.7	149.4	50.8	46.3	72.3	NA	NA	B1	51.4
33285	2768.9	389.9	2036.5	1152	504.8	NA	NA		NA
33312	332.1	271.7	274	118.6	578.4	NA	NA		NA
33316	293.1	183.6	113.6	169.9	196.7	NA	NA		NA
33319	1469.6	180.4	686	442.8	298.6	NA	NA		NA
33321	493.5	133.1	69.5	180.8	156.1	NA	NA		NA
33324	146.5	88	169.1	104.5	152.2	NA	NA		NA
33331	59.5	80.5	139.4	168.5	140.6	NA	NA		NA
33337	52.2	68.2	94.9	98.1	97.1	NA	NA		NA
33342	636.6	327	50.4	318	197.8	NA	NA		NA
33344	943.2	342	595.2	183.3	282	NA	NA		NA
33357	204.3	68.9	62.2	87.8	123.9	NA	NA		NA
33358	840.8	363	517.7	545.3	597.7	NA	NA		NA
33359	1529.6	106.5	136.4	145.3	285.6	NA	NA		NA
33361	118.1	189.3	124.3	130.1	66.3	NA	NA		NA
33362	402.5	49.1	62.1	65.1	34.9	NA	NA		NA
33367	1029.6	416.8	396.4	523.6	476.8	NA	NA		NA
33373	96.2	82.8	46.1	100.5	63.6	115.6	NA		NA
33375	1240	662	217.6	244.4	258.2	NA	NA		NA
33377	701.6	73.8	78.1	57.1	53.7	NA	NA		NA
33378	1029.6	303	162.4	245	806.4	NA	NA		NA
33382	124.5	112.4	80.8	229.4	135.4	NA	NA		NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
33383	2058.7	350	225	181.7	195.5	NA	NA		NA
33384	105.2	78.3	76.6	104.3	74.6	NA	NA	B2	72
33393	1180	476.4	221.2	405	817.6	NA	NA		NA
33395	ND	84.7	47.8	242	162.5	NA	NA		NA
33397	104.6	55.6	48.7	285.2	221	NA	NA		NA
33398	500.7	67.8	52.8	128.5	61.1	NA	NA		NA
33400	652	98.6	132.6	249.4	95.4	NA	NA		NA
33402	167.4	158.9	326.1	414.1	308.4	NA	NA		NA
33406	319.5	171.8	96.6	376.7	302.3	NA	NA	B1	378
33408	225.1	390.3	220.7	196.2	223.2	NA	NA		NA
33409	1089.6	297.2	284.2	247.2	249.2	NA	NA		NA
33411	109.7	56.4	68.9	107	120	NA	NA	B1	86.4
33415	595.4	618.8	191.4	76.6	137.8	NA	NA		1980
33424	40.2	76.4	78.9	71.6	67.1	NA	NA		NA
33425	19.8	22.4	99.5	48.8	51.6	NA	NA	B1	67.2
33429	136.2	60.8	90.2	85.5	83.7	NA	NA		NA
33431	804.9	212.5	247.9	207.3	137.4	NA	NA	F2	213
33432	560.4	368.6	192.5	197.1	168.2	NA	NA	F1	356
33448	1810.8	162.8	224.7	380.3	345	NA	NA		NA
33451	695.7	87.5	163.8	224.4	52.6	NA	NA	F1	118
33454	1769.6	527.6	740.4	495.2	1540	NA	NA		NA
33455	761.5	251.8	516.1	417.4	625.5	NA	NA		NA
33457	1137.9	253.8	248.6	256.6	271.4	NA	NA		NA
33463	73.2	132.2	166.1	117.6	171.9	NA	NA		NA
33469	980	526.8	180.6	138	236.4	NA	NA	F2	229
33470	26.8	57.9	49.5	95.4	63.1	NA	NA		NA
33471	506.8	450.2	252.3	334.1	302.2	NA	NA		NA
33473	1089.6	220.6	452.4	1100	364	NA	NA		NA
33486	6132.1	185.2	202.3	417.3	756	NA	NA		NA
33493	559.9	135.5	142.3	93.1	183.2	497.2	NA	Garden	152
33495	127.9	96.8	81.4	75.1	73.6	NA	NA		NA
33498	1218	476.3	213.3	618.3	302.1	NA	366.9		NA
33508	239.4	204.6	133.6	253.6	NA	NA	NA	F1	222
33524	1533.3	208.4	274.2	935.1	242.6	NA	NA		NA
33526	NA	241.1	428.3	370	374.4	NA	NA		NA
33530	430.6	55.7	ND	NA	390.2	NA	152.2		NA
33535	1447.9	899.8	368.8	235.6	491.6	NA	NA		NA
33538	145.3	62.7	51.3	70.2	108.3	NA	NA		NA
33539	353.2	476.7	319.1	NA	NA	NA	NA	F1	576
33540	370.2	290.2	52	233.6	304.8	NA	264		NA
33542	146.2	380.8	51.9	59.6	94.8	NA	NA		NA
33552	89	225.8	442.4	149.1	122.3	175.3	NA		NA
33554	660.8	292.8	407	363	NA	NA	331.8		NA
33556	675.6	148.2	129.7	137.2	117.6	NA	NA		NA
33557	1320	208.8	298	614.4	225.6	NA	NA		NA
33558	448.7	100	209.8	NA	NA	NA	NA		NA
33560	3235.6	329.3	628.4	197.3	271.1	NA	NA	B2	263
33561	721.6	161.5	186.8	233.8	282.4	NA	NA		NA
33567	1983.4	153.1	137.7	274.5	237.6	NA	NA	F1	160

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
33569	3507.2	62.3	360.2	199.7	194.4	NA	NA		NA
33570	28.6	46.7	120.1	NA	97	NA	NA		NA
33571	375	84.6	141.8	94.7	365.6	NA	NA	B2	602
33572	1164.7	113.6	161.4	140.4	230.2	NA	NA		NA
33573	3108.8	229.8	193.1	68.8	174.5	NA	NA		NA
33576	2377.7	272.5	1280.7	437.3	215.1	NA	NA	B2	315
33584	494.6	87	104.9	74.8	89.8	NA	NA		NA
33588	360	NA	227.5	NA	265.8	222.3	NA		NA
33589	2249.2	1476.1	230.7	3944.9	246.6	NA	NA		NA
33594	3285.2	1016.9	226.7	438.1	332.1	361.9	NA		NA
33597	38.8	66.3	68.4	46.5	39.4	NA	NA		26.4
33604	482.1	86.8	95.3	70.6	58.7	NA	NA		NA
33613	1334.3	234.1	173.3	755.3	236.7	NA	NA		NA
33621	382.7	136.5	124	81.6	83.3	NA	NA		NA
33626	1687.5	110.1	281.9	188.6	191.3	NA	NA		NA
33628	1306.4	219.7	454.5	443.7	321.7	NA	NA		NA
33634	385	79.4	136.4	607	144	NA	NA		NA
33641	NA	74.4	112.5	94.7	138	NA	NA	B1	111
33643	3458	195	432.5	361.2	714.8	NA	NA		NA
33649	1423.6	220.5	356.8	237.1	249.9	NA	NA		NA
33651	807	241.3	212.9	217.6	373.8	NA	NA		NA
33654	264.3	111.1	93.7	186.1	125.6	NA	NA	F2	113
33657	120.5	ND	ND	76	94.9	NA	NA	F1	29
33664	255.2	192.2	131.9	113.9	222.5	NA	NA		NA
33667	77.8	167.8	133.1	108.8	111.3	NA	NA		NA
33668	1019.3	88.6	76.9	182.6	79.7	NA	NA	F1	109
33673	127.6	134	113.7	69.7	117.7	NA	NA		NA
33676	342	286.2	145.7	64.4	65.1	NA	NA		NA
33678	365.4	112	112.8	127.5	81.3	NA	NA		NA
33679	ND	58.2	ND	97.3	64.6	NA	NA		NA
33685	197.8	210.9	237.4	135.2	234.1	NA	NA		NA
33688	921.1	485	239	951	632.6	NA	NA		NA
33689	1182.2	341.3	347.9	375.3	399.2	NA	NA		NA
33693	419.2	187.9	181.7	402.8	195	NA	NA	B2	226
33697	2226	234.5	555	NA	610.3	NA	NA		NA
33706	266.8	163.9	113.6	35.4	194.9	NA	NA		NA
33707	373	287.2	634	69.9	347	NA	NA		NA
33708	366.7	101.2	417.2	72	192.8	NA	NA		NA
33715	696.8	119.5	152.7	126.6	142.2	NA	NA	F1	169
33716	897.3	49.7	ND	151.4	160.5	NA	NA		NA
33717	507.2	146.6	170	186.7	61.8	NA	NA	B2	63.6
33718	711.1	641.8	227.7	1992.3	662.8	NA	NA		NA
33719	439.4	108.5	78.8	200.8	65.5	NA	NA		349
33720	273.8	NA	NA	722.8	708	NA	NA		NA
33722	94.2	205.2	90.1	122.7	100.9	NA	NA		NA
33724	217.4	163.3	202.2	80.6	153.9	NA	NA		NA
33727	319.2	113.3	39.4	98.2	93	NA	NA	B1	318
33729	ND	96.1	51.6	53.3	66.4	NA	NA	F2	83.6
33733	332.1	90.8	105	77.6	77	NA	NA		NA

Appendix A
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Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
33734	205.5	159	81.2	83.2	112.8	NA	NA		NA
33735	284.8	137.5	143.4	180.5	231	NA	NA		NA
33737	267.5	97.8	104.3	69	52.6	NA	NA		NA
33740	293.1	89.9	610.1	185.1	561.9	NA	NA		NA
33743	397.4	155.4	127.4	141.3	109.1	96.7	NA		NA
33745	171.3	139.3	115.5	71.9	97.8	NA	NA		NA
33746	168.3	NA	91.6	187.3	95.1	NA	NA		NA
33747	2289.6	1320	1748.8	218.4	448.4	NA	NA		NA
33748	130.6	103.6	95.9	130.9	78.1	NA	NA		NA
33751	71.7	131.8	103	129.5	134.9	NA	NA		NA
33753	23.9	93.8	117.9	38.5	56	NA	NA		NA
33754	1095.3	328.7	898.6	303.1	313.7	NA	NA		NA
33755	439.2	84.4	196	92.9	70.5	NA	NA	F1	157
33756	1778	387.2	329.2	409.5	461.9	NA	NA		NA
33757	248.3	225.8	224.4	201.6	142.4	NA	NA	F2	256
33763	818.8	47.6	138.3	170.6	108.8	NA	NA		NA
33767	492	74.7	302.4	212.4	298.8	NA	NA		NA
33774	3388.8	1380	863.2	334	267.8	NA	NA		NA
33775	1399.8	289.8	1823.4	319.3	1034.6	NA	NA		NA
33778	1035.7	231.5	509.5	183.1	316.9	NA	NA		NA
33781	913.9	179.1	204.1	381.1	351.6	NA	NA	B1	424
33782	238.8	325.8	176.1	146.8	349.6	NA	NA		NA
33785	84	88.2	74.3	131.6	153.6	NA	NA		NA
33790	119.5	74.7	47.4	79.7	3336.9	NA	NA		NA
33796	222.9	370.3	180.8	208	106.4	NA	NA		NA
33802	101.4	55.4	69.5	58.6	44.7	NA	NA		NA
33813	697	81.2	81.2	257.2	NA	NA	NA		1050
33822	650.4	120.1	206.4	244.6	134.5	NA	NA		NA
33823	781.8	195.9	321.1	270.4	280.3	NA	NA		NA
33826	486	ND	140	64.5	92	NA	NA		NA
33828	1027.8	218.5	235.4	247	418.7	NA	NA		NA
33829	3718.4	366.8	238.2	175.2	200.6	NA	NA		NA
33835	390.1	744.8	236.6	224.1	311.1	NA	NA		NA
33839	1729.6	206.6	112	151.7	361.4	NA	NA		2410
33841	952	157.2	100.6	70.3	8448	NA	NA		NA
33845	56.9	102.6	75.5	124.4	141.3	NA	NA		NA
33846	624.4	413	297.1	363.9	423.3	NA	NA		NA
33847	1210.7	187.4	700.9	558.3	709.4	NA	NA		NA
33848	173.2	84.6	61.8	117.6	76.8	82.8	NA	B2	84.8
33849	944.6	194.2	353.2	317.3	313.6	NA	NA	F1	228
33859	237.2	161.4	185.5	382	453	NA	NA		NA
33860	955.5	172.4	131.4	368.2	291.7	NA	NA		NA
33861	846.5	123.3	66.9	217.1	111.9	NA	NA		NA
33869	831.2	159.5	188.8	208	88.7	NA	NA		NA
33870	126.6	114	85.8	95.1	76.8	88.8	NA		NA
33872	1640.9	326.6	244.8	447.9	272.3	NA	NA		NA
33874	985.8	149.5	253.1	224	225.3	NA	NA		NA
33876	1060	214.8	268.2	469.6	391.6	NA	NA	F2	290
33880	1354.6	215.3	349.4	206.4	162.7	NA	NA		NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
33882	482	153.6	217.6	NA	628	NA	NA		NA
33883	1842.7	560.3	320.6	262.6	471.6	NA	NA		NA
33884	1385.8	155.2	466.3	312.8	233.6	NA	NA		NA
33890	1129.6	192.6	179.8	1009.6	453.2	NA	NA		NA
33895	815.1	115.6	98.6	222.5	115.7	NA	NA		NA
33899	1001.5	206.5	590	308.1	273.3	NA	NA		NA
33912	765.4	586.6	243.9	427.1	529.6	NA	NA		NA
33917	491.2	302.2	203.5	247.2	178.3	NA	NA		NA
33918	3209.4	759.4	168.5	357.1	327	NA	NA		NA
33919	827.8	871.1	193.2	118	110.1	NA	NA		NA
33922	512.3	328.5	911.1	347.6	457.2	NA	NA		NA
33931	30.3	80	164.3	96.7	136.9	NA	105.6		20.7
33938	903.2	59.8	150.7	133.4	68.5	NA	NA		NA
33940	558.8	163.9	174.8	381	394.8	NA	NA		NA
33942	145.5	94.7	85.1	54.2	86	NA	NA		NA
33944	60.7	120.1	188.4	262.9	376	NA	NA		NA
33945	593.5	77.4	131.5	128.9	119.5	NA	NA		641
33949	554.5	50	83.8	132.4	130.4	NA	NA		NA
33952	644.8	527.2	214.6	560.8	453.2	NA	NA	B1	533
33955	474.7	173	176.2	133.5	129.2	NA	NA		NA
33959	428.4	260.2	308.2	141.4	289.9	NA	NA		NA
33961	658.2	141.8	249.1	243.6	201.5	NA	NA		NA
33964	201.3	65	88.7	153.3	144.7	131	NA	Garden	175
33965	332	166.8	141	194.8	NA	NA	NA		NA
33967	633.3	114.7	124.6	140.2	502	NA	NA		NA
33972	378.5	159	150.4	78.2	377.9	NA	NA	B1	105
33977	1304.2	161.5	627.4	120.5	266.5	NA	NA		NA
33978	120.5	71.6	79.1	44.9	75	NA	NA		NA
33981	428.7	171.5	153.4	169.4	168.3	NA	NA		NA
33983	1469.6	82.5	317.6	63.9	72.4	NA	NA	B1	68.1
33984	1851.3	2201.7	1123.3	1077.9	519.8	NA	NA		NA
33987	251.4	74.5	71	65.6	62.6	NA	NA		NA
33988	1701.4	267.9	286.7	132.7	149.4	NA	NA		NA
33991	864.6	112.3	139.5	137.4	163.2	NA	NA		NA
33995	195.2	128.6	103.8	61.8	84.2	108.6	NA		NA
34000	801	287.3	363.2	232.6	180.1	181.6	NA		NA
34003	242.2	105.5	101.1	347.2	185.3	NA	NA		NA
34004	251.2	163.8	235.3	82.7	301.8	NA	NA		NA
34005	420.8	92.8	331.2	91.1	124	NA	NA		NA
34007	644.3	165.4	198.4	287.3	352.5	NA	NA	F2	237
34008	928.5	217.6	113.7	NA	140.6	142.7	NA	Garden	208
34015	1164.7	223.6	154.2	509.3	155.1	NA	263		NA
34017	3590.5	97.5	212.3	204.8	242.7	NA	NA		NA
34019	718.3	197.4	23.4	269.9	54.7	NA	NA		NA
34020	966.4	93.7	76.1	259	286	NA	NA		NA
34023	728.6	281.8	260.4	249.9	510.6	NA	NA		NA
34027	180.9	263.7	842.7	283.2	237.3	NA	NA		NA
34028	326	146	120	33.3	219.2	97.3	NA		NA
34030	675.9	252.7	346.3	182.7	183.4	NA	NA		NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
34033	NA	339.2	112.6	199.2	216.4	NA	NA		NA
34035	924.8	241.3	195.5	502.7	711.1	NA	NA		NA
34039	540.4	217.3	219.8	346.7	333.1	NA	NA	B2	382
34042	594.7	144.6	198.5	122.5	108.6	NA	NA		NA
34043	211.7	150.5	73.9	76.7	67.4	NA	NA		NA
34046	1309.6	179.7	232.6	178.7	252.8	NA	NA		NA
34049	467.6	133.2	184.2	126.9	371.6	NA	NA		NA
34061	288.3	167.7	210.9	102.4	196.4	NA	NA		NA
34067	1199.1	177.7	119.1	102	65.8	NA	NA		NA
34069	697.6	219.2	83.5	90.2	175.5	NA	71.3		NA
34070	780.4	149.4	136.5	792.9	298	NA	NA		NA
34077	560.4	256.2	150.8	37.2	254.2	NA	NA		NA
34082	623	144.1	120.2	117.6	158	NA	69.1		NA
34084	1109.6	292.6	419.2	275.4	211.6	NA	NA		NA
34085	103.6	125.2	77.3	93.8	64	NA	NA		NA
34086	401.1	185.4	97.8	168.7	191.2	NA	NA		NA
34091	1360	64.1	103.9	113.3	75.3	NA	NA		NA
34100	1736.6	226.2	396.2	223.9	282.9	NA	NA		NA
34102	500.5	425.2	565.8	389.5	354.6	NA	NA	B2	392
34103	549.8	159	186	527	86.4	NA	NA		NA
34105	733.7	509.1	288.6	564.7	277.9	NA	NA		NA
34107	1239.1	91.8	178.1	71.4	154.5	NA	NA		NA
34110	859.9	583.8	164.4	287.7	263.3	549.5	NA		NA
34111	ND	229.5	299.3	NA	175.6	NA	NA		NA
34112	1115.2	94.3	211.8	153.3	172	NA	NA		NA
34113	90.1	72.4	132	68.3	48.9	NA	NA		NA
34120	68.6	172.6	73	208.6	NA	NA	NA		NA
34123	586	183.1	425.6	134.1	NA	NA	NA		NA
34127	632.9	162.8	119	95.7	188.8	167.9	NA		NA
34129	917	148.1	120.9	132.6	665.9	NA	NA		NA
34134	3468.8	179.7	316	176	147.5	NA	NA	B2	145
34136	39.6	80.5	39.8	73.1	129	86.6	NA		32.9
34141	252.5	247.8	187.8	153.9	179.8	NA	179.2		NA
34145	322	134.9	155.9	166.6	192	NA	NA		435
34146	88.7	145.5	119.1	241.7	31.4	NA	NA		NA
34147	151.2	72.8	81.3	213.2	162.1	NA	NA		NA
34155	272	96.5	92.5	155.6	157.3	NA	NA		NA
34157	98.8	91	85.9	168.5	93.4	NA	NA		NA
34165	582.8	27	136.6	112.3	161.7	NA	NA		NA
34166	231.8	109.1	125.8	102.5	113.9	NA	NA		206
34167	70.4	83.1	171.1	77.8	124.8	NA	NA		NA
34168	211.3	324.2	400	323	170	NA	NA		NA
34169	833.4	95	251.2	86	102.5	NA	NA		NA
34172	2433.2	897.5	1548.6	219.1	265.9	NA	NA		NA
34181	1269.2	70.8	94.7	88.1	41.7	NA	NA		NA
34188	1009.4	418.4	300.2	173.4	272.5	NA	NA	B2	324
34190	696	157.3	153.5	163.5	80.8	NA	NA		NA
34191	1329.6	381.2	NA	85.4	421.6	NA	NA		NA
34193	1530.2	206.4	270.4	NA	NA	NA	NA		NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
34196	253.1	102.5	338.2	137.2	392.7	NA	NA		NA
34202	549.8	NA	210.4	681	490.4	NA	NA		NA
34205	4998.3	542.3	549.1	649.5	747.9	NA	NA		NA
34207	208.1	188.3	69.3	85.7	61.7	NA	NA		NA
34211	1620	300.2	387.8	165.1	228	NA	NA		NA
34216	992	146.8	283.8	166.7	264.4	NA	NA		NA
34217	428.5	103.6	166.5	70.3	77.6	NA	NA		NA
34221	1261.9	152	379.5	197.9	250.7	152.2	NA		NA
34223	842.4	445.6	335.4	304.8	250.4	NA	NA		NA
34226	514.1	243.7	155.4	118.1	310.3	NA	102.2		NA
34231	1527.4	444.6	190.8	385.3	367.1	NA	NA		NA
34232	211.9	349.2	148	132.7	1438	NA	NA	F1	448
34238	44.7	337.8	376.2	527.2	371.4	NA	NA		NA
34239	898.5	2541.1	446.1	123.6	3789.3	154.6	NA		NA
34258	4928	186.5	198.3	315.6	602	NA	NA		NA
34284	113.2	109.9	147.1	289.8	249	NA	NA		NA
34288	98	305.7	229.2	433.9	298.9	NA	NA		NA
34302	270.2	195	269.6	301	58.3	NA	NA		NA
34303	219.2	139.1	228.4	121	91	NA	NA		NA
34306	335.8	116.2	249.8	840.8	351.2	NA	NA		NA
34308	557.2	316	404.2	677.6	257	NA	NA		NA
34310	587.9	597.7	241.8	135.5	36.6	NA	NA		NA
34318	520	104.3	61.1	362.6	195.2	87.8	101.5		NA
34324	5308.8	326.8	844	686.8	1360	NA	NA		NA
34327	264	140.5	173.1	135.8	293.2	NA	245.5		NA
34328	871	629.8	857.7	NA	NA	NA	NA		NA
34329	1801.9	1001.7	NA	709.7	NA	NA	NA		NA
34331	773	410.3	361.2	NA	NA	NA	NA		NA
34332	764.4	307	174.6	432.4	288.6	NA	NA		NA
34334	709.5	346.6	380.1	508.7	504.1	NA	NA		NA
34336	1360	270	385.8	172.6	318.6	NA	NA		2530
34349	542.8	218	137.1	128.4	95.5	NA	NA		NA
34354	229.6	80.3	135.3	65.1	81.6	NA	NA		NA
34355	190.6	NA	NA	80.4	147.9	NA	NA	B1	135
34356	617.9	85.8	48.1	65.8	68.8	NA	NA		NA
34373	4574	633.2	1037	NA	194.3	NA	NA		NA
34375	1939.2	117.3	205	492.8	156.7	NA	NA		NA
34379	82.7	105.3	50.5	103.3	47.9	NA	NA		NA
34381	881.6	307.8	370.2	556.8	2009.6	NA	NA		NA
34390	51	91.5	125.8	55.7	165.1	150.5	NA		NA
34391	825.6	456.8	469.2	425.6	274.8	NA	NA		NA
34392	486.2	403.2	244.3	319	462.3	NA	NA		NA
34399	641.5	172.2	61.9	193.1	123.6	NA	NA		NA
34400	45.9	125.9	284.8	110.4	100.2	NA	NA		NA
34402	735.2	189.1	248.6	130	220	NA	NA		NA
34408	1607.5	130.5	182.8	122.1	467.2	NA	NA	F1	119
34409	1223.2	160.6	337.4	378	135.8	NA	NA	B2	367
34414	35.3	30.1	46.6	54.2	40.7	NA	NA		NA
34417	132.3	192	245.8	115.8	85.7	NA	NA		NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
34421	28.4	31.8	37.1	37.3	33.2	NA	NA		NA
34431	1264	228.9	153.9	114.7	157.7	NA	NA		NA
34432	198.5	142.6	140	164.1	224.8	NA	NA		224
34433	804	80	105	125.9	203.6	NA	NA		2030
34435	418.5	121.1	90.7	124.5	209.7	NA	NA		NA
34441	807.6	205.7	57	127.6	105.8	NA	144.9		NA
34445	2379.2	163.6	145.9	177.1	378.6	NA	NA		NA
34446	237.1	98	108.9	147.6	113.5	NA	NA		NA
34447	804	198.1	139.7	172.6	81.3	NA	NA		NA
34448	1400.4	263.8	596.4	349.5	231.7	NA	NA		NA
34463	535.6	133	156.8	193.7	611.2	NA	NA		NA
34467	820	360.2	1289.6	318	492.4	NA	NA		NA
34469	1673.7	108.9	101.8	118.2	80.2	NA	NA		NA
34481	682.1	316.3	571.3	175.6	123.2	NA	NA		NA
34491	5605.4	302.7	276.1	166.1	466.7	NA	NA		NA
34492	385.8	148.2	199.6	235.7	243.8	NA	235.8		NA
34496	277.1	201.4	232.3	539.6	382.6	NA	NA		NA
34505	568	138.1	272.6	40.3	141.5	106.7	NA		NA
34507	1029.6	367.4	358	285	NA	NA	NA		2220
34508	1701.6	306.5	434.3	71.3	254.5	NA	NA		NA
34510	397	381	554	448	426.8	NA	NA		NA
34513	2640	232	294.8	267	142.2	NA	111.5		NA
34517	1687.7	255.7	314.8	1344.4	208.8	NA	NA		NA
34521	482.5	228.4	235.7	130.6	423.9	NA	NA		NA
34522	1893.2	499.7	559.8	578	651.5	NA	NA		NA
34535	638	274.8	285.4	195.1	303.6	NA	NA		NA
34538	510.1	423.2	791	409.1	388	NA	NA		NA
34543	356.5	221	203.8	293.4	202.6	NA	NA		NA
34547	1204.2	202.4	374.9	106	100.3	NA	NA		NA
34548	321.6	92.4	122.9	95.8	134.1	NA	NA		NA
34549	268.6	882.4	572.8	202	135.8	NA	NA		NA
34550	334.3	63.7	27.1	181.5	213.1	NA	NA		NA
34551	343.2	344.4	313.6	522	227	NA	464.8		NA
34553	28.8	ND	28.3	ND	32.5	NA	NA		NA
34570	29.9	ND	ND	ND	25	NA	NA		NA
34571	399.2	195.9	285.6	370.8	327.6	NA	NA		NA
34573	230.8	299.4	278.4	324	253.8	NA	NA		154
34586	522.8	149	141.8	156.8	104.5	NA	NA		NA
34593	198.3	205	316.8	265.4	170.9	NA	NA		NA
34599	1460.1	312.2	161.6	357.3	374.7	NA	NA	F1	335
34602	1748.3	293	433.3	206.6	176.1	NA	NA		NA
34607	1168.5	193.7	250.4	315.8	1153.4	NA	NA		NA
34612	1864.4	315.3	126.7	265.4	439.8	NA	NA	F2	145
34615	507.1	148.6	98.5	74.4	74.2	NA	NA		NA
34618	120.8	95	84	125.3	73.7	NA	NA		NA
34628	696.8	144.2	176.5	679.2	164.9	NA	NA		NA
34648	49.7	22.9	22	38.9	37.7	NA	NA		NA
34650	53.1	52.1	42.7	36.2	101.6	NA	NA		NA
34660	661.2	186	200.9	245.4	243.8	NA	NA		NA

Appendix A
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Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
34668	262.2	239.1	177.5	112	128.1	NA	143.6		NA
34670	172.9	64.4	96.3	107.7	145.2	NA	NA		NA
34673	1604.6	1796	1674.5	504.8	806.7	NA	NA		NA
34692	644.8	314.4	240	496	37.5	NA	NA		NA
34695	407.7	199.1	122.7	179	NA	210.3	NA		NA
34699	1840	306	301	224.6	515.2	NA	NA		NA
34704	1934.1	2807.2	238.9	209.8	141.4	NA	NA		NA
34709	80.4	74.5	67.2	59.1	75.7	NA	NA		NA
34711	1469.6	430.8	412.8	458.8	542.8	NA	NA		NA
34717	2208	111.6	141.1	180.1	216	NA	195.9		NA
34725	91.8	54.6	41.5	54.4	24.7	NA	NA		NA
34734	408.4	47	92.5	110.5	48.7	NA	85.6		NA
34736	630.8	111.8	123.4	330.8	232.9	NA	NA		NA
34743	2020.2	124.3	150.8	276.8	68.5	NA	NA		NA
34744	565.5	124.3	174.7	106.8	90.6	NA	NA		NA
34750	514.4	99.8	161.9	152.3	154.1	NA	NA		NA
34752	808.5	358.7	627.1	1710.9	423.8	NA	NA		NA
34758	1729.6	294.6	258	139.7	210.6	NA	NA		NA
34760	994.4	39.5	47.1	166.6	NA	NA	NA		NA
34765	315	309.5	241.8	NA	188.2	NA	NA		NA
34772	127.1	291.9	150.4	119.3	147.9	NA	NA		NA
34790	70.7	102.5	184.8	453.2	1229.6	NA	NA		83.7
34794	983.9	149.7	171.2	145.7	195.8	NA	NA		NA
34800	23.3	57.7	77.3	36.4	47.8	NA	NA		NA
34812	6784	235.4	401.6	285.6	229.6	NA	NA		NA
34814	189.4	162.3	159.9	105.5	101.6	NA	NA		NA
34815	489.2	133.4	160.1	269.8	501.2	NA	470.4		NA
34820	691.4	113.6	81.3	173.9	491.9	NA	NA		NA
34826	887.2	772	302.4	336	698.4	NA	NA		NA
34827	1460	254.4	254.2	299	571.6	NA	NA		NA
34828	252.4	208.7	179.7	176.9	131.1	NA	NA		NA
34830	873	344.7	527.1	142.4	214.1	NA	NA		NA
34833	639.6	159.7	201.7	335.8	257.4	279	NA	Garden	433
34836	541.2	129.9	152.3	190.7	107.7	NA	NA		NA
34841	2539.2	223.2	174.9	175.7	201.5	NA	NA		NA
34849	445.9	80.3	152.8	114.7	36.7	NA	NA		NA
34852	1333.6	300.1	434.4	231.3	104.4	NA	NA		NA
34853	861.6	82.8	115.7	59.1	101.9	32.6	NA	Garden	80.6
34867	1459.3	209.7	176.1	364	NA	NA	NA		NA
34871	1800	297.6	214.8	1080	1828.8	NA	NA		NA
34873	506.2	151.6	264.7	60.6	159.6	NA	NA		NA
34876	47.1	35.5	27.4	38.5	ND	NA	NA		NA
34878	115.5	193.1	149.1	131.8	38.8	NA	NA	B1	143
34883	1126.9	244.1	179	760.7	250.4	NA	NA		NA
34889	ND	23.9	ND	33.9	30.3	NA	NA		NA
34900	309.9	338.1	202.9	147	136.7	NA	NA		NA
34901	127.6	143	228.6	116.6	81.3	NA	NA		NA
34908	196.6	433	157.3	158.8	92.6	NA	NA		NA
34911	464.6	132.9	227.4	186.6	172.7	NA	NA		NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
34916	3069.2	175.7	530.5	463.4	530.1	NA	NA		NA
34920	2142.1	257.9	340.2	142.7	244.2	NA	NA		NA
34922	1220	227.4	351.4	165.4	311.4	NA	NA		NA
34927	566.8	293.3	229.4	92.5	122.4	NA	NA		NA
34928	300.7	112.5	164.7	144.9	103.2	NA	NA		NA
34931	447.1	127.9	174.5	94.9	61.5	NA	NA		NA
34934	196.9	345.6	160.1	181.8	278.5	127.9	NA	Garden	110
34939	129.9	127	105.2	187	271.4	NA	NA		NA
34940	47	NA	147.1	NA	NA	NA	NA		NA
34947	2151.8	188.5	334.9	476.2	164.3	NA	NA		NA
34950	NA	202.9	124.3	176.7	203.4	NA	NA		NA
34963	2379.2	288.2	298.4	132.7	460.4	133.4	NA		NA
34966	224.2	351.2	176.5	255.2	336	NA	NA	F2	210
34968	2843	118.1	261.3	380.6	422.8	NA	NA	F1	150
34971	1699.2	59.8	266.4	371.6	303.2	NA	NA		NA
34976	1009.6	260.6	122.4	555.2	722	90.9	NA		NA
34979	2240	188.3	163.1	257.6	129.9	NA	NA	F1	241
34982	180.2	128.8	126	36.8	85.2	NA	NA		NA
34991	1040	186.1	116.2	681.6	911.2	NA	NA		NA
35002	4273.1	286	232.4	272.2	250.9	NA	NA	F1	354
35015	732.4	279.8	208.6	248.8	299.6	NA	NA		NA
35023	1436.3	170.6	396.5	428.4	176.3	NA	NA		NA
35035	1303	179.6	185.9	167.9	140.1	NA	NA		NA
35037	517.6	79.8	58.6	81.9	193.3	NA	80.9		NA
35039	217.5	101.5	98.5	486.4	193.9	NA	NA		NA
35045	599.4	104.4	155.2	102.2	290.4	NA	NA		NA
35049	714.8	127.5	264.2	153.2	42.9	NA	NA		NA
35056	659.2	169.3	274.2	216.2	228.2	NA	NA	F2	396
35057	363.6	130.1	221.2	92.8	68.9	NA	NA		NA
35068	3184.4	98.9	67.9	363.5	895.2	NA	NA		NA
35074	544.3	33.4	76.2	98.3	121.7	52.9	NA		NA
35076	473.6	199.3	293	268.8	224	NA	NA		NA
35078	809.6	343.2	273.3	895.1	716.6	NA	1257		NA
35088	260.9	136.5	136.3	128.3	300.5	87.1	NA		NA
35096	167.5	130.9	98.3	75.7	98.1	NA	NA		NA
35099	679	96.1	151.6	261.9	86.4	NA	305.4		NA
35102	156.4	1879.8	211.2	264.2	512.4	NA	NA		NA
35104	2228.4	235.3	176.9	351.5	236.3	NA	NA		NA
35109	560.7	158.3	219.4	281.6	292.4	NA	NA		NA
35115	1020	206.6	151	357.8	242.8	NA	NA		NA
35123	569.6	325.2	220	149.7	198.4	NA	117.8		NA
35125	499.4	103.3	273.7	174.7	239.5	NA	NA		NA
35128	594.4	184.5	268	199.5	158.5	NA	NA		NA
35133	3094	537.7	418.4	368.3	361.3	NA	NA		NA
35138	562.5	175	150.5	NA	130	NA	NA		NA
35145	1069.6	71.9	183.7	NA	NA	NA	NA		NA
35146	3014.6	54.5	53.1	285	169.2	NA	NA	B2	191
35147	569.9	173.1	87.8	719.7	218.3	NA	NA		NA
35150	712	175.1	216	248	219	NA	NA		NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
35161	645.3	82.8	105.3	410.3	244	NA	NA		NA
35162	1249.6	60.8	546.4	189.8	530	NA	NA	F1	57.8
35163	79	276.2	134.4	245.2	317.8	NA	NA		NA
35164	7136	302	573.2	238.4	268	NA	NA		NA
35165	518.6	265.5	258.5	343	494.7	NA	596.8		NA
35167	136.1	54.7	92.2	111.9	74.1	NA	NA		NA
35168	455.5	293.4	292.7	291.8	205.6	NA	NA		NA
35175	375.5	69.4	308.7	228.6	219.1	NA	NA		NA
35186	638.4	185.3	242	197.5	177.2	NA	NA		NA
35188	119.6	116.3	51.6	112.7	78.1	NA	NA		NA
35197	290	76	67.4	77.2	105.1	NA	NA		NA
35201	2330.2	345.1	363.7	194.5	166.7	NA	NA		NA
35205	223.6	159.1	264.5	417.3	219.8	NA	NA		NA
35207	3382.4	220.6	204.6	493	338.1	NA	NA		NA
35209	1266.4	544	229.8	386.3	197.2	223.8	NA		NA
35212	1330.9	220.4	115.2	79.8	367.2	NA	167.9		NA
35214	19.9	106.1	59.2	92.3	167.6	NA	NA		NA
35219	1287.2	88.9	350.3	212	222.5	NA	NA		1510
35224	916.8	118.4	128.5	399.2	202.3	NA	NA		NA
35225	27.6	118.5	133.2	161.8	103.6	NA	NA		NA
35229	1234.5	105	131.3	239.2	515	NA	NA		NA
35232	1856.3	44.4	130.8	NA	393.4	NA	NA		NA
35237	85.1	93	70.6	91.1	64.3	NA	NA		NA
35250	2240.3	127.5	134	460.8	90	NA	NA		NA
35255	350.3	86.9	175.3	209.6	45.7	NA	NA		NA
35257	710.4	114.4	107.3	893.6	263.4	NA	328		NA
35262	980.8	176.5	162.6	276.8	131.1	NA	NA		NA
35271	164.7	NA	52.6	204.2	171.5	NA	NA	F2	103
35272	449.6	66	49.2	NA	83.8	NA	NA	F1	72.8
35277	2099.2	225	234.4	149.7	562.4	NA	NA	B1	166
35283	566.9	72.5	94.4	342.3	196.9	NA	NA		NA
35289	2097.2	484.7	292.3	321.2	226.8	NA	368.4		NA
35294	2177	298.2	129.8	75.4	226.8	NA	NA		NA
35297	601.3	160.9	107.8	258.7	209.3	NA	408.5		NA
35301	892.5	395.6	261	291.7	324.3	NA	NA		NA
35311	2443.8	201.4	174.4	355.6	111.8	NA	NA		NA
35322	1260	144.3	292.4	227.8	202.8	NA	NA		NA
35327	1520	302.4	297.8	186.7	273	NA	125.8		NA
35332	901.3	115.5	98.2	202.8	302.3	NA	NA	F1	126
35333	374.1	128.6	107.7	316.3	517.9	NA	NA		NA
35343	440	98.9	76.2	134.4	NA	NA	NA		NA
35344	612.8	72.3	110.8	152.6	108.5	NA	NA	B1	228
35347	623.1	98.2	114.4	200.4	197.9	NA	NA		NA
35354	498.9	NA	61.7	119.3	123	NA	NA		NA
35360	1380	337.6	189.8	226.4	407.8	NA	NA		NA
35363	1138.3	106.4	424.8	441.4	2033.2	NA	NA		NA
35370	1102.4	80.5	820	172.6	140.7	NA	NA		2610
35374	71.6	75.6	48.3	139.2	43	NA	NA		70.6
35375	2661.2	110.1	171.2	191.3	217.7	NA	NA		NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
35377	233.8	110.3	113.1	83.9	97.9	NA	NA		NA
35380	109.6	112.7	50.9	94.9	61.2	NA	NA		NA
35394	79.1	118.6	36.2	81.5	70.4	NA	NA		NA
35399	851	138.2	214.8	116.5	254.4	NA	NA		NA
35400	378.2	159.2	123.6	141.1	NA	NA	NA		NA
35401	6223.6	191.1	316.8	NA	117.6	NA	NA		NA
35402	99.9	65.5	84.6	70.8	103.4	NA	NA		NA
35409	3619.2	239.2	263.2	318.6	155.1	NA	NA		NA
35410	2188.8	91.2	86	105.2	116.6	NA	NA		NA
35416	170.4	65.2	149.6	NA	NA	NA	NA		NA
35418	257.7	196	116.3	209.8	174.4	NA	NA		NA
35428	1023.5	155.9	211.4	217.1	328.1	NA	NA	B2	460
35429	730	140.7	324.2	393.6	131.9	NA	NA		1010
35430	247.1	216.1	349.9	215.1	160.5	NA	NA		NA
35432	35.4	86.9	49	34.6	52.2	NA	NA		NA
35441	1332.7	345.4	553.8	164.5	427.8	NA	NA		NA
35455	523.2	187.2	151.4	214.6	190.9	NA	NA		NA
35457	470.5	156.1	166.7	250.9	175.6	98.3	NA	F1	165
35462	210.6	143.6	273.7	162.3	81	NA	NA		NA
35463	118.7	127.7	104.9	284.1	215.6	467.1	NA		NA
35474	666.8	119.1	122	357.2	150.1	NA	NA		NA
35482	219.9	137.7	147.2	263.4	128.5	NA	NA		NA
35484	78.9	23.9	54.5	47.8	41.9	NA	NA		NA
35497	832.8	153.2	241.8	152.8	153.9	NA	NA		NA
35499	307.3	240.8	223.5	118.2	199.7	NA	NA	F1	381
35500	108.9	151.1	73.4	95.3	108.3	NA	NA		NA
35506	1264.9	213.1	168.6	494	425	NA	NA		NA
35508	954	205.2	299.3	166.2	599.9	NA	NA		NA
35510	754.5	100.7	164.2	131.5	202.8	NA	NA		NA
35514	515.8	94.6	146.3	203	271.4	NA	NA		NA
35520	187.4	166.8	207.4	148.5	150.3	NA	NA		NA
35533	558	232.8	120.2	147.9	230.4	NA	NA	B1	166
35534	490.2	145.2	184.1	253.6	263.4	NA	NA		NA
35538	200.8	82	53.8	214.4	76.5	NA	NA		NA
35549	285.2	78.7	118.9	146	131.2	NA	NA	F1	73.9
35553	687.7	222.1	123.8	72.1	316.5	NA	NA		NA
35559	184.5	117.6	111.2	155.5	100.9	NA	NA		NA
35565	983	58.9	477.2	NA	338.4	NA	NA		NA
35574	845.6	156.2	139.6	283.8	255.6	NA	NA		NA
35579	349.4	108.8	90.9	217.2	382.4	NA	NA		NA
35590	48.6	34.3	81.6	30.9	37.3	NA	NA		NA
35601	263.5	114.7	407.8	175.7	89.7	NA	142		NA
35604	193.3	57.8	57.8	93	628.2	NA	NA		NA
35606	467	171.1	99	702.2	969.4	NA	NA		NA
35620	1247.1	65	61.6	67.7	88.6	NA	NA		NA
35630	2929.6	114.6	152.4	202.4	245	NA	NA		NA
35646	988.8	700	155.5	282.2	118.9	NA	NA		2020
35648	141.2	98.7	90.3	80.9	58	NA	NA		NA
35652	1192.5	143.7	77.2	257.2	173.9	NA	NA	F1	142

Appendix A
Table A-2
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Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
35655	213.4	80.5	77	324.6	172.7	NA	NA		NA
35657	482.8	161.8	177.2	97.9	119.3	NA	NA		NA
35660	51.9	168.3	130.1	99	93.1	NA	NA	F1	190
35675	926.4	228	312.6	141.1	739.6	NA	NA		NA
35677	325.1	56.6	109.1	46.4	68.6	NA	NA		NA
35678	1016.3	732.6	320.1	174	366.8	NA	NA		NA
35679	678.4	95.5	149.8	171.2	856.8	71.4	NA		NA
35680	259.4	84.7	161.3	103	133.8	NA	NA	B2	138
35693	2427.6	109.7	358.3	141.8	94.3	NA	NA		NA
35700	94.9	100.5	76.5	46.6	58.5	NA	NA		NA
35702	129.6	119.9	144.8	215	140.4	NA	NA		NA
35704	61.7	1529.6	46.1	54.1	59.2	NA	NA		NA
35715	941.6	833.6	371.2	152	239.2	NA	NA		NA
35717	74.8	59.1	69.3	72.4	49.6	NA	73.1		NA
35722	327.4	121.3	157.1	94.3	94.3	NA	NA		NA
35729	1114.8	139.4	96.1	62.9	144.3	NA	NA		NA
35734	77.1	63.9	107.4	77.9	163.6	NA	NA		NA
35743	154.8	129.3	180.3	104.1	189.1	NA	NA		NA
35752	1049.6	102.9	99.4	35.4	51.9	NA	NA		NA
35758	819.3	192.7	190.2	383.7	358.2	NA	NA		NA
35766	963.8	101.1	174.5	425.4	604.5	NA	NA		NA
35767	355.6	233.2	153.2	365.8	251.6	NA	NA		NA
35780	110.8	86.3	63.8	110	86.9	NA	NA		NA
35783	5839.8	137.5	189.1	402.8	314.7	NA	NA	B1	496
35788	777.9	232.4	131.4	760.3	205.7	NA	NA		NA
35789	1849.6	151.5	110.9	152.3	299.4	NA	NA		NA
35795	144.6	92.8	110.4	241.9	110.7	NA	NA		NA
35800	47.7	105.2	56.5	67.1	36.8	NA	NA		NA
35807	184.2	77.3	105.7	82.7	87.5	NA	NA		NA
35808	134.5	119.5	164.3	269.7	200.7	NA	204.3		NA
35809	56.5	56.5	60.5	33.1	79.5	NA	NA		NA
35810	861	68	145.6	196.3	365.9	NA	NA		NA
35811	1051	130.3	217.6	140.4	141.3	NA	NA		NA
35813	358	126.8	120	103.2	71	NA	NA		NA
35824	68.4	52.8	37.8	70.9	41.5	NA	NA		NA
35827	62.9	70	147.1	50.6	78.8	NA	NA		NA
35832	24.3	36.1	62.6	105.2	46.5	NA	NA		NA
35839	127.5	117.9	141.3	129	121.2	NA	NA		NA
35840	75.4	ND	ND	ND	108.1	NA	NA		NA
35844	90.3	108.9	72.2	98	58.2	115.2	NA		NA
35848	54.7	25.6	49.4	47.3	51.2	NA	NA		57.1
35852	166.7	88.7	145	123	78.5	NA	NA	B1	106
35857	145.8	89.1	104.6	74.7	69	NA	NA		NA
35863	692.4	594.8	101.9	210	177.5	NA	NA		NA
35865	126.3	113	99.9	41.1	42	NA	NA		NA
35866	124.2	50.2	63.4	67.7	88.7	NA	NA		NA
35872	106.8	151.5	85.4	111.5	105.5	NA	NA		NA
35876	1674.3	267.2	384.1	558.9	1044.7	NA	NA		NA
35879	370.9	243.3	132.3	132.2	710.4	NA	NA	B1	163

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
35885	1320.6	537.8	254.3	534.6	619.8	NA	NA		1480
35893	851.3	127.4	170.3	197.9	402.7	NA	NA		NA
35901	205	125.6	77.9	283.7	272.8	NA	NA		NA
35906	107	70.4	96.8	158.7	90.6	NA	125.7		NA
35927	1929.6	431.6	159	1429.6	180.4	NA	NA		NA
35930	379.5	223.4	193.3	194.2	217.9	NA	NA		NA
35936	305.1	64.4	88.3	89.8	78	NA	NA	B1	66.4
35940	227.7	128.7	76.1	20.2	71.2	NA	NA		NA
35951	647.2	215.8	804.4	204	522.4	NA	NA		NA
35953	4385.8	337.1	191.4	272.2	183.2	NA	NA		4080
35967	4147.2	223	209.8	270.4	94.6	NA	NA		NA
35970	182.1	53.5	62.5	87.1	82.6	NA	NA		NA
35972	899.5	221	134.2	123.1	160.9	NA	NA	F1	274
35984	765.2	174.2	166.8	531.2	511.2	NA	NA		NA
35987	1203.9	189.6	303.9	291	338.3	NA	NA	B1	327
35996	2860.9	166.2	572.2	588.3	578.3	NA	NA		NA
35998	636	151.8	98.7	107.2	207	NA	153.1		NA
35999	492.8	50.5	97.5	83.2	123.5	NA	60.7		NA
36012	1322.7	113.6	558.4	121.9	155.1	NA	NA	B1	143
36018	59.9	78.3	178.8	120	80.9	NA	NA	B2	49.7
36028	106.9	95.6	139	137.8	91.9	NA	NA		NA
36036	67.6	238.8	165.7	243.8	143.2	NA	NA		NA
36041	60.3	88.4	312.1	52.5	61.9	NA	NA		NA
36044	267.9	95.9	120.9	161.6	92.5	NA	NA		NA
36064	87.1	134.2	169.9	154.9	75.8	NA	NA	B1	193
36076	101.6	159.6	69.6	130.7	649.3	NA	NA		NA
36085	520.5	191.7	91.1	238.4	141.2	NA	NA		NA
36087	439.6	509.6	158.6	230.8	183.9	NA	NA		NA
36097	242.8	61.8	81.6	85.3	109.2	NA	NA	B2	130
36118	272.6	178.4	95.4	215.8	160.4	NA	NA		NA
36120	340.2	63.8	132.3	177.7	257.2	87	NA		568
36134	210.7	98.5	49.4	102.8	88	NA	NA		NA
36142	98.9	86.1	97.6	115	142.7	121.3	88.6		NA
36145	1957.2	123.9	181.6	736	396.7	NA	NA		NA
36147	725.5	116	90.6	233.2	79	NA	NA		NA
36152	2975.8	372.7	746.5	616.3	741.2	NA	NA		NA
36153	96.4	72.4	69.3	56.1	52.1	NA	NA		NA
36159	286.2	ND	262.7	130.8	44.9	NA	NA		NA
36162	755.2	320.6	279.8	266.4	171.4	624.4	NA	F1	696
36163	1189.6	289.2	310.4	187.1	850.4	NA	NA		NA
36172	40	86.9	70.9	120.2	109.8	NA	NA		NA
36178	186.8	33.3	33.5	68.3	169.3	NA	NA		179
36193	77.8	63.5	45.8	72.4	101.2	NA	NA		NA
36196	152	83.3	74.1	46.1	109.8	NA	NA		NA
36209	ND	78.3	109.5	259.2	158	NA	NA		127
36216	51.4	61.9	126.1	50.7	45.3	NA	52.1		44.9
36224	740.4	162.3	128.9	144.2	111.6	135.1	NA		NA
36225	136.7	ND	ND	75.7	ND	NA	NA		NA
36227	1543.9	345	277.6	309.6	505.1	448.8	NA	Garden	480

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
36234	69.6	108.5	199.7	89.8	32.7	NA	NA		NA
36236	280.2	46	ND	76.5	NA	NA	107.9		NA
36247	585.6	188.7	184.1	82.5	452.4	NA	NA		NA
36248	84.2	96	87.1	123	67.4	NA	NA		NA
36250	78.1	151.3	NA	82.3	84.5	NA	NA		NA
36253	406.7	83.7	56.7	140.5	105	NA	NA		NA
36255	727.2	200.3	44.2	210.2	175.5	NA	NA		NA
36261	749.2	91.8	156.9	504	325	NA	NA	F2	130
36263	2075.1	130.7	316.9	205.1	682	NA	NA		NA
36272	2595.1	179.1	211.4	271.4	234.3	NA	NA		NA
36275	1216.8	135.8	322.2	211.8	112.6	NA	NA	F1	197
36279	ND	177.2	84.4	40.8	70.9	NA	NA		NA
36288	1449.6	278	372	449.6	201.6	NA	NA		NA
36293	135.2	190.7	130.3	661.3	132	NA	NA		NA
36299	116.2	71.7	73.9	29.2	47.7	NA	NA		NA
36305	86.3	76.2	149.6	47.4	53.4	NA	NA		NA
36313	433.8	94.6	58.7	193.7	103.1	NA	NA		486
36315	142.1	91.5	124.9	40.8	66.7	NA	NA		NA
36320	89.6	72.6	165.4	36.9	68.4	NA	NA		NA
36322	162.5	89	112.9	101.4	57.3	NA	NA		NA
36324	NA	155.9	NA	195.4	130.8	NA	NA		NA
36329	96.9	60	54.1	ND	28.6	NA	NA		NA
36340	76.6	213.5	187	71.6	190.2	NA	NA		NA
36341	NA	141.1	NA	111.2	195	NA	NA	F1	265
36350	149	108.3	67.2	52	60.1	NA	NA		NA
36357	596	115.7	223	114.5	126.7	NA	NA	B2	198
36358	182.1	207.5	236.9	392.5	37.1	NA	NA		15.2
36360	135.7	243.9	122.4	243.1	266.6	NA	NA		NA
36370	49.5	40.8	31	57.3	36.7	NA	NA		NA
36377	52.5	50.7	81.1	76.5	48.5	NA	NA		NA
36384	41.9	24.9	35.7	52.9	54.3	NA	NA		NA
36389	105.5	75.2	47.4	101.8	65.1	NA	NA		NA
36404	888.5	107.6	62.1	255.5	270.8	NA	NA		NA
36407	2157.7	886.6	251.6	350.4	226.8	NA	NA		NA
36423	ND	44.8	174.4	57	51.8	NA	71.4		NA
36430	1171.9	209.6	388.1	567.1	228.7	NA	NA		NA
36443	391.6	126.7	189.7	108.3	129.7	NA	NA		NA
36444	558.7	379	180.7	192.4	136.6	NA	NA		NA
36449	1119.2	33.8	110.1	131.8	114.2	NA	NA		NA
36466	68.4	33.5	78.3	51.5	73.5	NA	NA		NA
36474	276.4	127.9	112.2	NA	410.4	NA	NA		NA
36478	2018.9	532.8	443.8	244.5	398.7	NA	NA		NA
36479	520	216.6	437.6	267	368.8	NA	NA		NA
36489	164.9	100.9	73.6	488.8	321.3	NA	NA		NA
36502	468.2	106	131.6	106.3	118.5	NA	NA		467
36503	456.2	75.3	61.3	64.6	70	NA	NA		NA
36510	364	147.5	266.6	330.4	210.6	NA	NA		NA
36512	459	213.2	341.7	260.1	391.8	NA	NA	F1	278
36518	615.4	136.8	152.9	215.8	153.8	NA	NA		NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
36520	1333.4	142.9	170.2	243.6	234.8	NA	NA		NA
36522	1727.7	288	165.8	98.1	168.5	NA	NA		NA
36523	NA	107.9	46.6	81.7	126.1	NA	NA		NA
36527	530.8	150.1	175	356.4	336	NA	NA		NA
36543	440	59.4	62.4	63.6	ND	NA	NA		NA
36545	2006.1	260	291.6	322.1	NA	NA	NA		NA
36547	2459.2	448	393.4	498.4	274.8	NA	NA		NA
36552	119.8	100.1	124	92.1	117	NA	NA		NA
36571	223.2	175.8	140.5	346.8	179	293.7	NA		NA
36575	1373.2	100.3	121.3	56.6	77.8	NA	NA		NA
36588	41	53.4	48.5	57.8	42.1	NA	47.8	B2	57.1
36589	351.2	84.4	54	154.5	169.7	NA	190.8		NA
36591	333.6	95.7	92.2	141.3	112.5	NA	NA		NA
36596	442.5	34.9	76.2	42.9	23	NA	NA		NA
36597	98.7	132.6	NA	52.1	99.4	NA	NA		NA
36606	48	64.1	52.8	58.2	33.1	NA	NA		NA
36612	813.1	88.9	142.5	270.3	154.4	NA	NA		NA
36620	116	84.9	57.8	90	56	NA	NA		NA
36623	750	170.8	411.2	385.8	482	NA	NA		NA
36626	138.3	40.5	110	102.1	132.7	NA	NA		NA
36629	672	245.4	286.8	183	148.3	NA	NA		NA
36632	74	60.3	71.8	60.9	53.1	NA	NA		NA
36642	120.2	61.8	54.4	112.9	78.8	NA	NA		NA
36643	1300.7	NA	NA	137.2	177.3	NA	NA		NA
36645	85.7	38.7	57	25.6	55.5	NA	NA		NA
36648	117.6	81.5	91.3	152.2	145.5	NA	NA		NA
36661	99.2	101.9	57.2	75.7	49.9	NA	NA	F1	108
36677	606.4	155.7	476	276	489.6	NA	NA		NA
36685	164.6	63.1	83.2	81.7	50.8	NA	NA		NA
36691	94.8	154.8	125.2	98.6	132.2	NA	NA		NA
36700	1167.8	424.6	312.3	240.5	334.5	NA	NA		NA
36702	86.5	27.2	23.9	86.2	38.5	NA	NA	B1	61.3
36705	155.7	81.7	113.5	68.2	70.8	NA	30.1		NA
36709	1462.9	190.6	315.2	270.9	398.9	NA	NA		NA
36711	853.6	238.4	404.2	147.6	200	NA	NA		NA
36714	132	230.4	331.2	249.2	724.8	NA	NA		NA
36732	103.8	140.5	54.3	138.1	133.8	NA	106.7		NA
36733	471.4	160.4	118.4	96.1	221.7	NA	NA	B2	326
36737	35.2	48.6	35.8	118.1	45.1	NA	64.4		NA
36752	1335.9	247	358.2	147.9	259.6	NA	NA		NA
36755	661.5	108.7	126.2	150.9	96.4	NA	NA		NA
36769	1710.1	216.7	147.9	531.7	NA	NA	NA	F1	311
36785	536.4	48.8	291.2	284	374.8	NA	NA		NA
36787	35.6	57.4	55.4	82.2	53.9	NA	NA	F1	351
36802	122.7	45.7	60.2	145.5	61.7	NA	NA	B2	73.5
36803	206	69.1	128.5	71.2	39.2	NA	NA		NA
36804	205.9	94	29.5	149.8	68.2	NA	NA		NA
36806	691.2	533.2	218.6	156.1	200.8	NA	NA		NA
36809	640.2	97.6	68.3	58.2	46.5	NA	NA		NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
36832	907.5	174	195	390.4	302.3	NA	NA		NA
36836	2117.5	161.2	186.9	490	313.7	NA	NA		NA
36838	81	72.5	98	64.9	53.8	ND	ND		NA
36852	49.7	59.4	80	71.4	38	NA	NA		48.1
36855	51.6	86.6	83.8	95.2	66.4	NA	NA		88.1
36864	55.4	92.1	61.2	35.3	31.6	NA	NA		NA
36879	558	193.8	107.1	294.5	166.9	NA	NA		NA
36882	449.1	115	56.9	310.1	332.5	NA	NA		NA
36888	756.7	108.5	331.9	188.7	206.8	NA	NA	B1	418
36891	366.6	319.6	117.1	107.9	116	NA	NA		NA
36899	1737.2	134.2	288.3	253.6	238.6	NA	NA		NA
36900	724.2	222	190.6	91	524.9	NA	215.6		NA
36903	273.9	139.8	178.8	322.5	164.9	NA	NA		NA
36906	332.5	120.9	44.8	180.1	137.5	NA	NA		NA
36908	79.3	114.7	147.7	78.4	96.7	NA	NA	B2	104
36915	177.8	38.8	41.2	99.9	112.2	NA	NA		NA
36918	308	182.8	89	65.4	87.4	NA	NA		NA
36928	250.1	87.5	155	104.4	99.3	NA	69.6		NA
36932	610	64.7	52.5	89.3	36	NA	NA	B2	36.5
36942	1549.6	349.6	368.8	NA	138.5	NA	NA		NA
36949	206.1	113	95.1	60.2	24.4	NA	NA		NA
36958	91.6	64.8	51.4	132	97	NA	NA	F2	66.3
36964	124.6	53.4	43.9	35.4	43.2	NA	NA		NA
36979	627.6	143.1	361.5	108.6	147.2	NA	NA	B1	114
36982	1711.4	77.2	67.1	86.2	372.8	NA	NA		NA
36987	147.7	64.8	54	54.9	134.9	NA	NA		NA
36990	284.6	60.8	201.9	246	377.4	NA	NA		NA
37002	2571.7	88.3	143.4	99.9	260.3	NA	NA		NA
37009	110.3	32.4	116.5	50.2	92.7	NA	NA		NA
37010	812.3	299.2	106.5	168.9	186.2	136.5	NA		NA
37011	1560	273.2	179.9	164.5	508.8	NA	NA		NA
37015	61.1	41.9	34.4	ND	30	NA	NA		NA
37019	1133.4	343.4	356.4	287.6	418.8	NA	NA		NA
37027	101.4	102.8	53.8	43	95.4	NA	NA		NA
37028	194.8	57.5	20.1	33.4	56.6	NA	NA	B1	45.5
37039	59.1	133.7	153.6	82.4	76.7	NA	NA		NA
37042	43.5	62.2	89.5	35.7	30.6	NA	NA		NA
37053	1060	377	279.8	208.8	182.7	NA	NA		NA
37063	3692.2	246	228.6	NA	270.6	NA	NA		NA
37066	1282.9	201.1	134.6	242.8	822.7	NA	NA		NA
37069	797.6	1120	668.4	454.4	247.6	NA	NA		NA
37070	3397.2	327.9	107.6	224.9	151.5	NA	NA		NA
37081	1243.5	339.1	334.9	318.9	257	NA	NA		1460
37086	1040	177	154.5	136	343.4	NA	NA		451
37089	32.4	54.5	36.6	45.4	61.7	NA	33.5	B1	58.2
37090	370	139.1	137.3	213.6	226.6	NA	NA		NA
37094	120.2	49.2	48.6	51	51.9	NA	NA		NA
37095	55.2	44.8	61.2	72.9	97.7	NA	NA		NA
37099	1652.6	446.7	564.5	483.1	295.7	NA	NA		NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
37100	1615.1	124.4	192.1	1151.4	556.6	NA	NA		NA
37109	646.4	304.9	218.6	601.2	265.5	NA	NA		NA
37111	3000	99.1	619.2	345	397	NA	NA		NA
37114	77	127.6	771.1	217.8	109	NA	NA		NA
37119	97.7	40.8	57.7	80.8	27.2	NA	NA		NA
37128	815.3	165	146.7	540.7	502.1	NA	NA		NA
37129	91.9	73.5	78.3	80.5	139.2	NA	NA		NA
37131	60.6	28.3	61.5	41.9	55.2	NA	NA		NA
37132	111.5	70.6	102.9	86.6	220.2	NA	NA		NA
37133	1220	183.3	196.8	NA	248	NA	197.8		NA
37137	660.8	123.2	158.4	267.2	260.4	237	NA		NA
37138	59.3	32.7	58.5	34	30.9	NA	NA		NA
37141	88.4	82.8	78.8	43.1	37.9	NA	NA		NA
37144	112.3	204.2	116.6	NA	NA	NA	NA		NA
37146	56.5	41.4	55.7	37.4	54	NA	NA		NA
37147	126.7	95.6	75.9	103.8	51	NA	NA		NA
37149	895	160.5	130.1	259.2	139.7	NA	NA		NA
37160	165.7	43.2	53.8	172.7	84.3	NA	NA		NA
37185	1640	105	137.2	170.6	233.8	NA	NA		NA
37196	36.7	39	38.7	28.6	26.7	NA	NA	F1	31.1
37199	182.9	93.1	82.5	205.8	318.5	495.1	NA		NA
37200	440	206.2	129.7	169.2	292	NA	NA		NA
37202	235.6	92.3	76.1	155.9	137.8	NA	NA		NA
37207	129.4	140.6	128.4	95.7	113	NA	NA		NA
37221	224.5	149.4	173.9	154.8	258	NA	NA		NA
37228	244.6	93.5	96.7	121.2	223.1	130.8	NA		NA
37229	817.6	296.1	308.3	142	248.2	NA	NA		NA
37231	50.6	43.4	20.9	23.2	49.3	NA	NA		NA
37232	163.9	20.3	44.9	ND	43.5	NA	NA		NA
37233	280.2	189	300.4	154.7	ND	NA	NA		NA
37234	390	36.8	ND	53.1	50	NA	NA		NA
37238	109.5	465.6	438.8	107.2	181	NA	NA		NA
37240	82.5	215.8	183.1	120.4	79	NA	NA		NA
37244	126.9	200.6	45.5	62.1	70.5	NA	NA		NA
37246	81.7	51.1	57.7	58.1	46.5	NA	NA		NA
37260	507.7	115.1	362.7	189	158.7	NA	NA		650
37264	113.9	59.9	54.6	65.6	30.4	NA	NA		NA
37265	212.8	107	90.3	76.4	116.4	NA	NA		NA
37266	38.6	38	93	41.5	42.1	NA	NA		NA
37273	21.2	44.2	30.9	41.3	49.8	NA	NA		NA
37277	567.9	226.3	211.7	112.7	255.4	NA	NA		845
37283	83.9	28.1	38.8	91.4	38.9	NA	NA	B1	103
37284	358.3	76.2	74.8	49.5	124.3	NA	NA		617
37285	1758	138	128.2	277.2	191.7	NA	NA		NA
37288	57.7	43.4	60.6	63.7	155.7	NA	NA		NA
37292	471.2	134.4	127.5	188.3	245.8	95.9	NA		NA
37295	317.8	197.9	142.4	NA	175.8	NA	NA		NA
37309	629.5	191.2	137.5	107.5	85.8	NA	NA		NA
37310	1765.1	366.1	114.9	215.6	313.5	NA	NA	B1	288

Appendix A
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Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
37320	103.2	87.9	57.7	60.2	46.6	NA	NA		NA
37322	28.3	43.4	36.3	ND	48	NA	ND		NA
37327	46.9	26.7	55.8	42.5	77.5	NA	NA		NA
37334	342.4	75.3	102.4	330	312.6	NA	NA		NA
37335	NA	250	165.5	276.4	149.1	NA	NA		NA
37338	ND	50	32.1	43.2	ND	NA	NA		NA
37346	55.4	137.6	25.1	29.4	ND	NA	NA		NA
37348	32.8	88	124.7	51.2	ND	NA	NA		NA
37353	1012.4	226.1	327.5	484.9	717.9	NA	NA		NA
37360	68.6	68	39.8	49.6	49.9	NA	NA		51.9
37365	414.8	282.8	105.4	282	145.6	NA	NA	F2	164
37371	799.2	113.3	118.5	121.1	105.1	NA	NA	B1	145
37378	45.4	42.8	43.8	37.7	26	NA	NA		NA
37386	1368.2	144.2	160.5	117.2	1222.3	NA	NA		NA
37399	NA	245.6	150.2	131.1	NA	NA	NA		NA
37408	30.1	174.6	158.5	44.5	64.7	NA	NA		NA
37409	271.8	58.9	81	41.1	100.5	NA	NA		NA
37410	352	178.4	272.5	1149.2	275.7	NA	NA		NA
37411	781.3	143.7	108.7	99.1	84.2	NA	NA		NA
37415	1569.6	118	216	253.2	331.8	NA	NA		NA
37430	1169.6	631.2	100	464.4	159.8	NA	NA		NA
37440	135.4	80.8	108.5	143.4	99.8	NA	NA		NA
37447	221.9	91.9	97.3	72.8	68.3	NA	NA		NA
37454	883.8	151.1	131.6	164	169.7	NA	NA		NA
37462	34.8	47.1	41	34.7	35.1	NA	NA		NA
37468	63.2	66	59.8	54.9	64.4	NA	NA		NA
37469	166.5	NA	41.3	79.5	154.7	NA	NA		NA
37471	38.5	32.6	44.2	41.1	34.4	NA	NA		NA
37472	29.4	54.1	76.4	43.9	59.2	NA	NA		NA
37478	46.1	47.9	47.3	35.1	70.6	NA	NA		NA
37483	1513.9	152.4	131.2	206	181.4	NA	NA	B1	216
37486	293.7	89.1	129.2	129.5	410.5	NA	NA		NA
37489	41.8	70.8	55	33.5	46.3	NA	NA		NA
37491	523.2	181.5	162	159.5	82.1	NA	NA	B1	186
37494	264.8	237	249.4	111.3	130.2	NA	NA		NA
37497	545.6	136.9	141.2	222.4	140.4	NA	NA	B1	262
37502	326.8	133.2	93.2	107.6	103.2	NA	NA		NA
37504	1040	97	241.6	112.2	158.1	NA	NA		NA
37505	398.2	162.9	70.6	111.6	141.9	NA	NA		NA
37511	63.9	61.8	109.1	60	53.5	NA	NA		NA
37516	120.9	39.9	49.8	69.8	83.1	NA	NA		NA
37517	113	85.3	96.9	51.1	42	NA	NA		NA
37520	448.4	91.4	101.9	40.1	50.7	NA	NA		NA
37536	54.8	70	96.8	80.7	130.9	42.5	NA		NA
37539	105.8	79.1	30.2	133.3	126.5	NA	18.8		NA
37541	59.6	51.9	75.6	100.1	59.5	NA	NA		NA
37548	312.4	95.3	107.8	35.3	20.7	NA	NA		NA
37551	162.9	77.6	67.2	79.7	52.9	NA	NA		NA
37559	120.1	100.6	64.2	NA	90.5	NA	NA		NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
37561	358.2	70.8	88.6	209.5	107.4	NA	NA		NA
37567	102.5	150.8	142	489.3	140.6	NA	NA		NA
37582	886.7	146.7	153	232.4	127.5	NA	NA		NA
37584	44.3	493.6	133.7	234.4	198	NA	NA		NA
37588	75.6	47.3	23.9	46.2	52.6	NA	NA		NA
37598	27.7	32.6	80.9	32.6	45.6	NA	NA		NA
37601	90.6	60	60.8	59.8	123.5	NA	NA		NA
37602	507.9	114.8	77.3	305.1	182.1	NA	NA		NA
37611	134.1	296.9	116.2	83.4	448.9	NA	NA		NA
37615	836	237.6	182.2	220.4	128.3	NA	NA		1800
37618	106.7	56.4	43.1	74.2	29.7	NA	NA		NA
37619	82.9	71.2	67.8	44.4	57.4	NA	42.7		118
37620	982.4	161.6	161.1	301.4	183.8	NA	NA		4130
37638	315.8	190	177.8	97.1	192.5	297.8	NA		NA
37640	1260	123.8	92.3	161.5	75.5	NA	NA		NA
37647	856	268.4	241.6	253.6	128.1	NA	NA		NA
37649	473.2	147	320	326.8	NA	NA	NA	F1	177
37651	1188.2	147	101.4	NA	245.4	NA	NA		NA
37655	2780.4	164.4	534.9	229.9	185.7	NA	NA	B1	304
37657	139.2	34.5	51.9	59.8	61.1	NA	NA		NA
37672	64.1	32.6	47.7	55.8	44	NA	NA		NA
37675	154.1	98.1	76.7	220.8	72.6	NA	NA		NA
37681	117.8	39.9	88.5	67.2	53.4	NA	NA		NA
37690	343.7	295.5	133.9	289.8	132.3	NA	NA		NA
37692	122.7	187.4	168	251.2	229.4	NA	NA		NA
37695	63.2	38.8	47.2	45	ND	NA	NA		42.5
37698	804.8	148.1	137.1	81.8	481.6	NA	NA		NA
37699	808.5	183.6	210.4	153.1	298.3	NA	215.6		NA
37702	1622.6	137.6	421.5	424.7	184.5	NA	NA		NA
37703	154.1	67.7	27.9	59.5	41.5	NA	NA		NA
37704	64.6	41.2	62	86.5	57.8	NA	NA		57.6
37718	120.6	67.2	42.4	60.8	96.8	NA	NA		NA
37719	472.1	164.9	130	489.2	122.3	NA	153.6		NA
37720	218.7	97.2	86.3	305.8	194	NA	NA		NA
37726	261.2	55.7	90	32.1	55.3	NA	NA		NA
37728	175.9	108	180.9	76.2	96	NA	NA		NA
37735	177.8	174.9	293.3	213	160.2	NA	NA		NA
37737	32.8	47.5	49.7	41.4	52.5	NA	NA	F2	55.1
37743	1699.2	306.2	745.6	156.5	529.6	NA	NA		NA
37744	89.5	56.3	47.6	185.4	94.6	NA	70.1		NA
37755	1035.3	191.9	196.6	424.3	223.2	NA	NA		NA
37779	250.8	102.4	91.5	NA	129.6	69.1	NA		NA
37780	1252.8	208.4	204.9	289.3	350.2	NA	NA		NA
37782	1319	147.1	134.8	140.1	112.2	NA	NA	F2	175
37822	93	56.7	122.5	128.9	125.9	51.6	NA		NA
37826	99.8	87.7	68.8	51.9	69.3	NA	69		139
37833	71.1	65.2	63.6	74.9	74.1	NA	NA		NA
37850	151.4	72.4	67.5	146.8	95.5	NA	NA		NA
37852	72.6	53.3	51.6	34.8	59.7	NA	NA		NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
37853	28.1	73.2	108.4	95.4	124.2	NA	NA		NA
37854	100.6	169.6	147.7	152.1	144.4	NA	NA		NA
37858	52.5	70.4	189.7	89.8	56.9	NA	NA		NA
37862	920.4	72.5	95	108.4	174.1	NA	NA		NA
37871	48.7	59.4	57.3	60.8	77.2	NA	NA		NA
37873	106.1	67.8	32.2	52.2	42	NA	NA		152
37874	60	104.6	96.8	88.3	83.7	NA	NA		NA
37875	229.8	62.9	64.7	50.2	52	NA	NA		NA
37879	150.4	189.8	135.2	155.1	127.4	NA	NA		NA
37883	21.3	102.3	67.5	122.9	42.7	NA	NA		NA
37885	85.3	50.9	37.1	40.6	51.2	NA	NA		NA
37897	48.7	57.8	45	39	104.2	NA	32.4		NA
37898	130.6	68.8	71.5	NA	40.8	NA	NA		NA
37901	245.6	263.1	96.3	190.5	228	NA	NA		NA
37902	164.9	129.8	88	72.8	99.4	NA	NA		NA
37911	114.2	76.8	173.9	105	91.7	NA	NA	B1	111
37923	1540	1309.6	968.8	157.2	197.4	NA	NA		NA
37940	4137.7	361.4	162.3	252.9	130.7	NA	NA		4390
37942	1038.3	206.8	352.2	92.3	245.9	NA	NA		2510
37945	845.6	307.6	121.8	242	159	NA	NA		NA
37946	299.8	84.6	109.8	64.9	91.4	NA	NA		NA
37952	57.5	56.2	61	55.6	65.8	NA	NA		NA
37954	95.1	253.7	49.8	68.7	54.4	NA	NA	F1	291
37955	54.6	59.6	55.9	39.5	52.9	NA	NA		NA
37959	570.8	235.8	184.2	242.4	159.9	NA	NA		NA
37963	53.4	31	NA	38.5	52.2	NA	NA		NA
37971	178	97.5	87.1	106.7	103.3	NA	NA		NA
37975	142.3	64	29.9	73	30.3	NA	NA		NA
37977	191	166.7	126.6	98.9	131.7	NA	NA		NA
37984	471.6	261.2	209	806.8	203	NA	NA		NA
37988	105	135.4	128.5	NA	70.7	NA	NA		NA
37999	174.3	138.6	174.5	40.4	47.7	NA	NA		NA
38003	1620	233	267.6	457.2	476.8	NA	NA		NA
38004	304.1	365.2	202.3	171.3	122.1	NA	NA	F2	303
38006	59.4	49.1	104.9	44.6	49.4	NA	NA	B1	38.3
38013	69.6	296.8	80	330.2	ND	45.8	NA		NA
38021	81.8	61.6	114.8	47.1	36	NA	NA		NA
38025	169.5	74.1	62.9	110.6	239.7	NA	NA	F2	68.9
38041	132.8	88.6	244.1	270.1	163.7	NA	NA		NA
38067	75.2	72.7	90.3	69.6	338.1	NA	NA		NA
38068	625.6	116.9	107.3	211.8	333.1	NA	NA	F1	124
38070	65	ND	ND	104.8	64.3	NA	134		NA
38071	570.4	81.7	92.6	90.8	288.1	NA	NA		NA
38080	279.5	83.1	32.3	76.1	72	NA	NA		NA
38082	121.6	49.2	232.7	154.8	190.3	NA	NA		NA
38083	184.8	133.7	54.7	66.4	117.4	NA	NA		NA
38094	450.4	265.8	174.8	2769.6	130.5	NA	732.4		NA
38096	103.9	34	61	66.2	71.3	NA	NA		NA
38100	942.7	46.6	58.8	71.9	200.2	NA	197		NA

Appendix A
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Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
38103	596.5	135.1	133.9	126.4	116	NA	NA		NA
38109	70.8	108.8	67.6	70.4	58.9	NA	NA		NA
38112	1212.3	106.1	70.1	308.4	194.4	NA	NA		NA
38114	250.1	128.6	107.6	176.8	NA	NA	NA		316
38123	1092.3	85.2	394.6	49	53.1	NA	NA		NA
38155	56	59.3	27.4	52.2	52.3	NA	NA		NA
38158	42.7	53.5	54	25.6	50.3	NA	NA		NA
38159	153.2	76.5	42.9	242.3	40.7	NA	NA		NA
38161	88	62.2	53.8	39	40.2	NA	NA		179
38162	56.7	36	20.8	212.1	34.3	NA	NA		NA
38164	106.1	64.8	62.4	115.7	41.1	NA	NA	F1	102
38165	50.1	114.4	58.5	69.1	88.6	NA	NA		NA
38167	423.1	112.5	55.6	150.3	119.5	NA	NA		NA
38183	613.7	35.3	63.9	48.9	60.5	NA	NA		NA
38185	27.4	136.3	156.9	119.1	82.7	NA	NA	F1	173
38193	34.1	28.5	48.3	58.1	56.2	NA	43.7		NA
38208	35.4	27	42.9	ND	45.3	NA	NA		NA
38213	135.1	80.1	50.5	173.8	141.1	NA	NA		NA
38223	97.5	85.7	189.3	123.5	75.8	NA	NA		103
38224	139.6	162.8	156	96.2	165.1	NA	NA		NA
38239	381.2	351.6	231	314.8	190.4	NA	NA		NA
38259	83.5	39.4	65.7	86.3	81.3	NA	NA		NA
38264	256.2	37.8	119.7	83.1	84.5	NA	NA	B2	160
38272	412.4	282.4	63.5	74.4	36.8	NA	NA		NA
38273	1779.2	198.4	191.6	685.6	365.8	NA	NA		NA
38274	215.2	202.5	195	138.1	217.7	NA	NA		NA
38275	374	132.2	111.7	117.5	198.5	NA	NA		NA
38282	313.8	121.4	139.8	150.8	390.4	NA	NA		NA
38283	207	245.4	124.6	105.4	69.5	NA	NA		NA
38285	147.8	52.3	83	53.9	108.8	NA	71.8		NA
38291	179	146	229.5	205	171	NA	NA		NA
38293	405.4	200.1	292	86.5	64.3	NA	94.6	Play	99.3
38295	40.8	62.9	61.6	52.8	NA	NA	NA		NA
38301	71	78.5	70.7	59.3	36.7	NA	NA		NA
38309	54	NA	106.9	NA	161.8	NA	NA		NA
38340	355.9	78.9	89.2	227.9	76.3	NA	NA		NA
38347	99.2	74.3	52.4	126.5	69.7	NA	NA		NA
38349	109.1	121.9	180.4	68.7	61.2	NA	NA		NA
38353	224.2	66.1	91.1	94.6	141.6	NA	NA		NA
38354	734	234.8	782	200.2	276.8	NA	NA		NA
38357	83.8	50.5	44	42.5	37.3	NA	NA		NA
38367	526.3	118.1	129.8	160.9	190.4	NA	NA		NA
38371	NA	52.9	52.3	70.2	49.5	NA	NA	B1	82.7
38372	NA	86.3	191.3	NA	NA	135.2	NA		NA
38385	131.3	NA	55	116.6	74.2	NA	NA		NA
38387	372.4	122	61.4	138.3	124.8	NA	NA		NA
38389	71.4	81.2	96.3	71.2	60.6	NA	NA		NA
38390	231.8	138.9	39.2	185.7	106.1	NA	NA		264
38391	639.8	252.8	140.3	138.7	105.9	NA	NA		657

Appendix A
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Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
38394	796.8	367.8	264.6	277	191.3	NA	NA		NA
38395	196	59.4	98.4	77.7	70.8	NA	62.2		NA
38398	345.2	80.4	91.7	136.7	124.2	NA	NA		NA
38402	177.6	215.6	271.9	98.2	167.5	NA	NA		NA
38406	NA	160.8	308.7	362.3	245.5	NA	NA		NA
38419	356.6	250.8	248.4	153.3	142	NA	NA		NA
38420	88.5	88.1	47.9	174.3	113.1	NA	NA		NA
38421	383	134.1	332.8	368.6	153.1	NA	NA		NA
38423	1409.3	372.6	284	343.9	123	NA	NA	F1	1160
38443	33.4	46.8	64.3	77.9	74	NA	NA		NA
38447	209.6	49.2	56.7	85.7	60.7	NA	NA		NA
38456	1667.7	177.1	112.6	119.3	97.1	NA	NA		NA
38459	47.2	62.8	61.7	44.1	88.5	NA	NA		NA
38465	57.7	67.1	25.6	52.8	86.1	NA	NA	B1	38.7
38469	265.7	98.2	84.4	82	134.5	NA	NA		NA
38470	44.2	33.5	45.1	44	44.2	NA	NA		19.9
38471	378.2	146.3	132	178.7	390.9	NA	NA		NA
38484	79.8	91.5	63	63.2	103.9	NA	NA		NA
38489	396.5	164.3	230.9	175.1	130.8	NA	NA	B1	182
38491	95.3	43.9	55.3	31	48.7	NA	55.3		NA
38493	188.5	177.6	115.7	40.9	39	NA	NA		NA
38497	1256.2	71.5	113.8	61.6	52.2	NA	64.7		NA
38519	133.8	76.4	66.4	60.6	47.3	NA	NA		NA
38532	729.7	400.6	148.8	675.1	437.4	NA	NA		NA
38534	90.7	44	52.2	40	68.7	NA	NA	F2	53.6
38539	874.1	129.9	146.9	214.8	305.8	NA	NA		NA
38545	189.1	NA	101.8	80.9	62.9	NA	NA		NA
38557	73.5	47.2	36.4	58.4	32	NA	NA		NA
38570	1617.3	127.9	137.3	145	276.1	NA	NA		NA
38572	2670.3	270.4	148	774	1004.1	NA	NA		3330
38574	1031.7	74.6	83.1	117.9	102.7	NA	NA	F2	102
38578	67.9	104.7	88.1	253.4	230	NA	NA		NA
38592	452	366.6	143.9	226.2	265.6	NA	NA		NA
38596	388.7	59.3	60.7	59.7	88.8	137.9	NA		NA
38601	ND	39.1	49.3	ND	44.1	NA	NA		NA
38616	776.9	434.5	191.4	NA	543	NA	NA		NA
38618	1890.3	140.8	238	NA	166.1	NA	NA		NA
38623	1371.7	136.2	196.7	190	201.9	NA	NA		NA
38626	156.1	111.9	86.1	94.1	77.5	NA	NA		NA
38635	132	162.5	170	59.2	203	NA	NA		NA
38641	234.2	101.7	91.6	93.2	115.6	NA	NA		NA
38645	495	189.7	169.1	277.7	275.5	NA	NA		NA
38646	527.2	77.2	158.1	237	233.8	NA	NA		NA
38647	648.8	93.8	70.2	69.1	108.4	NA	NA		NA
38648	526.4	92.1	125.4	394.7	349.1	NA	NA		NA
38662	1665	555.8	1255.2	245.5	178.8	217.9	179.7		2180
38664	2633.7	257.4	169	654.4	578	NA	NA	B1	1380
38668	650.3	150.3	119.6	127.2	423.3	NA	NA	F1	191
38670	496.4	187.6	197.5	250.8	138.8	NA	NA		NA

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Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
38674	1043.8	211.7	291.3	159.5	187.4	NA	241.8		NA
38685	65.6	97	56.9	60.2	69.9	NA	83.5		NA
38689	397	162.5	75.8	68.8	85.2	NA	NA		NA
38691	486.1	74.5	94.3	205.5	116.5	NA	NA		656
38694	134.2	60.9	103.3	93	129.9	NA	NA		NA
38695	863.2	52.4	74.3	56	72.5	NA	NA		NA
38699	444	254.6	342	125	128.1	191.8	NA		NA
38707	500.7	233.8	213.5	487.9	190.3	NA	NA		NA
38708	359.4	168.3	144.4	NA	NA	NA	NA		NA
38710	420.7	55.2	126.7	159.6	137.4	NA	NA		NA
38713	620.3	285.8	134.6	212.9	247.3	NA	NA		NA
38715	551.2	87.3	148.5	185.9	287.2	NA	NA		NA
38722	47.3	44.9	72.5	33.9	27.8	NA	NA		NA
38727	ND	58.3	25.4	529.8	49.3	NA	NA		NA
38732	264	142.4	185.8	102.6	58.2	NA	NA		NA
38739	183.1	75.6	71.1	59.9	72.1	NA	NA		NA
38744	258.5	152.5	81.4	107.9	171.6	NA	NA		NA
38746	168.6	81.7	181.6	267.8	74.8	NA	NA		NA
38747	77.8	271.4	104.9	68.1	ND	NA	36.1		NA
38767	1022.5	367.2	338.3	400.9	225.5	NA	NA		NA
38777	79.1	118.5	133.2	82.9	56.4	NA	NA		NA
38779	189.7	173.2	90.7	39.6	68.7	NA	48.3	B2	93.5
38783	628.4	139.5	176	610	NA	NA	NA		NA
38787	110.6	51.5	58.2	37.8	46.9	NA	NA		NA
38804	166.4	79.2	109	239	164.5	NA	NA		NA
38807	51.2	46	36.1	31.4	36.1	NA	NA		NA
38808	471.6	133.7	136.6	106.8	76.8	NA	NA		NA
38809	98.4	119.2	168	163	80.4	165.3	NA		NA
38811	762.6	204.5	121.2	78.6	190.3	NA	NA		1730
38813	865.7	244.7	442.4	207.9	202.8	NA	NA		NA
38816	192.9	308.2	198.3	252.2	334.8	NA	NA		242
38819	2409.6	152.4	321.6	310.4	148.9	NA	NA		NA
38820	74.2	67.3	50.4	43.5	31.5	NA	NA		NA
38822	1779.2	79	138.3	443.2	220.2	NA	NA		NA
38824	184.4	72.4	64.9	55.7	30.2	NA	NA		NA
38829	347.6	74.4	172.8	92.1	208.2	NA	117.1		NA
38832	1080.6	192.8	161.9	425.1	87.5	NA	NA	B1	639
38839	591.6	223.8	414	168.7	70.7	NA	NA		NA
38842	269.3	120.9	166.8	237.4	189.6	NA	NA		NA
38843	102.9	166.2	107.8	100	59.4	NA	NA		NA
38847	32.5	50.6	55.8	49.2	32.2	NA	NA		NA
38849	486.8	59.2	62.2	254.3	86.2	NA	NA		NA
38850	450.2	170.5	119.6	246.2	183.5	NA	NA		NA
38857	369	236.4	180.3	87.7	118.9	NA	NA		NA
38862	403.5	113.3	202.8	53.5	27.4	NA	NA		NA
38868	NA	68.7	80	87.8	191.1	NA	NA		NA
38869	149.5	90.7	54.3	52.8	102.2	NA	NA	F1	90.3
38873	551.2	194.6	237.7	347.9	215.1	NA	NA		NA
38877	102.3	97.8	66.3	96.4	95.3	NA	98.4	B1	133

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
38878	1035.6	80.5	120.9	208.3	218.9	NA	NA		NA
38881	416.7	145.4	479.3	NA	134.9	NA	NA		NA
38883	40.3	50.6	39.5	102.9	45.7	NA	NA		NA
38885	58	128.2	114.2	187.6	221.8	NA	NA		94.6
38886	130.9	83.4	87	183.9	328.1	NA	159.7		NA
38895	139.9	202.2	95.4	69.8	94.7	NA	NA		NA
38907	169.3	108	84.6	70.9	51.5	NA	NA		NA
38913	67.2	98.3	65.2	47.8	58.8	NA	NA		NA
38914	996.3	122.9	96.7	NA	239.5	NA	NA	F1	489
38918	64.3	48.3	77.5	133.9	35.1	NA	NA		NA
38927	54.7	97	61.8	181.4	196.5	NA	NA		NA
38929	80.7	48	73	49	50.3	NA	NA	B2	46.3
38932	77.2	75.4	60.1	52.4	52.9	NA	NA	F1	79.7
38935	559	87.3	137.4	110.2	198.2	NA	NA		NA
38936	121.8	62.2	122.6	50.9	37.7	NA	NA	F1	73.7
38942	55	266.4	99.2	52.7	40.8	NA	NA		NA
38944	32.8	95.6	49.8	102.8	56.5	NA	NA		NA
38954	644.5	81.3	292.2	227.6	119.8	NA	NA		NA
38955	269.7	164.2	121.6	126.6	188.6	NA	NA		NA
38959	679.8	119.9	139.5	208.7	161.7	NA	NA		NA
38965	417.7	112	214	180.8	221.5	NA	NA		NA
38974	71.4	108.6	70.4	73.3	48.2	NA	NA		NA
38983	56	378.6	58	81.8	60.4	NA	NA		NA
38985	186	118.1	97.9	54	79.4	NA	NA		NA
38993	91.1	140.5	120.5	156.6	118.4	NA	NA		NA
38997	191.3	88.3	59.7	51.5	92.3	NA	NA		NA
39000	1169.6	136.5	140.6	137.7	147.4	NA	NA		NA
39004	163.5	54.2	127.2	61.7	63.1	NA	NA		NA
39012	42.7	64.2	60.8	70	129.9	NA	NA		NA
39013	486.9	101	83.4	123.5	80.6	NA	NA		NA
39020	101.5	42.5	27.2	64.3	43.2	NA	42		NA
39022	608	ND	98.8	NA	163.3	NA	NA		NA
39023	62.6	59.2	NA	49.1	43.2	NA	NA		NA
39028	46.9	87.3	58	61	53.2	NA	NA		NA
39030	111.9	100.4	124.5	33	72.6	NA	NA		NA
39031	26.5	109.2	79.9	81.9	63.4	NA	NA		NA
39036	62.8	45.9	52.8	38.8	26.9	NA	NA	B1	32.4
39041	78.9	231.9	133.3	123.8	96	NA	NA	F2	169
39044	NA	75.5	29.3	ND	40.8	NA	NA		NA
39051	250.8	137.8	165.8	222.6	201.2	NA	NA		NA
39053	1020	219.4	199.9	74.3	52.9	NA	NA		NA
39066	48	76.8	47.2	118.4	111.4	NA	NA		NA
39072	689.6	76	50.8	168.4	368.1	NA	NA		NA
39073	289.6	70	89.9	65.3	76.3	NA	NA		NA
39075	265.5	157.3	162.4	48.8	139.9	NA	NA		NA
39083	129.4	47	56	74.7	35.6	NA	66.8		NA
39101	294.1	105.6	211.2	508.4	481.5	NA	NA		NA
39116	397.2	87.9	109.3	84.4	122.5	144.3	NA		NA
39133	201	79.2	54.4	100.6	92.5	NA	NA		NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
39155	103.1	127.3	400.5	37.5	71.2	NA	NA		NA
39157	45.3	48.9	46	129.9	29.1	NA	ND		NA
39163	43.7	92.7	71.1	ND	71.8	NA	NA		NA
39164	107.1	32.6	45.4	63	84.8	NA	NA		NA
39166	245.4	62.9	69	111.2	NA	NA	NA		NA
39169	86.2	90.4	53.2	23	49.8	NA	NA	B1	38.3
39170	115.5	50.9	52.5	29.3	100.4	NA	NA		NA
39172	61.1	82.6	190.3	32.9	58.9	NA	NA		NA
39173	376	82.6	128.8	210.3	147.8	NA	NA		NA
39176	84.7	64.3	110.9	20	69.7	NA	NA		NA
39184	317.5	72.5	129.6	81	128.7	NA	NA		NA
39187	124.6	101.9	108.2	813.3	198.7	91.3	NA		NA
39189	843.5	163.7	152.1	198.3	122.1	NA	NA		NA
39191	121.7	186.4	105.4	142.2	159.4	NA	NA		NA
39192	1847.8	111.5	144.1	303.5	281.6	NA	NA		NA
39207	184.1	66.2	238.1	60.3	56.4	NA	NA		NA
39211	314.5	115.2	78.5	55.7	164.6	NA	NA		NA
39220	281.8	80.3	625.2	61.9	104.1	NA	NA		NA
39224	54.5	47.3	41.4	71.1	17.7	NA	NA		NA
39229	213.8	71.5	63	121	79.3	NA	NA		NA
39233	71.3	53.6	54	48.7	44.5	NA	NA		NA
39247	47.7	60.7	90.3	48	63.1	NA	NA		NA
39250	659.5	110.2	139.7	377.1	156.4	NA	NA		NA
39253	63.7	97	34.4	34.6	41.2	NA	NA		NA
39258	106.7	54.6	47.3	53.6	29.8	NA	NA		NA
39259	86.1	33.4	46.1	38.8	45.6	NA	49.4		NA
39272	515.1	95.4	175.2	222	94	NA	NA		NA
39278	202.1	86.3	74.2	47.2	84	NA	NA		NA
39279	868.8	163.2	191.5	330.4	518	NA	NA		NA
39282	353	278.8	385.2	145.6	124.3	NA	NA		NA
39285	935.2	133.6	117.2	112.4	247.8	NA	NA		NA
39288	66.6	54.4	44.6	71.4	53.6	38	57		NA
39296	152.8	124.4	90.5	67.3	48.5	NA	NA	F2	85.7
39298	709.5	99.4	52.2	68.9	83.2	NA	NA	F1	110
39299	241.9	54.2	54	63.3	49.2	NA	NA		NA
39303	41.9	66.5	133.9	65.4	81.3	NA	NA		NA
39311	361	136.1	107	96.7	137.1	NA	NA		NA
39314	2238.9	448.4	168.9	209.9	247.4	NA	NA		NA
39326	511.7	133.7	101	154.4	194.2	NA	NA	B1	145
39327	350	158.1	94.3	111.5	170.7	NA	NA		NA
39329	119	389.4	179.3	41.3	37.7	NA	NA		NA
39333	53.3	164.2	205.4	77.1	73.9	76.2	NA		NA
39337	64.5	102.6	79.2	117.8	68.3	103.7	NA		NA
39339	188.4	89.4	102.8	85	89.7	NA	NA		NA
39342	1039.2	167.9	186.3	132.3	142.6	NA	NA		NA
39345	180	62	47.7	79	63.1	NA	NA	B1	53.8
39356	91.2	53.3	54.5	46.4	44.2	NA	NA		NA
39361	103.1	72.3	40.7	161.9	82.3	NA	NA	B1	172
39362	236.2	79.5	39.7	48.1	39	NA	NA		NA

Appendix A
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Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
39365	89.4	20.8	31	31	31.9	NA	NA		NA
39370	243.4	127.6	96.5	106.9	125.4	NA	132.6	F1	129
39371	133.3	81.2	41.1	28.9	49.3	NA	NA		NA
39384	746.3	105.2	97.7	120.2	210.9	NA	58.5		NA
39387	145.3	NA	106.6	53.4	50.8	NA	NA		NA
39392	128.1	66.2	18.1	104.6	17.3	NA	27.3		NA
39394	54	71	56.4	39.5	137	58.4	NA		NA
39401	122.9	51	61.8	84	53.6	NA	NA		NA
39410	74.2	58.8	55.8	37.6	56.9	NA	NA	B1	51
39411	51.3	42	20	83.6	74.2	NA	39.5		NA
39416	228.7	136.5	75.5	56.7	133.8	NA	NA	B1	68
39417	ND	45.6	59.2	92.2	76.5	NA	NA		NA
39419	94.2	59	59.1	90.4	63.2	NA	NA		NA
39422	545	99	102.9	303.6	159.8	NA	NA		NA
39424	711.3	293.3	460.6	257.1	97.5	NA	82		NA
39426	130.6	NA	ND	ND	96.9	NA	ND		NA
39443	31.8	42.8	102.1	134.9	39.2	NA	NA		NA
39444	369.7	192.7	113.8	178	223.8	NA	NA		NA
39445	688.2	284	184.9	121.7	NA	NA	NA		NA
39451	1036.5	106.7	118.6	229.4	156.2	NA	NA		NA
39455	762.8	258.4	368.2	456.8	323.4	NA	NA		NA
39464	173.2	34.2	27.1	27.5	26.5	NA	NA		NA
39470	168.3	178.3	93.7	131.3	79.3	NA	NA		NA
39472	97.1	120.5	138.7	129	178	NA	NA		NA
39478	35.2	189.8	107.8	49.5	39.6	NA	NA		NA
39480	118	159.1	237.2	69.1	33.6	NA	NA		NA
39483	302	131.8	150.6	187.2	317.6	NA	NA		NA
39489	4123.9	188.8	425.6	97	201.8	NA	NA		NA
39491	380.8	73.1	121.8	158.3	185.9	NA	NA		NA
39493	1300.4	394.1	144.8	452.7	243.9	NA	NA		NA
39498	900	322.4	159.9	104.3	154.4	NA	NA		NA
39500	411.6	195.7	134.5	291.8	180.4	NA	NA		NA
39502	52	46.4	32.4	54.8	46.8	34	NA		NA
39504	169.9	54.3	38.1	46.4	41.9	NA	NA		185
39508	379.7	122	121.4	123.9	239.9	NA	NA		NA
39509	65.5	63.7	52.1	49.9	43.4	NA	NA		NA
39511	76.4	54.8	35.6	37.2	32.8	NA	NA		NA
39516	67.7	25.6	39.5	47.5	50.9	NA	NA		NA
39518	120.6	74.3	51.4	49	ND	NA	41.8		NA
39532	45.9	55.7	42.7	33.7	49.6	NA	NA		NA
39533	73.3	39.4	47.6	42.8	55.5	NA	NA		NA
39534	833.6	135.2	132.7	178.7	91.9	NA	198.2		NA
39536	69	57.8	100.8	46.8	107.9	NA	NA		NA
39540	248.4	137.8	110.7	45.4	135.3	NA	NA		NA
39575	83.3	51.7	75.1	54.1	81.7	NA	NA		NA
39577	175.1	70.8	56.4	64.6	43.9	NA	NA		NA
39611	69	44.2	34.3	33.1	68.5	NA	NA		NA
39616	92.1	57.8	61.2	45.5	72.6	NA	NA		NA
39618	234.2	34.4	48.8	41.4	44.3	NA	41		NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
39631	133.8	69.3	71.1	77.1	52	NA	116.6		NA
39633	205.5	57	184.7	78.3	118.7	NA	NA		NA
39645	266	105.6	96.4	99.9	86.3	NA	NA		NA
39647	83.6	56.5	86.7	43	71.8	NA	NA		NA
39648	52.9	129.8	120.4	32.2	59.7	NA	NA		NA
39649	69.1	55.9	37.1	43.3	ND	NA	NA		NA
39657	690.8	241.2	246.4	257.6	NA	NA	NA		NA
39660	224.1	204.6	180.1	53.8	48.3	NA	38.2		NA
39678	724.9	279.4	219.5	143.6	541	187.8	NA		NA
39680	121.7	NA	53.4	80.4	80.8	NA	NA		NA
39700	175.4	266.6	256.4	227.4	303	NA	NA		NA
39701	50	63.8	35.8	78.9	78.4	NA	NA		NA
39705	195.8	47.9	50	55.1	31	ND	NA		NA
39708	272.5	134	168.7	170.9	99.4	NA	NA		NA
39709	54.1	272.6	283.2	40.2	32	NA	NA		NA
39713	495.2	107	153.1	261	588.4	NA	331.6		NA
39714	254.4	245.8	279	444	NA	215.2	NA		NA
39717	797.5	308.4	211.1	255.5	205.9	NA	169.8		NA
39722	763.5	252.3	87.7	244.5	NA	NA	NA		NA
39729	145.1	114.6	49.9	34.2	86.9	NA	NA		NA
39732	49.5	39	46	82.9	31.2	NA	25.1		NA
39737	691.3	102.9	123.1	101	50.3	NA	NA		NA
39740	1252.2	118.4	88.1	237.1	221.4	NA	826.3		NA
39744	468.7	173.1	217.4	354.8	314.4	NA	NA		NA
39746	605.3	171.2	235.1	591.1	352.3	NA	NA		NA
39747	77.4	69.1	110.1	79.5	55.4	NA	NA		NA
39749	111.1	40.8	57.7	55	58.3	NA	NA		NA
39751	135.1	54.5	104.2	71	74.6	NA	NA		NA
39752	737.9	324.4	322.4	368.6	NA	NA	NA		NA
39753	311.6	58.8	100.2	280.2	61.8	NA	63.6		NA
39769	460.9	121.1	111.9	175.4	520.9	NA	602		NA
39770	679.6	114.2	269	254.6	274.4	NA	NA		NA
39778	2157.1	135.2	256.3	440.1	494.2	NA	NA		NA
39780	938.4	204.6	392	NA	351.2	NA	NA		NA
39788	290.8	88.2	144.2	104	199.9	NA	NA		NA
39809	2088.2	351.9	188.4	273.3	309.8	442.2	NA	B1	300
39822	706.8	156	409.2	202	513.6	NA	NA		NA
39823	1180	109.5	198.1	257.8	318.8	NA	NA		NA
39829	475.6	100.2	64.5	392	858.4	195.1	NA		NA
39834	307.4	231	300.8	203.2	216.1	NA	362.9		NA
39840	672.7	115.7	54.6	911.4	162.2	420.2	NA		NA
39845	536	105	230.3	260.3	90.9	NA	NA		NA
39846	237.4	71.7	91.1	117.5	177.8	NA	NA		NA
39874	444.9	137.6	168.1	324.5	154.3	NA	258.1		NA
39884	23.4	103.1	63.2	40.4	96.8	NA	NA		NA
39888	297.5	296.6	95.8	113.1	85.4	NA	NA		NA
39892	3244.9	193.2	424.4	387.1	303.5	NA	NA		NA
39899	49.2	63.5	28.6	42.9	36.7	NA	NA		NA
39901	311.3	121.9	127.2	405.1	NA	NA	NA		NA

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Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
39916	395.4	165.1	200.7	297	512	NA	NA		NA
39922	561.1	158.4	82.7	185.1	192.5	NA	NA		NA
39924	454.2	120.9	138.8	259.7	375.3	NA	NA		NA
39928	616.4	67.3	131.2	249.1	514.3	NA	NA		NA
39933	510.4	216.4	549.6	536	201.6	NA	NA		NA
39935	34.6	37.1	48.3	ND	33	NA	NA		NA
39941	129.2	57.5	133	137.6	241.9	NA	NA		NA
39942	965.6	47	575.2	161	185.5	NA	NA		NA
39960	122.5	56.8	78.1	56	56.5	NA	NA	F2	71
39961	441.2	278.9	112.2	146.8	130.1	NA	NA		NA
39965	203.8	176.2	216.4	239.6	335.8	NA	NA		NA
39968	639	173.3	366.3	184.5	236.8	NA	NA		NA
39970	384.5	104.2	60	114.8	230.4	NA	NA		NA
39988	196.5	76.1	196.6	277.9	348.1	NA	NA		NA
39991	454.4	160	341.6	378.4	128.2	NA	NA		NA
39992	380.2	167.9	218.6	147.7	294.9	NA	NA		NA
39994	190.3	197	162.9	181.3	207.4	NA	NA		NA
39999	571.4	176.7	145.6	705.6	385.2	NA	NA		NA
40002	122.5	101.4	80.8	96.2	220.4	NA	NA		NA
40005	177.7	110.9	127.9	60.6	150.6	52	101.7	Garden	75.4
40027	1060.1	197.3	226.8	614.4	309.3	NA	NA		NA
40028	229	119.5	111.4	348.6	160.4	NA	NA		NA
40036	334.8	74.6	226.1	80.5	103.6	NA	NA		NA
40039	168.9	ND	26	90.1	124.5	NA	NA		NA
40040	891.2	273.4	317	499.2	344.8	NA	361	B2	454
40058	125.9	101.5	ND	201.7	114	NA	NA		NA
40060	53.8	42.1	38.5	28.1	ND	NA	NA		NA
40064	179.7	547.6	1920	100.8	84.7	NA	83		NA
40072	688.6	96.7	93	165.8	256.6	NA	NA		NA
40075	43.1	56.4	59.7	30.2	ND	NA	NA		NA
40079	173.4	255.6	96.4	211.2	231.2	NA	NA		NA
40082	804.8	98.1	92.6	298.4	219.6	NA	NA		NA
40104	41.7	38.5	32.5	60.7	59.1	NA	NA		NA
40117	48.3	41.8	28.1	32.1	36.9	NA	27.9		NA
40121	953.9	179.8	227.9	404.2	486.9	NA	NA		NA
40125	573.8	327.9	158	205.5	396.9	NA	NA		NA
40130	639.9	180.5	51.1	785.7	381.5	NA	NA	B1	798
40135	273	65.8	94.9	121.4	129	NA	NA		NA
40139	35	42.7	39.4	37.4	34.2	36.4	NA		NA
40141	150.4	239.7	244.6	179.5	82.1	NA	NA		NA
40142	104.5	39.4	78.9	55	117	NA	NA		NA
40144	1124.2	194.2	313.6	154.8	275.3	NA	137.5		NA
40150	195.6	114.2	137.5	105.2	146.1	NA	NA		NA
40157	242.4	84.8	114.5	45.4	94.5	NA	71.4		NA
40159	122.3	148.2	137	147.1	NA	NA	NA		NA
40164	451.7	204.5	246.3	117.9	333.8	NA	NA		NA
40186	415	140.5	174.4	80.5	83.4	NA	NA		NA
40193	150.7	82.9	88.2	67.2	86.1	NA	NA		NA
40196	482.9	58.8	77.3	102.2	271	NA	NA		NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
40204	92.9	26.5	86.3	113.3	188.6	NA	NA		NA
40205	931.9	228.8	225.3	96.3	68.3	NA	NA		NA
40206	1240	41.7	131.5	498	287.6	NA	NA		NA
40216	48.5	29.1	52.3	48.2	49.8	24.9	NA		NA
40227	257.6	65.1	84.5	231.2	177.7	NA	NA		NA
40228	2830.5	112.3	228.3	162.6	220.2	NA	NA		NA
40230	1480	138.8	65.5	185.5	490	NA	NA		NA
40231	3013.6	198.3	102.4	298.8	1212	NA	NA		NA
40234	141.3	61.5	95.2	36.8	51	NA	NA		NA
40240	566.6	68.5	102.5	185.3	225.4	NA	NA		NA
40247	238.4	101.4	102.2	252.4	121.7	136.7	NA		NA
40253	217.2	67.8	72.6	364.4	136.1	NA	NA		NA
40268	199.7	88.1	70.6	146.1	31.2	NA	NA		NA
40280	139.7	47	55.9	39.6	46.1	NA	NA		NA
40312	295.8	140.7	192.6	485.7	298	NA	279.7		NA
40314	484.8	153.4	159.5	164.8	155.4	NA	NA		NA
40317	4019.2	145.7	163.9	191	290.6	NA	NA		NA
40324	837.5	177.8	278.8	143.8	197.2	NA	NA		NA
40326	57.8	44.1	89.1	61.3	67	NA	NA		NA
40327	177	40.3	41.4	64.6	110.9	NA	NA		NA
40336	567.6	184.8	135.6	240.1	332.7	382.6	NA		NA
40341	367	203.9	168.3	335.4	87	NA	NA		NA
40344	106.3	97.2	54.6	106.2	72.7	NA	NA		NA
40350	791.8	89.4	94.1	113.1	328.7	NA	NA		NA
40351	293.2	434	264.6	NA	362.4	NA	NA		NA
40353	1501.1	124	115.2	307.1	1131.7	NA	NA		NA
40357	363.5	333.5	393.3	545.3	439.6	NA	NA		NA
40370	344.6	699.6	546	505.6	197.9	NA	NA		NA
40377	94.7	87.5	133	105.8	46.5	NA	NA	B2	43.5
40381	37.5	74.6	62.5	41.1	31.8	NA	NA		NA
40383	ND	26.1	30.5	ND	36.5	NA	NA		NA
40384	61.5	25.1	53.4	36.1	33.7	NA	NA		NA
40385	554	57.3	66.9	53.9	64.4	NA	NA		NA
40391	705.6	64.3	79.5	141.2	412	NA	NA		NA
40401	47.7	57.3	40.7	33.9	45.6	NA	NA		NA
40402	425.2	137	246.4	214.4	291	NA	NA		NA
40409	666.8	521.9	252.2	641.4	361.5	NA	NA		NA
40410	4824.4	109.1	104	343.6	254.1	NA	235.3		NA
40412	1317.1	97	86.2	205	250.7	76.9	NA		NA
40414	259.8	63.8	78.3	135	272.4	NA	NA		NA
40421	41	80.1	84.3	90.8	151.4	NA	NA		NA
40423	438.5	57.5	86.3	NA	NA	NA	NA		NA
40428	319.6	NA	158.9	676	169.1	ND	NA		NA
40429	589.6	71.4	110.5	122.1	313	NA	NA		NA
40430	1145.2	83.8	84.6	220.8	1115.4	NA	NA		NA
40434	61.3	61.7	92.7	46.5	56.4	NA	NA		NA
40439	398.7	67.4	62.3	118.1	105.3	NA	NA		NA
40440	847.2	167.3	128.5	94.9	111.5	NA	NA		NA
40441	476.4	104	194.6	214.2	52.9	NA	NA		NA

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Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
40443	1220	170.7	186.1	329	210.6	NA	NA		NA
40444	784.6	107.1	131.9	145.5	NA	NA	NA		NA
40449	662.4	152.8	74.5	278	151.4	459.2	NA		NA
40452	592	175.3	373.6	843.2	389	NA	NA		NA
40454	240.2	163.7	47.2	56.1	81.2	NA	NA		NA
40457	ND	ND	142.3	284.2	179.2	NA	NA		NA
40460	1166.3	294.2	81.3	920.5	192	NA	NA		NA
40469	319.5	110.1	179.4	170.5	186.6	NA	NA		NA
40471	978.1	58.1	42.9	72.2	59.5	NA	NA		NA
40474	348.8	121.7	79.6	196.8	130.4	NA	NA		NA
40494	120.2	102.8	67.7	41.3	25.7	NA	NA		NA
40498	1048.3	64.4	106.1	123.7	396.6	NA	NA		NA
40508	1014.7	524.6	301.9	547.4	349.4	NA	NA		NA
40518	203.1	268.4	193.5	159.9	140.7	73.8	NA		NA
40530	1139.2	163.7	75.2	208.4	102.1	580.2	NA		NA
40534	1190.4	249	184.4	266.2	192.4	NA	NA		NA
40538	212.9	57.8	140.6	402.9	NA	NA	NA		NA
40540	61.1	76.3	58	26.4	66.3	NA	35		NA
40547	574.4	97.2	146.2	112.8	136.2	NA	41.1		NA
40551	62.5	49.4	49.2	79.7	34.3	NA	NA		NA
40568	259.3	137.5	175.9	102.8	108	NA	NA		NA
40575	129	102.2	72.5	58.5	49.8	NA	NA		NA
40588	50.9	70.8	53	31.9	32.7	NA	NA		NA
40594	74.3	24.6	39	57.7	106.8	NA	NA		NA
40596	433.5	118	184.6	NA	826.9	NA	246		NA
40614	51	87.6	NA	50.5	78.1	NA	NA		NA
40618	263.6	154.8	101.4	107.7	158.3	NA	NA		NA
40620	116.5	78.2	87.7	91.4	109.7	NA	110.1		NA
40632	ND	23.8	NA	ND	25.6	NA	35.6		NA
40641	438.2	155.5	122.8	182.8	280.5	NA	ND		NA
40645	73.6	425.5	221.1	151.9	1606.6	NA	NA		NA
40654	30.2	193.3	147.7	48.5	75.1	59.9	NA		NA
40668	127.2	64.3	356	110.4	98.7	NA	NA		NA
40673	212.7	196.7	202.6	126.2	NA	NA	NA		NA
40676	185.8	72.4	63.2	33.1	98.4	NA	NA		NA
40681	258	77.8	57.6	42.6	74.5	NA	NA		NA
40690	470.6	99	135	145.6	238.8	NA	NA		NA
40691	105.7	187.7	50.5	61.2	NA	NA	NA		NA
40696	427.6	158.1	158.7	184.2	232.4	NA	NA		NA
40699	250.6	71.8	104.2	146	107.8	NA	NA		NA
40701	1524.6	289.5	82.1	NA	180.3	NA	382.1		NA
40708	293.7	94	63.6	103.5	262.9	NA	NA		NA
40716	595.6	65.3	95.5	79.3	60.2	NA	NA		NA
40725	908.9	209.6	96.4	NA	NA	NA	210.5		NA
40734	97.1	84	98.4	100.2	72.9	NA	NA		NA
40750	391.4	115	135.7	106	154.7	NA	NA		NA
40752	1380	322.2	301.4	207.4	175.9	NA	NA		NA
40767	2160	108	116.3	131.4	257	NA	NA		NA
40775	223.5	47	62	25.8	20.3	NA	NA		NA

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Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
40776	1477.1	202.4	3229.4	526	115.4	NA	NA		NA
40781	3600	94.1	268.8	108	242.8	NA	NA		NA
40809	113.9	55.2	49.1	57.7	54	NA	NA		NA
40821	148.5	55.6	63	41.2	53.1	NA	NA		NA
40824	614.3	130.4	113.7	188.3	NA	NA	NA		NA
40831	187.4	60.6	79.6	52.7	48.9	NA	NA		NA
40833	498.6	124.1	135.2	80.7	101.9	NA	NA		NA
40843	323.3	392	171.1	201.3	229.7	NA	NA		NA
40850	1000	151.3	128.4	158.5	144.1	NA	NA		NA
40851	140.4	71.7	67.5	123.4	91.1	NA	NA		NA
40856	151.3	60.6	93.5	300	203.2	NA	NA		NA
40859	53.6	44.8	41.4	47.5	64.7	NA	NA		NA
40860	187.3	62.6	112.2	165.6	53.2	NA	NA	B2	88.4
40878	412	117.8	86.2	106.9	NA	NA	NA		NA
40880	110.6	266.2	60.6	128.1	122	NA	NA		NA
40885	114.7	ND	45.7	61	ND	NA	NA		NA
40894	224	281	159.2	279.6	139.2	NA	NA		NA
40905	264	194.3	108.2	75.8	302.3	NA	NA		NA
40920	654	124.2	281.1	380	203.9	NA	NA		NA
40923	486	99.9	250.8	156.9	303.6	NA	NA		NA
40931	424.8	59.1	37.3	139.8	104.2	NA	NA		NA
40958	119.8	105.2	86.7	114.2	279.6	NA	NA		NA
40967	399	177.1	228.1	252.6	257.8	NA	NA		NA
40971	58.5	47.4	37	33.5	36.4	NA	NA		NA
40976	137.3	57.7	NA	51.4	50.8	NA	NA		NA
40978	110.5	68.9	NA	40.8	76.7	NA	NA		NA
40983	284.2	97.8	139.9	170.1	124.2	NA	73.3		NA
40985	130.4	103.5	119.2	67.2	73.9	78.9	NA		NA
40997	582.2	96	345.1	361.3	329.3	NA	NA		965
40998	47.1	40.1	34.1	34.5	29	NA	NA		NA
40999	693.4	175.1	111.2	346.8	116.2	NA	NA		NA
41006	888.2	110.3	122.3	392.2	603.4	NA	92.8		NA
41008	206.3	121.6	67.9	64	60.7	NA	NA		NA
41009	581.2	73.5	70.3	255.6	NA	NA	NA		NA
41012	202.3	208.2	109.6	39	52.8	NA	NA		NA
41015	1008.5	92.8	93.9	417	316.5	NA	NA		NA
41017	506.9	63.6	59.9	63.4	46.5	93.6	NA		NA
41029	627.3	125.1	520.5	407.8	244.1	NA	NA		NA
41047	101.5	142	237.8	181.7	166.5	NA	NA		NA
41051	367.2	364	203.6	297.2	200.7	123.2	NA		NA
41055	71.3	70.3	57.6	25.6	29.5	NA	NA	B2	25.7
41062	272.4	144.2	92	135.3	NA	NA	NA		NA
41063	1060	229.2	177.8	384	467.2	176.6	NA		1970
41076	69.9	126.5	57	26.6	38.6	NA	NA		NA
41078	384.1	94.9	78.5	90.8	109.7	NA	NA		NA
41086	70.9	85.5	74.3	46.4	94.4	118.9	NA		NA
41088	520.8	145.2	161.1	147.8	83.1	NA	NA		NA
41098	407.4	91.7	178.2	NA	NA	NA	NA		NA
41103	51.5	120.7	106.9	58.5	116	NA	NA		NA

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Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
41105	326.2	67.1	191.2	45.6	51.5	NA	NA		NA
41111	151.9	98.7	53	226	96.9	NA	NA		NA
41133	96.8	51.5	83.7	82.2	128.6	NA	NA		NA
41137	671.2	137.8	112	109.7	NA	NA	NA		NA
41146	190.9	64.5	55	92.6	71.4	NA	82.4		NA
41148	529.8	552.2	271.3	215.2	203.3	NA	NA		NA
41151	437.6	150.8	92.3	161.1	NA	NA	NA		NA
41152	191	251.9	166.5	152.5	597.3	NA	NA		NA
41157	889.6	169.8	124.7	323.4	200.3	NA	NA		NA
41162	152.5	113.4	131.3	122.7	77.3	NA	NA		NA
41175	428.7	91.2	86.7	136.1	284.4	NA	NA		NA
41183	196.4	170.1	108.4	352.8	197.1	114	NA		NA
41210	1559.5	64.9	102.9	603.9	67	NA	NA		NA
41248	136.7	21.6	53.2	35.6	67.3	NA	NA		NA
41251	142.5	171.1	400.7	109	252.4	87.9	NA		NA
41256	43.7	60.6	41.5	52	136.7	NA	NA		NA
41258	67.4	81.9	218.8	124.6	48.3	NA	NA		NA
41259	254.6	92.8	129.4	112.7	100.8	NA	NA		NA
41268	120.1	33.5	41.3	101.9	52.5	NA	38.9		NA
41275	141	56.4	54.4	31.7	40.1	NA	NA		NA
41277	266	228.9	143.5	179.2	126	NA	NA		NA
41286	218.1	54.4	41.6	36.8	56.5	NA	NA		NA
41288	47.6	31.4	32.4	56	ND	NA	44		NA
41291	232.8	109.2	108.2	NA	133.2	NA	NA		NA
41301	566	210.6	140	NA	201.5	NA	NA		NA
41303	122.2	108.4	148.4	224	331.2	NA	NA		NA
41316	45.3	36.1	49.5	ND	34.5	NA	ND		NA
41317	704.4	179.1	209.8	244.6	430.4	NA	NA		NA
41324	405.5	202.2	141.5	109.4	NA	NA	NA		NA
41325	2129.6	255.8	59.3	108.7	101.9	NA	NA	F1	258
41328	558	151.6	265.4	157.1	207.9	NA	NA		NA
41339	24.5	49.7	45.1	25.3	27.5	27.6	NA		NA
41345	214.9	67.7	70.6	57.2	78.5	NA	NA		NA
41347	117.5	115.8	58.9	69.6	87.2	NA	NA	B1	106
41356	525.3	153.9	251.7	137.9	137	487.6	NA		NA
41360	118.8	47.5	72.2	610	45.2	NA	NA		NA
41369	642.6	133.2	363.1	92.2	229.8	NA	NA		NA
41377	236.2	172.3	80	121.2	71.4	NA	NA		NA
41441	243.4	47.3	63.2	119	67.1	NA	NA		NA
41442	92.8	36.6	43.1	24.5	39.9	NA	NA		NA
41445	36.8	52	101.2	53.7	38.5	NA	NA		NA
41446	78.9	67.3	39.8	40.1	35.4	NA	NA		NA
41453	187.8	71.6	69.5	83.8	60.9	NA	NA		NA
41473	28.8	49.5	135.4	40.1	23.6	NA	NA		NA
41475	618.8	216.6	187.7	257.4	NA	NA	452		NA
41478	256.7	260.9	172.5	38.3	91.8	NA	NA		NA
41482	52	104.9	77.2	ND	50.4	32	NA	Garden	31.2
41485	341.2	96.7	153.9	99.4	259.2	NA	107.3		NA
41486	623.7	142.7	156	147.8	588.6	NA	NA		NA

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Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
41498	ND	70.9	132.9	76	77.9	NA	NA		NA
41509	288.4	318.5	411.3	198.9	66.9	NA	NA		NA
41529	146.9	58	31.2	59	67.6	41.1	NA		NA
41531	85.1	60.3	61	40.2	55.2	NA	NA		NA
41533	272	98.2	45.1	153.8	228.3	NA	56.7		NA
41536	244	45.5	25.5	52.8	52.3	NA	NA		NA
41540	222.4	77.9	92.1	47.3	63.1	NA	NA		NA
41553	100.5	88.4	54.1	61.4	23.3	NA	NA		NA
41574	531	93.6	148.9	NA	111.3	NA	NA		NA
41593	565.2	81.2	126.7	101.7	49.7	NA	45.4		NA
41594	84.3	96	81.2	104.5	104.6	NA	NA		NA
41600	84.2	86.5	122.2	132	89.6	NA	NA		NA
41609	184.5	48.9	64.1	257.2	119.4	NA	NA		NA
41610	218.2	45.4	48.5	39.8	41	NA	NA		NA
41625	231.6	81.3	40.6	45.9	42.9	NA	45.9		NA
41626	91	54.9	69.3	64	40.8	NA	NA		NA
41665	247.6	125.3	194.2	57.8	62.7	NA	NA		NA
41684	104.5	81.9	112.7	164.7	153.4	NA	128.2		NA
41692	31.8	47.9	36	28.4	36.9	NA	NA		NA
41698	68.7	57.9	65.1	138.5	83.7	NA	NA		NA
41719	106.1	53.7	71.4	ND	57.4	NA	NA		NA
41721	510.4	101.2	86.5	175.1	194.1	NA	NA		NA
41732	90.6	41.5	64.6	80.4	72.2	NA	NA		NA
41745	33.1	45.7	ND	37.6	19.9	NA	NA		NA
41762	245	79.2	98.8	55.2	71.8	NA	NA		NA
41764	627.7	166.2	81.4	109.8	249.8	NA	NA		NA
41778	289.5	41.6	66.1	152.8	80.9	NA	NA	F1	261
41796	169.5	62.9	81.4	45.2	48.6	NA	NA		NA
41806	ND	24.2	40.4	21.5	30.3	NA	NA		NA
41809	42.6	21.9	20.3	30.2	ND	NA	NA		NA
41832	38	52.5	73.4	45.8	32.7	NA	23.7		NA
41841	225.6	134.6	93.4	227.8	90.3	NA	NA		NA
41842	616.5	151.1	448.9	122.3	113.1	NA	NA		NA
41847	508.4	149.3	68.3	117.1	163.1	NA	NA		NA
41848	75.6	73.6	61.1	67.4	56.8	NA	NA		NA
41849	1138.3	83.3	144.7	118	130.8	NA	456.1		NA
41851	470.8	113.5	116.5	90.4	57	NA	NA		NA
41853	231.4	318.6	384.6	120.9	252.8	NA	NA		NA
41854	1200	87.7	81.3	616	257	NA	NA		NA
41858	1401.1	285.3	111	402.6	123.7	NA	189.5	Play	249
41863	416.4	154.8	228.7	329.6	70.2	NA	NA		NA
41864	264.2	125.4	40.3	46.7	32.4	NA	100.9		NA
41866	48.2	32.2	34.6	25.7	40.1	NA	NA		NA
41873	991.2	187.5	198.5	289	125.9	NA	NA		NA
41874	478.4	245.9	303.2	329.9	418	NA	NA		NA
41904	44	27.2	ND	73.8	199.5	NA	NA		NA
41919	104.3	64.1	43.9	71	68.9	NA	NA		NA
41921	71.6	67.2	70.6	129.5	66	NA	NA		NA
41923	174.8	60	65.6	70.8	86	NA	NA		NA

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Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
41935	105.4	89.3	149.1	118	169.6	NA	NA		NA
41936	81.2	73.8	100.2	24.1	44.6	NA	33.6		NA
41937	ND	67.1	126.5	64.9	63.7	NA	NA		NA
41944	127.3	45.6	60.3	74.5	74.2	NA	NA		NA
41948	779.2	122.1	212.7	112.5	176.3	65.1	NA		NA
41956	205	69	72	141.4	169.3	90	NA		NA
41959	148	594.3	386.5	172.5	106	NA	NA		NA
41962	945.7	332	180.4	242.3	214.3	NA	NA		NA
41966	62.1	45	103.9	83.5	119.7	NA	NA		NA
41970	231.6	134.6	68	159.3	124.3	NA	NA		NA
41971	95.9	63.4	47.3	94.4	45.2	38.9	NA	B2	58.4
41978	1260	102.6	214	184.3	432.8	NA	NA		NA
41987	70.1	78.3	56.8	ND	68.5	NA	NA		NA
41989	471.1	137.4	152.2	114	60.9	NA	NA		NA
42009	29.4	52.9	30.6	ND	ND	NA	NA		NA
42011	214.6	61	89.4	346.8	51	NA	NA		NA
42026	284.6	64.3	149.5	102.7	124.3	NA	NA		NA
42036	51	21.2	54.8	89.5	39.4	NA	NA		NA
42048	13535.4	73.8	44.5	33.3	75.1	NA	NA		NA
42049	408	161.7	115.7	80.4	73.6	NA	NA		NA
42055	120.1	57.1	151.9	98.3	97.4	NA	NA		NA
42059	302.6	89.6	32.8	47	65.7	NA	NA		NA
42061	99.1	43.3	44.7	109.2	84.4	NA	NA		NA
42076	96.6	75.1	40	36.3	ND	NA	NA		NA
42080	90.9	59.1	75.4	70.2	67.1	NA	64.1		NA
42103	98.1	70.8	147.2	33.5	57.5	NA	NA		NA
42143	95.8	55.8	43.5	61	69.3	NA	NA		NA
42149	94.8	72.2	70	81.5	73.8	NA	NA		NA
42155	73.9	50	25.2	85.9	25.4	NA	NA		NA
42166	57.7	47.5	51.9	66.8	52.2	NA	NA		NA
42172	86.4	34.2	38.1	52.2	46.5	NA	NA		NA
42175	65.1	26.6	44	29.9	50.2	NA	NA		NA
42186	40	38.2	96.9	62.3	81.9	NA	NA		NA
42200	56.2	60.2	ND	50.2	42.3	NA	NA		NA
42209	330.4	38	125.1	49.3	172.1	NA	NA		NA
42215	148.9	77.5	148.3	242.8	85.1	NA	NA		NA
42220	64	47.6	NA	46.7	84.9	NA	81.5		NA
42233	31.5	46.1	47.6	63.3	50.9	NA	NA		34.5
42242	35.6	31	68.2	30.9	36	NA	NA		NA
42261	43	75.8	125	88	NA	NA	NA		NA
42264	60	41.5	56.7	59.7	60.9	NA	NA		NA
42280	1350.9	54.3	111.6	45.3	84.2	NA	71.9		NA
42284	43.7	29.6	30.4	31.8	52.7	NA	NA		NA
42310	66.9	115.1	158.7	41.8	55.8	NA	NA		NA
42343	118.5	55.2	53.2	53.2	72.4	NA	NA		NA
42349	271.8	124.6	230.8	96.6	98	NA	NA		NA
42361	137	75.8	73.9	94.2	189.3	NA	NA		NA
42372	681.7	70.7	112.7	105.8	64.7	164.8	NA	F1	76.7
42379	859.9	68.9	151.1	126	225	NA	NA		NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
42393	198.1	174.7	305.7	141	64.6	NA	NA		NA
42400	95.4	76.6	61.9	584	82.4	154.1	NA		NA
42402	811.7	124.5	39.2	157.4	118.1	NA	NA		NA
42427	135.1	73.7	74.2	57.4	129.2	NA	NA		NA
42432	274.4	97.3	ND	74.1	352.2	NA	NA		NA
42444	1434.2	133.6	149.9	ND	109.1	NA	211.1		NA
42472	1040	119.1	219.4	152.1	133.9	NA	NA		NA
42501	1175.4	76.9	73.6	334.8	84.8	90.7	NA		NA
42511	363.8	141.9	37.4	120.3	55.6	NA	NA		NA
42531	45.3	ND	116.1	ND	34.5	NA	NA		NA
42577	36.6	25.8	40.9	36.4	42.3	NA	NA		NA
42610	136.1	58.6	29.7	85.3	51.8	NA	45.8	B2	442
42616	32.4	35	ND	30.2	ND	NA	NA		NA
42635	65.8	125.3	238.5	103.7	256.9	NA	NA		NA
42648	33.4	36.7	27.7	38.6	ND	NA	NA		NA
42665	57.4	25.5	45.2	32.8	32.7	NA	NA		NA
42710	140.5	24.4	49.8	74.3	118.7	NA	83.3		NA
42718	218.2	46.9	45.5	42.2	48.8	NA	90.2		NA
42741	46.4	108.4	72.8	83.2	147.2	NA	NA		NA
42742	638.8	76.6	92.9	76.2	27.8	NA	NA		NA
42744	22	ND	53.1	23.2	54.2	NA	25.9		NA
42753	54.9	43.2	49.9	41.3	36.6	65.3	NA		NA
42754	361.4	150	161	231.2	105.2	105.8	NA		NA
42764	479.7	50.6	44.1	88.2	41.3	NA	NA		NA
42769	68.8	75.6	98.1	75.3	161.1	105.7	93.8		NA
42818	970.4	147.5	152.1	190.6	203.9	500.8	NA		2090
42850	260	139.1	321.4	NA	259.4	NA	NA		NA
42864	296.8	85.3	119.7	196.3	783.2	NA	326.8		NA
42867	897.6	449.6	345.6	683.6	74.2	NA	NA		NA
42878	29	43.3	26.8	42.2	37.1	NA	NA		NA
42886	250.2	37.4	24.6	37.9	74.2	NA	NA	B1	35.4
42983	25.4	31.9	26.7	35.9	ND	NA	NA		NA
42989	125.5	62.1	61.7	76.1	105.7	NA	NA		NA
42992	31.1	71.1	48.8	107.8	75.9	NA	57.7	B1	110
43069	208.2	65.8	53.1	48.3	54.6	NA	NA		NA
43222	145.9	68.4	91.8	111.8	82.2	NA	NA		NA
43242	50.6	55.9	35.7	37.1	ND	37.3	NA		NA
43291	26.2	44.5	42.1	52.6	55.7	NA	NA		NA
43293	62.5	33.2	29.4	38.2	ND	NA	NA		NA
43301	33.8	ND	19	24.8	25.5	NA	NA		NA
43384	ND	24.6	29	ND	ND	NA	NA		NA
43500	22.6	ND	ND	19.1	25.7	NA	NA		NA
43506	ND	23.7	ND	ND	ND	NA	NA		NA
43666	27.7	62.6	49.8	100.9	60.5	NA	74.4		NA
43667	109	ND	57.7	36.6	55.2	NA	NA		NA
43671	392.6	42.5	44.7	61.1	34.2	75.2	NA		NA
43674	55.2	77.5	65.6	60.3	96.3	53	NA		NA
43675	117.7	64.2	141.2	63.1	53.1	NA	NA		NA
43677	145.3	56.3	78.5	57.9	75.1	NA	53.6		NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
43680	48.8	191.3	43.3	41.8	31	ND	NA	B2	40.7
43684	91.2	ND	60.6	ND	ND	ND	ND	F2	32
43685	47.6	91.5	89.1	29.6	75.4	NA	60.6		NA
43689	90.7	43.4	44.7	91	53.7	29.2	NA		NA
43690	162	69.5	57.7	31.8	36.7	NA	NA		NA
43695	68.6	29.2	42.9	19.6	31.8	NA	NA	B1	26.4
43714	31.6	46.7	67.6	35.5	474.8	NA	52.8	B2	400
43728	660.2	93.9	222	201.9	176.8	NA	NA		NA
43730	39.2	78.6	151.9	45	94.5	NA	43.9		NA
43738	63.1	82.7	76.6	41.5	69.6	NA	48.1		NA
43739	82.5	53.4	122.2	106.4	91.2	NA	NA		NA
43743	67.8	50.5	100.8	103.6	58.9	NA	NA		NA
43748	133.2	316.3	111.1	59.7	68.8	NA	NA		NA
43752	97.2	114.9	216.4	88.8	74.4	45.7	NA		NA
43755	84.9	121.3	63.4	87	75.9	NA	NA		NA
43765	29.9	113.4	117.2	65.3	69.5	NA	95.8		NA
43774	ND	291.1	317.6	101.1	139.5	NA	184.8	B1	77.6
43782	31.4	88.8	130.8	40	65.1	NA	NA		NA
43783	51	49.5	58.5	59.6	35.1	NA	NA		NA
43786	38.9	82.3	73	42.4	32.8	31.1	NA		NA
43797	31.7	88.6	78.5	22.9	254.5	NA	NA		NA
43799	50.2	48.9	52.8	46.6	44.9	NA	46.9		NA
43810	36.4	44.3	41.3	82.9	31.6	NA	NA		NA
43815	332.9	41.6	59.9	139	46.5	NA	NA		NA
43821	737.2	215.4	318.2	120.5	101.5	NA	NA		NA
43825	66.2	74.8	71.5	129.7	80	NA	NA		NA
43826	356.5	100.1	91.2	138.1	197.8	NA	NA		NA
43828	172.4	90.8	53.9	288.5	167.8	NA	NA	B1	289
43836	94.6	50.5	92.5	50.5	191.9	91.7	65.4	B2	599
43839	56.7	51.7	96.4	49.7	48.1	NA	NA		NA
43846	725.5	70.2	23.5	85.7	33.6	NA	67.2	B2	38.5
43848	170.5	79.3	51.8	60.4	ND	62.5	NA		153
43851	88.7	55.7	81.8	48.2	52.1	NA	NA		NA
43854	153.1	112.7	256.9	327.1	672.1	NA	NA		NA
43861	49.2	29.5	37.6	50.8	31.6	NA	NA		NA
43864	71	86.1	62.4	38.1	47.9	NA	NA	B1	42.5
43871	45.1	55.3	64.2	56.5	24.3	30.6	43.7		NA
43889	38.6	73	61.9	53.6	50.5	26.2	NA		NA
43901	114.8	171.4	128.6	104.5	333.2	60.7	NA		NA
43908	84.6	34.7	35.9	36.3	30.5	NA	42.9		NA
43918	66.2	56.9	28.3	67.6	33	NA	NA		NA
43919	107	72.2	60.7	110.8	101.3	67.2	NA		NA
43920	56.2	69.2	128.1	75.5	58.3	NA	NA		NA
43925	129.7	104.8	69.6	113.3	256	106.6	NA		NA
43928	399.5	137.9	105.1	257.8	291.3	99.3	NA		NA
43940	309.2	136.7	401.8	433	847.9	NA	NA	F1	294
43954	142.4	89	59.2	44.9	140.1	102.8	NA		NA
43963	127.9	ND	68.8	264	417.8	NA	NA		NA
43967	66.7	30.3	40.1	32.2	40	NA	NA		NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
43968	3747.2	115.1	101.6	170	355.4	NA	NA		NA
43973	59.7	122.9	55.4	84.4	49.4	56.4	ND	B1	46.8
43976	56.3	73.1	139.9	54.7	175.7	49.2	148.7	Garden	53.6
43982	103.6	125.1	88.4	39.2	62.5	NA	NA	B1	45.9
43989	71.5	99.6	79.2	51.4	57.2	NA	56.2		NA
43999	51.1	90.5	69.5	120.8	95.7	NA	NA		NA
44000	89	57.4	121	42.9	58.9	NA	NA		NA
44003	48.9	57.5	ND	34.1	35.6	NA	NA	F2	37.3
44005	89.8	215.4	79.9	120.3	96.4	NA	NA		NA
44006	98.2	32.6	18.4	36.9	27.9	NA	NA		NA
44010	121.2	112.5	27.7	98.9	ND	NA	149.6		NA
44014	29.6	62.1	52.8	34.5	37.7	NA	NA		NA
44016	61.2	35.5	67.3	50.4	47.3	NA	NA		NA
44020	95.7	69.2	57.7	127.2	57.2	NA	NA		NA
44032	79.6	67.1	45.7	51	38.9	NA	NA		NA
44042	85.2	111	214.8	81.9	86	NA	NA		NA
44044	1065.6	90.3	90.1	243	80.6	NA	NA		NA
44061	62.8	79.5	39.8	202.8	92.3	NA	NA		NA
44064	150	56.3	60.3	68	63.4	NA	129.3		NA
44065	50.9	18.9	30.4	67.2	43.6	NA	NA		NA
44067	39.5	51.4	28.3	50.7	48.1	NA	NA		NA
44068	49.2	66.7	47.8	27.8	35.1	NA	NA		NA
44070	51.2	116.5	60.5	97	81.3	76.1	NA		NA
44075	330.2	72.1	114.6	99.4	93.9	NA	NA		NA
44082	46.9	48.2	95	28.2	48.5	NA	72.3		NA
44083	412.2	57.5	279.5	83.8	39.8	NA	NA		NA
44085	1049.6	129.4	144.9	63	204.1	NA	NA		NA
44113	236.1	82.6	67.2	124.2	63.2	NA	NA		NA
44114	80	50	27.3	34.9	139.7	NA	49.8		NA
44116	571.2	84.5	147.7	139.6	281.2	NA	NA		NA
44125	583.3	197.9	113.1	203.7	101.2	40.3	NA		NA
44128	432.4	215.2	52.8	203.4	65.8	NA	NA		NA
44143	1186.3	124.7	108.5	153.5	155.9	NA	NA		NA
44147	217.3	70.3	165	127.2	64.1	NA	NA		NA
44152	34.4	41.5	49.4	84.5	28.3	NA	55		NA
44160	170.7	75	81.5	66.4	134.3	NA	NA		NA
44161	221	47.1	71.3	68.3	71	51.4	NA		NA
44163	125.3	338.9	479.4	143.6	157.1	NA	NA		NA
44179	31.5	40.7	39.7	25.8	38.8	NA	NA		NA
44182	59	26.4	81.5	111.3	42.9	NA	NA		NA
44188	61.4	104.8	98.2	66.4	90.1	NA	NA		NA
44196	ND	127.4	45.4	31.4	44.3	43.6	NA		NA
44201	28.7	50.2	43	36	32.7	38.6	NA		NA
44203	245.1	193.6	71.3	66	65.2	32.1	NA		NA
44217	52	47.1	43.5	30.6	29	NA	NA		NA
44218	3120	301	859.2	42.9	155.3	96.3	66.9		NA
44228	59.3	57.7	48	56.1	68.7	NA	NA		NA
44234	50.4	54.5	76.3	58.1	83	NA	NA		NA
44251	122.1	73.7	85.6	55.7	95.1	NA	NA		NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
44260	48.6	27.9	37.8	35.8	21.9	NA	NA		NA
44268	63.1	58.1	39.2	49.6	37.4	NA	NA		NA
44272	809.5	99.3	78.2	131.1	61.7	NA	NA		NA
44287	31.8	97.6	74.1	43.7	34.3	NA	NA	B1	33.5
44301	31.1	62	69.6	31.7	43.6	NA	NA		NA
44320	116.3	141.9	105.7	34.4	72.1	26.7	NA		NA
44325	67.2	81.1	63.4	52.6	47.6	NA	NA		NA
44329	538.2	38.5	59.1	51.1	66.3	NA	NA		NA
44341	187.4	97.3	67.6	98.5	74.3	NA	NA		NA
44375	308.4	80.1	151.1	292.2	113.8	NA	NA		NA
44382	192.9	33.1	46.9	59.4	175.7	NA	51.5		NA
44383	81	99.4	76.2	56.8	48.9	45.9	NA		NA
44385	16.6	ND	31.9	47.9	46.6	NA	NA		NA
44386	76.9	51	62.2	59.8	61.5	54	NA		NA
44393	48	55	37.5	76.5	30	ND	NA		NA
44394	298	66.5	75.9	403	95.9	117.6	424.8		NA
44397	80.3	67.5	70.5	36.4	31.8	ND	NA	F2	59.3
44410	56.4	24.4	46.4	44.2	45.9	NA	NA	F1	34.2
44420	136.3	122.3	136.8	201.7	151.6	NA	NA		NA
44426	43	89.3	118.6	40.9	54.6	NA	NA		NA
44428	93.1	61.5	39	50.8	49.5	NA	NA		NA
44445	91.7	69.5	76.5	160	125.6	NA	NA		NA
44448	31.8	47.8	47.5	59.5	74.4	NA	NA		NA
44460	167	63.2	46.4	84.7	73.1	NA	NA		NA
44468	235.3	142.7	85	88	242.5	113.7	NA		NA
44471	81.4	66.1	123.4	26.3	46.4	NA	NA		NA
44473	810.4	188.8	133.4	143.1	345.4	NA	NA		NA
44474	62.2	61.4	48.7	43	41.2	NA	NA		NA
44479	1346.5	110.1	116.7	235.3	319.6	NA	217.1		NA
44500	676.7	114.7	180.3	191	97.7	131.4	NA		NA
44502	1236.7	56.7	231.8	102.2	140.1	NA	222.4		NA
44535	447.2	83.9	97.7	77.6	82.8	NA	NA		NA
44555	58	59.4	109.4	116.9	63.8	97.7	NA		NA
44565	182.8	122.3	83.8	67	47.6	NA	34.3	Play	37.3
44580	208.1	137	111.9	32.9	128.3	NA	192.2		NA
44595	299.8	175.6	94.8	95.3	145.8	NA	NA		NA
44609	138.7	125.2	38.8	49.7	59.3	NA	38.4		NA
44627	406.1	187.8	256.5	94	73.9	NA	NA		NA
44646	47.9	58.2	37.2	49.6	50.7	NA	NA		NA
44650	606.2	123.5	221.2	105.2	194.3	NA	118.5		NA
44654	35.2	44.9	37.7	37.2	ND	NA	NA		NA
44658	105.9	100	46.2	56.6	88.7	NA	NA		NA
44664	43.6	87.7	41.1	33.8	52.5	39.3	NA		NA
44672	110.9	104.7	144.8	82.6	153	NA	123.1		NA
44684	26.5	ND	32.5	27.2	56.9	NA	NA		NA
44696	44.7	46.4	69.7	53.7	49.7	NA	59.1		NA
44706	61.9	44.8	62.8	52.5	ND	NA	NA		NA
44722	127.9	68.5	81.2	86.9	49	50.4	NA		NA
44731	383	131.6	150.1	183.3	337.7	NA	NA		NA

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Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
44732	159.5	62.7	78	ND	90.3	NA	NA		NA
44745	ND	ND	31.6	24.1	ND	40	NA		NA
44763	151.1	38.1	86	124.7	184.3	NA	NA		NA
44789	83.3	22.5	89	127.6	86.3	NA	NA		NA
44808	201.8	71.9	68.7	181.5	139.2	NA	NA		NA
44809	508.2	362.8	288.7	753.3	402.7	NA	NA		NA
44817	89.8	182.1	62.6	105.7	140.8	699.8	95.1		NA
44828	326.9	98.2	144	111.8	103.2	131.1	NA		NA
44841	353.8	140.4	109.8	128.5	226	NA	NA		NA
44844	129	51.2	96.1	85	65.7	NA	69.2		NA
44859	117.1	99.1	82.5	104.1	46.3	79.6	NA		NA
44864	144.7	160.7	116.1	73.7	68.8	NA	NA		NA
44876	263.6	282.6	240.7	104.8	38.8	NA	NA		NA
44898	39.3	33.7	26.7	49.5	24.9	NA	NA		NA
44908	91.5	114.7	69.5	102.9	78.2	NA	NA		NA
44937	71.7	55.1	63.7	49.4	76.4	NA	NA		NA
44941	88.6	117.1	62.2	93.3	81.7	90.6	NA	Garden	79.9
44945	79.7	45	39.5	60.1	67.1	91.6	NA		NA
44946	53.1	37.7	53.5	36.6	29.5	NA	64.7		NA
44949	38.5	88.5	140.6	53.5	114.2	NA	NA		NA
44962	100.6	43.4	62.2	144.9	29.2	NA	NA		NA
44974	142.8	84	86.6	42.5	74.2	80.7	NA		NA
44981	39.5	39.4	36.4	55.1	18.6	NA	98.4		NA
44989	1994	131.8	110.2	53	36.1	NA	21.6		NA
44992	561.6	108.6	84.9	243.6	172.6	NA	NA		NA
44993	43.2	90.5	103.8	288.9	147.8	256.2	NA		NA
44999	84.3	102.9	110.1	184.4	134.5	115.7	NA		NA
45000	636.8	96.5	84.7	250.6	161	77.3	NA		NA
45024	456.8	77.9	42.7	42.8	41.9	NA	NA		NA
45038	202.2	70.8	81.8	83.8	164	86.2	82.3	B1	61
45040	358.5	62.4	296.6	86.4	66.2	NA	NA		NA
45093	97.5	48.3	57.7	63	78.1	43	NA		NA
45100	710	97.2	80.7	218.4	99.9	226.6	NA		NA
45102	31.6	33.3	17.4	55.3	37.1	NA	NA		NA
45129	72	33.1	33.4	28.9	35.5	NA	NA		NA
45134	76.6	100.2	98.1	125.5	46.3	NA	NA		NA
45139	304.8	100	150.9	201.9	61.7	NA	NA		NA
45141	106.4	89.7	52.5	141.3	25.9	NA	NA		NA
45153	1820.3	451.3	374.3	667.2	202.9	237.7	NA		NA
45154	115.1	73.4	116.5	131.2	91.1	NA	NA		NA
45157	202.8	114.1	87.6	230.2	114.3	108.8	NA		NA
45165	2948.8	56.2	99.7	118.8	63.5	NA	NA		NA
45168	574.4	99.9	107.6	153.5	158	312.6	NA		NA
45173	ND	30.2	18.9	ND	26.1	22.1	NA		NA
45174	216.2	155.4	131.8	138.1	340.2	NA	NA		NA
45176	76.7	70.1	26.6	135.6	69.3	NA	NA		NA
45177	522.8	217.2	252.2	197.5	207.2	153	NA		NA
45179	404.2	103.5	105.9	101.2	276.6	NA	NA		NA
45184	29.8	58.6	34.4	39.7	39.1	NA	NA		NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
45187	675.5	422.4	168	439.2	217.9	NA	222.3		NA
45204	71.7	121.9	114.5	143.1	75.8	NA	NA		NA
45210	217.4	157.9	70.3	75.9	62.8	NA	NA		NA
45214	410.3	251.2	248.4	120.6	147	NA	NA		NA
45216	77.6	104.2	105.6	47.9	983.2	NA	NA		NA
45217	NA	52.2	118.3	153.3	264.4	111.8	NA		NA
45219	273.7	158.6	217.7	55.8	NA	NA	NA		NA
45255	35.8	67.4	57.8	NA	52.8	29.9	NA		NA
45263	78.1	71.5	70.7	57.3	74.2	NA	NA		NA
45267	90.9	141.2	126.4	87.5	98.4	NA	NA		NA
45274	794.4	53.3	48.9	32.7	31.8	NA	55.5		NA
45278	500.2	507.9	98.8	72.8	188.7	117.8	NA		NA
45283	187.5	67.2	45.5	33.5	68.4	NA	NA		NA
45291	49	68.1	52	60	34.4	NA	37.2		NA
45311	266.3	63.5	72.9	42.9	ND	29.8	NA		NA
45315	45.3	85	69.7	33.3	66.6	NA	NA		NA
45322	93.3	139.2	134.6	102.9	146.8	NA	NA		NA
45324	165.3	73.3	108.3	91.4	NA	NA	53.6		NA
45340	524.9	67.1	28.6	75.5	74.5	NA	NA		NA
45344	23.5	23.4	26.2	17.7	17.8	17.9	19.2		NA
45355	426.4	99.6	149.4	76.1	133.5	43	NA		NA
45358	62.4	56.3	34	53.8	37.6	NA	NA		NA
45368	328.5	113.2	101.4	130.2	61.3	162.9	NA		NA
45371	26.9	28.9	23.1	43.3	34.1	NA	NA		NA
45377	2366.7	385.9	383.2	345.9	515.9	160.4	NA		NA
45382	613.8	656.6	128.8	296.8	339.6	NA	231.4		NA
45385	108	66.9	54.2	68	106.9	NA	NA		NA
45386	1516	340.6	102.1	62.7	103.3	NA	NA		NA
45392	122.9	79.3	116.6	107.2	165.1	NA	NA		NA
45409	694	49.2	50.1	94.4	165.4	NA	NA		NA
45412	65.4	145.7	117	66.5	98.3	NA	NA		NA
45414	45.2	40.4	66.5	40.5	ND	NA	NA		NA
45415	121.2	83.6	101.1	140.1	114.6	119.6	NA		NA
45419	105.4	42.6	46.9	31.3	49.3	NA	NA		NA
45422	641.6	202.8	181	282.6	149.2	153.4	NA		NA
45442	142.9	71.8	79.3	301.8	110.5	142	NA		NA
45451	47.8	52.4	55.2	24.7	77.8	NA	NA		NA
45457	73.5	133.8	236.8	167.2	96.8	NA	59.6		NA
45465	458.3	73.8	98.1	108.3	128	NA	NA		NA
45466	830.4	81.2	60.1	86.6	61.2	NA	NA		NA
45477	246.4	139.6	117.2	63.3	183.3	NA	NA		NA
45478	210	112.3	125.5	86.4	70.8	NA	NA		NA
45479	140.4	50.9	61.8	109.6	89.8	NA	NA		NA
45496	133.9	74	76.6	100.4	80.7	NA	NA		NA
45510	111.4	61.9	40.7	46.7	45.1	NA	NA		NA
45511	ND	48.8	69.6	28.9	58	NA	NA	F1	45.6
45517	453.3	174.2	314.5	152.8	171.8	NA	NA		NA
45539	112.7	51.4	61.6	64.7	80.9	178	NA		NA
45544	151.1	61.3	85.4	82	60.1	NA	NA		NA

Appendix A
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Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
45556	757.1	39.4	48.9	56.9	35.1	NA	NA		NA
45557	80.4	68	17	92.1	69.2	105.8	70.1		NA
45559	ND	37.6	59.3	54.6	43.8	NA	NA		NA
45561	101.9	69	79.5	63.1	69.8	NA	NA		NA
45563	68.1	96.3	99.5	130.9	59	NA	NA		NA
45579	73.5	101.2	58.8	271.1	131.5	NA	NA		NA
45587	89.1	49.5	43.7	68.9	58.6	NA	NA		NA
45593	46.8	40.3	50.1	80.4	50.1	NA	NA		NA
45595	296	70.1	62.2	107.5	95.8	NA	62.9		NA
45611	70.7	58.3	59.1	34.7	51	NA	NA		NA
45619	71.9	43.2	40	ND	51.8	NA	NA		NA
45621	201.4	56.7	119.1	85.2	82.6	NA	NA		NA
45634	61.1	45.2	51.2	58	75.5	24.6	51.5	Garden	40.7
45642	470.3	334.4	181.9	104.3	193.5	NA	NA		NA
45658	40.7	132	170.5	41.9	35.7	NA	44.7		NA
45666	122.8	125	91	80.5	84.8	NA	NA		NA
45668	880.6	70.4	138	121.7	45	NA	NA		NA
45672	65.1	53.9	60	59	52.7	91.3	50.1		NA
45673	252.5	84.8	66	101.5	33.6	NA	NA		NA
45675	67.2	43.9	126.4	64.3	123.2	NA	NA		NA
45682	103.9	65.2	170.5	83.5	140.1	NA	65.2		NA
45685	41.7	53	40.2	26.6	28.7	NA	NA		NA
45686	118.8	115.9	77.5	101.7	144	NA	95.7		NA
45691	136.5	97.1	67.5	40	52.3	NA	NA		NA
45695	120.8	82	82.6	102.5	97.3	78	NA		NA
45716	99.7	40.8	82.4	56.1	120.8	86	66		NA
45718	ND	ND	38.8	28.3	41.3	NA	40.5		NA
45722	292.5	168.5	76.3	145	92.5	NA	NA		NA
45727	451.1	138.1	90.8	202	87.3	NA	NA		NA
45759	466.9	333.7	157.8	159	201.4	NA	NA		NA
45768	110.7	76.2	53	30.7	33.8	NA	NA		NA
45785	95.8	37.3	65.9	33.4	44.2	NA	NA		NA
45804	70.5	31	35	39.1	48.9	54.1	NA		NA
45805	170.9	231.8	144	92.9	133.4	NA	NA		NA
45806	122.5	72.1	59	53.9	130.5	NA	NA		NA
45807	133.2	41.6	70.6	84.4	93.6	NA	NA		NA
45810	256.6	134.8	116.9	92.1	103.4	NA	NA		NA
45812	249.8	108.5	195.5	146.9	242.6	NA	NA		NA
45831	35.1	ND	ND	40.9	34.7	NA	31.6		NA
45861	98.3	66.8	108.5	43.8	68.6	NA	NA		NA
45866	167.8	91.9	89.9	81.7	86.9	NA	NA		NA
45869	58.4	48.9	70.9	91.2	86.2	NA	NA		NA
45871	160.8	108.6	63.2	62.7	73.5	NA	NA	B1	66
45872	51.6	83.3	35.8	45.3	59	NA	NA		NA
45878	66.8	71.2	96.9	46.5	50.7	NA	NA		NA
45882	115.2	54.5	84.6	74.7	63.5	NA	NA		NA
45886	358.9	70.5	164	45.6	54.8	125.3	NA		NA
45890	21.6	21.8	28.6	22.2	ND	41.3	68.3	Garden	46.6
45892	38.2	35.8	29.8	32	36.1	NA	35.7		NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
45898	ND	73.5	73.9	64.1	57.9	NA	NA		NA
45909	55.1	63.9	25.6	33.2	42.7	63.4	NA		NA
45910	157.2	135.1	24.2	177.2	165.9	NA	NA		NA
45914	65.2	ND	46.5	44.1	140.5	NA	NA		NA
45915	123.9	75	89.5	92.8	43.4	80.3	NA		NA
45920	111.7	69.9	64.4	94.6	54.2	112	NA		NA
45926	105.9	52.7	51.8	53.8	61.2	NA	NA		NA
45932	185.4	146.7	96.5	111.7	130.6	186.1	NA	B1	172
45940	336.8	38.5	130.7	54.2	67.7	48.3	NA		NA
45947	100.6	101.2	138.5	68.2	95.4	NA	NA		NA
45949	100.9	60.6	53.4	52	49.9	NA	NA		NA
45968	123.4	238.7	133.8	147.4	97.2	NA	NA		NA
45991	96.6	137.1	84.1	50.7	120.5	NA	NA		NA
45994	72.7	83.1	58.1	107	175.8	NA	NA		NA
46008	573.2	388.7	425.9	204.2	134.6	NA	154.4		NA
46036	491	83.2	150.4	97.1	92.2	NA	NA		NA
46039	62.9	ND	34.3	107.2	58.2	NA	NA		NA
46042	64.8	85.9	38.2	49.6	86.3	NA	NA		NA
46048	85.4	230.8	146.3	150.6	100.9	93	55.9		NA
46058	478.3	295.4	134.9	170.8	127.8	NA	NA		NA
46070	57.2	30.6	42.6	56.9	44.7	NA	NA	F2	45.2
46074	336.6	32.7	95.8	490	184.9	NA	NA		NA
46080	421.3	81.9	76.3	111.2	197.9	NA	24.7		NA
46099	315.2	50.8	37.9	48.6	58	NA	NA		438
46101	1447.4	122.7	165.6	103.6	2595.6	NA	NA		NA
46111	2617.2	168.3	224	34.9	112	NA	NA		NA
46112	104	43.8	215.9	67	189.4	NA	NA		NA
46140	63.3	ND	78	63.2	56.9	60.1	NA		NA
46151	393	148.5	103.5	315.6	214	312.2	NA		NA
46166	220.1	50.1	54.6	74.8	58.4	NA	NA		NA
46177	1465.6	141.8	121.4	93	123.6	NA	NA		NA
46185	306	84.7	122.6	45.5	186.8	NA	NA		NA
46190	253.9	86	251.3	98.6	61.5	NA	NA		NA
46195	85.1	105.3	207	86	105.3	NA	52.2		NA
46201	643.2	125.1	105.1	185.5	182.1	NA	NA		NA
46218	1332.8	352	225.3	202.2	91.7	NA	NA		NA
46226	77.3	165.9	53	44	64.6	40.3	NA		NA
46232	100.3	45.6	40.8	72.8	63.3	NA	NA		NA
46238	937.9	86.2	704.6	240.3	134.1	NA	NA		NA
46245	249.1	134.4	272.5	187.4	465.8	350.2	NA		NA
46253	231.1	80.3	62.2	106.9	142.2	91.6	NA		NA
46272	132.9	61.3	87.7	87.5	109.4	NA	NA		NA
46280	352	57.3	32.9	168.4	150.3	NA	NA		NA
46281	366.8	102.4	74.6	49.1	55.5	NA	NA		NA
46285	284.1	81.3	187.2	126.2	183.5	NA	NA		NA
46286	116.8	115.5	159.7	113.2	146.6	NA	NA		NA
46298	78.8	104	36.8	71.8	182.4	NA	NA	B2	189
46301	910.3	202.6	87	38.8	31.7	NA	NA		NA
46312	412.3	36.9	109.3	80.5	115	NA	NA		NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
46316	29.6	34.7	47.7	197.2	53	NA	NA		NA
46317	55.3	84.6	98.8	77.2	122	NA	171.6		NA
46318	87	90.5	70.7	67.9	141.3	95.2	NA		NA
46320	91.3	91.4	122.5	101.7	173.5	NA	NA		NA
46333	51.9	117.2	180	181.1	191.2	NA	NA		NA
46339	179.9	89	143.4	86.3	120.8	NA	NA		NA
46340	896.8	84.5	106.8	141.9	102.4	NA	148.5		NA
46344	447.1	119.6	133.5	98.1	104.1	NA	NA	F1	102
46352	166	93.7	226.6	125.9	112.4	NA	NA	B1	130
46354	351.8	257.5	99.5	214.3	109.7	NA	NA		NA
46370	234.4	57.1	48.3	52.5	58.9	NA	66.5		NA
46373	50.3	69.2	194.7	42.1	101.5	NA	NA		NA
46376	65.6	193.9	81.1	443.4	92.4	NA	NA		NA
46381	219.1	80.3	93.6	71.1	122.9	NA	NA	F2	161
46384	794.8	97.3	65.5	93.4	110.2	NA	NA		NA
46391	77.3	81.1	46.7	69.8	61.3	NA	NA		NA
46393	132.7	86.9	134.3	50.7	296.4	NA	91.7		NA
46397	127	111.3	98.1	51	78.1	NA	NA		NA
46398	412.4	149.7	152.5	275.2	116.7	NA	NA		NA
46402	50.7	51.7	60.1	68.3	114.5	NA	115.1		NA
46403	181.2	125.4	67.4	78.5	42	41.8	NA		NA
46405	239.3	109	65	130.8	129	NA	NA		NA
46410	362.2	450.5	119.6	335.6	106.8	NA	130.6		NA
46422	81.4	33.9	73.4	63.9	71.3	71.7	NA		NA
46424	269.3	138.3	158.3	134.5	164.6	NA	NA		NA
46426	314.2	75.6	72.8	197.8	194.9	NA	NA		NA
46438	757	135.3	488.3	160.5	182.3	NA	204.1		NA
46452	585.3	93.6	114.1	108.5	177.9	NA	133.1		NA
46471	1349.6	97.1	245.8	160.7	354	NA	NA		NA
46496	136.6	133.5	116.5	267.6	216	NA	307.2		NA
46499	341.5	181.4	173.8	253.9	225.2	NA	NA		NA
46501	114.3	196.4	304.7	348	188	130.4	260.4		NA
46519	789.6	201.8	477.7	1209.4	701.3	749.8	NA		NA
46523	314.6	85.3	131.6	39.7	92.2	NA	NA		NA
46535	160.5	47.2	67.6	40.4	296.1	NA	NA		NA
46536	219	39.5	46.9	45.6	51.7	NA	NA		NA
46549	1878.5	86.9	282.7	351	411	NA	NA		NA
46550	654.3	246.4	115.1	235.1	128.3	NA	NA	F2	110
46557	4064.1	171	278	296.7	310.4	NA	604.1		NA
46558	98.7	187.9	79.6	76.3	73.3	ND	NA		NA
46562	1255.1	159.4	158.3	100	186	131.6	NA		NA
46568	441.7	76.3	30.6	211.6	68.5	NA	NA		NA
46570	325.7	109.1	108	190.1	106.9	NA	NA		NA
46574	19064.3	155.2	91.6	320.8	361.1	NA	NA		NA
46580	741.2	135.6	167.3	179.3	205.5	NA	NA		NA
46591	521.1	220.6	54.5	269	95.4	NA	NA		NA
46596	183.8	134.3	44.7	214.8	290.9	NA	NA		NA
46597	199.6	367.1	72.5	82.3	56.4	135.7	NA		NA
46613	842.4	327.2	255	334.6	229	NA	NA		NA

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Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
46614	297.4	217.8	129.8	199.9	88.5	NA	NA		NA
46615	2204.3	235.2	356.1	431.4	363.3	NA	NA		NA
46635	603.2	679.2	224.4	647.2	249.4	NA	NA		NA
46636	68.5	62.5	73.2	161.1	176.9	NA	NA		NA
46644	1323.6	651.2	314.3	816.1	374.4	NA	NA		NA
46650	114.7	52.8	88.5	78.8	91.6	NA	NA		NA
46660	1069.6	238.6	383.4	270.8	217.6	NA	818.4		NA
46661	35.7	77.5	85.1	75.2	106.7	NA	89.7		NA
46665	438.1	32.4	48.2	141.7	175.8	NA	168.5		NA
46671	ND	112.8	77.8	40.7	46.4	NA	NA		NA
46675	193.2	111.9	101.4	159.6	123	NA	NA		NA
46709	386.2	356.4	274.8	624.4	307.6	NA	143.9		NA
46710	307.6	140.5	201.7	207.8	256.5	NA	NA		NA
46768	79.4	48.1	64.2	64.1	82.3	35.7	NA		NA
46773	437.8	1045.7	104.8	504.3	269.1	NA	NA		NA
46777	393	95.9	89.7	164.9	159.8	NA	NA		NA
46780	525.4	138.6	62.2	187.8	189.8	207.5	NA		NA
46782	2004.3	120.8	88.8	658.4	848.8	145.1	NA		NA
46784	NA	NA	NA	312.9	440.6	NA	550.6		NA
46789	110.2	63	ND	ND	64.7	NA	NA		NA
46799	86.3	43.3	55.7	86.4	61	NA	47.2	B2	46.7
46803	33.8	51.2	30.5	33	182.1	NA	NA		NA
46804	ND	31.9	43.8	33.6	ND	NA	NA		NA
46830	305.1	121.9	150.5	255.7	179.5	111.2	NA	F2	131
46839	116.6	231.2	164.2	140	432.4	NA	NA		NA
46841	132.8	141.3	69.8	110.1	37	NA	NA		NA
46847	1348.9	268.1	363	204.9	145.5	238.3	NA		NA
46850	569.2	205.6	173.2	47.2	495.2	NA	148.8		NA
46853	110.1	334	201.9	170.4	157.5	NA	NA		NA
46863	23.8	ND	30.2	30.9	ND	NA	NA		NA
46869	113.6	128.1	59.7	178	196.5	NA	NA		NA
46873	156.3	330	172.3	180.3	85.9	NA	200		NA
46879	491.5	80.7	62.5	341.3	183.7	NA	NA		NA
46889	302	179.4	170.5	366.3	327.9	NA	NA		NA
46900	236.1	1140.4	83.4	191.6	244.9	NA	NA		NA
46904	456.6	167.9	100	477.3	124.6	NA	NA		NA
46908	436.8	213.7	111.2	278.3	132.3	580.3	NA		NA
46917	407.1	93.7	103.8	46.2	88.9	137.1	NA		NA
46920	322.5	175	121.6	118.4	185.6	NA	NA		NA
46937	330.4	244.4	90.7	212	170.6	NA	NA		NA
46940	348	239.7	108.7	480.3	158.1	NA	NA		NA
46942	37.2	71.7	49.4	92.1	43.3	NA	NA		NA
46948	213.8	82.5	109.9	90.7	76.1	72.3	NA		NA
46950	2923.3	647.4	561.6	735.9	252.2	NA	NA		NA
46957	373.8	134.5	48.1	192.9	82.2	NA	NA		NA
46959	1012.1	183.2	167.8	213.2	199.5	NA	NA		NA
46963	65	65.3	43.7	57	62.6	NA	NA		NA
46965	273	164.1	78.9	73.3	87.9	136.3	NA		NA
46966	606	160	761.2	1009.6	468.8	NA	NA		NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
46970	864.4	102.4	229.6	142.8	251.3	NA	NA		NA
46971	204.8	94.7	156.6	157.4	329.1	NA	NA		NA
46991	169.4	189.2	216.7	NA	NA	NA	NA		NA
46993	928.1	380.4	271.3	293.6	383.2	NA	NA	B2	448
47002	285.3	149.8	90.3	191.5	884.3	NA	NA		NA
47012	1210.5	123.4	89.5	387	125.8	NA	NA		NA
47013	9029.2	442.4	310.6	297.4	30.6	NA	NA		NA
47020	217.5	41.1	64.3	81.5	74.7	NA	NA	B1	57
47024	1183.8	298.9	213.6	225.2	315.8	NA	NA		NA
47025	448.4	117.7	477.6	242.8	1089.6	NA	195.5		NA
47028	1629.6	140.9	304.4	298.2	503.2	438.8	NA		NA
47031	618.2	592.6	818	311.4	415.5	165.4	373.1		NA
47042	826.3	613.5	146.8	433.9	240.1	NA	NA		NA
47051	346.8	250.2	326.6	227.8	404	387.4	NA		NA
47055	798.8	1160	1800	664.4	345.6	NA	NA		NA
47066	267	343.8	124.4	170.2	107.2	NA	NA		NA
47071	351	168.4	107.3	159.1	95.6	NA	53.1		NA
47074	961.6	93.2	191.1	101.3	213.8	NA	NA		NA
47082	130.8	161.5	122.2	74.9	168.4	NA	NA		NA
47085	166.2	76.8	94.4	NA	93.2	NA	NA		NA
47087	116.7	155.3	112.5	171.9	212.1	184.1	NA		NA
47089	335.2	223.8	221	121.9	201.9	NA	NA		NA
47091	484.4	218.9	119.2	149.3	89.8	NA	93.5		NA
47113	125.8	75.8	84.1	2134.4	91.4	NA	NA		NA
47116	616	119.6	123.7	270.6	164.8	NA	496	Play	586
47127	274.4	141.8	106	271.6	154.1	NA	NA		NA
47136	178.1	87	97	95.3	195.1	NA	128.6		NA
47157	846.6	180.7	296.7	247.6	131.3	264.8	165.7		NA
47159	NA	49	122	90.3	NA	NA	NA		NA
47160	1092.9	98.6	146.5	401.7	863.2	NA	NA		NA
47164	30.8	70	82	128.9	37.1	NA	105.1		NA
47165	136.4	173.4	74.7	102.5	98.9	NA	NA		NA
47191	357.6	97.5	126.6	386.6	379.4	NA	NA		NA
47199	1352.3	87.2	145.5	588	1035.8	NA	NA		NA
47211	317.5	283.6	268.1	62.3	59.4	NA	221.4		NA
47220	29	66.4	120.5	56.3	39.2	NA	NA		NA
47221	1048.4	979.8	370.5	32.2	263.4	NA	NA	B2	284
47231	1798.2	400	203.7	413.5	689.9	NA	NA		NA
47294	682.5	92.2	165.1	122.3	190.9	NA	NA		NA
47297	123	34.3	61.6	51.8	90.7	NA	NA	B1	59.5
47317	81.7	103.6	173.5	122.8	175	NA	NA		NA
47324	1069.6	127.9	80.8	129.3	117.6	NA	NA		NA
47342	76.8	55.5	123.7	59.2	401.2	NA	NA		NA
47347	611.6	884.3	433.4	118.2	153.2	NA	NA	F2	552
47349	346.9	238.1	128.5	254.3	250.9	NA	NA		NA
47350	185.3	203.4	184.1	250	164.4	NA	NA	B2	189
47394	197.9	166.8	165.7	184.4	376.4	NA	NA		NA
47424	96.9	331.8	114.3	300.7	196.2	NA	NA		NA
47426	645.2	107.5	214.8	127.8	165.4	NA	NA		NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
47448	733.4	89.4	76.6	205.9	100.1	NA	NA		NA
47449	1435.3	366.7	312.2	464	384.9	NA	NA		NA
47453	217.4	35.8	93.9	ND	213.5	NA	NA		NA
47457	1140	308.8	499.6	205.8	715.6	NA	NA		NA
47479	101.3	492.6	83.3	161.7	213.7	NA	NA		NA
47484	191.1	198.9	279.4	69.4	98.5	NA	NA		NA
47496	65	74.2	33.8	59.1	48.1	NA	NA		NA
47498	364.6	NA	194.3	NA	442.8	NA	NA		NA
47502	383	289	354.4	127	122	NA	NA		NA
47508	106.1	212.2	285.2	65	126.3	46.5	NA		NA
47512	177.3	96.6	74.3	111.6	112.3	NA	NA		NA
47516	896	142.4	83.3	197.3	123.4	194.1	NA		NA
47520	41.6	76.4	108.3	255	92.8	NA	NA		NA
47521	568.8	233.5	106.3	275.5	144	NA	181.8	F2	134
47530	700.3	148.9	249.1	275.5	246.6	NA	NA		NA
47540	1929.6	251	165.5	189.8	209.4	NA	NA		NA
47551	1240	292	120.7	66	163.2	NA	NA		NA
47578	154.2	177.7	203	99.3	147.8	NA	NA	B2	85
47579	418.1	325.4	147.3	87.6	116.5	NA	NA		NA
47580	603.9	238.6	150.3	168.5	131.2	NA	NA		NA
47592	173.4	137.7	88	100.6	116.9	NA	NA		NA
47605	98.6	184.4	91.1	153.6	215.2	NA	NA		NA
47607	2699.2	97.7	295.6	145.5	100	NA	104.4		NA
47609	174.1	64.4	141.7	69.1	111.4	NA	NA		NA
47611	64.7	104	67.5	98	65.1	NA	NA		NA
47623	1897	275.3	125.6	139.1	289.2	NA	242.4		NA
47628	344.9	71.8	78.2	109.5	127.1	251.2	NA		NA
47639	1291	264.3	390.8	359.7	NA	NA	353.9		NA
47645	180	109.7	189.5	119	87.2	NA	105.8		NA
47648	350.4	122.6	106.8	237.1	291.3	NA	NA	B1	287
47659	566	302.4	279.5	288.9	190.9	NA	NA		NA
47660	1260	217	271.6	114.4	190.1	NA	NA		NA
47666	517.9	467.4	543.9	533.3	389.8	NA	NA		NA
47673	1918.4	745	367.7	121.8	263.6	NA	NA		NA
47677	404.2	456.5	330.6	401.3	515.8	NA	NA		NA
47687	351.5	214.5	327.7	183.7	249.2	NA	NA		NA
47693	121.9	47	50.3	101.4	51.4	84.9	NA		NA
47694	1053.5	122.4	137.3	92.8	101.8	NA	NA	F1	135
47695	456.6	192.5	244	160.2	121.6	95.2	NA		NA
47712	251.2	94.5	104.2	193.1	158.9	NA	NA	F1	119
47715	929.6	162.1	91.5	275.4	289	NA	NA		NA
47737	1652	566.2	266.1	808	100.8	530	118.8	Play	122
47739	72.8	176.4	136.6	272.6	155.4	NA	NA		NA
47740	260.3	146.6	142	83.6	187.6	NA	104.9		NA
47755	442.4	143.4	215.6	197.4	100.1	81.3	26		NA
47757	381.8	140.2	109.8	263.4	109.4	NA	NA		NA
47770	582.7	90.9	111.9	130.9	70	NA	NA		NA
47773	1324.8	964	270.6	156.4	129.6	NA	NA		NA
47778	212.8	66.4	73.2	204.6	65.2	NA	NA	F1	92

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
47780	189.3	110	156.8	292.2	191.5	NA	NA		NA
47798	992	201.7	272.2	141.8	128.7	NA	NA		NA
47800	313.6	147.2	359.6	1569.1	398	NA	NA		NA
47807	189.3	109.7	120.7	104.1	117.7	NA	NA		NA
47810	32.5	48.9	107	59.6	41.9	NA	25.6		NA
47857	1692.1	676.9	385.9	2344.5	756.9	NA	NA		NA
47865	81.5	175.4	104.6	129	113	NA	NA		NA
47870	1729.7	143.2	172.3	199.8	372.2	NA	NA		NA
47878	576.3	98.5	117.1	235.2	261.3	NA	NA		NA
47903	99.1	177.7	255.9	169.9	1596.1	NA	NA		NA
47918	580.3	643.5	180.7	1138.5	495.5	NA	NA		NA
47919	203.5	322.4	350.8	137.1	114	NA	NA		NA
47922	205.4	268.2	217.8	136.7	124.6	NA	NA		NA
47937	996.2	379.6	544.3	321.9	327.2	NA	NA		NA
47943	2142.7	751	246.2	202.1	221	NA	NA		NA
47947	108.8	79.1	201.8	24.2	56.9	NA	NA		NA
47954	346.5	229.7	304.9	ND	103.4	NA	NA		NA
47965	2028.8	436	247.6	636	478.8	NA	NA		NA
47979	302.6	422	113.1	452	409.4	NA	711.6		NA
47997	3452	287.3	237.2	187.2	355.3	NA	NA		NA
47999	461.2	147.6	295.8	226.8	241.6	NA	226.4		NA
48002	834	181.8	399.1	519.8	504.1	NA	NA		NA
48015	423.5	205.3	435.9	549.1	267.9	NA	322.9		NA
48026	659.1	331.4	281.2	414.4	108.8	NA	NA		NA
48035	390	338.8	105.4	380.2	115.4	NA	32		NA
48039	2593.7	429.3	207	1017.1	634.1	NA	NA		NA
48040	389.5	120	106.1	96.4	156.1	220.8	NA		NA
48050	449.8	116.5	85.4	55.5	65.5	NA	NA		NA
48052	607	183.5	227.1	461.3	193.2	NA	NA		NA
48054	1045	184.7	115.3	216.5	179.2	NA	NA		NA
48058	1707.2	395.8	253.1	404.3	NA	NA	NA		NA
48064	191.2	184.4	241	268.2	182.4	NA	NA		NA
48066	149.3	90.9	143.4	213.7	281.1	NA	NA		NA
48073	253	NA	NA	NA	NA	132.7	NA		NA
48083	78.3	130.5	127.4	315.3	259.9	NA	NA		NA
48085	441.2	247.2	351.4	448.4	302.2	NA	NA		NA
48096	571.3	212.2	130.9	79.6	110.9	NA	NA		NA
48097	176.2	140.9	114.5	225.2	180.7	NA	NA		NA
48101	98.7	95.8	64.3	123.9	180.9	83.5	88.8		NA
48105	617.1	604.8	425.9	769	841	NA	NA		NA
48110	638.6	146.8	105.9	226	220.3	NA	221		NA
48122	34.1	102.6	179.8	256.6	352	NA	NA		NA
48131	289.6	259.5	641.4	600.2	195.6	NA	NA		NA
48139	598.4	147.2	147.7	339	239.4	NA	NA		NA
48140	66.8	43.9	166.6	72.7	141.6	NA	NA		NA
48143	89.1	88.9	62.8	78.4	57.3	NA	NA		NA
48144	92.3	71.4	69.3	72.7	57.4	50.1	100.6		NA
48154	870	117.8	112.2	123.2	279.9	NA	NA		NA
48159	364.2	102.1	123.3	100	79.6	NA	NA		NA

Appendix A
Table A-2
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Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
48163	301.8	107.1	77.1	297.5	111.5	NA	NA		NA
48179	85.7	158.3	162.3	103.4	91.8	NA	NA		NA
48187	684.8	251.8	187.7	NA	237.2	198.8	NA		NA
48202	71	101.9	83.6	66.8	85.2	69.7	26.1		NA
48215	846.5	230.5	239.2	233.9	170	NA	123.4	F2	181
48216	208.8	109.1	119.8	131.1	266.5	NA	NA		NA
48219	312.8	109.3	56.5	55.2	52.1	NA	NA		NA
48222	76.7	74.7	59	59.5	49.1	NA	NA		NA
48223	426.5	401.6	259.8	388	339.4	NA	NA		NA
48230	374	391	169	261.4	279.8	211.4	NA		NA
48234	47.5	69.6	98.6	142.1	240.8	NA	NA		NA
48249	174.5	222.5	669.9	54.6	134.2	NA	NA		NA
48250	114	41.1	73.2	71.7	152.1	NA	NA		NA
48257	215.3	129.9	84.5	289.9	130.4	120.4	NA	Garden	107
48260	95.8	225	188.3	35.4	270.2	NA	NA		NA
48269	2803.2	189	153.4	221.6	315.8	NA	NA		NA
48281	273.6	124.6	57.5	27.7	199.8	NA	NA		NA
48298	171.6	165	178.4	1123.6	136.2	NA	NA		NA
48309	244.8	79.6	73.9	45.4	114.2	NA	NA		NA
48317	283.8	117	82.4	219.2	271.2	NA	186.8		NA
48319	865.7	363.2	172.1	219.4	168.4	NA	NA		NA
48335	140.9	108.7	124.1	49.7	NA	68.4	NA		NA
48340	1826.1	657.7	232.8	183	82.1	NA	138.7		NA
48350	368.2	235.4	223.6	136.6	128.7	235.4	NA		NA
48361	884.2	151.7	94.2	140.2	204	NA	NA		NA
48364	225.8	454.7	310.6	226.7	137.1	NA	NA		NA
48384	1697.7	339.4	158.4	110.4	233	NA	NA		NA
48386	411.6	167	271.3	112.2	123.8	NA	NA	F2	172
48387	849.6	239.6	116.5	347.8	160.3	170.2	NA		NA
48405	673.6	274	142.1	262.4	126.1	NA	NA		NA
48407	1802.3	107.5	101.3	52.8	134.7	57.1	NA		NA
48430	532.6	159.2	302.4	182.3	237.6	NA	NA		NA
48431	248.2	484.9	193.7	183.3	262.7	NA	NA		NA
48432	276.2	162.6	125.1	267.6	81.9	NA	78.7	F1	194
48465	1899.2	400.6	846.4	225.8	382.8	NA	NA		NA
48476	408	56.7	86.4	150	214.8	193.3	NA		NA
48482	150.2	97.3	41.3	71.8	94.9	NA	NA		NA
48490	28.7	69.2	122.2	134.5	116.9	52.4	NA		NA
48493	377.9	188.2	305.6	133.2	150.2	NA	NA		NA
48499	432.7	100.9	90.2	95.1	137.7	128.7	47.7	Garden	128
48534	150.9	49.2	25.4	128.8	51.7	NA	NA		NA
48549	71.2	73.1	32.7	NA	99.8	NA	65.9		NA
48552	38	39.6	54.5	116.8	47.6	NA	NA		NA
48568	39.3	111.5	90.1	69.8	79	NA	NA		NA
48571	60.9	165.1	205.9	88.1	43.9	NA	NA		NA
48573	36.3	70.3	48.4	25.8	42.9	44.7	NA		NA
48574	199.8	130.4	182.9	93.4	201.3	NA	NA		NA
48581	542.2	123	151.5	324.2	174.3	NA	126		NA
48586	139.4	177.6	152.4	181	108.6	NA	NA		NA

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Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
48590	204.5	79.3	214.8	69.8	48.9	NA	NA		NA
48592	39.6	120	91.1	108.7	5894.3	NA	NA		NA
48600	311.3	295.8	224.9	275.1	584.5	NA	NA		NA
48604	70.9	73.7	108.7	96.1	74.1	NA	NA		NA
48613	216.4	101.2	91.2	214.4	152.7	105.9	218.2		NA
48618	584.8	33.3	88.8	34.5	33.9	23.5	NA		NA
48622	719.2	93.9	285.8	117.6	83	NA	28.1		NA
48623	210.4	183.8	142.8	175	154.2	NA	NA		NA
48628	3473.5	142.8	134.6	166.2	136.4	NA	NA		NA
48662	660	294.2	185.8	212.4	139.2	NA	NA		NA
48663	126.1	167.9	117.1	391.8	322	NA	NA		NA
48672	107.7	103.9	42.3	114.9	83.5	NA	67.2		NA
48676	61.6	75.5	31.2	80.6	146.7	NA	NA		NA
48677	83.1	281.5	497.8	57.6	65	NA	NA		NA
48681	221.1	124.7	107.3	382.4	76.4	NA	NA		NA
48684	306.1	71.5	89.5	88.7	174.8	NA	NA		NA
48687	265.1	198.7	75	64.6	120.3	NA	91.9	B1	118
48692	602.4	504	357.6	888	325.8	NA	NA		NA
48696	970.4	196.4	NA	193	130.8	63.2	NA		NA
48701	1852.8	136.2	240.2	137.2	669.9	148.6	NA		NA
48722	265.8	81.9	131.3	157	269.1	NA	NA		NA
48727	788.5	287.5	173.1	384.3	94.1	NA	NA		NA
48731	93.3	94.6	84.6	93.2	87.8	NA	NA		NA
48739	641.6	533.2	632.4	NA	NA	NA	NA		NA
48744	45.7	104.3	83.3	90.3	106.2	76	91.7		NA
48748	2324.2	51.3	91.3	106	696.5	NA	NA		NA
48752	35.1	63.8	75.4	32.8	78	ND	NA		NA
48753	1200	264.2	199.2	83.5	77	NA	NA		NA
48755	940.2	790.2	504	133.8	96.3	NA	51.6		NA
48783	198.8	108.3	156.3	255.4	285.6	NA	118.3		NA
48787	608.6	80.8	1303.5	383.5	414	NA	NA		NA
48803	95.4	80.3	98.6	75.5	77.4	NA	NA		NA
48804	352.4	148.6	177.5	192.2	168.2	208.6	NA		NA
48810	800.2	132.1	200.7	64.9	92.7	NA	NA		NA
48814	567	297.6	196.9	446.7	354	NA	117.7		NA
48827	278.8	115.2	104.4	77.1	151.6	163.1	101.8		NA
48840	57.3	56	82.9	64.4	48.4	67	65	B2	48.8
48841	51.1	84	114.8	112.6	120.8	49	186.4		NA
48850	76.4	97.9	72.2	206.1	156.6	NA	NA		NA
48856	3145.4	1082.7	233.5	819.2	433.5	NA	622.9		NA
48859	948	169.6	ND	281.4	153.6	NA	171.4		NA
48868	656.7	137.1	110	374.7	218.6	NA	NA		NA
48872	562.4	110.5	71.2	106.7	73	NA	NA		NA
48873	363.4	57.6	327	390.7	106.1	37.7	NA	F1	67.5
48874	40	111	53.6	111.7	179.6	NA	NA		NA
48875	106.6	68.4	73.5	43.5	98.5	NA	NA		NA
48876	143.7	127.6	170.6	85.7	73	NA	NA		NA
48883	35.5	63	69	108	151.9	NA	126.1		NA
48884	138.3	132.8	159.5	193.2	110.9	NA	NA		NA

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
48885	213.4	157.6	145.5	116.2	195	88.8	135		NA
48899	1007.6	116.3	281.9	331.4	665.2	308.7	NA		NA
48907	4367.4	86.7	73.4	186.1	324.2	NA	NA		NA
48914	53.3	82.5	115.3	42	169.9	NA	NA		NA
48928	962.3	880.4	277.9	NA	NA	NA	NA		NA
48935	463.9	157.7	204	166	72.4	NA	NA		NA
48941	4484.1	231.1	121.3	315.4	208	NA	NA		NA
48953	294.4	149.8	170.6	112.8	100	NA	NA		NA
48954	145.8	207.2	279	163.5	110.9	68.9	NA		NA
48984	1062.9	108.8	197.4	205.3	272.6	NA	NA		NA
48985	951.2	255.6	611.6	135.6	216	266.2	NA		NA
48989	492.2	204.2	131.9	272	209.7	NA	NA		NA
49000	476.1	158.3	303	84.5	124	NA	NA		NA
49002	636.8	150.8	648.8	294.2	347.8	NA	NA		NA
49006	298.6	69.7	44.9	74.3	55	NA	NA		NA
49008	69.4	56.4	31.2	47.2	27.5	33.5	NA		NA
49009	43.7	46.2	89.6	74.6	ND	NA	104.6		NA
49010	248.2	173.8	100.4	180	174	NA	NA		NA
49015	339.1	526.1	240.3	230.9	363.2	NA	NA		NA
49026	1709.2	228.5	1711.9	242.3	232.1	NA	NA		NA
49040	479.6	286	255.8	243.6	225	NA	NA		NA
49044	2677.3	63	404.5	208.8	349.9	NA	325		NA
49050	121.9	156.3	266.6	82.8	123.3	NA	NA		NA
49086	151.1	1854.1	173.2	61.6	538.4	NA	NA		NA
49096	185.7	172.6	41.8	88.7	100.7	NA	NA		NA
49100	499.6	178.6	186.9	100	90.3	95.2	NA		NA
49103	839.2	1120	393.6	318.2	576.8	NA	NA		NA
49107	890.4	321.4	386.8	329.4	688	NA	NA		NA
49114	653.2	277.4	174.1	245.4	206.2	NA	NA		NA
49119	1114.9	54.5	87.2	289.8	86.3	NA	77.6		NA
49120	1361.8	552	501.8	270.6	680	NA	NA		NA
49173	1056.6	428.1	420.5	NA	225.9	NA	NA		NA
49213	46.6	38.8	60.6	125.5	78.4	NA	NA		NA
49214	71.1	55.3	83.7	74.3	102.7	NA	NA		NA
49215	58.8	64.3	53	57.8	31.2	NA	55.8		NA
49217	ND	ND	ND	36.4	47.9	NA	212.9	B2	67.4
49218	25.3	18.7	ND	21.1	21.9	NA	32		NA
49220	ND	27.7	40.8	52.8	39.7	NA	72.9		NA
49222	30.1	22	184.6	58.4	32.8	NA	43.8		31.7
49223	27.9	43.2	25.5	44	66.3	NA	41		NA
49224	40.7	ND	38.4	42.8	72	NA	37.2	F1	39.3
49225	40.9	41.6	37.8	96.5	44.2	NA	98.1		NA
49226	21.3	ND	54	43.7	224.3	NA	49.9		NA
49227	ND	98.5	49	346.8	55.8	NA	129		NA
49229	61.2	37.5	ND	83.4	84	NA	NA		NA
49230	21.6	22.2	52.6	44.3	23.8	NA	NA		NA
49231	71.3	34	30.9	147.6	98.4	NA	ND	B2	122
49232	ND	ND	ND	111.5	ND	28.6	NA	F2	24.8
49233	ND	31.7	ND	64.9	112.2	NA	56.4	F1	63.4

Appendix A
Table A-2
Results of All Surface Soil Samples Collected by BVSPC
Site Inspection/Remedial Investigation
Omaha Lead Site, Omaha, Nebraska
Pb Concentrations in mg/kg

BVID	XRF							Laboratory	
	Drip	Yard-F1	Yard-F2	Yard-B1	Yard-B2	Garden	Play	Loc	Result
49234	25.5	36	34.3	96.3	134.3	33.2	30.9		NA
49235	29	38.5	20.9	54.3	41.2	NA	47.3		NA
49236	32.6	22.6	ND	31.5	67.8	NA	31.5		NA

Appendix A
Table A-3
House Dust Test Results

AVERAGE OF ALL AVERAGE VACUUM SAMPLE CONCENTRATIONS = 436 mg/kg
MEDIAN OF ALL AVERAGE VACUUM SAMPLE CONCENTRATIONS = 232 mg/kg
HIGHEST OF ALL AVERAGE VACUUM SAMPLE CONCENTRATIONS = 6105 mg/kg
LOWEST OF ALL AVERAGE VACUUM SAMPLE CONCENTRATION = 26 mg/kg

(U = below level of detection; J = estimated value; O = not analyzed)

BVID	WIPE SAMPLE (µg/ft2)		ENTRY VACUUM SAMPLE		FLOOR VACUUM SAMPLE (mg/kg)		BEDROOM VACUUM SAMPLE (mg/kg)		AVERAGE VACUUM SAMPLE (mg/kg)	
10166	13	U	118		22.2		63.5		68	
10262	31	U	258		318		159		245	
10345	511		85.5		162		72.5		107	
10652	15	U	168		175		78.5		141	
11053	1579		781	J	78.4	J	347	J	402	J
11381	56		1190		763		302		752	
11482	27	U	528		466		107		367	
11560	66		145		100		146		130	
11588	12	U	43.1		61.7		135		80	
11747	3	U	159		127		188		158	
11748	23	U	573		23.6		79.9		226	
11779	30	U	159		214		120		164	
11885	31	U	162		117		167		149	
11898	29	U	193	J	114	J	90.8	J	133	J
12263	7	U	159		97.6		53.4		103	
12404	167		243		171		390		268	
12446	390		216		109		29.8		118	
12456	1208		230		219		726		392	
12580	223		1420		239		169		609	
12739	30	U	43.5		502		149		232	
12800	5	U	265		255		638		386	
13294	4	U	92.4		67.2		70.5		77	
13628	42	U	151		142		56.1		116	
13804	8	U	63.3		62		39.4		55	
13850	511		46.8		33.9		24.4		35	
13889	5667		1100		554		222		625	
14085	83		86.5		72.6		54.2		71	
14263	69	U	218		115		83.4		139	
14266	11	U	41.8		36.9		28		36	
14579	60	U	310	J	96.4	J	78.9	J	162	J
14625	2	U	49.3		61.6		90.4		67	
14690	483		524		531		299		451	
14922	64		34.9		7.22		37.1		26	
14979	25	U	48.6		52.3		38.4		46	
15097	102		15900		2050		365		6105	
15119	43		150		82.7		65.9		100	
15156	5	U	88		2.06	U	66.3		52	
15226	771		283		564		105		317	
15244	20	U	1560		774		522		952	
15510	9	U	107		16.6	U	34.9		53	
15579	14	U	90.3		53.6		642		262	

Appendix A
Table A-3
House Dust Test Results

(U = below level of detection; J = estimated value; O = not analyzed)

BVID	WIPE SAMPLE (µg/ft2)		ENTRY VACUUM SAMPLE		FLOOR VACUUM SAMPLE (mg/kg)		BEDROOM VACUUM SAMPLE (mg/kg)		AVERAGE VACUUM SAMPLE (mg/kg)	
15701	9	U	112		66.6		63.2		81	
15704	14	U	58	J	55.7	J	36.6	J	50	J
15903	20	U	85.4		102		138		108	
15922	30	U	89.7		87.7		115		97	
15940	214		2030		562		371		988	
15968	9	U	1000		971		158		710	
16138	1486		1430		438		456		775	
16305	5	U	165		146		90.4		134	
16533	32	U	431		208		902		514	
16685	9	U	167		258		181		202	
16687	29	U	485		103		98.1		229	
16745	85		941		2120		280		1114	
16748	139		162	J	165	J	368	J	232	J
16782	6	U	273			O	172	U	223	U
16783	195		3420		1410		1060		1963	
16859	87		137		101		120		119	
16898	6	U	139		163		95.3		132	
16930	5	U	161		570		143		291	
17210	79		1060		594		519		724	
17211	93		368		227		215		270	
17314	71	U	189		174		652		338	
17424	195		176		119		297		197	
17507	17	U	166		183		551		300	
17813	15	U	226		199		126		184	
17917	93		644		1280		645		856	
18288	325		584		496		247		442	
18298	9	U	217		259		180		219	
18351	74	U	47.8	J	48	J	47.8	J	48	J
18368	64	U	876	J	1220	J	926	J	1007	J
18420	3	U	389		101		113		201	
18432	35	U	181		105		169		152	
18681	130		201		163		494		286	
18760	71		283		199		203		228	
18826	28	U	636		352		576		521	
18853	44	U	439		131		91.9		221	
18866	39	U	302		121		264		229	
18896	325		544		388		222		385	
18932	45	U	229		390		255		291	
18965	1	U	84.6		83.1		62.4		77	
19115	34	U	63		66.7		75.9		69	
19347	10	U	620		287		203		370	
19609	47	U	685		559		240		495	
19654	102		297		242		110		216	
19688	48	U	315	J	262	J	268	J	282	J
19725	11	U	405		235		1060		567	
19727	102		628		363		339		443	

Appendix A
Table A-3
House Dust Test Results

(U = below level of detection; J = estimated value; O = not analyzed)

BVID	WIPE SAMPLE (µg/ft2)		ENTRY VACUUM SAMPLE		FLOOR VACUUM SAMPLE (mg/kg)		BEDROOM VACUUM SAMPLE (mg/kg)		AVERAGE VACUUM SAMPLE (mg/kg)	
19822	3	U	2090		646		385		1040	
19849	40	U	397		177		117		230	
20199	8	U	448	J	391	J	326	J	388	J
20454	279		168		152		223		181	
20481	14	U	108		102		114		108	
20687	50	U	1490		338		405		744	
20688	54	U	661		593		381		545	
20711	121		1090		525		415		677	
20730	23	U	96.5		74.7		65		79	
20893	46	U	68.6		56.9		36.7		54	
20911	130	U	291	J	166	J	285	J	247	J
20978	71	U	127		168		97.7		131	
21050	25	U	655		2	U	2.08	U	220	U
21287	70	U	158	J	233	J	158	J	183	J
21338	409		1450		1850		543		1281	
21411	3	U	119		117		55.8		97	
21428	59	U	261		292		345		299	
21446	121		550		308		14100		4986	
21795	678		132		147		209		163	
21864	55	U	678		293		758		576	
21911	139		200		198		159		186	
22105	22	U	1910		1120		1070		1367	
22781	111		596		1330		3450		1792	
22981	23	U	1110		414		1960		1161	
23849	57		680		402		617		566	
23989	204		591		332		370		431	
25546	818		845		565		531		647	
25766	36	U	115		125		92.1		111	
25966	334		293		156		558		336	
26312	74		1180		576		396		717	
26828	34	U	446		571		2530		1182	
26973	93		362		50.4		168		193	
27231	11	U	213		221		355		263	
27397	28	U	624		467		440		510	
27535	5	U	132		58		32.4		74	
28038	12	U	71.7		72.2		68.7		71	
28511	2044		193		82.9		204		160	
28542	20	U	245		201		398		281	
28935	49	U	454		113		222		263	
29496	18	U	332		270		235		279	
29588	10	U	79		69.3		91.8		80	
29816	297		83.8		104		104		97	
30273	121	U	420		97.3		119		212	
30351	167		87.8		70.2		42.5		67	
30614	1579		843		417		253		504	
30768	1022		169		298		41.4		169	

Appendix A
Table A-3
House Dust Test Results

(U = below level of detection; J = estimated value; O = not analyzed)

BVID	WIPE SAMPLE (µg/ft2)		ENTRY VACUUM SAMPLE		FLOOR VACUUM SAMPLE (mg/kg)		BEDROOM VACUUM SAMPLE (mg/kg)		AVERAGE VACUUM SAMPLE (mg/kg)	
30774	2973		461	J	135	J	105		234	
30793	83	U		O	235		258		247	
30818	1858		811	J	234	J	609	J	551	J
31057	62		174		76.6		426		226	
31098	827		446		177		447		357	
31112	344		749		203		213		388	
31567	251		801		517		776		698	
31906	13	U	11200		701		274		4058	
31978	44	U	394		263		303		320	
31991	52026		242		231		2360		944	
32147	21	U	147		94.7		76.9		106	
32238	8	U	617		452		689		586	
32340	15	U	232		151		100		161	
32584	1208		543		293		319		385	
32877	10	U	62.9		68.3		30.7		54	
33011	46	U	109		137		104		117	
33044	390		188		201		177		189	
33073	4	U	35.5		141		99.9		92	
33285	38	U	1480		549		377		802	
33408	111	U	289		312		428	J	343	J
33424	121		58.2		93.6		57.6		70	
33785	2	U	60.6		37.7		57.4		52	
33834	9	U	1670		484		398		851	
33966	437		120		73.8		635		276	
33993	20	U	93.6		108		692		298	
34043	17	U	589		434		269		431	

Appendix B
Field Sheets

U.S. Environmental Protection Agency Region VII

Omaha Lead Site
Omaha, NE

Residential Yard Soils
Remedial Investigation/
Feasibility Study

PROPERTY ACCESS *(to be completed by property owner)*

Para recibir esta forma en español, por favor llamé Debbie Kring al 1-800-223-0425

Black & Veatch Special Projects Corp. (BVSPC) is under contract with the U.S. Environmental Protection Agency (EPA) to assist in the determination of levels of lead and other metals in surface soils within the Omaha, Nebraska area. Your cooperation is requested in giving BVSPC/EPA permission to access your property for the purpose of surface soil sampling analysis in support of this study. For further information contact Don Bahnke, EPA Project Manager, 1-913-551-7003 or Debbie Kring at the Office of External Programs, **1-800-223-0425**.

Property Access Granted By: _____
(Please Print Name)

_____ _____
(Property Owner Signature) *(Date)*

*NOTE: Granting permission **DOES NOT** necessarily imply your property will be sampled at this time.*

PROPERTY INFORMATION

(to be completed by resident and/or property owner - Please Print)

Resident name: _____ ☐ Owner ☐ Renter

Residence address: _____ _____
(City) (State) (Zip)

Property owned by: _____

Owner's mailing address: _____

Owner's telephone number - Home: (_____) _____-_____ Work: (_____) _____-_____

Age of home? _____ years. How long have you lived here? _____ years.

Has the exterior been painted or covered with siding since 1978? ☐ Yes ☐ No

Has the interior been painted or covered since 1978? ☐ Yes ☐ No

Total number of occupants: _____ List ages: _____

List ages of occupants under 6 years old who play in the yard for 5 hours or more per week: _____

Comments: _____

AUTHORITY FOR ENVIRONMENTAL RESPONSE ACTIONS

The activities to be implemented by EPA under this agreement are pursuant to Section 104 of CERCLA, 42 U.S.C. 9604. EPA's right of access to the property for in Section 104(e) of CERCLA, 42 U.S.C. 9604(e), which provides entry for, "determining the need for response, or choosing or taking any response action under this title, or otherwise enforcing the provisions of this title."

Access Attempts: Letter sent 03/10/2003

First: _____ Second: _____ Third: _____

Black & Veatch Special Projects Corp.

Name: _____
Address: _____
Phone: _____

Omaha Lead Site
Site Sketch

Date: _____
Time: _____

North Arrow

Team _____ BVID # _____ XRF Code _____

Sample Number	Lead Concentration	Confirmation Sample
1 _____	_____ ppm	Yes ☐ No ☐
2 _____	_____ ppm	Yes ☐ No ☐
3 _____	_____ ppm	Yes ☐ No ☐
4 _____	_____ ppm	Yes ☐ No ☐
5 _____	_____ ppm	Yes ☐ No ☐
6 _____	_____ ppm	Yes ☐ No ☐
7 _____	_____ ppm	Yes ☐ No ☐

BVID_____

U.S. Environmental Protection Agency Region VII

Omaha Lead Site
Omaha, NE

Interior Dust Samples
Remedial Investigation/
Feasibility Study

PROPERTY ACCESS
(to be completed by property owner)

Black & Veatch Special Projects Corp. (BVSPC) is under contract with the U.S. Environmental Protection Agency (EPA) to assist in the determination of levels of lead and other metals in interior dust within the Omaha, Nebraska area. Your cooperation is requested in giving BVSPC/EPA permission to access your property for the purpose of interior dust sampling analysis in support of this study. For further information contact Don Bahnke, EPA Project Manager, (913) 551-7703 or the Office of External Affairs (800) 223-0425.

Property Access Granted By: _____
(Please Print Name)

_____ _____
(Property Owner Signature) *(Date)*

*NOTE: Granting permission **DOES NOT** necessarily imply your property will be sampled at this time.*

SAMPLE INFORMATION
(to be completed by sampler - Please Print)

Residence address: _____ _____
(City) (State) (Zip)

Children live at the residence: ☐ Yes ☐ No List ages: _____

Sampler: _____ Date: _____

Wipe Sample

Room: Kitchen/Breakfast ☐ Bedroom ☐ Living Room ☐ Dining Room ☐ Den/Great Room/Family Room ☐
Play Room ☐ Office ☐ Other ☐ _____

Area of sample collection: _____ (inches^2)

Time of collection: _____

Lead loading: _____ (μg/ft^2) Lab result: _____

Vacuum Sample No. 1

Room: Kitchen/Breakfast ☐ Bedroom ☐ Living Room ☐ Dining Room ☐ Den/Great Room/Family Room ☐
Play Room ☐ Office ☐ Other ☐ _____

Area of sample collection: _____

Time of collection: _____ Total Sample Time: _____

Type of Floor Sampled:

(Check one) Carpet ☐ Rug ☐
(Check one) Plush ☐ Level Loop ☐ Multi-level ☐ Shag ☐ Other ☐ _____
-OR-
(Check one) Hard Surface: Wood ☐ Tile ☐ Vinyl/Laminate ☐ Concrete ☐ Brick ☐ Other ☐ _____

Access Attempts:

First: _____ Second: _____ Third: _____

Black & Veatch Special Projects Corp.

Last vacuumed: _____

Temperature: _____ Humidity: _____ Flow rate: _____ Pressure drop: _____

Tare weight (container before sample): _g Final weight (container and sample): _____g Weight of total sample: _____g

Pan tare weight (pan w/o sieved sample): _____g Final weight (pan and sieved sample): _____g

Weight of sieved dust sample: _____g (Fine Dust)

Lead loading: _____ ($\mu g/ft^2$) Lead concentration: _____ ($\mu g/g$) Lab result: _____

Vacuum Sample No. 2

Room: Kitchen/Breakfast ☐ Bedroom ☐ Living Room ☐ Dining Room ☐ Den/Great Room/Family Room ☐
Play Room ☐ Office ☐ Other ☐ _____

Area of sample collection: _____ ($inches^2$)

Time of collection: _____ Total Sample Time: _____

(Check one) Carpet ☐ Rug ☐
(Check one) Plush ☐ Level Loop ☐ Multi-level ☐ Shag ☐ Other ☐ _____
-OR-
(Check one) Hard Surface: Wood ☐ Tile ☐ Vinyl/Laminate ☐ Concrete ☐ Brick ☐ Other ☐ _____

Last vacuumed: _____

Temperature: _____ Humidity: _____ Flow rate: _____ Pressure drop: _____

Tare weight (container before sample): _g Final weight (container and sample): _____g Weight of total sample: _____g

Pan tare weight (pan w/o sieved sample): _____g Final weight (pan and sieved sample): _____g

Weight of sieved dust sample: _____g (Fine Dust)

Lead loading: _____ ($\mu g/ft^2$) Lead concentration: _____ ($\mu g/g$) Lab result: _____

Vacuum Sample No. 3

Room: Kitchen/Breakfast ☐ Bedroom ☐ Living Room ☐ Dining Room ☐ Den/Great Room/Family Room ☐
Play Room ☐ Office ☐ Other ☐ _____

Area of sample collection: _____ ($inches^2$)

Time of collection: _____ Total Sample Time: _____

(Check one) Carpet ☐ Rug ☐
(Check one) Plush ☐ Level Loop ☐ Multi-level ☐ Shag ☐ Other ☐ _____
-OR-
(Check one) Hard Surface: Wood ☐ Tile ☐ Vinyl/Laminate ☐ Concrete ☐ Brick ☐ Other ☐ _____

Last vacuumed: _____

Temperature: _____ Humidity: _____ Flow rate: _____ Pressure drop: _____

Tare weight (container before sample): _g Final weight (container and sample): _____g Weight of total sample: _____g

Pan tare weight (pan w/o sieved sample): _____g Final weight (pan and sieved sample): _____g

Weight of sieved dust sample: _____g (Fine Dust)

Lead loading: _____ ($\mu g/ft^2$) Lead concentration: _____ ($\mu g/g$) Lab result: _____

AUTHORITY FOR ENVIRONMENTAL RESPONSE ACTIONS
The activities to be implemented by EPA under this agreement are pursuant to Section 104 of CERCLA, 42 U.S.C. 9604. EPA's right of access to the property for in Section 104(e) of CERCLA, 42 U.S.C. 9604(e), which provides entry for, "determining the need for response, or choosing or taking any response action under this title, or otherwise enforcing the provisions of this title."

Appendix C
Socio-Demographics and Land Use and Activity Patterns Report

FINAL

SOCIO-DEMOGRAPHICS, AND LAND USE AND ACTIVITY PATTERNS OMAHA - NEBRASKA

Prepared For

Black and Veatch Special Projects Corp.

U.S. Enviromental Protection Agency
Region VII

By

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March 2004

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Assessment of Exposure to Lead Poisoning
Demographic and Land Use and Activity Patterns

Purpose:

The purpose of this project is to gather site-specific information on the extent of exposure of residents within the Omaha Superfund Lead Site to lead poisoning in the soil through their daily activities in their home environment. The Environmental Protection Agency's (EPA) on-going soil testing for lead contamination within the Omaha Lead Site indicates elevated levels of lead. This study is part of the Risk Assessment study to determine public health risks to lead exposure in the Omaha Lead Site.

Background:

In Omaha, the main source of lead contamination in the soil is from industries such as ASARCO and others that were located in the downtown area close to the Missouri River. The Environmental Protection Agency (EPA), Region VII has designated the approximate boundaries of the Omaha Lead Site to be south of Ames Street, north of L Street and east of 45th St. Black and Veatch Special Projects (BVSPC) was issued a work assignment by the U.S. Environmental Protection Agency (EPA) to determine if wide spread metals contamination exists around the ASARCO facility. BVSPC's responsibilities under the work assignment include obtaining access agreements from property owners within a three-mile radius of the ASARCO facility, collecting and analyzing soil samples from the owners, and conducting an indoor dust sampling study as part of the Risk Assessment study.

Objectives:

The main objectives of this study are to:

a) Gather Socio-demographic data;

b) Gather information on current land use and activity patterns; and

c) Obtain information on exposure frequency, duration, and type of outdoor activities in the home environment, particularly among children below the age of seven.

Sample Size and Sampling Procedure:

The sample size, sampling procedure, and the specific homes sampled were determined by BVSPC as part of the indoor-dust sampling study. In this study 159 homes were sampled.

Data Collection Process:

A University of Nebraska-Omaha (UNO) personnel constructed the survey questionnaire to gather demographic information and activity patterns at the Omaha site. In the construction of the survey questionnaires, similar questionnaires used at other lead sites and relevant research studies were reviewed. Input was obtained on several drafts of the questionnaire from Nebraska Health and Human Services personnel. Several modifications were made in the questionnaire in the course of data collection based on the field-experiences of outreach workers. UNO personnel requested feedback on the questionnaire from key community leaders through BVSPC but did not receive any feedback. The questionnaire was translated into Spanish. A copy of the questionnaire for adults and children in Spanish and English is shown in Appendix 1.

Outreach workers were hired by UNO to conduct door-to-door surveys. The outreach workers made visits to homes with the BVSPC indoor-dust sampling team to gather the demographic data. BVSPC obtained written permission though an access agreement from the residents prior to the door-to-door visits to conduct indoor dust sampling (See Appendix 2). The access agreement did not include information relating to the demographic survey.

UNO hired three bilingual, outreach workers, fluent in Spanish. Bilingual interviewers were essential since there has been a dramatic increase in first generation immigrants from

Mexico and other parts of Latin America in South Omaha. Many lack a high school education (U.S. Census, 2000) and do not speak and/or read English.

UNO personnel trained the outreach workers in:

a) Epidemiology, of lead poisoning in the U.S., and issues specific to Omaha (e.g., EPA Superfund listing, local resources for screening and education information, for example from the Douglas County Health Department (DCHD), Lead Safe Omaha Coalition (LSOC), etc.). Workers were given an hour-long power-point presentation on the lead problem in Omaha. They were also given two research articles on lead, and educational booklets and pamphlets by the EPA, Nebraska Health and Human Services, DCHD, and the LSOC.

b) Community-based survey research and face-to-face interview techniques. Survey research techniques stress the uniform and objective presentation of questions and timely clarification of issues that might arise. UNO personnel stressed issues pertaining to confidentiality. Workers were required to read and follow the ethical conduct of non-therapeutic research as outlined by the UNO Institutional Review Board (see www.unmc.edu/irb) that oversees all research related activities at UNO. It should be noted that this project did not require approval by the Institutional Review Board since the primary aim of the study was not research but service to the community. The initial training was carried out over a period of four hours over the course of two days. In addition, UNO personnel had on-going discussions of the lead problem in Omaha and confidentiality and ethical issues with the UNO workers throughout the project. Training of workers is essential to ensure the integrity of the study and to maintain consistency, validity, and confidentiality of the data.

The data collection process was carried out over a 31 workday period – from November 19th, 2003 to January 10th, 2004. BVSPC directly made appointments with residents for home

visits by the BVSPC indoor dust sampling team accompanied by the UNO outreach workers. UNO personnel were informed of the date, time and location of these appointments. UNO workers met the BVSPC team outside the respective homes at the scheduled time to conduct the demographic survey.

The interview schedules varied from day to day. Initially, there were only two dust-sampling teams and the three UNO outreach workers were able to cover the interviews. Over the course of the project, more dust-sampling teams were added. During the final week of the project there were four dust teams in operation each day with a high volume of interviews, despite several cancellations. BVSPC workers gathered the demographic data when UNO workers were unavailable to cover the appointment.

Data Entry and Analysis:

Two part-time graduate assistants were hired to enter and analyze the data. The raw data was first entered into *Statistical Package for the Social Science* (SPSS), a commonly used program in the social and behavioral sciences in data management and analysis. Frequencies were run on all variables. The data was then exported into *Microsoft Excel*. Unlike SPSS, Excel is unable to accommodate a data set with a large number of variables. Hence, the SPSS files were broken down into several Excel files. The code-book that is part of the SPSS program was exported into a *Microsoft Word* file.

Results:

Survey data were collected from 159 homes. Demographic data such as age, and race/ethnicity were collected for all residents of the household from the respondent. Data on occupation, length of residence, and hobbies were collected from the respondent and only one other adult above the age of 18 in the household. Detailed activity of children age 7 and under were

collected to provide information on weekday and weekend land-use and activity patterns during the different seasons of the year. Eighty-five percent of the interviews (n=134) were conducted in English and 25% (n=24) of the interviews were conducted in Spanish (See Figure 1). About half of the interviews (n=79) were conducted by UNO workers and half (n=77) were conducted by BVSPC workers (See Table 1). Three of the workers who conducted 47% of the interviews by BVSPC were briefly trained (one hour) in demographic, face-to-face interviews by UNO personnel. There are missing data for most variables pertaining to adults and percentages reported were adjusted for these missing data.

Age, Race/Ethnicity of the Respondent and other Adult. The age of the respondents ranged from 19 to 93 years (see Figure 2). The majority of the respondents (65%) were female (see Figure 3). Thirty-nine (25%) of the respondents were African American, thirty-eight (24%) were Hispanic/Latino, seventy-two (46%) were White/Caucasian, and six (4%) were Asian American (see Figure 4). The age of the other adult in the house ranged from 10 to 90 years and the majority (57%) were female. Forty-three percent of the other adult in the house were White/Caucasian, 25% were African American, 25% were Latino, 5% were Asian American and 2% were of mixed race/ethnicity. The majority of the other adult in the house (61%) were married to the respondent. The rest of the people in the house were either children, grandchildren, nephews, siblings, parents or friends/roommates of the respondent.

Garden Crops. Thirty-eight percent of the respondents did have a vegetable garden. Of these homes, 92% reported that tomatoes were their primary crop in terms of quantity. Bell peppers were the primary crop for 7% of the respondents with a garden, cucumbers and jalapenos were the primary crop for 5% of respondents, and green beans, okra, turnips and radishes were the

primary crop for 3% of respondents. Other primary crops in order of quantity include cantaloupe, watermelon, potatoes, pumpkins, eggplant and zucchini.

Pet Ownership. Twenty-five percent of the respondents had cats and 33% of the respondent had dogs. The number of cats per house ranged from 1 to 6 and the majority of respondents had only one cat. The number of dogs per house ranged from 1 to 5 and the majority of respondents had only one dog. Cats were more likely to be indoor cats compared to outdoor or both indoor and outdoor cats. Dogs were more likely to be both indoor and outdoor dogs, compared to either an indoor or outdoor dog. Other indoor pets include birds (4% of the respondents), fish (4%), turtles and tortoise (2%), and lizards, guinea pigs, rats and ferrets.

Source of Water for Drinking and Cooking. The main type of water used at home for drinking purposes was tap water (63% of the respondents), followed by filtered tap water (19%), bottled water (16%), and both tap and bottled water (2%). The main type of water used at home for cooking purposes was tap water (87%), followed by filtered tap water (9%) and bottled water (4%).

Hobbies/Activities of the Respondent. Respondents reported that either themselves or the another adult in the house participated in the following activities: making or repairing of stained glass windows at home (3%); making or repairing of lead sinkers and/or bullets at home (1%); manufacturing or salvaging of batteries at home (2%); making or decorating of pottery or ceramics at home (4%); artistic or industrial painting at home (18%); indoor or outdoor target shooting (4%); metal work involving salvaging, sanding, cutting or welding (10%); collecting, polishing or sanding of brass, bronze or pewter (6%); automobile service including batteries or radiators (6%); electrical work, soldering or welding (9%); carpentry, construction, renovation or

demolishing (27%); power cleaning using sand or water (7%); chemical or electrical work (8%); working in a glass factory (2%); and work in an oil refinery (1%).

Occupation. Twenty-one percent of the respondents were retired; 12% worked at home as housewives; 6% were health professionals; 5% were on disability; 3% were carpenters; and 3% were machine operators; 3% were cooks; and 3% were unemployed. The rest of the respondents were mainly in the blue-collar (construction, steel worker, forklift driver, etc.) or the service sector (customer service, bartender, etc) of the economy. Sixty-one percent of respondents and 82% of the other adult in the home worked full-time. The number of hours worked per week ranged from 3 to 115 hours per week for the respondent and from 20 to 80 hours for the other adult in the home. The majority of both the respondents (60%) and the other adult in the house (81%) worked 40 hours or more per week.

Exposure to Lead in Occupation. Five percent of the respondents and 9% of the other adult in the home reported that they had exposure to lead in their occupation.

Activities away from Home. Sixty-nine percent of respondents and 65% of the other adult in the home spent time away (vacation and work related) from Omaha during the year. The number of days per year spent away from Omaha ranged from one to 185 days with a median of 14 days. The number of days the other adult in the home spent away from Omaha ranged from one to 270 days.

Volunteer Work. Twenty-seven percent of the respondents, and 23% of the other adult in the house volunteered outside the home. The number of hours respondents volunteered per year outside the home ranged from 4 to 624 hours with a median of 100 hours. The number of hours the other adult volunteered per year outside the home ranged from 7 to 520 hours.

Age of House and Ownership Status. The majority of the respondents (49%) lived in housing built before 1950 (see Figure 5). Also, the majority of the respondents (89%) rented their home (see Figure 6). The majority of respondents (51%) lived in their house for over 8 years and the majority of the other adult in the home (59%) lived in the house for over 5 years. Among the 16 respondents who lived in their house for less than a year, 13 of them previously lived in a home east of 45th Street. Similarly, the other adult in the home who lived there for less than a year was more likely to have lived at a prior residence located east of 45th Street rather than west of 45th Street.

Home Renovation and Remodeling. Sixty percent of respondents reported recent renovation or remodeling of their home. The most frequent remodeling activity was painting (30%), and construction of a new room, wall, or floor (26%). Other remodeling activities included heating repairs; carpeting; and building/renovating deck, fence, windows, roofs, and door. Sixty-six respondents (43%) stated that there structures of homes next door had been renovated, repainted, demolished or sand/water blasted.

Location of Home. Thirty-two percent of the households surveyed were in zip code 68105, 21% were in zip codes 68111 and 68108 respectively, and 13% were in zip code 68107 (see Table 2).

Location and Ground Cover of the Yard. Approximately, 86% of the respondents reported that at least 50% of their property was in the front yard, and 97% of the respondents reported that at least 50% of their front yard was dirt covered. About 12% of the respondents reported that at least 50% of their property was in the back yard, and 90% of the respondents reported that at least 50% of their back yard was dirt covered.

Data on Children. Detailed data on socio-demographics and duration of play activities during the different seasons in the year were collected on a total of 69 children, age 7 and below. There

were missing data and the percentages reported have been adjusted for these missing data. Possible explanations for missing data are discussed below under, "Missing Child Data."

Socio-Demographic Data on Children. Of the sixty-nine children age 7 and below, eight were less than one year, 19 were between 1-2 years old, 24 were between 3-4 years old and 18 were between 5-6 years old (see Figure 7). The relationship to the respondent was as follows: daughter (n=25), son (n=22), grandchild (n=12), great grandchild (n=4), nephew (n=2), niece (n=3), and sibling (n=1).

Time Spent Indoors and Outdoors. The number of hours per week that the child spent at home indoors and outdoors during the weekday in the *summer* (June to August) ranges from 0 to 120 hours and 0 to 80 hours, respectively. The number of hours per week that the child spent at home indoors and outdoors during the weekend in the *summer* ranges from 0 to 48 hours and 0 to 80 hours, respectively. The number of hours per week that the child spent at home indoors and outdoors during the weekday in the *fall* (September to November) ranges from 0 to 120 hours and 0 to 70 hours, respectively. The number of hours per week that the child spent at home indoors and outdoors during the weekend in the *fall* ranges from 0 to 60 hours and 0 to 120 hours, respectively. The number of hours per week that the child spent at home indoors and outdoors during the weekday in the *winter* (December to February) ranges from 0 to 120 hours and 0 to 80 hours, respectively. The number of hours per week that the child spent at home indoors and outdoors during the weekend in the *winter* ranges from 0 to 148 hours and 0 to 50 hours, respectively. The number of hours per week that the child spent at home indoors and outdoors during the weekday in the *spring* (March to May) ranges from 0 to 120 hours and 0 to 70 hours, respectively. The number of hours per week that the child spent at home indoors and

outdoors during the weekend in the *spring* ranges from 0 to 60 hours and 0 to 40 hours, respectively.

Play Activity of Children. The respondent reported that 92% of the children age 7 and below living at the house did play outside in the yard. These children were more likely to play in the back yard (48%) compared to the front yard (29%) or both in the front and back yard (23%). Children were more likely to play in the sandbox in the summer, spring, and fall than in winter. The number of hours per week that children played in the sandbox ranged from 0 to 14 hours per week during the summer and the spring, and 0 to 11 hours in the fall. The number of hours per week that the child played in the grass-covered area on the property ranged from 0 to 70 hours in summer and spring, 0 to 60 hours in the fall, and 0 to 20 hours in winter. The primary type of activity in grass-covered area was playing ball or biking. The number of hours per week that the child played in soil or dirt-covered area on the property ranged from 0 to 30 hours in summer, 0 to 24 hours in fall and spring, and 0 to 3 hours in winter. Activities involved biking, and digging in the dirt. The number of hours per week that the child assisted in planting and gardening ranged from 0 to 15 hours in summer, fall and spring, and 0 to 1 hour in winter. The number of hours per week that the child plays on a swing set or a similar structure ranged from 0 to 30 hours in summer, 0 to 6 hours in spring, 0 to 5 hours in fall, and 0 to 2 hours in the winter.

Daycare, Preschool and School. Forty percent of the children spent time at a daycare during the day. The majority of the daycare's (78%) were located east of 45th St. The number of hours spent at the daycare per day on a weekday ranged from 3 to 12 hours per day, and 0 hours on the weekend. Thirteen children were in school and eight children were in preschool. The majority of schools and preschools were located east of 45th St.

Activities at Daycare. The maximum number of hours per week that the child spent indoors and outdoors during the *summer* is 50 and 15 hours, respectively. The maximum number of hours per week that the child spent indoors and outdoors during the *fall* is 44 and 27 hours, respectively. The maximum number of hours per week that the child spent indoors and outdoors during the *winter* is 50 and 5 hours, respectively. The maximum number of hours per week that the child spent indoors and outdoors during the *spring* is 50 and 10 hours, respectively. The maximum number of hours per day the child spent in the sandbox at the daycare is 7 hours during the summer, one hour each during the fall, winter and spring. The maximum number of hours per day the child spent in a grass-covered area at the daycare is 6 hours during the summer, 2 hours in the fall, one hour in winter, and 2 hours in spring. The maximum number of hours per day the child spent in a dirt-covered area at the daycare is 5 hours, during the summer, and none during the rest of the year. The maximum number of hours per day the child spent on a swing-set or similar structure at the daycare is 3 hours during the summer, and 2 hours each during the fall and spring.

Activities at School or Preschool. The maximum number of hours per week that the child spent indoors and outdoors during the *summer* at school or preschool are 30 hours each. The maximum number of hours per week that the child spent indoors and outdoors during the *fall* is 39 and 30 hours, respectively. The maximum number of hours per week that the child spent indoors and outdoors during the *winter* is 40 and 15 hours, respectively. The maximum number of hours per week that the child spent indoors and outdoors during the *spring* is 30 hours each.

Child's Food Consumption. The respondent reported that 10% percent of the children ate fruits and 21% ate vegetables grown in the garden at home, 1% of the children took a Mexican home remedy, *Greta*, none of the children took a Mexican home remedy of *Arzcon*, 10% of the

children took other home remedies or herbal treatment such as organic teas -- chamomile, manzanilla, mint, cinnamon and *Herba Buenos*. One per-cent ate foods from pottery or ceramic-ware made in Mexico, 16% of children ate canned food or drinks made in Mexico or any other county, and 24% of children ate candy made in other country.

Blood-Lead Testing. Forty-two percent of the children age 7 and below were tested for blood-lead levels. Among those that provided a date when blood tests were done, 27% were tested in 2003, 9% tested in 2002, 4% in 2001, and 2% in 2000. Only one child was reported to have a high blood lead level. The other health problems that the children had included asthma and bronchitis.

Child's Mouthing Behavior. The following are details of objects that the child chewed or sucked on: toys, 46% of the children; fingers and thumb, 43% of the children; pacifier, 19%; blanket, 19%; newspaper or magazine, 12%; crayon or art supply, 19%; cosmetics, 6%; matches, none; jewelry or keys, 19%; dirt, rocks or sticks, 14%; pewter or brass, 2%; mini-blinds, 4%; knick-knacks, 4%; furniture, 6%; window-sills, 4%; woodwork or rails, 2%; doors, 2%; and paint chips. Eight percent of children picked at paint, and 17% of children played with baby powder.

Missing Child Data. Possible explanations for the missing data are several: a) respondents might have been unable to properly estimate the time the child spent on the different activities at home and the daycare for the different seasons; b) the access agreement did not alert respondents that they would be required to provide detailed information on the activities of their children. When faced with the questions, respondents might have found the questions to be too time-consuming, tedious, difficult, intrusive or unnecessary; c) respondent might have been unwilling to provide certain data such as the name and phone number of day care or school; d) the lengthy questionnaire might have resulted in fatigue at the end of the survey when data on children were

solicited; e) the lack of any compensation for their time in providing information might have made respondents reluctant to be forthcoming with the information; f) frequent cancellations of interviews and the wait outside the homes in the cold to join the BVSPC team might have resulted in fatigue and carelessness among UNO workers affecting their effectiveness in data collection; g) UNO outreach workers had to serve as interpreters at Spanish speaking households for the BVSPC indoor dust sampling team since the latter did not have Spanish-English interpreter in the first half of the project. The data collection process of the demographic survey might have been disrupted on account of the distraction of interpreting for the dust sampling team; h) the lack of adequate training and/or experience among some BVSPC workers might have affected their effectiveness in data collection; and i) data was collected during the holiday seasons of Thanksgiving, Christmas, and New Year. Respondents may have been short on time on account of holiday activities.

Conclusion:

The Demographic and Land Use Survey is an effective tool for collecting important information on the socio-demographic background of adults and children age 7 and below. It provides useful information on occupation, work-hours, hobbies, location of residence, home ownership status of the adults in the household, and indoor and outdoor activity patterns of children age 7 and below. This information will provide data on exposure to lead among adults and children and helps in the determination of the public health risks in a community.

APPENDIX - 1

DEMOGRAPHIC AND LAND USE SURVEY
Omaha Superfund Site
Omaha, Nebraska

By

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University of Nebraska – Omaha
August 2003

For
The Nebraska Health and Human Services
System – Risk Assessment Program

Under a Cooperative Agreement with the
U. S. Environmental Protection Agency, Region VII
and
Black & Veatch

(IEUBK – Omaha Super Fund Site)

(PLEASE DROP OFF COMPLETED SURVEYS IN DR. RAJARAM'S MAIL-BOX IN ROOM, ASH 383, DEPARTMENT OF SOCIOLOGY, UNIVERSITY OF NEBRASKA- OMAHA, WITHIN A WEEK OF COMPLETION OF THE SURVEY)

All information obtained during the course of this survey and the project needs to be kept strictly confidential at all times.

Interview Number: _____

Date _____ Time: _____
Interviewer's Name (Print): _____

House Address: _____

We are doing a survey of people in neighborhoods east of 45th street, to better understand the daily activities and background of the community. This information will help us determine people's risk for exposure to lead.

We have a few questions to ask you. I will read out the question to you and will make a note of your answers on these forms. The information you provide will be held confidential.

First,
1. How many individuals live in this home: _____
2. How many:
   Adults (above 18) : _____
   Children below age 7: _____
   Children between 7 and 18: _____

3. Please tell me more about the age, gender and Ethnic/Racial background of the people who live in the house.

Person	**Age (Years)**	**Gender (M/F)**	****Race/Ethnicity (and country of origin) (Interviewer see categories below)**
Respondent			
Spouse/Partner			
Child 1			
Child 2			
Child 3			
Child 4			
Others (specify relationship to respondent):			

** Race/Ethnicity (Interviewer, please ask country of origin, if applicable, for #1,2,3,5. For example: Guatemala, Sudan, Vietnam, etc.):

1. African American
2. Asian American
3. Latino(a)/Hispanic
4. Native American/Alaskan
5. White/Caucasian (non Hispanic)

ADULTS

First, let me ask you a few questions about yourself and any other adult (age 21 and above) that lives in the house (restrict questions to only 2 adults), before we move on to some questions on your children's play activity. First,

1. Do you have a vegetable garden at home (check one)? ___ Yes ____ No

2. What are your primary crops in order of quantity?
   a) Tomatoes (rank #)____
   b) Bell Peppers (rank #) ____
   c) Green Beans (rank #) ____
   d) Okra (rank #)____
   e) Other: Specify _____

3. Animals in the household. Do you have:
Any cats? ____Yes ____No If so, how many?____
Check one: ____ Indoor; ____ Outdoor; _____ Both Indoors and Outdoors

Any dogs ____Yes ____No If so, how many?____
Check one: ____ Indoor; ____ Outdoor; _____ Both Indoors and Outdoors

Other animals (specify): _____

4. At home, do you mainly consume water directly from the tap or do you filter it or do you use bottled water (check one)?
For drinking purposes: ____ tap water; ____ filtered tap water; ____ bottled water
For cooking purposes: ____ tap water; ____ filtered tap water; ____ bottled water

5. Do you or any adults in the home participate in any of the following ACTIVITIES and/or HOBBIES at home?

Hobbies/Activities	YES	NO
Stained-glass; make or repair		
Lead sinkers, bullets; make or repair		
Batteries; manufacture, salvage		
Pottery/Ceramics; make or decorate		
Painting; artistic or industrial		

Hobbies/Activities	YES	NO
Target Shooting; indoor/outdoor		
Metal Work; salvage, sand, cut, weld		
Brass, Bronze, Pewter; collect, polish, sand		
Auto services; batteries, radiators		
Electrical Work; soldering, welding		
Carpentry; construct, renovate, demolish		
Power cleaning; sand, water		
Chemical/Electrical		
Glass factory		
Oil refinery		
Others: Specify _____		

6. What is your primary occupation: _____.
Please describe: _____

7. Do you have lead exposure in your occupation:
_____Yes; _____ No; _____ Don't know
8. Do you work full- or part-time (check one): ___ full-time ___ part-time
9. Approximately, how many hours per week do you work? _____
10. Approximately, how many vacation or work-days per year do you spend away from Omaha (home)? _____
11. Do you do volunteer outside the home (check one)? _____ Yes _____ No
12. If yes, how many hours per year do you volunteer outside the home? _____

Now we have some questions about your where you live.
13. What year was your house built: _____
14. Do you Own or Rent your home (check one): _____ Own; _____ Rent
15. Has there been any recent renovations or remodeling? _____ Yes; _____ No
If yes, describe _____
16. Have any structures of homes next door been renovated, repainted, demolished, sand/water blasted? _____ Yes; _____ No
17. How long have you lived in this house (number of years): _____.
18. If less than one year, did you previously live East of 45th St or West:
_____ West of 45th Street. Go to NEXT ADULT. If no other adult lives in the house, but children below age 7 live in the house go to #28. Or go to END.
_____ East of 45th Street. How many years _____. Go to NEXT ADULT. If no other adult lives in the house, but children below age 7 live in the house go to #28. Or go to END.

NEXT ADULT

Age: _____; Gender: _____; Relationship to respondent: _____

19. What is the occupation of this adult: _____.

Please describe: _____

20. Does this person have lead exposure in his/her occupation: _____Yes; _____ No

21. Does this person work full- or part-time (check one): ___ full-time ___ part-time

22. Approximately, how many hours per week does this person work? _____

23. Approximately, how many vacation or work-days per year does this person spend away from Omaha (home)? _____

24. Does this person volunteer outside the home (check one)?

____ Yes ____ No

25. If yes, how many hours per year does this person volunteer or work outside the home? _____

26. How long has this person lived in this house (number of years): _____

27. If less than one year, did this person previously live East of 45th St or West:

_____ West of 45th Street. If no children below age 7 live in the house, GO TO END. If there are children below age 7, GO TO #28

_____ East of 45th Street.. How many years _____. If no children below age 7 live in the house GO TO END. If there are children below age 7, GO TO #28.

END. Thank you very much for your time. The information that you have provided will help us in determining the level of exposure of people to lead in the community.

28. As you know, children are the ones at the greatest risk for lead poisoning. So now, we would like to ask you some questions about the daily activities of the children (below age 7) in the home at different times in the year, for example in spring, summer, etc. (Interviewer, now GO TO "CHILD" questionnaires).

++

Interviewer, please visually inspect the yard and provide a percentage estimate of the property in:

_____ Front Yard; _____ Back Yard

(note that the total needs to add up to 100)

Percentage of Front Yard comprising (total needs to add up to 100):

_____ grass-covered area _____ sandbox area

_____ dirt covered area _____ asphalt or paved area

_____ other, specify

Percentage of Back Yard comprising (total needs to add up to 100):

_____ grass-covered area _____ sandbox area

_____ dirt covered area _____ asphalt or paved area

_____ other, specify

CHILD (only for children below age 7)

Interview Number: _____

Date _____ Time: _____
Interviewer's Name (Print): _____

House Address: _____

Child # ____ Age ____; Relationship to the respondent: _____

4. How many hours PER WEEK does your child (0 to 6 years only) spend at HOME, both indoors and outdoors? ("Indoors," refers to waking hours, and "Outdoors" refers to time spent outdoors in the yard).

Home Location	**Hours/week (Summer: June-Aug)**		**Hours/week (Fall: Sep – Nov)**		**Hours/week (Winter: Dec –Feb)**		**Hours/week (Spring: Mar-May)**	
	Week day	Week End	Week day	Week End	Week day	Week End	Week day	Week End
Indoors:								
Outdoor:								

5. If the child does not play outdoors (in the yard), skip to question #8.
6. Where is your child's outdoor primary play area (check one):

____ Front yard; ____ Back yard; _____ Not applicable (explain) _____

7. Please describe the nature of your child's (0-6 years only) outdoor activity. How many hours would you estimate that your child is involved in the following activities?

Outdoor HOME Activity	**Hours/week (Summer: June-Aug)**	**Hours/week (Fall: Sep – Nov)**	**Hours/week (Winter: Dec –Feb)**	**Hours/week (Spring: Mar-May)**
Play in the sand-box				
Play in grass-covered areas on the property (participating in activities such as soccer, catch, etc.). Identify primary types				

of activities **close** (1-2 feet) to the house: _____				
	Hours/week (Summer: June-Aug)	**Hours/week (Fall: Sep – Nov)**	**Hours/week (Winter: Dec –Feb)**	**Hours/week (Spring: Mar-May)**
Play in exposed soil or dirt area (non grass-covered area) (such as digging in the dirt with trucks, etc.). Identify primary types of activities in this area: _____				
Assist with planting or gardening				
Play on swing set or similar structure. (Interviewer should determine percent of cover in this area)				

8. Next, we would like to know this child's activity outside of the home.

Does this child attend day-care, pre-school or school?

_____ Day-care. Name and address _____ ; Phone: _____
Located (check one): ____ East of 45th Street; ____ West of 45th Street.

How many hours at day-care:
Week-day, from _____ to _____
Weekend, from _____ to _____

Pre-school or school (check one): _____ Pre-school _____ School;
What grade: _____
Name and address of pre-school or school _____
Located ____ East of 45th Street; ____ West of 45th Street.

If day-care or pre-school or school is located WEST of 45th Street go to question #13.

DAY-CARE:

9. How many hours per week does your child spend at the DAY-CARE, both indoors and outdoors?

	Hours/week (Summer: June-Aug)		**Hours/week (Fall: Sep – Nov)**		**Hours/week (Winter: Dec –Feb)**		**Hours/week (Spring: Mar-May)**	
	Week day	Week End	Week day	Week end	Week day	Week End	Week day	Week End
Indoors:								
Outdoor:								

If the child does not play outdoors at the day-care, skip to question #11.

10. Please describe the nature of your child's (0-6 years only) outdoor activity at the day-care. How many hours PER WEEK would you estimate that s/he is involved in the following activities?

Outdoor DAY-CARE	**Hours/week (Summer: June-Aug)**		**Hours/week (Fall: Sep – Nov)**		**Hours/week (Winter: Dec –Feb)**		**Hours/week (Spring: Mar-May)**	
	Week Day	Week End	Week Day	Week End	Week Day	Week End	Week Day	Week End
Play in the sand-box								
Play in grass-covered areas on the property (participating in activities such as soccer, catch, etc.) Identify primary types of activities **close** (1-2 feet) to the property: _____								

	Hours/week (Summer: June-Aug)		**Hours/week (Fall: Sep – Nov)**		**Hours/week (Winter: Dec –Feb)**		**Hours/week (Spring: Mar-May)**	
	Week Day	Week End	Week Day	Week End	Week Day	Week End	Week Day	Week End
Play in exposed soil or dirt area (non grass-covered area) such as digging in the dirt with trucks, etc. Identify primary types of activities in this area _____								
Play on swing set or similar structure								

If this child does not attend pre-school or school, go to question #13.

_____ PRE-SCHOOL OR _____ SCHOOL (check one)

11. How many hours per week does your child spend at PRE-SCHOOL OR SCHOOL, both indoors and outdoors?

	Hours/week (Summer: June-Aug)	**Hours/week (Fall: Sep – Nov)**	**Hours/week (Winter: Dec –Feb)**	**Hours/week (Spring: Mar-May)**
Indoors:				
Outdoor:				

If the child does not play outdoors at pre-school, skip to question #14.

12. Please describe the nature of your child's (0-6 years only) outdoor activity at the pre-school or school. How many hours would you estimate that they are involved in the following activities? (Interviewer, if the adult is unable to provide this information, skip to #13. This information will be obtained directly from the pre-school or school).

Outdoor PRE-SCHOOL or SCHOOL	**Hours/week (Summer: June-Aug)**	**Hours/week (Fall: Sep – Nov)**	**Hours/week (Winter: Dec –Feb)**	**Hours/week (Spring: Mar-May)**
Play in the sand-box				
Play in grass-covered areas on the property (participating in activities such as soccer, catch, etc.). Identify primary types of activities **close** (1-2 feet) to the property: _____				
Play in exposed soil or dirt area (non grass-covered area, such as digging in the dirt with trucks, etc.). Identify primary types of activities in this area: _____				
Play on swing set or similar structure (Interviewer should determine percent of dirt cover in this area)				

13. Now, I have some questions on **FOOD** consumption for your child. Does your child consume the following foods:

FOODS	YES	NO
Fruits grown in your garden		
Vegetables grown in your garden		
Take any Mexican home remedies such as *Greta*		
Mexican home remedies such as *Arzcon*		
Any other home remedies or herbal treatments? Specify: _____		
Any other home remedies or herbal treatments? Specify: _____		
Eat foods from any pottery or ceramic-ware made in Mexico		
Eat canned foods or drinks made in Mexico or any other country Specify: _____		
Eat candy made in Mexico or any other country		

14. Has your child been tested for lead before:

When	Where	Results (ug/dL)	Child's type of insurance	Any other health problems such as asthma, anemia, sickle cell? (Specify)

15. Does you child chew or suck on any of the following non-food items. (Interviewer check appropriate box):

Fingers/Thumbs	Newspapers/ Magazines	Pewter/Brass	Woodwork/Rails
Pacifier	Cosmetics	Mini-blinds	Doors
Toys	Matches	Knick Knack	Paint Chips
Blanket/Plush Toys	Jewelry/Key	Furniture	Pick at Paint
Crayons/Art Supplies	Dirt/Rocks/Sticks	Window sills	Play w/ baby powder
Other: Specify: _____	Other: Specify: _____	Other: Specify: _____	Other Specify: _____

If more children in the household, below age 7, go to new "CHILD" questionnaire.

16. If no more children in the household below age 7, then END the interview.

END: Thank you so much for your time. The information you have provided will help us in determining the level of exposure of people to lead in the community.

IN SPANISH

DEMOGRAPHIC AND LAND USE SURVEY
Omaha Superfund Site
Omaha, Nebraska

By

Shireen S. Rajaram, Ph.D.
Associate Professor; Sociology
University of Nebraska – Omaha
August 2003

For
The Nebraska Health and Human Services
System – Risk Assessment Program

Under a Cooperative Agreement with the
U. S. Environmental Protection Agency, Region VII
and
Black & Veatch

(IEUBK – Omaha Super Fund Site)

(PLEASE DROP OFF COMPLETED SURVEYS IN DR. RAJARAM'S MAIL-BOX IN ROOM, ASH 383, DEPARTMENT OF SOCIOLOGY, UNIVERSITY OF NEBRASKA- OMAHA, WITHIN A WEEK OF COMPLETION OF THE SURVEY)

All information obtained during the course of this survey and the project needs to be kept strictly confidential at all times.

Entrevista Número: _____

Fecha: _____ Hora: _____

Nombre del Entrevistador (Letra Imprenta): _____

Dirección de la Casa: _____
_____

Estamos haciendo una encuesta a la gente del vecindario al Este de la calle 45, para entender mejor las actividades diarias y la situación de la comunidad. Esta información nos ayudara a determiner el riesgo que tiene la gente a la exposicion a plomo.

Tenemos unas pocas preguntas que hacerle. Voy a leerle la pregunta y hare unas anotaciones de sus respuestas en este formulario. La información que usted provea va a permanecer confidencial.

Primero,

1. Cuantas personas viven en esta casa: _____
2. Cuantos :

   Adultos (mayor de 18) : _____
   Niños menores de 7: _____
   Niños entre 7 y 18: _____

1. Por favor cuenteme mas acerca de la edad, sexo y herencia etnica/racial de la gente que vive in la casa.

Persona	**Edad (años)**	**Sexo (M/F)**	**** Raza/Etnicidad (y pais de origen) (Entrevistador mire las categorias abajo)**
Encuestado/a			
Esposo/Compañero/a			
Hijo/a 1			
Hijo/a 2			
Hijo/a 3			
Hijo/a 4			
Otros (especifique parentesco con el entrevistado)			

** raza/Etnicidad (Entrevistador, por favor pregunte pais de origin, si aplica para # 1, 2,3,4. Por ejemplo: Guatemala, Sudan, Vietnam, etc.):

1. Africo Americano
2. Asiatico Americano
3. Latino(a)/Hispano(a)
4. Nativo Americano/Alaska
5. Blanco/Caucásico (no Hispano)

ADULTOS

Primero, permitame hacerle algunas preguntas respecto a usted y otros adultos que puedan vivir en la casa (preguntas restringuidas para solo 2 adultos) antes de que continuemos con otras preguntas sobre la actividad de juego de sus hijos. Primero,

1. Tiene usted un jardin de vegetales en su casa (marque uno)? ___Si ___No
2. Cuales son sus principales cultivos en orden de cantidad ?
   a) Tomates (grado #)___
   b) Chiles (grado #)___
   c) Arverjas (grado #)___
   d) Quingombo(grado #)___
   e) Otros (especifique)_____

3. Animales en la cas. Usted tiene:

Gatos?: ___Si___No Sí es si cuantos?____
Marque uno: ___Adentro; ___ Afuera; ___Ambos adentro y afuera

Perros?: ___Si___No Sí es si cuantos?____
Marque uno: ___Adentro; ___ Afuera; ___Ambos adentro y afuera

Otros animals (Especifique): _____

4. En casa usted consume agua principalmente de directamente de la llave o la filtra o usa agua enbotellada (marque uno)?

Para beber: ___Agua de la llave; ___Agua filtrada de la llave; ___Agua enbotellada
Para cocinar: ___Agua de la llave; ___Agua filtrada de la llave; ___Agua enbotellada

5. Usted o algun adulto en la casa participa de las siguientes ACTIVIDADES y/o PASATIEMPOS en la casa?

Pasatiempos/Actividades	SI	NO
Vidrieria hacer o reparar		
Fregaderos de plomo,balas, hacer o reparar		
Baterias, manufactura, restauración		
Ceramica; hacer o decoración		

Pasatiempos/Actividades	SI	NO
Pintura, artistica o industrial		
Tiro al blanco; adentro/afuera		
Trabajo en metal; restauración, lijar, cortar, soldar		
Latón, Bronce,Peltre; recolectar, pulir, lijar.		
Autoservicio; baterias, radiadores		
Trabajo Electrico, soldadura.		
Carpinteria; construccion, renovacion, demolicion		
Limpieza con poder; arena, agua.		
Quimico/Electrico		
Fabricacion de vidrio		
Refineria de petroleo		
Otros; Especifique: _____		

6. Cual es su ocupacion principal: _____.
Por favor describa: _____
7. Tiene usted exposicion a plomo en su ocupacion: __ Si; __No; __No sé
8. Trabaja usted tiempo completo o medio tiempo (marque uno); ___Tiempo completo
   ___medio tiempo
9. Aproximadamente, cuantas horas semanales trabaja usted? _____
10. Aproximadamente, cuantos dias de vacaciones o dias de trabajo usted esta fuera de Omaha(Casa)?_____
11. Usted es voluntario fuera de casa (marque uno)? ___Si ___No
12. Sí si, cuantas horas al año usted es voluntario fuera de casa?_____

Ahora tenemos algunas preguntas respecto a donde vive usted.

13. En que año fue construida la casa?_____
14. Usted es propietario o toma en renta la casa (marque uno)? ___Propietario ___Renta
15. Ha habido alguna resiente renovacion o remodelacion? ___Si ___No
Sí si, describa: _____
16. Algunas estrucutras de la casa de al lado han sido renovadas, pintadas o demolidas limpieza con chorro de arena o agua? ___Si; ___No
17. Hace cuánto usted vive en esta casa (numero de años): _____
18. Sí es menos de un año, vivia usted previamente al Este de la calle 45 o al Oeste:?
    ____Oeste de la calle 45. Vaya al SIGUIENTE ADULTO. Si no hay otro adulto viviendo en la casa, pero hay niños menores de 7 años viviendo en la casa, vaya a # 28. O vaya al FINAL.
19. ____Este de la calle 45. Cuantos años ____. Vaya al SIGUIENTE ADULTO. Si no hay otro adulto viviendo en la casa, pero hay niños menores de 7 años viviendo en la casa, vaya a # 28. O vaya al FINAL.

SIGUIENTE ADULTO

Edad: _____; Sexo: _____; Relacion con el entrevistado: _____
19. Cual es la ocupacion de este adulto:_____.
Por favor describa: _____

20. Esta persona tiene exposicion a plomo en su ocupacion: ___ Si;___No
21. Esta persona trabaja tiempo completo o medio tiempo (marque uno); ___Tiempo completo ___medio tiempo
22. Aproximadamente, cuantas horas semanales trabaja esta persona? _____
23. Aproximadamente, cuantos dias de vacaciones o dias de trabajo esta persona esta fuera de Omaha(Casa)?_____
24. Esta persona es voluntario/a fuera de casa (marque uno)? ___Si___No
25. Sí si, cuantas horas al año es voluntario/a fuera de casa?_____.
26. Hace cuanto esta persona vive en esta casa (numero de años): _____
27. Sí es menos de un año, esta persona vivia previamente al Este de la calle 45 o al Oeste:?

____Oeste de la calle 45. Si no hay niños menores de 7 años en la casa, VAYA AL FINAL. Si hay niños menores de 7 años de edad, VAYA AL # 28.

____Este de la calle 45. Cuantos años ____. Si no hay niños menores de 7 años en la casa, VAYA AL FINAL. Si hay niños menores de 7 años de edad,VAYA AL # 28.

FINAL. Muchas gracias por su tiempo. La informacion que usted a dado nos ayudara a determinar el nivel de exposicion a plomo que la gente tiene en la comunidad.

28. Como usted sabe, los niños son los que tienen mayor riesgo de envenenamiento por plomo. Entonces ahora nos gustaria hacerle algunas preguntas acerca de las actividades diarias de los niños en la casa durante los diferentes periodos del año, por ejemplo en primavera, verano, etc.

(Entrevistador, ahora VAYA A "NIÑO/A" questionarios).

++

Entrevistador, por favor haga una inspección visual del jardin y de un porcentaje estimado de la propiedad en:
___ Jardin delantero; ___Jardin Trasero
(note que el total debe sumar 100)

Porcentaje de jardin delantero comprometido (note que el total debe sumar 100):
_____Area cubierta de pasto _____ Caja de arena
_____Area cubiertad e tierra _____ Area asfaltada o pavimentada
_____Otra, Especifique

Porcentaje de jardin trasero comprometido (note que el total debe sumar 100):
_____Area cubierta de pasto _____ Caja de arena
_____Area cubiertad e tierra _____ Area asfaltada o pavimentada
_____Otra, Especifique

NIÑO/A (solo sin son niños menores de 7 años de edad)

Entrevista Número: _____

Fecha: _____ Hora: _____

Nombre del Entrevistador (Letra Imprenta): _____

Dirección de la Casa: _____
_____

Niño/a # _____ Edad: _____ Relación con le entrevistado: _____

4. Cuantas horas POR SEMANA su niño/a esta en CASA, ambos adentro y afuera? ("adentro" se refiere a horas despierto, y "afuera" se refiere a tiempo gastado afuera en el jardin).

Lugar de la casa	**Horas/Semanales (Verano: Junio-Agosto)**		**Horas/Semanales (Otoño: Septi-Noviembre)**		**Horas/Semanales (Invierno: Dicie-Febrero)**		**Horas/Semanales (Primavera: Marzo- Mayo)**	
	Entre Semana	Fines de Semana	Entre Semana	Fines de Semana	Entre Semana	Fines de Semana	Entre Semana	Fines de Semana
Adentro								
Afuera								

5. Si su niño no juega afuera de casa vaya a la pregunta # 8.
6. Si su hijo juega el mayor tiempo afuera de la casa(marque uno):

_____Jardin del frente; _____Jardin trasero; _____No aplica(explique)_____

7. Por favor describa el tipo de actividad que el niño realize afuera de la casa (0-6 años unicamente). Cuantas horas usted estima que su niño esta involucrado en las siguientes actividades?

Actividad fuera de CASA	**Horas/Semanales (Verano: Junio-Agosto)**	**Horas/Semanales (Otoño: Septi-Noviembre)**	**Horas/Semanales (Invierno: Dicie-Febrero)**	**Horas/Semanales (Primavera: Marzo-Mayo)**
Jugar en la caja de arena				
Jugar en las area cubiertas de pasto de la propiedad (participar en actividades como futbol, atrapar, etc.). Identifique el				

principal tipo de actividades **cerca** (1-2 pies) de la casa: _____				
	Horas/Semanales (Verano: Junio-Agosto)	**Horas/Semanales (Otoño: Septi-Noviembre)**	**Horas/Semanales (Invierno: Dicie-Febrero)**	**Horas/Semanales (Primavera: Marzo-Mayo)**
Jugar en areas expuestas a la tierra, al suelo (no areas cubiertas con pasto) (como cavar en la tierra con escavadoras, etc.). Identificar el tipo de actividades principales en esta area:_____				
Ayudar con las plantas o jardineria				
Juegos o columpios o estructuras similares. (Entrevistador tiene que determinar el procentaje de esta area)				

8. Ahora, nos gustaria conocer la actividad de este niño fuera de casa.

El niño asiste a guarderia, pre escolar o Escuela?

_____Guarderia. Nombre y Dirección _____
Localizada (marque uno): ____ Este de la calle 45; _____Oeste de la calle 45

Cuantas horas en la guarderia:
Dias entre semana , de _____ a _____
Fines de semana , de _____ a _____

Pre-escuela o Escuela (marque una): _____ Pre-Escuela _____Escuela.
Que grado:_____
Nombre y Dirección _____
Localizada: ____ Este de la calle 45; _____Oeste de la calle 45

Si la guarderia o pre-escuela o escuela esta localizada al OESTE de la calle 45 vaya a la pregunta # 13.

GUARDERIA

9. Cuantas horas por semana su niño esta en la GUARDERIA, ambos adentro y afuera?

	Horas/Semanales (Verano: Junio-Agosto)		Horas/Semanales (Otoño: Septi-Noviembre)		Horas/Semanales (Invierno: Dicie-Febrero)		Horas/Semanales (Primavera: Marzo- Mayo)	
	Entre Semana	Fines de Semana	Entre Semana	Fines de Semana	Entre Semana	Fines de Semana	Entre Semana	Fines de Semana
Adentro								
Afuera								

Si su niño no juega afuera de la guarderia vaya a la pregunta # 11.

10. Por favor describa el tipo de actividad que su niño realize afuera de la guarderia (0-6 años unicamente). Cuantas horas POR SEMANA usted estima que su niño/a esta involucrado en las siguientes actividades?

Actividad fuera de GUARDERIA	Horas/Semanales (Verano: Junio-Agosto)		Horas/Semanales (Otoño: Septi-Noviembre)		Horas/Semanales (Invierno: Dicie-Febrero)		Horas/Semanales (Primavera: Marzo- Mayo)	
	Entre Semana	Fines de Semana	Entre Semana	Fines de Semana	Entre Semana	Fines de Semana	Entre Semana	Fines de Semana
Jugar en la caja de arena								
Jugar en las area cubiertas de pasto de la propiedad (participar en actividades como futbol, atrapar, etc.). Identifique el principal tipo de actividades **cerca** (1-2 pies) de la casa: _____								
Jugar en areas expuestas a la tierra, al suelo (no areas cubiertas con pasto) (como cavar en la tierra con escavadoras, etc.). Identificar el tipo de actividades principales en esta area:_____								

Juegos o columpios o estructuras similares. (Entrevistador tiene que determinar el procentaje de esta area)								

Si este niño no asiste a pre-escuela o Escuela, vaya a la pregunta # 13.

_____PRE-ESCUELA O _____ESCUELA (marque una)

11. Cuantas horas por semana su niño esta en la PRE-ESCUELA O ESCUELA, ambos adentro y afuera?

	Horas/Semanales (Verano: Junio-Agosto)	**Horas/Semanales (Otoño: Septi-Noviembre)**	**Horas/Semanales (Invierno: Dicie-Febrero)**	**Horas/Semanales (Primavera: Marzo-Mayo)**
Adentro				
Afuera				

Si el niño/a no juega afuera de la pre-escuela o escuela, evite las preguntas hasta la la # 14.

12. Por favor describa el tipo de actividad que su niño realize afuera de la pre-escuela o Escuela (0-6 años unicamente). Cuantas horas usted estima que su niño/a esta involucrado en las siguientes actividades? (Entrevistador, si el adulto no puede dar esta informacion, evitela y vaya a # 13. Esta informacion se va a obtener directamente de la Pre-escuela o Escuela).

Actividad fuera de PRE-ESCUELA O ESCUELA	**Horas/Semanales (Verano: Junio-Agosto)**	**Horas/Semanales (Otoño: Septi-Noviembre)**	**Horas/Semanales (Invierno: Dicie-Febrero)**	**Horas/Semanales (Primavera: Marzo-Mayo)**
Jugar en la caja de arena				
Jugar en las area cubiertas de pasto de la propiedad (participar en actividades como futbol, atrapar, etc.). Identifique el principal tipo de actividades **cerca** (1-2 pies) de la casa: _____				

Actividad fuera de PRE-ESCUELA O ESCUELA	Horas/Semanales (Verano: Junio-Agosto)	Horas/Semanales (Otoño: Septi-Noviembre)	Horas/Semanales (Invierno: Dicie-Febrero)	Horas/Semanales (Primavera: Marzo-Mayo)
Jugar en areas expuestas a la tierra, al suelo (no areas cubiertas con pasto) (como cavar en la tierra con escavadoras, etc.). Identificar el tipo de actividades principales en esta area:_____				
Juegos o columpios o estructuras similares. (Entrevistador tiene que determinar el procentaje de esta area)				

13. Ahora , tengo unas preguntas acerca de el consumo de **ALIMENTOS** de su niño. Su niño consume los siguientes alimentos:

ALIMENTOS	SI	NO
Frutas cultivadas en su jardin		
Vegetales cultivados en su jardin		
Toma remedios caseros mejicanos como *Greta*		
Remedios caseros mejicanos como *Arzcon*		
Algun otro remedio casero o tratamiento herbal? Especifique: _____		
Algun otro remedio casero o tratamiento herbal? Especifique: _____		
Come algun alimento de vasijas de barro o ceramica hecha en Mejico?		
Come alimentos o bebidas enlatadas hechas en Mejico u otro Pais. Especifique: _____		
Come dulces hechos en mejico u otro pais		

14. Ha sido su niño examinado para plomo anteriormente:

Cuando	Donde	Resultados (ug/dL)	Tipo de aseguranza del niño	Algun otro porblema de salud como Asma, anemia, anemia falciforme? (Especifique)

15. Su niño mastica o chupa alguo de los siguientes no-alimentos. (Entrevistador marque la casilla apropiada):

Dedos	Periodicos/Magazines	Peltreria/Latas	Objetos de Madera/Rieles
Chupo/Entretenedor	Cosmeticos	Mini-percianas	Puertas
Juguetes	Fosforos	Chucherias	Fichas pintadas
Cobijas/felpas	Joyeria/llaves	Muebles	Pedazo de pintura
Crayones/materials de arte	Tierra/ piedras/palos	Marcos de ventanas	Jugar con talco para bebes
Otros: Especifique: _____	Otros: Especifique: _____	Otros: Especifique: _____	Otros: Especifique: _____

Si hay mas niños en la casa menores de 7 años de edad, vaya a un nuevo "NIÑO/A" cuestionario.

16. Si no hay mas niños en la casa menores de 7 años de edad, entonces FINALICE la entrevista. Muchas gracias por su tiempo. La informacion que usted a dado nos ayudara a determinar el nivel de exposicion a plomo que la gente tiene en la comunidad.

APPENDIX - 2

BVID_____

U.S. Environmental Protection Agency Region VII

Omaha Lead Site
Omaha, NE

Interior Dust Samples
Remedial Investigation/
Feasibility Study

PROPERTY ACCESS
(to be completed by property owner)

Black & Veatch Special Projects Corp. (BVSPC) is under contract with the U.S. Environmental Protection Agency (EPA) to assist in the determination of of lead and other metals in interior dust within the Omaha, Nebraska area. Your cooperation is requested in giving BVSPC/EPA permission to access yc property for the purpose of interior dust sampling analysis in support of this study. For further information contact Don Bahnke, EPA Project Manager, (9 551-7703 or the Office of External Affairs (800) 223-0425.

Property Access Granted By: _____
(Please Print Name)

_____ _____
(Property Owner Signature) *(Date)*

*NOTE: Granting permission **DOES NOT** necessarily imply your property will be sampled at this time.*

SAMPLE INFORMATION
(to be completed by sampler - Please Print)

Residence address: _____ _____
(City) (State) (Zip)

Children live at the residence: ☐ Yes ☐ No List ages: _____

Sampler: _____ Date: _____

Wipe Sample

Room: Kitchen/Breakfast ☐ Bedroom ☐ Living Room ☐ Dining Room ☐ Den/Great Room/Family Room ☐
Play Room ☐ Office ☐ Other ☐ _____

Area of sample collection: _____ (inches^2)

Time of collection: _____

Lead loading: _____ (μg/ft^2) Lab result: _____

Vacuum Sample No. 1

Room: Kitchen/Breakfast ☐ Bedroom ☐ Living Room ☐ Dining Room ☐ Den/Great Room/Family Room ☐
Play Room ☐ Office ☐ Other ☐ _____

Area of sample collection: _____

Time of collection: _____ Total Sample Time: _____

Type of Floor Sampled:

(Check one) Carpet ☐ Rug ☐
(Check one) Plush ☐ Level Loop ☐ Multi-level ☐ Shag ☐ Other ☐ _____

-OR-

(Check one) Hard Surface: Wood ☐ Tile ☐ Vinyl/Laminate ☐ Concrete ☐ Brick ☐ Other ☐ _____

Access Attempts:

First: _____ Second: _____ Third: _____

Black & Veatch Special Projects Corp.

Last vacuumed: _____

Temperature: _____ Humidity: _____ Flow rate: _____ Pressure drop: _____

Tare weight (container before sample): _g Final weight (container and sample): _____g Weight of total sample: _____g

Pan tare weight (pan w/o sieved sample): _____g Final weight (pan and sieved sample): _____g

Weight of sieved dust sample: _____g (Fine Dust)

Lead loading: _____ ($\mu g/ft^2$) Lead concentration: _____ ($\mu g/g$) Lab result: _____

Vacuum Sample No. 2

Room: Kitchen/Breakfast ☐ Bedroom ☐ Living Room ☐ Dining Room ☐ Den/Great Room/Family Room ☐
Play Room ☐ Office ☐ Other ☐ _____

Area of sample collection: _____ ($inches^2$)

Time of collection: _____ Total Sample Time: _____

(Check one) Carpet ☐ Rug ☐
(Check one) Plush ☐ Level Loop ☐ Multi-level ☐ Shag ☐ Other ☐ _____
-OR-
(Check one) Hard Surface: Wood ☐ Tile ☐ Vinyl/Laminate ☐ Concrete ☐ Brick ☐ Other ☐ _____

Last vacuumed: _____

Temperature: _____ Humidity: _____ Flow rate: _____ Pressure drop: _____

Tare weight (container before sample): _g Final weight (container and sample): _____g Weight of total sample: _____g

Pan tare weight (pan w/o sieved sample): _____g Final weight (pan and sieved sample): _____g

Weight of sieved dust sample: _____g (Fine Dust)

Lead loading: _____ ($\mu g/ft^2$) Lead concentration: _____ ($\mu g/g$) Lab result: _____

Vacuum Sample No. 3

Room: Kitchen/Breakfast ☐ Bedroom ☐ Living Room ☐ Dining Room ☐ Den/Great Room/Family Room ☐
Play Room ☐ Office ☐ Other ☐ _____

Area of sample collection: _____ ($inches^2$)

Time of collection: _____ Total Sample Time: _____

(Check one) Carpet ☐ Rug ☐
(Check one) Plush ☐ Level Loop ☐ Multi-level ☐ Shag ☐ Other ☐ _____
-OR-
(Check one) Hard Surface: Wood ☐ Tile ☐ Vinyl/Laminate ☐ Concrete ☐ Brick ☐ Other ☐ _____

Last vacuumed: _____

Temperature: _____ Humidity: _____ Flow rate: _____ Pressure drop: _____

Tare weight (container before sample): _g Final weight (container and sample): _____g Weight of total sample: _____g

Pan tare weight (pan w/o sieved sample): _____g Final weight (pan and sieved sample): _____g

Weight of sieved dust sample: _____g (Fine Dust)

Lead loading: _____ ($\mu g/ft^2$) Lead concentration: _____ ($\mu g/g$) Lab result: _____

AUTHORITY FOR ENVIRONMENTAL RESPONSE ACTIONS
The activities to be implemented by EPA under this agreement are pursuant to Section 104 of CERCLA, 42 U.S.C. 9604. EPA's right of access to the property for in Section 104(e) of CERCLA, 42 U.S.C. 9604(e), which provides entry for, "determining the need for response, or choosing or taking any response action under this title, or otherwise enforcing the provisions of this title."

Appendix D
National Exposure Research Laboratory (NERL)
And University of Colorado Laboratory for
Environmental and Geological Studies (LEGS)
Lead and Arsenic Reports

Arsenic and Lead Contamination in Soils – Omaha Nebraska

Evan Englund
May, 2004

Introduction

An exploratory data analysis was conducted to investigate the relationship between lead and arsenic contamination in Omaha residential soils. The data used were from two files. "Big Table-Pb-As-CORRECTED 20040430.xls" contains routine XRF analyses from quadrant and zone samples in residential yards. "All lab data for kriging 20040504.xls" contains laboratory analyses for a subset of the residential samples. The data collection was not designed for the purpose of evaluating the lead-arsenic relationship, so formal statistical tests and procedures were not used. Data analysis was largely graphical. Numerous plots were used to look at the relationship between lead and arsenic and at their relationships to other metals. Also examined was the relationship between lead and arsenic and distance from the refinery. The data were also plotted in sequential order to look for changes in sampling or analytical methods that might confound the data analysis.

Conclusions

- High levels of arsenic contamination (>25 ppm) are not related to the widespread lead contamination from the refinery site. The sources of this contamination are unknown.
- Most samples appear to have traces of arsenic contamination correlated with the lead. The source of this low-level contamination is probably the refinery.
- At the lowest lead concentrations (<50 ppm) the associated arsenic concentrations generally fall below 15 ppm. These are consistent with typical "background" levels across the U.S.
- At lead levels in the range of 400 to 1000 ppm, the upper range of arsenic increases to about 20 ppm.

Discussion

Laboratory data for arsenic are not representative of the entire sample population. Arsenic was measured only in the first 28% of the laboratory samples. Spatially, these are biased closer to the refinery. This limits the usefulness of laboratory arsenic data for detailed spatial analysis with variogram modeling and kriging.

The relationship between arsenic and lead in laboratory samples is shown Figure 1, with the logarithmic axes. For comparison, Figure 2 shows arsenic and lead for a nationwide sample of "undisturbed" (presumably uncontaminated) soils collected by the USGS. The scale is the same as Figure 1. As a first approximation, arsenic concentrations less than 15 or 20 ppm and lead concentrations less than 50 or 60 ppm can be considered not significantly contaminated. The Omaha samples are consistent with the USGS samples at the lower concentrations, but most lie on a trend that shows high levels of lead contamination associated with low levels of arsenic contamination. The lead contamination has already been demonstrated to be spatially consistent with the assumption that the refinery is the source. It is reasonable to assume that the associated increases in arsenic are from the same source.

The only significant departures from the general trend are samples with high (>20 ppm) levels of arsenic contamination. These are not correlated with lead and thus are from some other source.

Figure 3 shows a scatterplot matrix with a number of other metals of interest in addition to arsenic and lead. Note the very strong relationship between lead and zinc. This is what we would expect to see (and do see at other sites) when the only source of zinc contamination is the same as the lead. It is likewise the pattern we would expect to see for arsenic and lead if both were from a single source. Any departure from this ideal pattern is an indicator of multiple sources.

High values of arsenic do not appear to be correlated with high values of any of the other metals shown. In particular, the lack of association with copper and chromium suggests that wood treated with copper chromium and arsenic (CCA) is not a major source of arsenic.

Figures 4–7 show XRF and laboratory measurements for lead and arsenic plotted against the sequential ID number. This shows roughly how the samples varied through time over the course of the investigation. The gaps in the sequence appear to be gaps in the numbering, not missing data. For lead, the XRF and lab data have the same basic pattern, which presumably reflects the locus of sampling activity moving through the plume. The arsenic XRF data do not show the same pattern as lead (most arsenic XRF measurements are non-detects and not shown). The early arsenic XRF measurements appear to have used an instrument or procedure with a lower detection limit. Laboratory arsenic measurements represent only the early phase of investigation.

Figures 8-11 show XRF and laboratory measurements for lead and arsenic, this time plotted against distance from the refinery source. Both XRF and laboratory data sets show the same pattern for lead – a strong decrease with distance from the refinery. The laboratory data include drip zone samples, which accounts for the higher frequency of high lead concentrations. Arsenic XRF data show no trend with distance. The laboratory data do show a decreasing trend with distance, but only at the low levels that are usually non-detects with XRF. This supports the interpretation from Figure 1, that arsenic contamination from the refinery does not raise total arsenic above 20 ppm in residential areas. The higher arsenic laboratory measurements, like the XRF measurements, are not related to distance from the refinery.

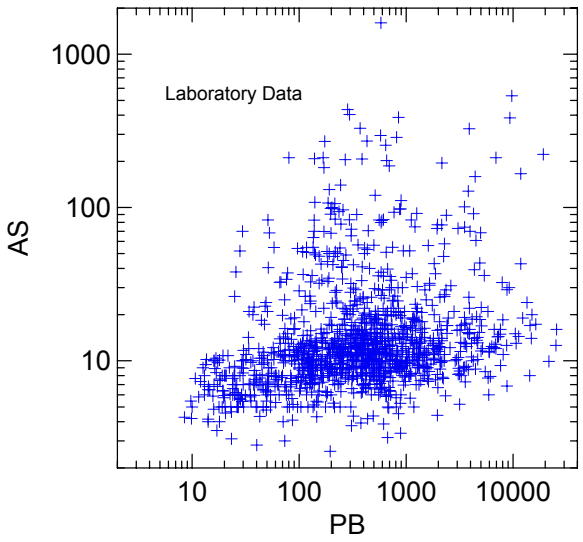


Figure 1 Laboratory analyses of lead and arsenic in Omaha residential soils.

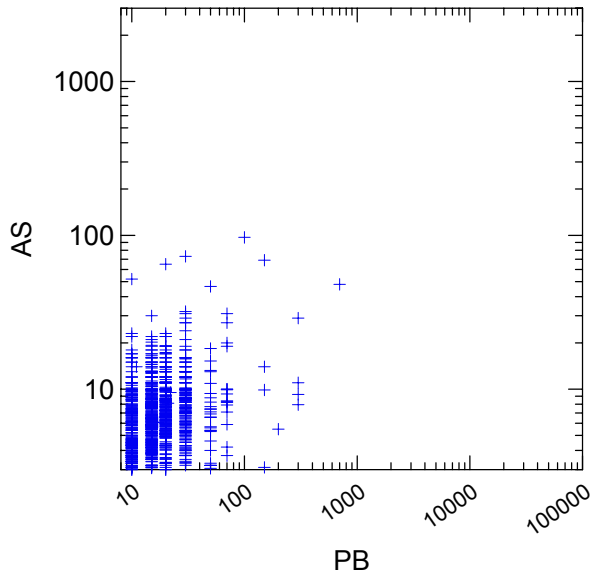


Figure 2 Lead and arsenic in a national sample of U.S. soils. (from USGS Professional Paper 1270)

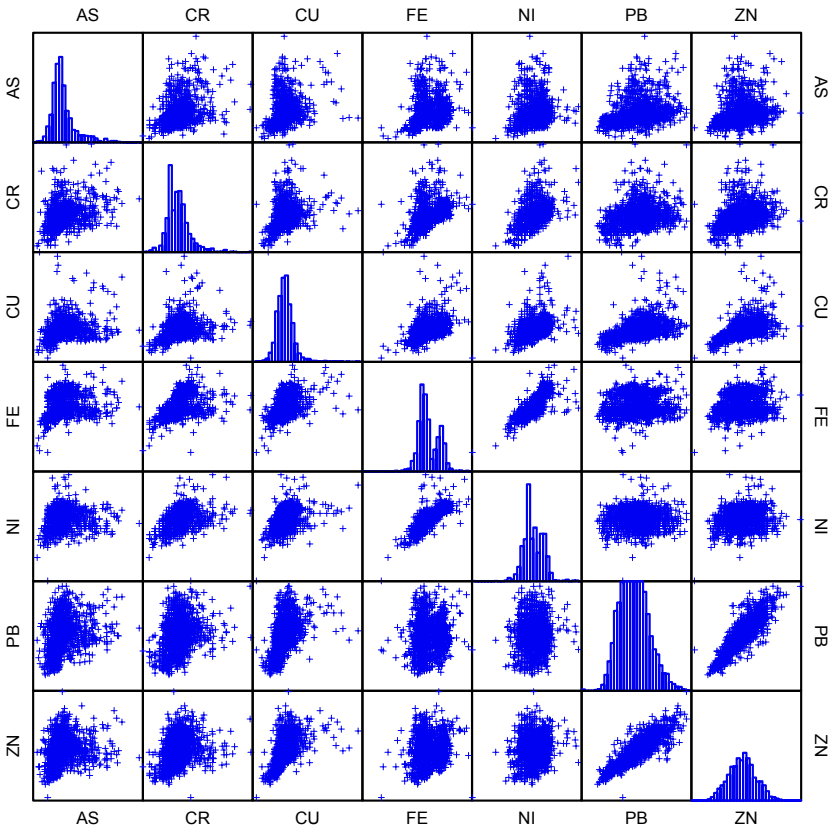


Figure 3 Scatterplot matrix of laboratory analyses of metals in Omaha residential soils.

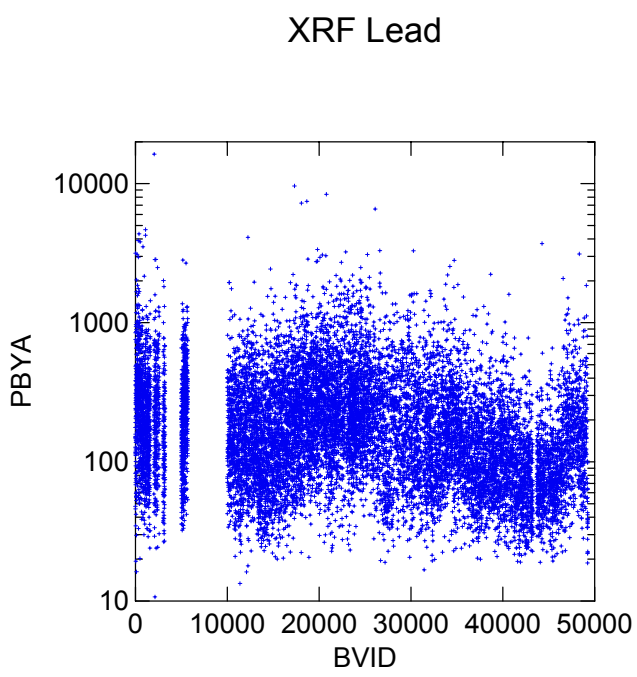


Figure 4 XRF lead (yard quadrant YA) versus sequential ID number

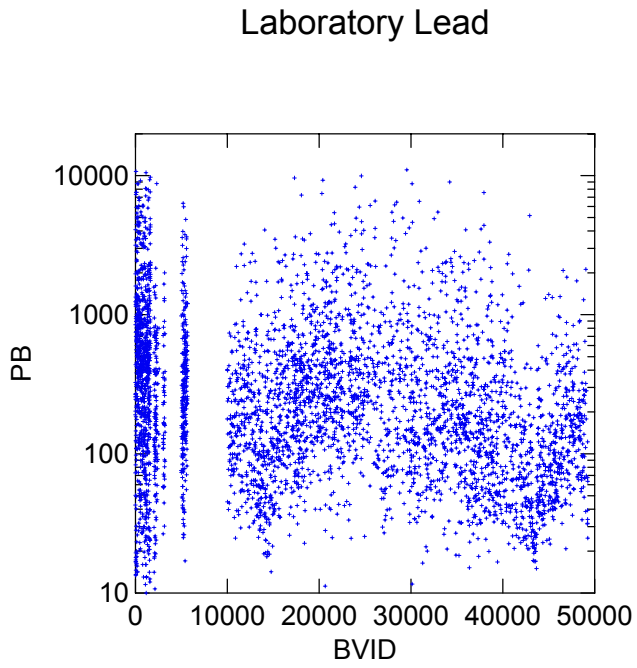


Figure 5 Laboratory lead (including drip zone samples) versus sequential ID number.

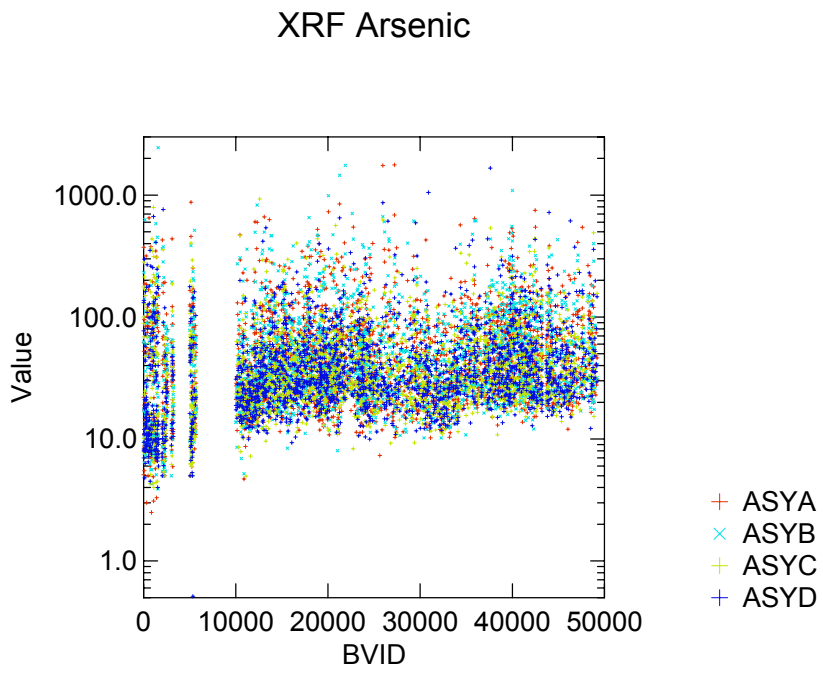


Figure 6 XRF arsenic (all yard quadrants) versus sequential ID number.

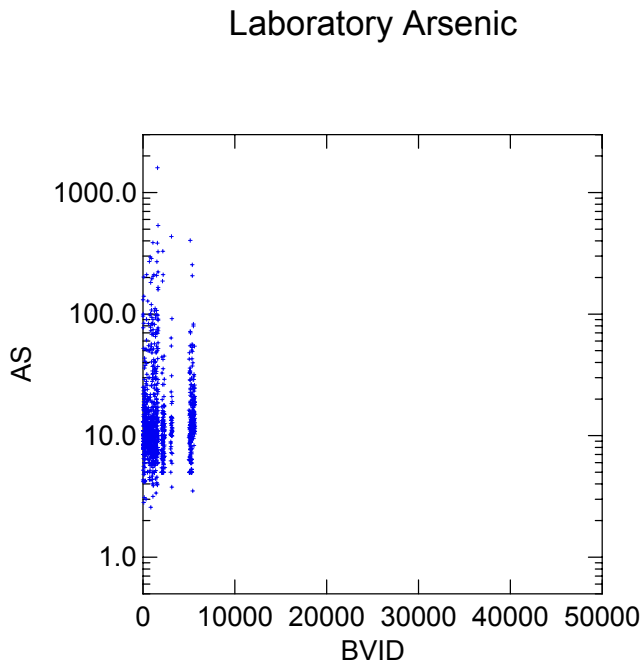


Figure 7 Laboratory arsenic versus sequential ID number.

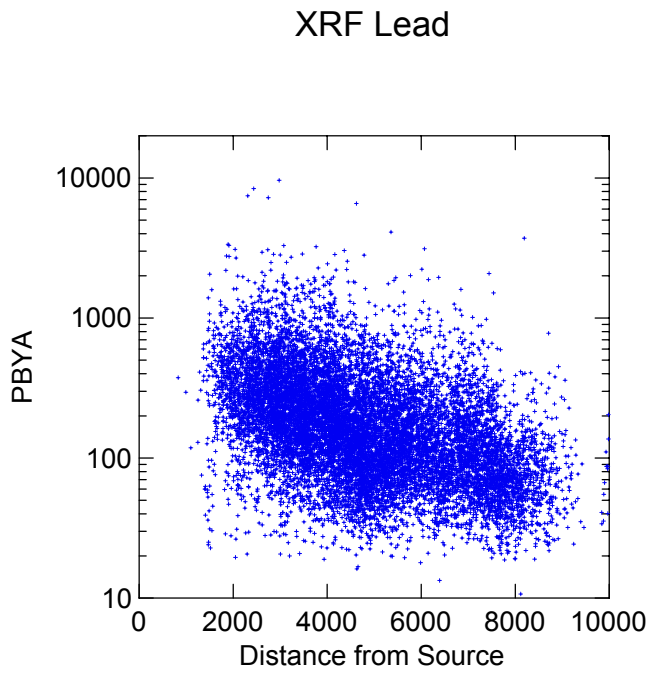


Figure 8 XRF lead (yard quadrant YA) versus distance from refinery.

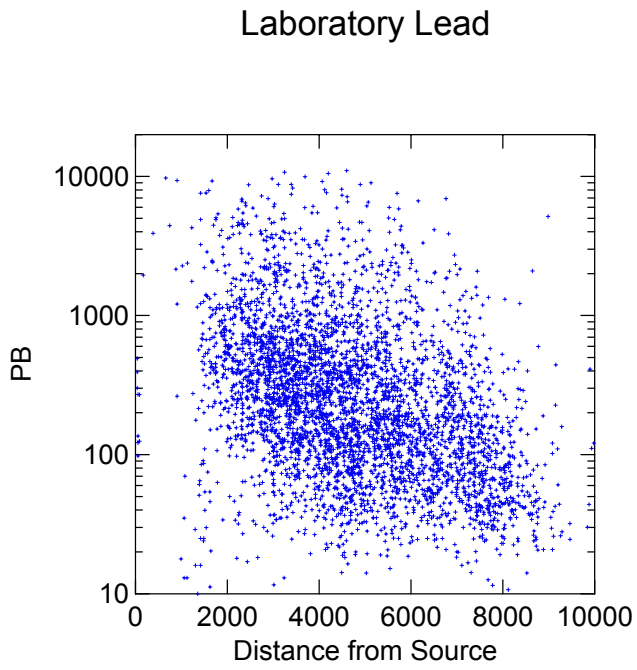


Figure 9 Laboratory lead (including drip zone samples) versus distance from refinery.

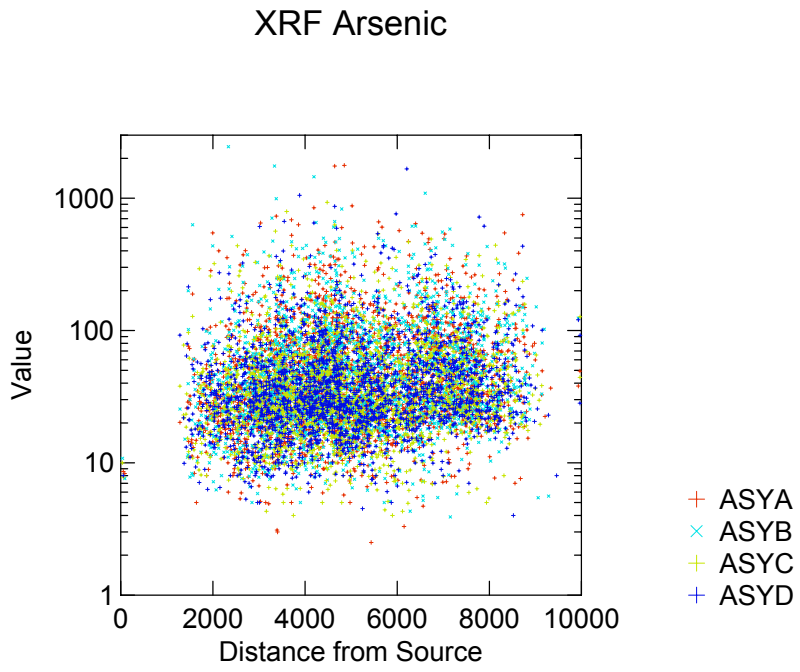


Figure 10 XRF arsenic (all yard quadrants) versus distance from refinery.

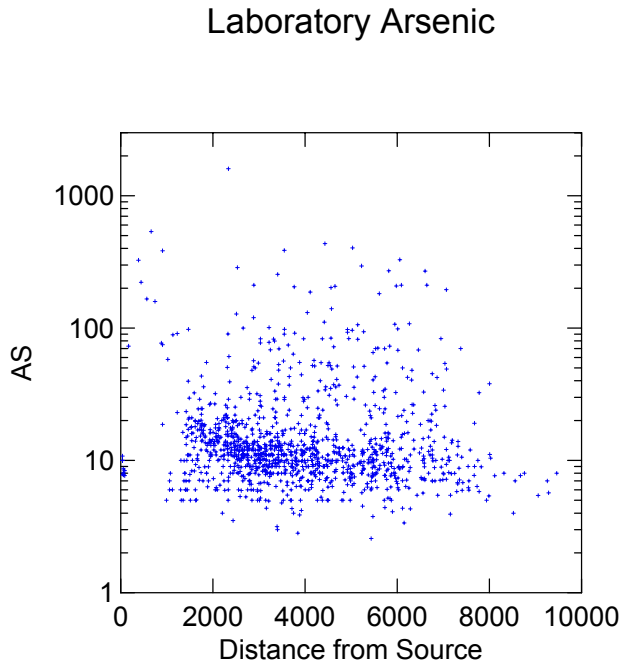


Figure 11 Laboratory arsenic versus distance from refinery.

Spatial Distribution of Lead and Arsenic Contamination
Omaha, Nebraska

Evan Englund
May, 2004

Conclusions

- Lead contamination is concentrated in the vicinity of the refinery source, and decreases with distance from the source. This is the expected pattern from a single primary point source of contamination.
- Arsenic does not show the same pattern as lead. In spite of problems with arsenic data, three different methods show spatial patterns that are roughly consistent with each other, and not consistent with lead. In particular, the arsenic data show high values at the western boundary of the heavily sampled area, where the lead concentrations are lowest.

Procedure

This report examines the spatial distributions of lead and arsenic contamination in soils in Omaha Nebraska. The purpose is to map broad spatial trends or patterns in the contamination in order to make a visual test of the hypothesis that lead and arsenic contamination are closely related to each other and are derived primarily from a single refinery source. The maps shown here use data transforms to reduce variability in order to distinguish between areas of relatively high and low contamination. They should not be used to estimate actual contaminant concentrations or to identify areas requiring remediation or further sampling.

The maps are contour maps of un-weighted moving averages of log-transformed or indicator-transformed concentration. Un-weighted moving averages were used instead of kriging for simplicity. Kriging is a *weighted* moving average, where the sample weights are calculated to minimize estimation variance, given a model of the spatial variance among samples (i.e., the variogram). Variograms of both arsenic and lead (not shown) have high "nugget effects". Nugget effects combine measurement error variance and short-distance spatial variability. In kriging, high nugget effects reduce the importance of sample proximity, which tends to make sample weights more equal. When the variogram model is composed entirely of nugget effect, all sample weights are equal, and kriging is identical to an un-weighted moving average.

The practical significance of using un-weighted moving averages for the maps is that they are over-smoothed. This is not a problem here, where the estimates are not being used for decision-making, but simply to look at the broad spatial patterns and trends.

The data used were from two files. "Big Table-Pb-As-CORRECTED 20040430.xls" contains routine XRF analyses from quadrant and zone samples in residential yards. "All lab data for kriging 20040504.xls" contains laboratory analyses for a subset of the residential samples.

Figure 1 shows the distribution of lead. The mean of the XRF measurements of the four quadrants in each yard was log-transformed, then un-weighted moving averages of the log values were calculated for points on a 100-meter square grid, and the results were contoured. This would be difficult to back-transform into estimates of lead concentration, but the pattern of high and low concentrations is clearly shown. The highest values occur near the refinery source, and decrease with distance from the source.

Figures 2, 3, and 4 show the spatial distribution of arsenic calculated by different methods. Different approaches are used because of problems with arsenic data. XRF measurements are mostly non-detects, while laboratory data are sparse and do not represent the entire sampled area.

Figure 2 is an indicator map based on XRF analysis. The indicator transform of a set of data simply assigns a value of one or zero to a sample depending on whether its measured value is above or below a threshold concentration. In this case all samples with arsenic measurements were assigned values of one, while samples with non-detects were assigned values of zero. In effect, the detection limit is the indicator threshold. Although "detection" is not exactly the same as "above a constant threshold", it is assumed to be a reasonable approximation. The un-weighted moving average of these indicator values is equal to the fraction of detects in the moving window. A value of 0.3 on the map, for example, indicates that 30% of the samples in that vicinity are detects, and 70% are non-detects. This can be interpreted as an estimate of the probability that a new sample taken nearby would have an arsenic concentration detectable by the current XRF method.

Figure 3 shows the distribution of arsenic based on XRF data. Analysis in this case was limited to one quadrant (YA). Arsenic non-detect flags were not available in the data set used in this analysis. Samples with no arsenic value were assumed to be non-detects if a lead measurement was present for the same quadrant. If no lead measurement was present, the sample was assumed not analyzed. Non-detects were assigned estimated background concentrations of 7.4 ppm (ln As = 2.0) Data were log-transformed, and moving window averages were computed and contoured as in Figure 1. Figures 2 and 3 show very similar patterns. This suggests that the areas of highest average arsenic concentrations are related to an increase in the overall number of contaminated samples, not to isolated extreme outliers. The pattern of high arsenic is distinctly different from that of lead, and shows no obvious relationship with the location of the refinery.

Figure 4 shows the distribution of arsenic based on laboratory data. Most residences with laboratory measurements did not have more than one. If more than one was available, only one was used. A sample in this case could represent any quadrant or non-drip zone at a residence. Only 1% of the laboratory arsenic measurements were reported as non-detects at a detection limit of 5 ppm. For these, the detection limit was substituted. Data were log-transformed, and moving window averages were computed and contoured as in Figures 1 and 3. The pattern is generally similar to Figures 2 and 3 in the western half of the map, but shows some additional high arsenic areas in the east. The laboratory data set includes some samples from a transect extending eastward from the refinery site. These samples were not included in the XRF data set. This difference in data accounts for some of the differences between the XRF and laboratory maps. The spatial pattern of laboratory arsenic, like the pattern of XRF arsenic, appears unrelated to lead.

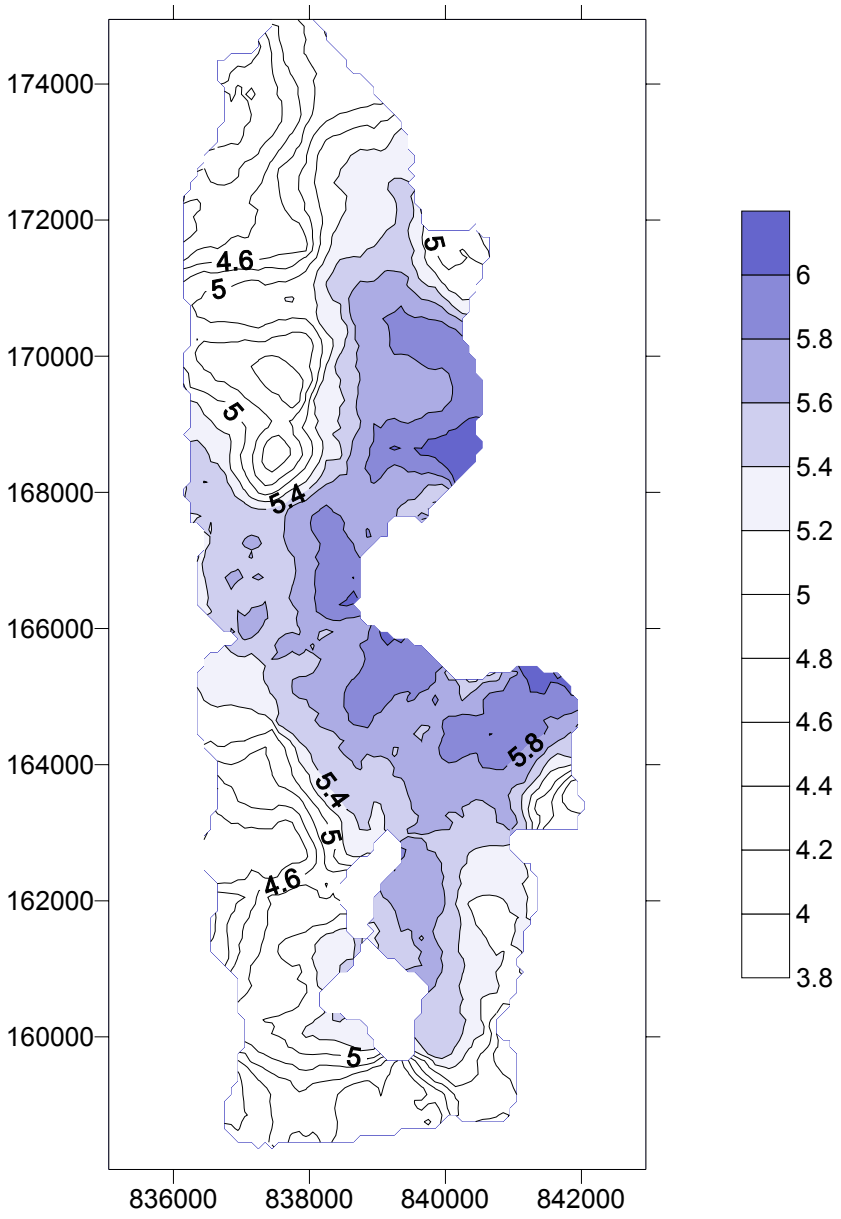


Figure 1 Moving average of XRF ln Pb

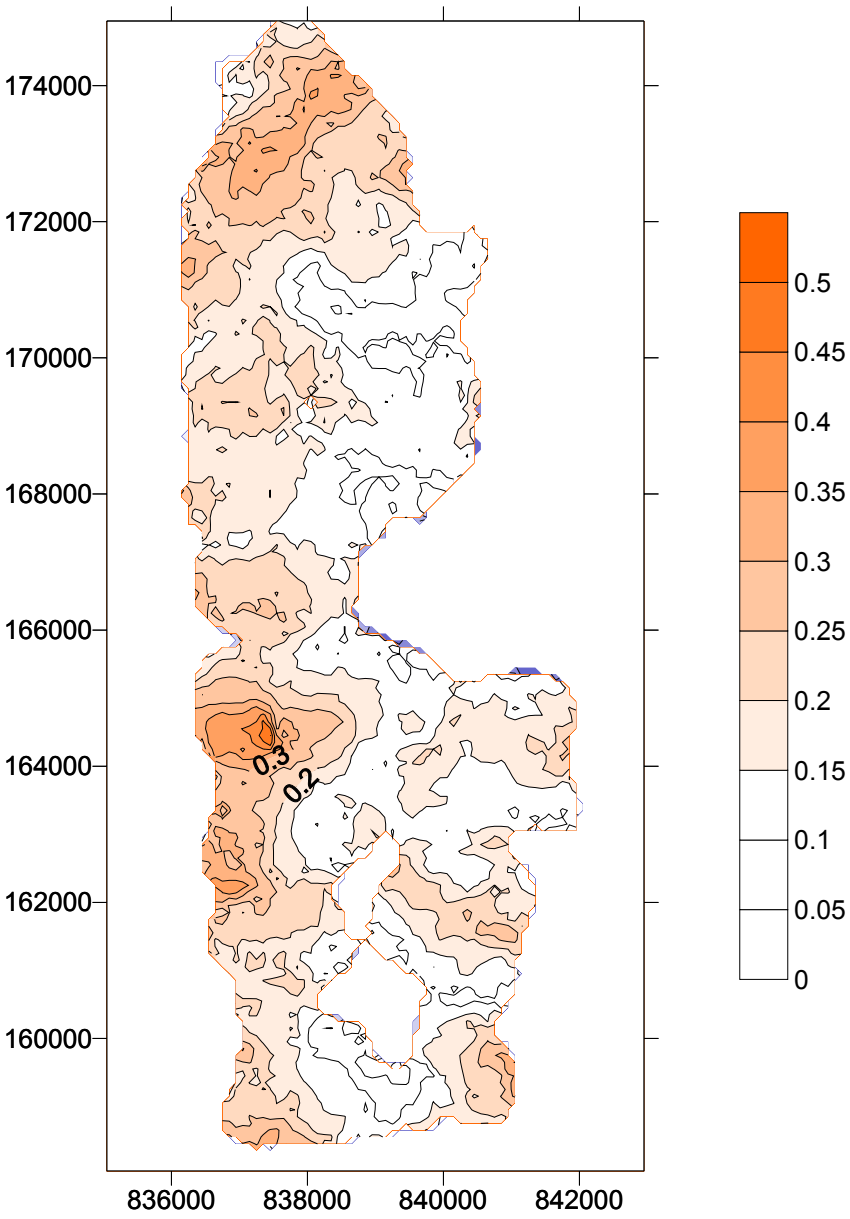


Figure 2 Moving average of XRF Arsenic indicator (probability of detect)

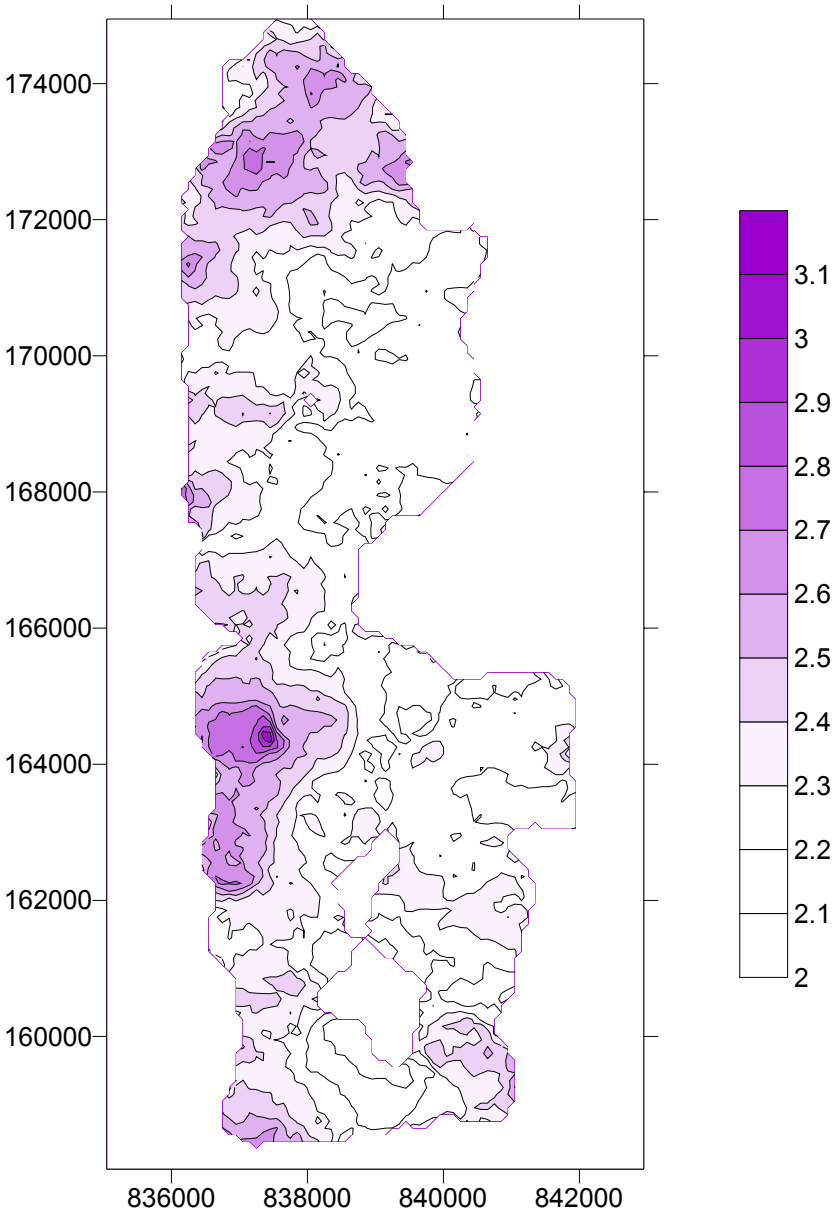


Figure 3 Moving average of XRF ln As (non-detects = 2)

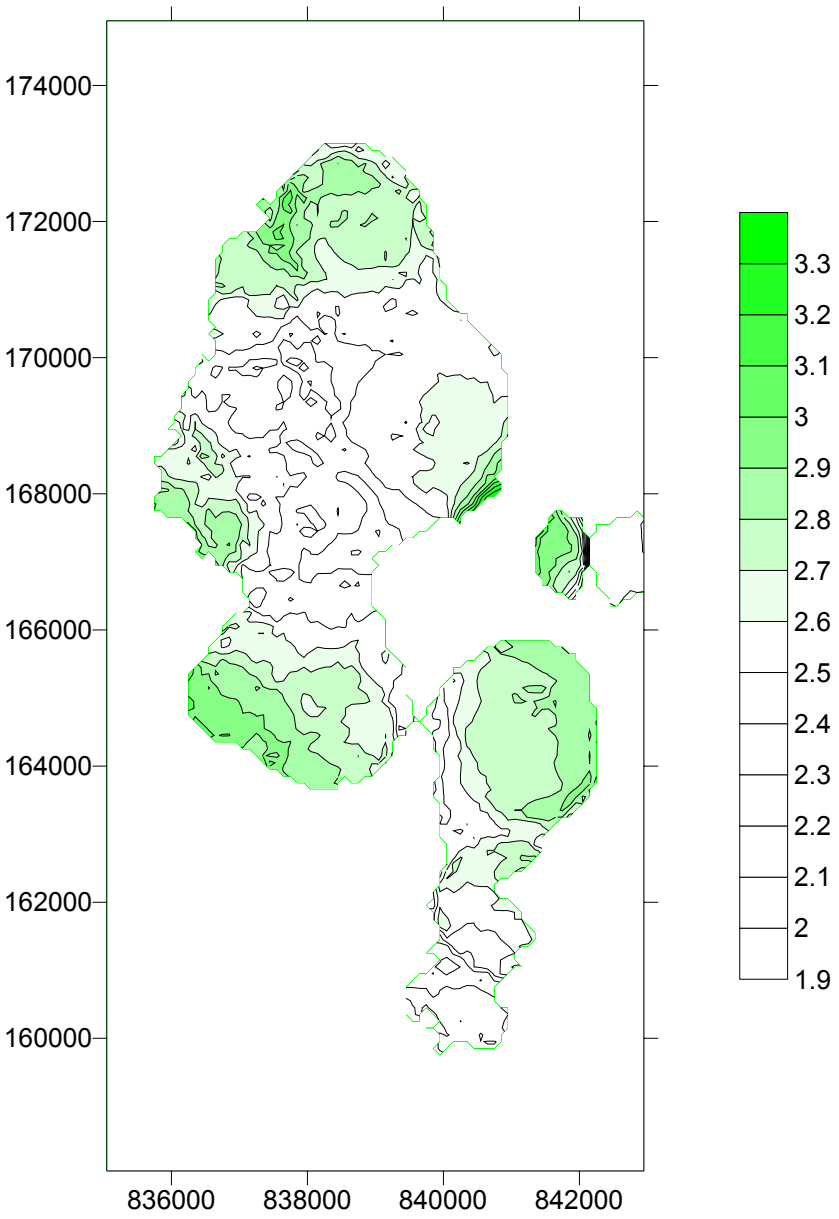


Figure 4 Moving average of laboratory ln As.

Omaha Lead Site

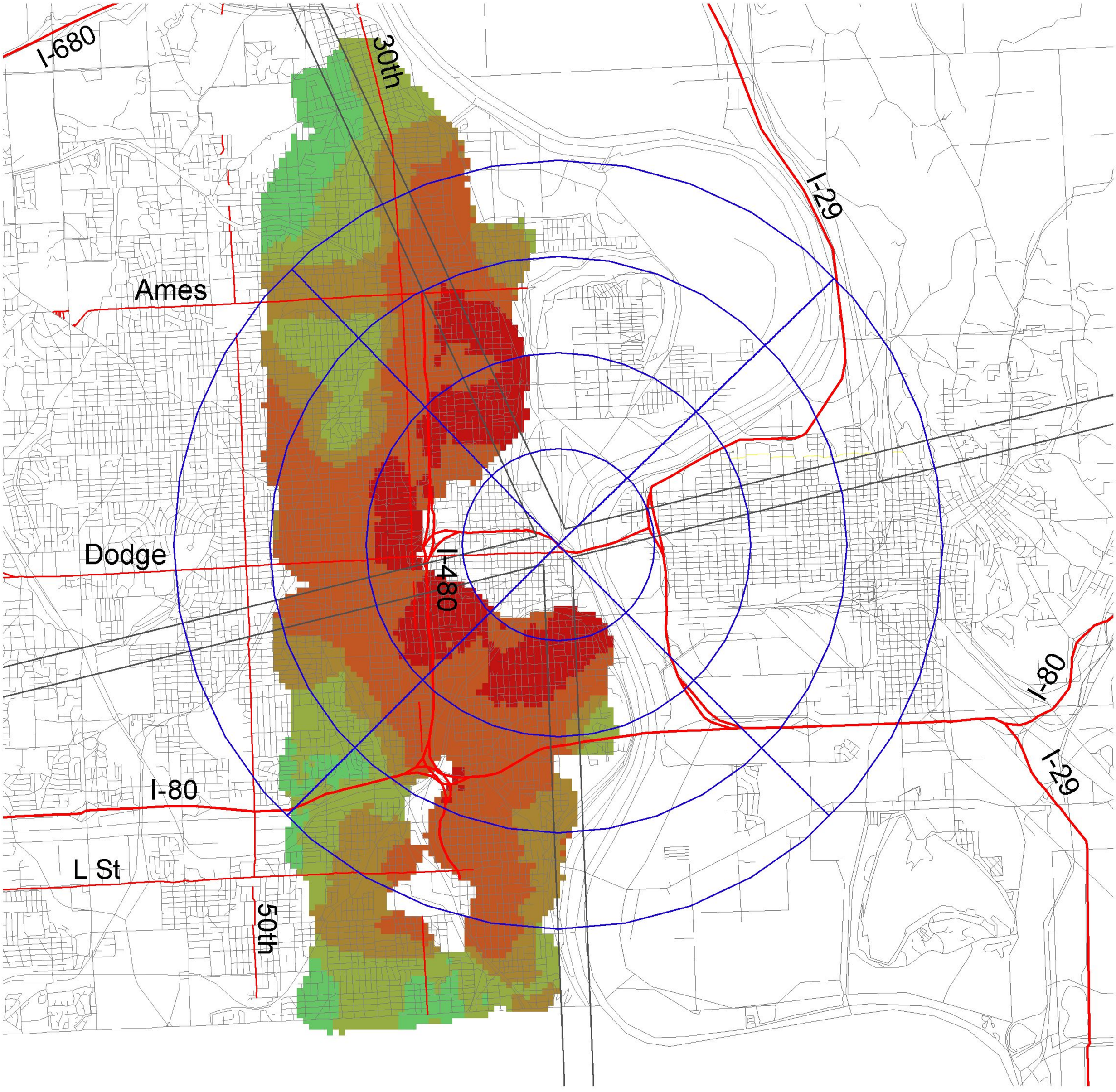
Unweighted Moving Average of Log Values for Lead Means by XRF

3.9 - 4.3
4.3 - 4.8
4.8 - 5.2
5.2 - 5.7
5.7 - 6.2

6,326 distinct 100-sq-m cell locations used in analysis;
Data file: ejefigure1g; Maximum value represented = 6.16

1 0 1 Miles

N
W E
S



Omaha Lead Site

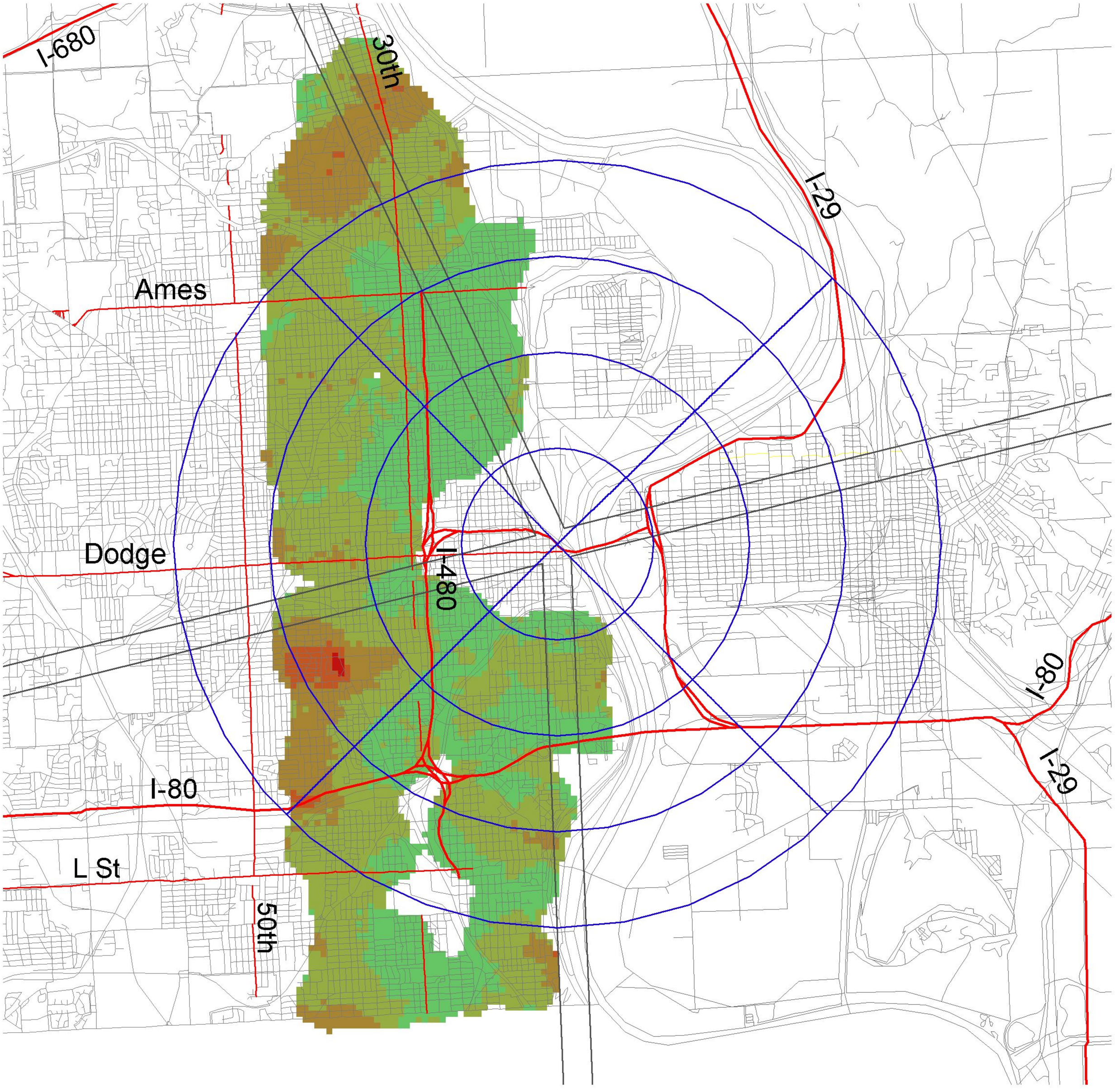
Probability that Arsenic Levels are Detectable by XRF Method

0.0 - 0.1
0.1 - 0.2
0.2 - 0.3
0.3 - 0.4
0.4 - 0.5

6,254 distinct 100-sq-m cell locations used in analysis;
Data file: ejefigure2g; Maximum probability represented = 0.50

1 0 1 Miles

N
W E
S



Omaha Lead Site

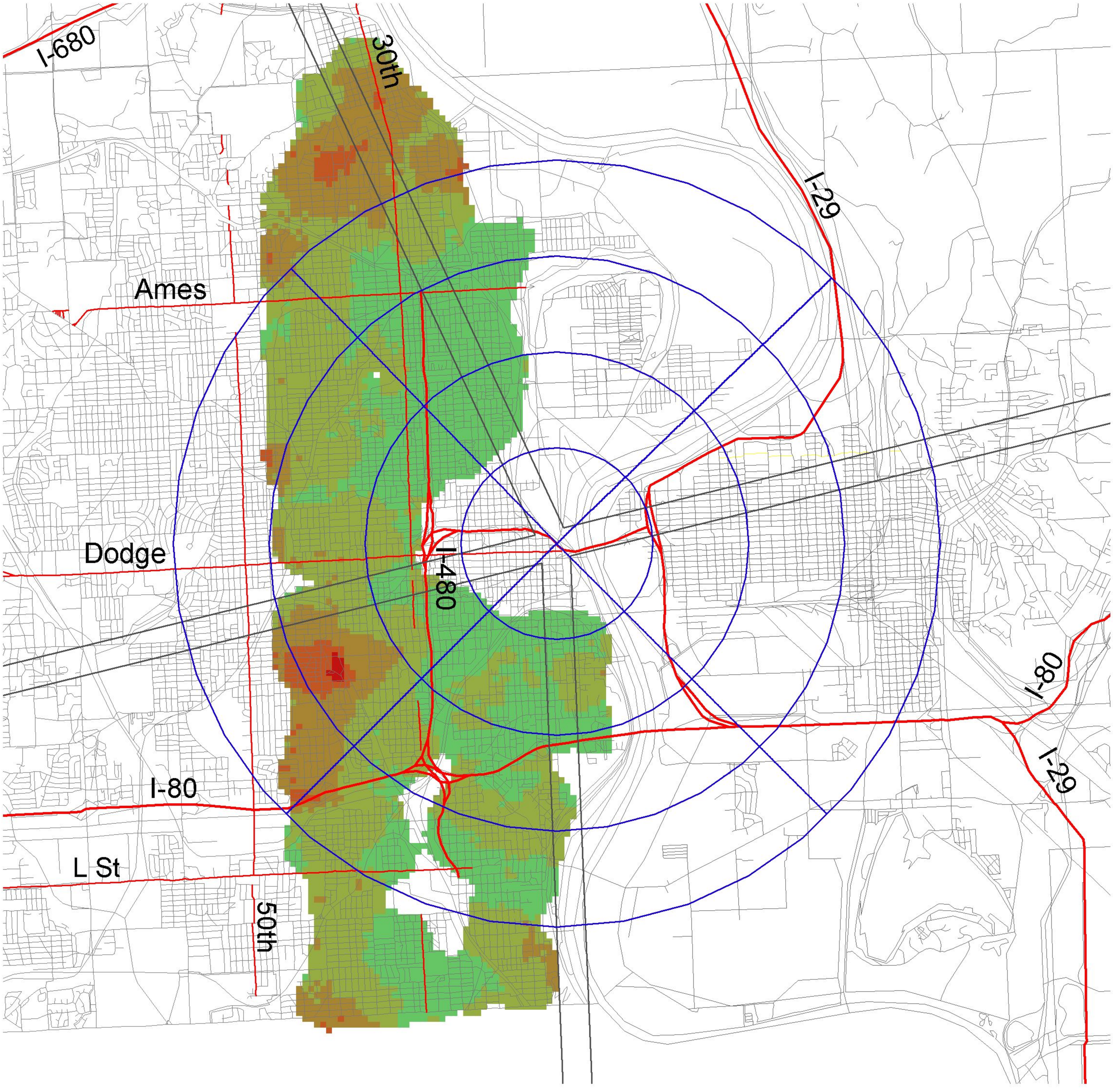
Unweighted Moving Average of Log Values for Arsenic YA Quadrant by XRF

2.0 - 2.2
2.2 - 2.4
2.4 - 2.6
2.6 - 2.8
2.8 - 3.1

6,258 distinct 100-sq-m cell locations used in analysis;
Data file: ejefigure3g; Maximum value represented = 3.06

1 0 1 Miles

N
W E
S



Omaha Lead Site

Unweighted Moving Average of Log Values for Arsenic by Laboratory

1.9 - 2.2
2.2 - 2.5
2.5 - 2.8
2.8 - 3.1
3.1 - 3.4

4,401 distinct 100-sq-m cell locations used in analysis;
Data file: ejefigure4g; Maximum value represented = 3.40

1 0 1 Miles

N
W E
S

Anomalous Arsenic Concentrations at Omaha Nebraska Superfund Site

For

USEPA Region 7

May 24, 2004

By

Dr. John W. Drexler
LEGS
University of Colorado
Boulder, CO 80309

Introduction

A small population (approximately 116 out of 1263 samples --9%) of residential soil samples collected as part of the Omaha lead site remedial action having anomalously high arsenic concentrations (> 40 mg/kg). I have been asked by EPA to determine if these elevated arsenic values could be attributed to the ASARCO facility, which has been determined to be the primary source of elevated lead values in the community. This report will be based on both limited data and time using a statistical review and speciation analyses.

Arsenic Geochemistry

Arsenic is found in many minerals and is typically enriched in soils originating from shales/schists and argillaceous sediments. Uncontaminated soils have mean concentrations of 1-6 mg/kg for arsenic (Fergusson, 1990), worldwide. The lowest levels are typically found in soils derived from volcanic or carbonate terrain, (andesites and limestones), and average 1-7 mg/kg As. The near neutral (6-8.5 pH) acidity of the local soils stimulate very low metal mobility, generally concentrating metals in the surface horizons by preventing there downward distribution over time. Mobility may be enhanced by irrigation, aeration, or by utilization of soil amendments (Logan and Chaney, 1983).

Numerous sources arsenic have historically led to elevated concentrations in surface soils. Table 1 is a compilation of the most common arsenic sources, speciation, and associated soil concentrations (data from Barzi et al., 1996, Kabata and Pendias, 1993; Fergusson, 1990; and Drexler, per. communication, 1998).

Table 1. Compilation of common arsenic sources and associated soil-metal concentrations.

Source	Arsenic Speciation	Associated Soils As mg/kg
Mining	Sulfosalts, As_2S_3, FeAsS	23-1023
Chemical Works	PbAsO, As_2O_3 ,R**AsO	10-2000
Metal Processing	As_2O_3, AsM*O, PbAsO	33-2500
Application of Pesticides	As_2O_3, PbAsO, R**AsO, Na-Ca arsenates	38-625
Gardens and orchards	PbAsO	38-892
Fly Ash	Unknown	1-9
Municipal Sludge	Unknown	1-6
Sheep/Cattle Dip/Tannery	As_2O_3	300-1000
Wood Preservatives	Cr-Cu arsenates	10-2000

**R = Organic compounds, *M = typically Pb, Ca, Cd, Zn, or Sb.

Speciation

Three samples were collected for metal spectiation using EMPA techniques. Two of the samples (13348 and 42638) contained high arsenic and low lead, while the third sample (47055) contained both elevated arsenic and lead. These two sample sets showed a

distinct difference in lead and arsenic speciation. The first set of samples indicated the relative arsenic mass was dominantly (90-95%) found as liberated arsenic trioxide particles and lead was found in MnOOH and phosphate (Figure 1a-b).

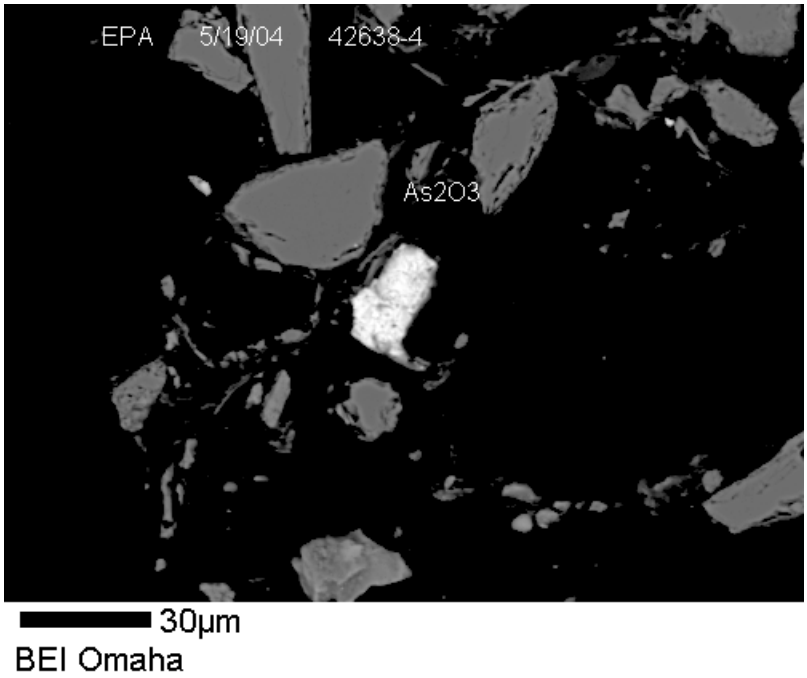
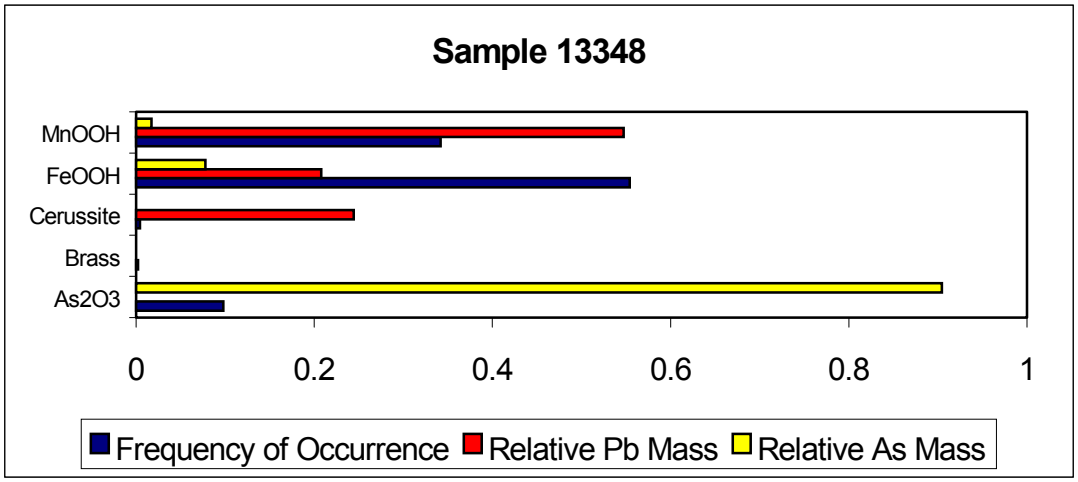
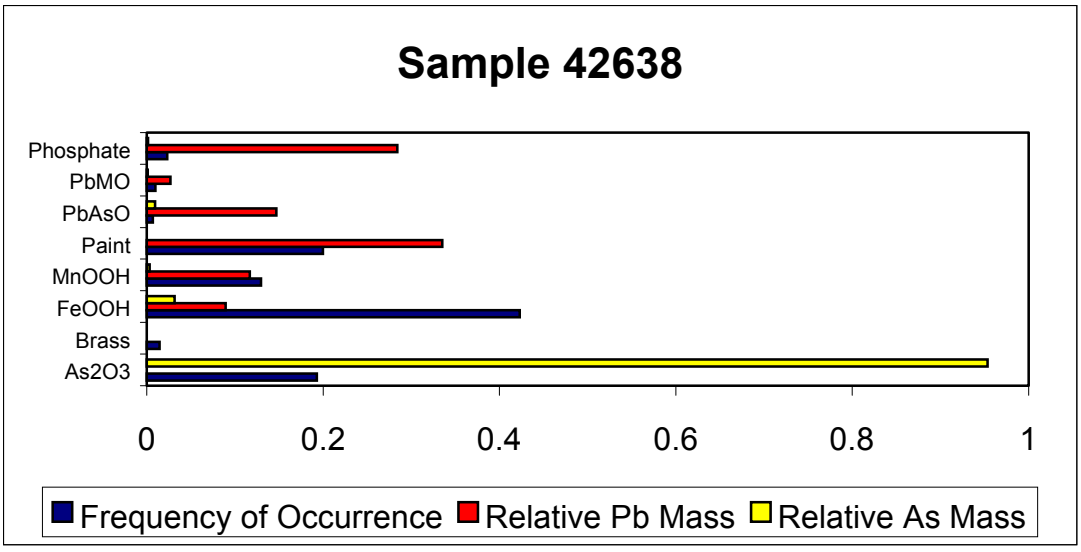


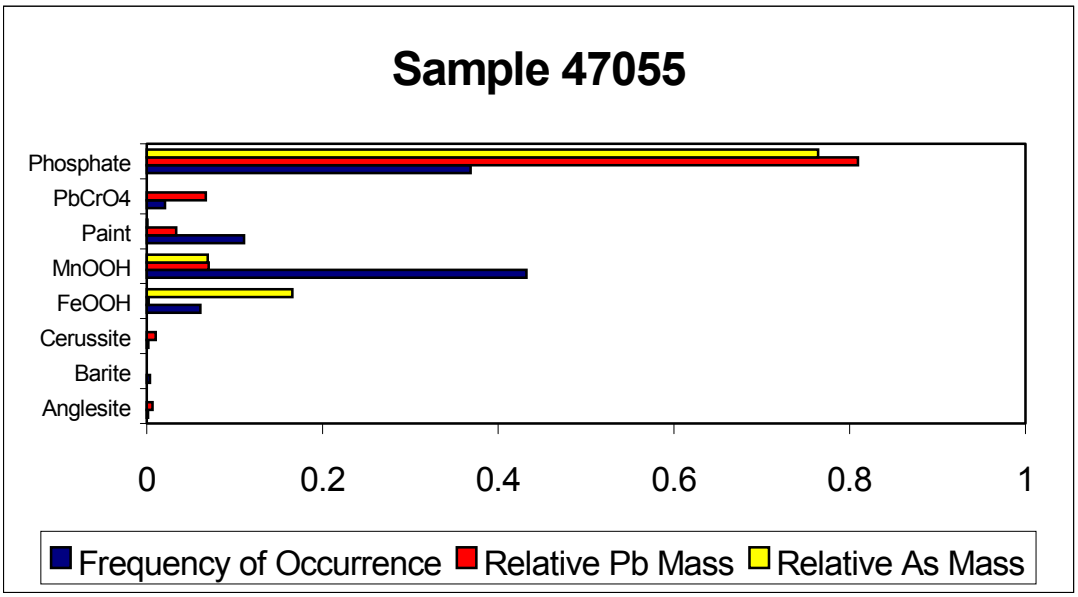
Figure 1.


Sample 13348
MnOOH
FeOOH
Cerussite
Brass
As2O3
0
0.2
0.4
0.6
0.8
1
Frequency of Occurrence
Relative Pb Mass
Relative As Mass


Sample 42638
Phosphate
PbMO
PbAsO
Paint
MnOOH
FeOOH
Brass
As2O3
0
0.2
0.4
0.6
0.8
1
Frequency of Occurrence
Relative Pb Mass
Relative As Mass

The second sample set has arsenic and lead relative mass dominated (75-80%, respectively) by phosphate particles Figure 2. No clear source to the metals was found, but it is likely the both originate from the same, soluble As-Pb compound(s).

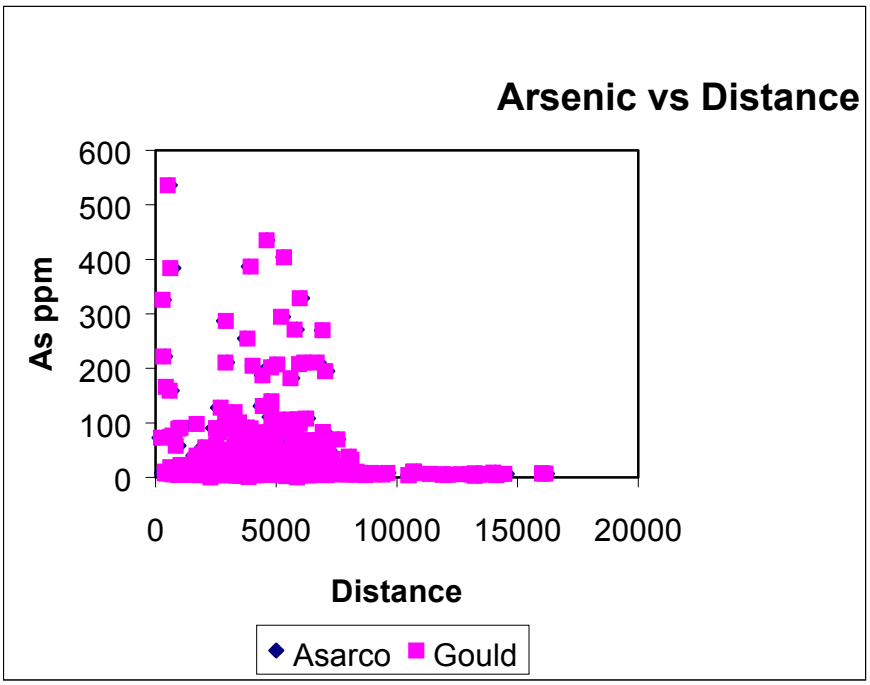
Figure 2.



Metal Concentration vs Distance

A comparison of arsenic and lead concentration with distance from the Asarco plant was made. The data, Figures 3a-b, show two populations, one indicates a series of samples with elevated arsenic and lead concentrations very near the plant, and both metal show a statistically significant increase in elevated metals concentration at between 4000-5000 meters from the plant center. This may suggest a "fugitive" and/or "stack" related portion to the overall metal concentration. Spatially, there is no clear distribution in elevated arsenic concentrations. Values are generally found randomly in all directions from the Asarco facility, Figure 4.

Figure 3.



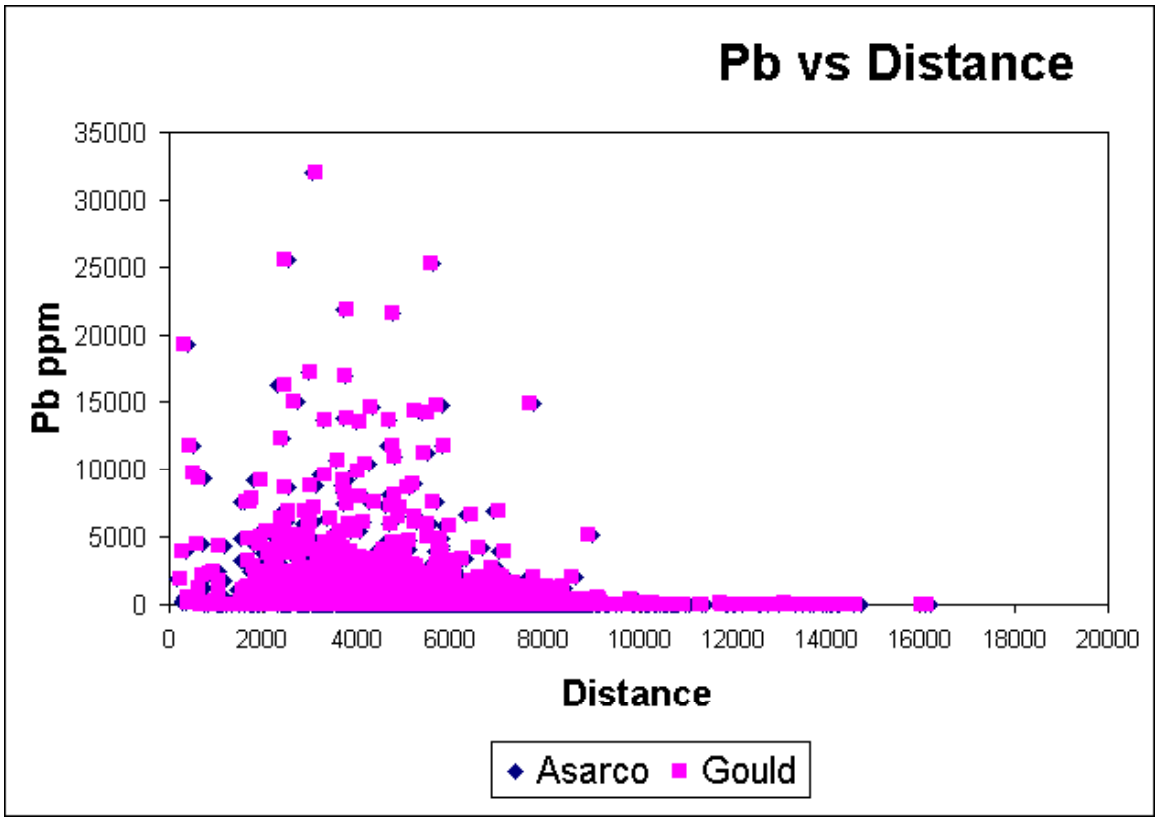
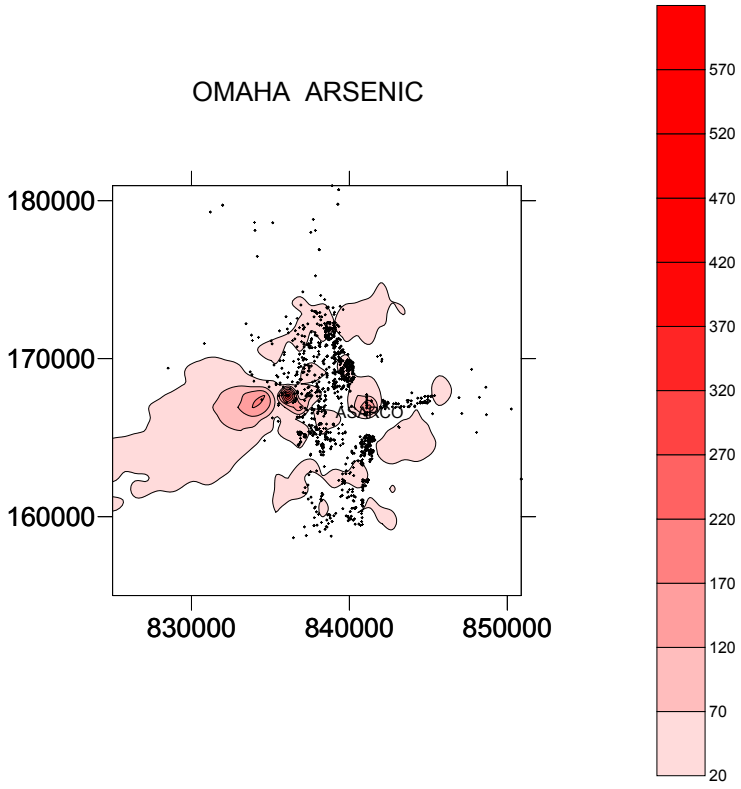

Pb vs Distance
Pb ppm
35000
30000
25000
20000
15000
10000
5000
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000
Distance
Asarco
Gould

Figure 4


OMAHA ARSENIC
180000
170000
160000
830000
840000
850000
ASARCO
570
520
470
420
370
320
270
220
170
120
70
20

Metal Correlations

A correlation analysis using all of the available metals analyses (22 elements) was run on the data set. No significant correlation between arsenic and any of the tested metals can be found Table 2. This would suggest that not only is the arsenic not correlated (ie associated) with lead, but that no other metals are found to co-locate with arsenic. Thus, arsenic is of a rather "pure" form and may represent a commercial product instead of a industrial emission.

Table 2. Correlation coefficients for arsenic vs other metals.

Al	Sb	Ba	Be	Bi	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	Se	K	Na	Tl	V	Zn
.1	.3	0	0	.4	0	.3	.4	0	.4	.1	.2	.2	.4	.2	0	0	.3	.1	.3	.1

Conclusions

Based on the following points:

1. There is No correlation with lead------ Not from Asarco facility nor a herbicide
2. There is No correlation with Cr and Cu----- not from CCA treated wood
3. There is No correlation with Ba or Zn----- not associated with paint
4. There is no clear spatial nor distance relation to Asarco facility

5. The singularly, predominant species of arsenic is a pure arsenic trioxide. A form of arsenic, which was never identified at the Asarco facility. At the Asarco facility arsenic was primarily associated with; PbAsO and PbMO, two forms that were virtually not found the three samples.

Therefore, I believe that the predominant source of the arsenic found in these yards is most likely from the use of an arsenic rodenticide.

Appendix E
ATSDR Health Consultations

Don Baker 4e

Health Consultation

#113604
Site: Omaha Lead
ID#: NESFN0703481
Region: 7
Other:
3-21-2000
RECEIVED
APR 03 2000
SUPERFUND DIVISION

OMAHA LEAD
(a/k/a OMAHA LEAD REFINING)

OMAHA, DOUGLAS COUNTY, NEBRASKA

MARCH 21, 2000

U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES
Public Health Service
Agency for Toxic Substances and Disease Registry
Division of Health Assessment and Consultation
Atlanta, Georgia 30333

S00114068
SUPERFUND RECORDS

Health Consultation: A Note of Explanation

An ATSDR health consultation is a verbal or written response from ATSDR to a specific request for information about health risks related to a specific site, a chemical release, or the presence of hazardous material. In order to prevent or mitigate exposures, a consultation may lead to specific actions, such as restricting use of or replacing water supplies; intensifying environmental sampling; restricting site access; or removing the contaminated material.

In addition, consultations may recommend additional public health actions, such as conducting health surveillance activities to evaluate exposure or trends in adverse health outcomes; conducting biological indicators of exposure studies to assess exposure; and providing health education for health care providers and community members. This concludes the health consultation process for this site, unless additional information is obtained by ATSDR which, in the Agency's opinion, indicates a need to revise or append the conclusions previously issued.

You May Contact ATSDR TOLL FREE at
1-888-42ATSDR
or
Visit our Home Page at: http://atsdr1.atsdr.cdc.gov:8080/

HEALTH CONSULTATION

OMAHA LEAD
(a/k/a OMAHA LEAD REFINING)

OMAHA, DOUGLAS COUNTY, NEBRASKA

Prepared by:

Exposure Investigation and Consultation Branch
Division of Health Assessment and Consultation
Agency for Toxic Substances and Disease Registry

Background and Statement of Issues

The U.S. Environmental Protection Agency (EPA) requested the Agency for Toxic Substances and Disease Registry (ATSDR) review an Action Memorandum for a time critical removal at the Omaha Lead site, and determine (1) if the proposed soil clean-up levels would reduce the public health threat from lead exposure, and (2) if the removal actions likely to result in reduced blood lead levels in the exposed population [1].

The Omaha Lead site is located near the former ASARCO lead refinery facility, and the Gould Incorporated lead battery recycling plant The site encompasses eastern Omaha, Nebraska and Council Bluffs, Iowa (see attached map) [2]. The ASARCO facility operated from the 1870s to 1997. Airborne emissions of lead occurred during the operation of the ASARCO facility. Lead was also emitted from the blast furnace at the Gould recycling plant until its closure in 1982. In addition, several other businesses in the area used lead in the manufacturing process contributing to area lead contamination [2].

The Douglas County Health Department has conducted ambient air monitoring since 1984 at several locations around the ASARCO lead refinery facility[2]. The EPA National Ambient Air Quality Standard (NAAQS) for lead of 1.5 micrograms per cubic meter ($\mu g/m^3$) [averaged over a calendar quarter] was exceeded on a frequent basis. The highest quarterly average was measured immediately northwest of the ASARCO facility at 6.57 $\mu g/m^3$ [2].

Blood lead screening by the Douglas County Health Department (DCHD) in the greater Omaha area has shown elevated blood lead levels in children[2]. Children residing in zip codes located in whole, or in part, east of 42nd Street in Omaha were elevated on a greater frequency (see attached map). A 1998 DCHD press release stated that within these zip codes, 20.6% to 42.8% of the children exceeded the Centers for Disease Control's (CDC) blood lead guideline of 10 $\mu g/dl$ [2]. This area is northwest of the ASARCO site, and along the path of the prevailing winds from the ASARCO facility [2].

The DCHD began collecting surface soil samples from residences located in east Omaha to identify potential sources of lead exposure. Soil samples were collected in the Fall of 1996 from 84 residences. Lead concentrations at 20 of the 84 residences exceeded the 400 milligram per kilogram (mg/kg) screening value established for the site. Additional sampling in the east Omaha area was conducted by DCHD in the Fall of 1998. The sampling of the residential properties was more comprehensive and included a sample from the foundation area of the homes to account for lead paint as a confounding factor. Soil lead levels from 22 of the 66 yards exceeded the 400 mg/kg screening level.

In May 1998, the President of the Omaha City Council requested assistance from EPA in addressing lead contamination in the Omaha area. In March 1999, EPA conducted sampling at 153 child care facilities located throughout the greater Omaha area (see attached map). Soil samples were also collected at selected residential properties located along the path of the prevailing wind direction from downtown Omaha. Of the 153 child care facilities, 39 had soil lead concentrations (samples collected near the foundation were not included) exceeding 400 mg/kg. Those child care facilities exceeding the 400 mg/kg level were primarily located along the path that runs north-northwest from downtown Omaha. Preliminary results for the residential sampling has shown 200 of the first 348 residences have exceeded 400 mg/kg. EPA continues to conduct soil sampling at residential properties targeting locations where blood lead levels for children under 7 years old exceeded 15µg/dl.

In the EPA Action Memorandum for the site, it is proposed that soil removal actions be performed at child care facilities were the soil lead levels exceed 400 mg/kg. Included in the proposed action are residential properties where a child under 7 years old has tested greater than 15 µg/dl for blood lead.

Discussion

Blood lead screening by the Douglas County Health Department (DCHD) showed levels exceeding the Centers for Disease Control's (CDC) blood lead guideline of 10 µg/dl in 20.6% to 42.8% of the children in some locations down wind from ASARCO and other potential sources of lead. At blood lead levels as low as 10 µg/dl, some studies have suggested that neurologic effects such as impaired intelligence quotient (IQ), behavioral functioning, and speech and language processing may occur in children [3,4]. The high percentage of elevated blood leads in this population is unusual, since blood lead levels throughout the country have steadily declined over the last two decades due to curtailments on leaded gasoline and other sources of lead. However, lead exposure does continue to occur in some areas, especially older urban areas where lead paint was used, or in areas with high concentrations of lead in the soil.

The degree of risk posed by lead -contaminated soil is dependent on factors such as the location, the concentration in the soil, the species of the lead, the activity of the exposed population, and the age and nutritional status of the exposed group. Soil ingestion rates also vary with seasonal changes, socioeconomic and cultural factors, and the degree of exposed versus covered soils [4].

In general, the CDC has estimated that blood levels in young children may be raised, on average, about 5 ug/dL for every 1,000 mg lead/kg of soil or dust, and may increase 3 to 5 times higher than the mean response depending on play habits and mouthing behavior. Even lower soil levels of lead (150 to 250 mg/kg) have been suggested as contributing to excessive blood lead levels in some children [3,4]. However, the source of the lead in the soil can be an important factor in determining whether exposure will result in elevated blood lead levels. For example, mining site

studies have shown very low increases in blood lead in relation to levels found in the soil. However, exposures to smelter-generated lead deposited on soils have resulted in higher blood lead levels [5]. For this site, EPA has used a biokinetic model. The assumptions in this model have been validated largely on smelter studies [5]. Therefore, one could argue that the 400 mg/kg cleanup level proposed by EPA is valid for this site. However, as pointed out by Bornschein [5], blood lead studies, where they are comprehensive and well conducted, are the best measure of risk. With the blood data indicating undesirable levels of lead, and the biokinetic model supporting this position, it would be prudent to assume that the proposed action by EPA would result in blood lead reductions in the affected communities. This of course assumes that lead paint and other sources of lead are accounted for.

The proposed cleanup level for child care facilities and residential properties is 400 mg/kg. This level is consistent with, or lower than, cleanup levels used throughout the country, and is considered protective of public health. However, the plan does not account for residential properties where there are no children with elevated blood lead, but the soil screening value is exceeded. A child may not have been exposed at the time of the blood test, or there may not be a child at the residence at this time. In either case, the situation could change putting a child at risk in the future if the soil lead concentrations are elevated. If not already in place, continued monitoring of blood leads for children in the area after remediation may be required to identify children at risk.

ATSDR Child Health Initiative

ATSDR's Child Health Initiative recognizes that the unique vulnerabilities of infants and children demand special emphasis in communities faced with contamination of environmental media. As part of the ATSDR initiative, ATSDR health consultations must consider children in their evaluations where indicated. Children have developing nervous systems that are vulnerable to the deleterious affects of lead. In addition, children are more likely to ingest contaminated soil or dust due to frequent hand to mouth activity, and can receive larger doses relative to body weight. Blood lead levels of 10 ug/dL and above have been associated with adverse health effects such as developmental and hearing impairment in children [3,4]. Since children are especially vulnerable to the deleterious effects of lead, ATSDR considered this sensitive population in the evaluation of this site, and has concurred with EPA's proposed actions to reduce exposures to the lead-contaminated soil.

Based on the information provided, ATSDR concludes the following:

Conclusions

The proposal outlined in EPA's Action Memorandum to remediate lead in soils at childcare centers and residential properties are likely to result in reduced blood leads in the exposed population.

2. Lead paint and other potential sources of lead may be responsible for increased blood lead concentrations in the population.

3. There does not appear to be a contingency plan in the action memorandum to address residential properties where the 400 mg/kg cleanup level is exceeded, but no child is present with elevated blood leads. Therefore, children residing on these properties in the future may be at risk, unless some type of long-term blood testing plan is in place for the community.

Recommendations

Ensure that a comprehensive assessment of potential lead sources (e.g.) lead-based paint is conducted at each of the properties to be remediated.

2. Develop a protocol to monitor blood lead levels in children in areas where there is not currently an elevated blood lead, but where soil lead concentrations have exceeded the cleanup level.

Preparer of report

Timothy Walker, MS
Environmental Health Specialist
ATSDR/DHAC/EICB

Reviewers of Report

Susan Moore
Section Chief
ATSDR/DHAC/EICB

John E. Abraham, PhD
Branch Chief
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REFERENCES

1 Health consultation request from Don Bahnke, EPA Region VII November 12, 1999

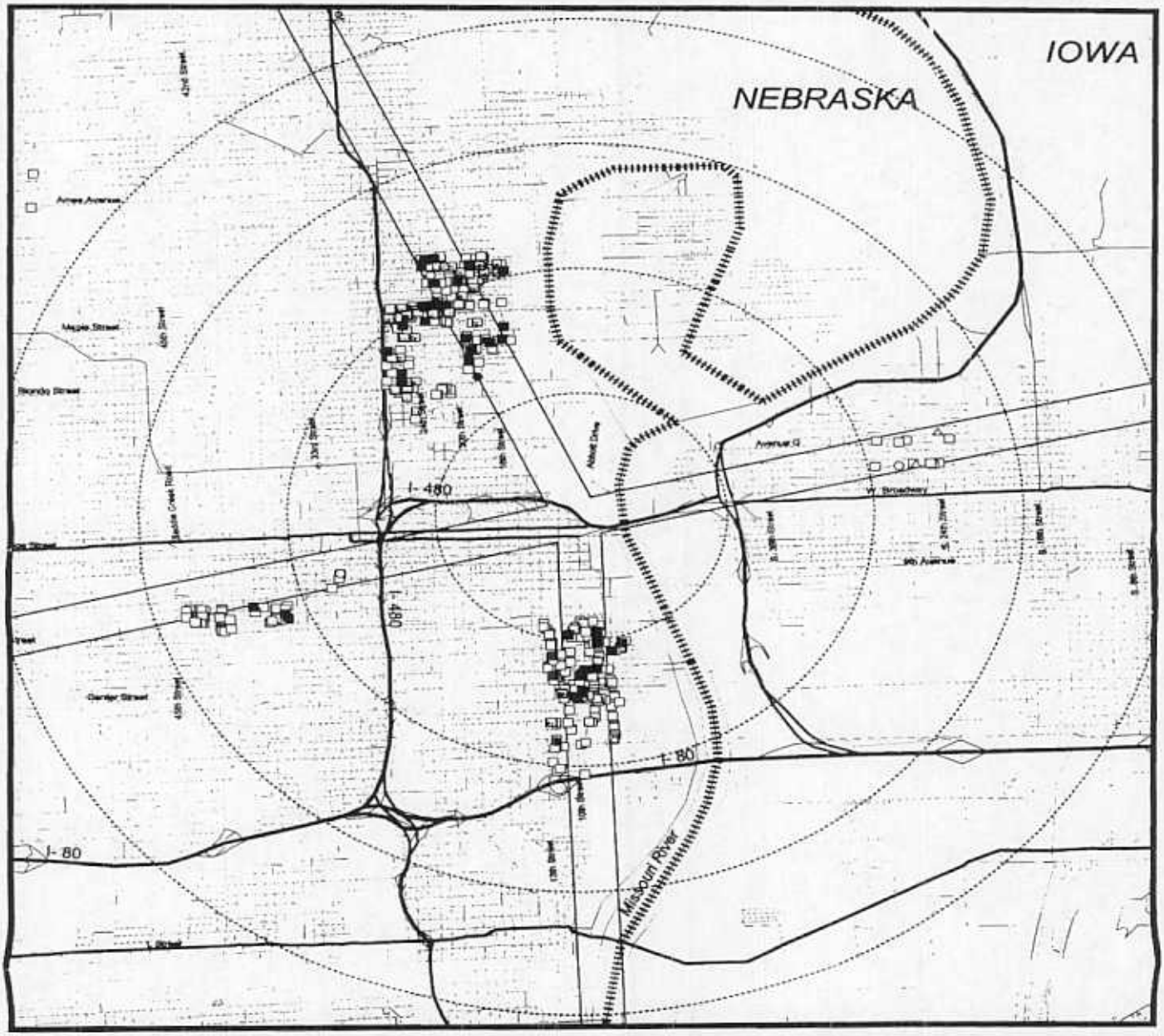
2 U.S. EPA Action Memorandum for the Omaha Lead site, Omaha, Nebraska, August 2, 1999.

3 Preventing Lead Poisoning in Young Children, A Statement by the Centers for Disease Control - October 1991, U.S. Department of Health and Human Services, Public Health Service.

4 Toxicological Profile for Lead, Update, U.S. Department of Health and Human Services, Public Health Service, Agency for Toxic Substances and Disease Registry, April 1993.

5. Robert L. Bornschein Department of Environmental Health, University of Cincinnati, EPA Science Advisory Board, November 7, 1991.

Omaha Lead Site Investigation
Residences - Overall
XRF Lead Concentrations in Soil*



LEGEND

Yard	Play Area	Garden	
■	▲	●	0 - 399 mg/Kg Lead Concentrations
□	△	○	400 - 799 mg/Kg Lead Concentrations
□	△	◐	800 - 1199 mg/Kg Lead Concentrations
■	▲	●	1200 + mg/Kg Lead Concentrations

Roads
Highways
State Line
Mile Radius from Site Center

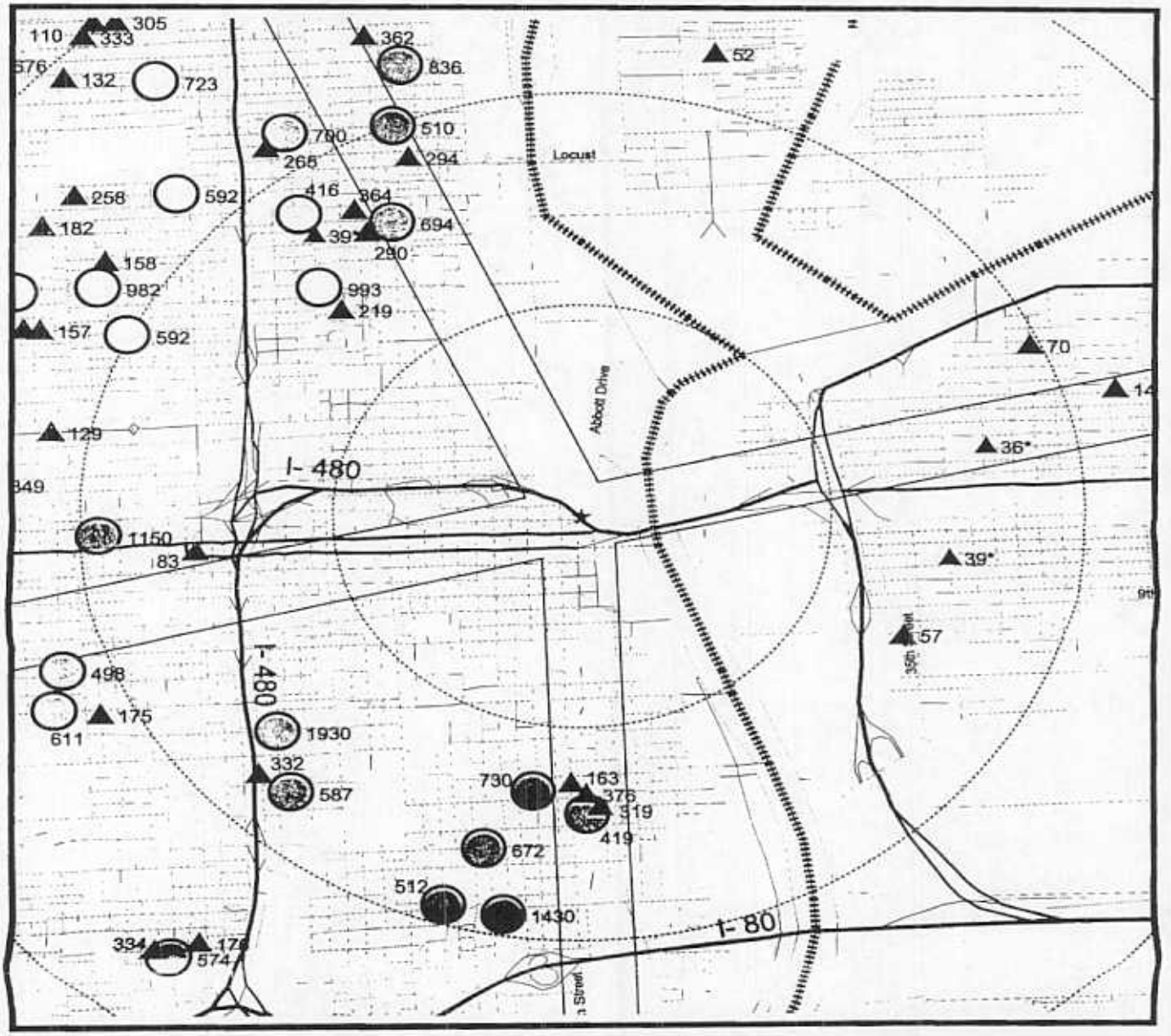
*Samples shown represent the highest nonfoundation lead concentration detected among quadrants, play areas and gardens at each property.

N

0 1 Miles

Date of Map: November 3, 1999
Compiled from data taken in field from March 22, 1999 to July 15, 1999

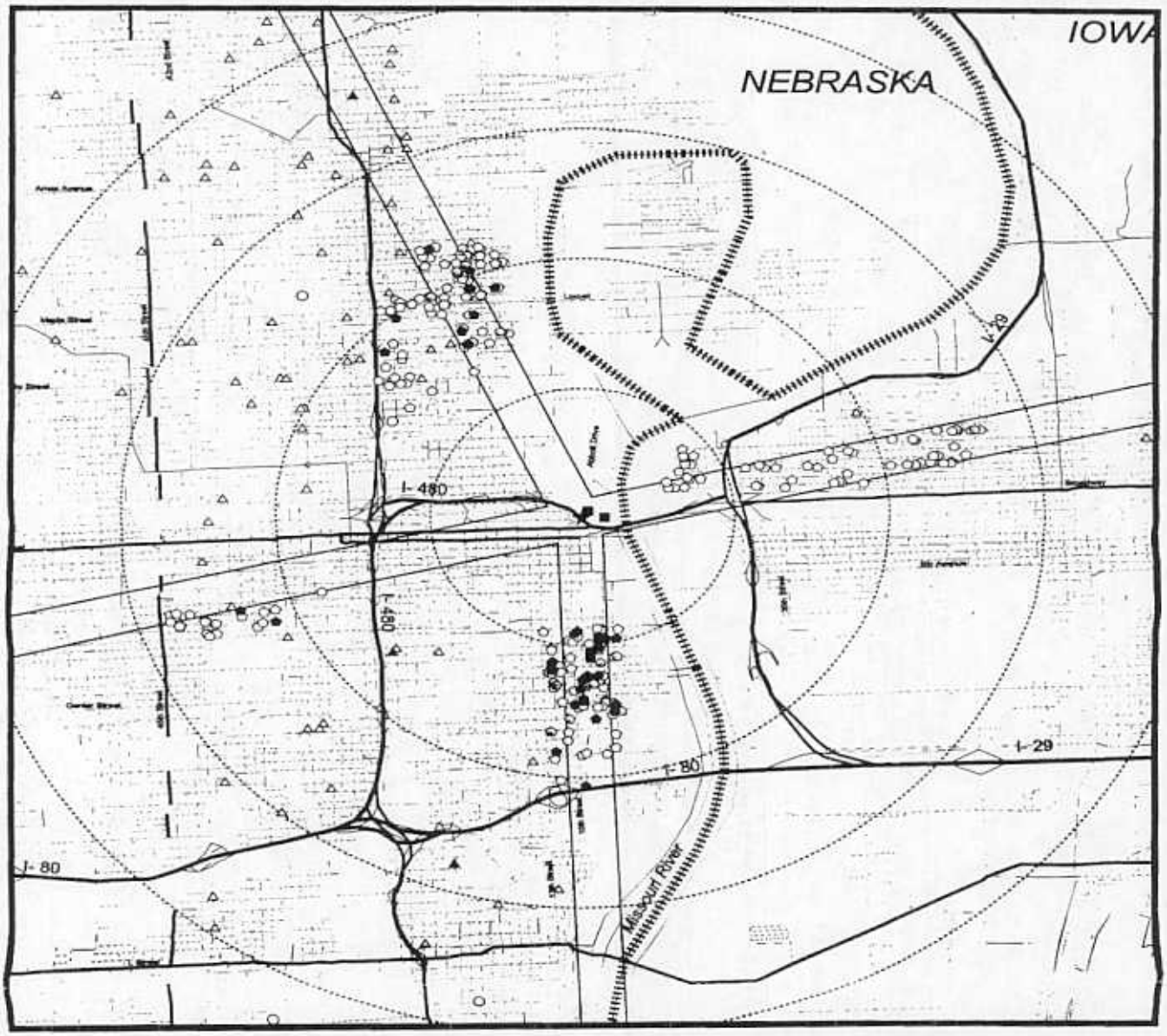
Omaha Lead Site Investigation
Child Care Centers
Lead Concentration in Soil (Quadrant Samples)



LEGEND

- ▲ 0 - 399 mg/kg Lead Concentrations (* Indicates "non-detect" level)
- ● 400 - 2499 mg/kg Lead Concentrations
- Roads
- Highways
- Miles Radius from Site Center

Omaha Lead Site Investigation
All Property Types
Confirmatory Sample Data for Lead



LEGEND

Residential | Old Ore | Commercial | Industrial

- 0 - 399 mg/Kg Lead Concentrations
- 400 - 799 mg/Kg Lead Concentrations
- 800 - 1199 mg/Kg Lead Concentrations
- 1200 - 2499 mg/Kg Lead Concentrations
- 2500 + mg/Kg Lead Concentrations

- Roads
- Highways
- State Line
- Mile Radius from Site Center

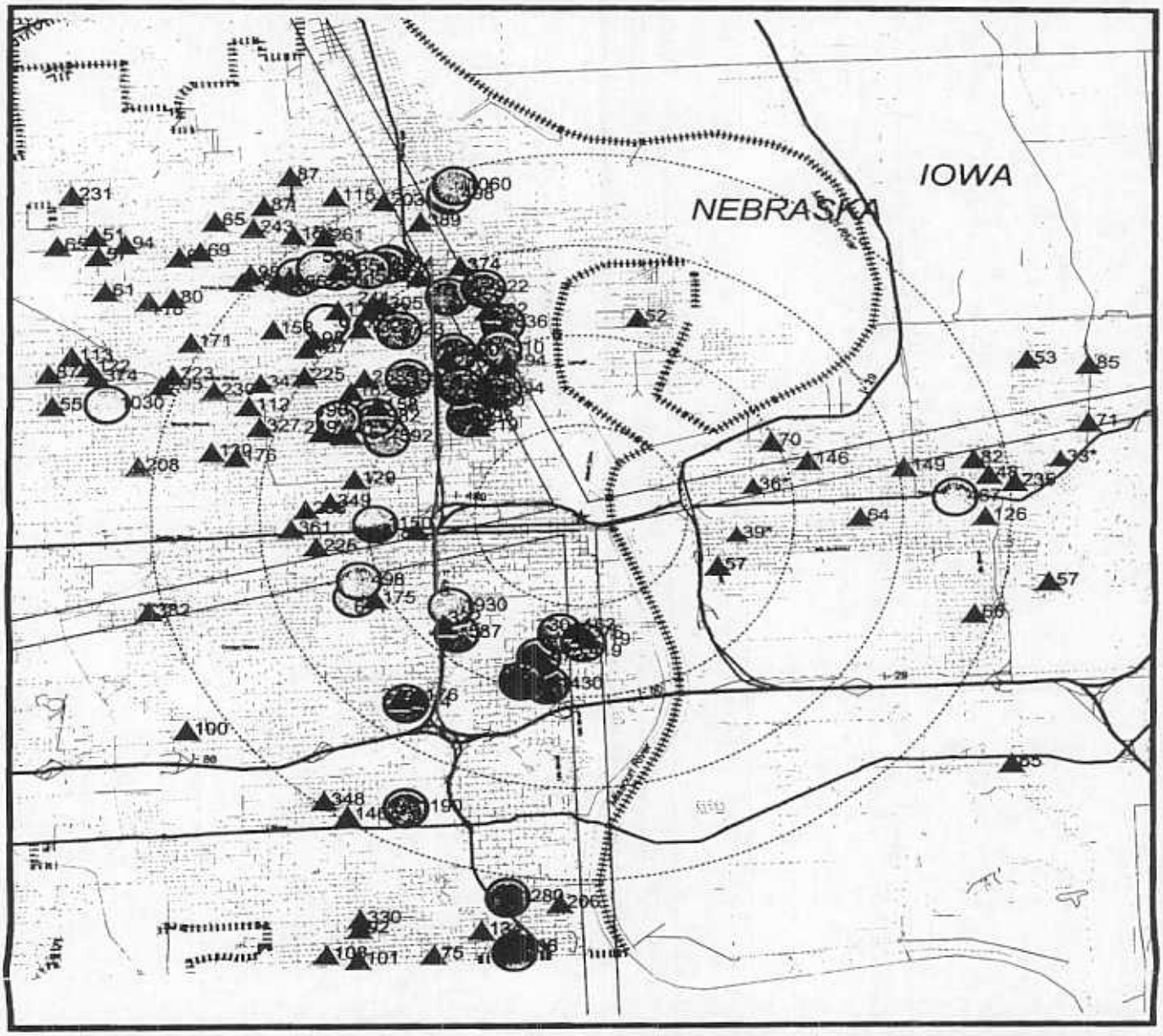
Results shown are based on highest nonfoundation lead concentration at each property.

N

0 1 Miles

Date of Map: October 20, 1998
Compiled from data taken in field from March 25, 1998 to August 23, 1998

Omaha Lead Site Investigation
Child Care Centers
Lead Concentration in Soil (Quadrant Samples)



LEGEND

- ▲ 0 - 399 mg/kg Lead Concentrations (* indicates "non-detect" level)
- ⊕ 400 - 2499 mg/kg Lead Concentrations
- Roads
- Highways
- Mile Radius from Site Center

N

0 — 1 Miles

HEALTH CONSULTATION

Evaluation of the U.S. Environmental Protection Agency (EPA)
Proposed Soil Excavation Plan for the Omaha Lead Refinery Site
Omaha Lead Refinery
Omaha, Douglas County, Nebraska
EPA Facility No. NESFN0703481

Prepared by:

US Department of Health and Human Services
Agency for Toxic Substances and Disease Registry
Division of Health Assessment and Consultation
Atlanta, Georgia 30333

Statement of Issues and Finding

Region 7 of the U.S. Environmental Protection Agency (EPA) has requested the written concurrence of the Agency for Toxic Substances and Disease Registry (ATSDR) on their proposed soil excavation plan for the Omaha Lead Refinery National Priorities List (NPL) site in Omaha, Nebraska. ATSDR does not approve remediation actions for a contaminated site; however, given site-specific information, we will indicate whether we conclude that a proposed site-specific remedial action would be protective of public health. This decision is specific for the Omaha Lead site and is not applicable to other sites. EPA's proposed excavation actions include the following:

1. Establish a surface soil action and cleanup level of 400 parts per million (ppm) lead. All portions of a yard exceeding 400 ppm would be excavated to a maximum depth of 12 inches.
2. If the lead concentrations at 12 inches below the surface are less than 1,200 ppm the excavated will be covered with 12 inches of clean soil.
3. If the soil lead level at 12 inches below the surface is 1,200 ppm and **or** greater, heavy plastic construction fencing would be placed in the bottom of the excavation then covered with 12 inches of fill.
4. Contaminated vacant lots, parks, school yards, green spaces, etc. would follow the same rules as above, except each property where a barrier is placed would be reported to the City of Omaha for inclusion in an institutional controls program.
5. Areas of existing vegetable gardens with surface soil greater than 400 ppm would be excavated until soil lead levels are below 400 ppm or to a maximum depth of 24 inches. An alternative to this, would involve excavating the garden area to 12 inches, then constructing a 12 inch raised bed in the garden, for a total of 24 inches of clean soil.

Except for the installation of new gardens or lawns, ATSDR agrees that EPA's proposed soil excavation plan for the Omaha Lead Refinery site would be protective of public health. ATSDR suggests that an easily accessible informational database and an educational program be developed a way to deal with this exception.

Background

The Omaha Lead site includes residential properties, childcare facilities, schools, and other properties in the city of Omaha, Douglas County, Nebraska [1]. Those properties have been contaminated with lead from air emissions from lead refining operations and other sources. The site area covers about 8,840 acres. It roughly extends south from Ames Avenue to L Street and eastward from 45th Street to the Missouri River, excluding the central business district. ATSDR's evaluation of the 2000 Census data indicates that about 86,000 residents live within the identified site area. Nine thousand seven hundred of these are children 6 and younger.

The American Smelting and Refining Company (ASARCO) operated a lead refinery on the west bank of the Missouri River in downtown Omaha from the early 1870s [1,2]. The company closed the 23-acre refinery site in 1997. ASARCO is considered to have been the primary source for the soil contamination in the Omaha Lead initial site investigation area. Other sources of lead

contamination may include lead-based paint and lead deposited from automobiles that used leaded gasoline in the past.

EPA started sampling the area potentially affected by the Omaha Lead site in 1999 and through 2003 has sampled 15,191 properties in Omaha and Council Bluffs [3]. At most of these properties, a minimum of five samples were collected [2]. Four of those soil samples were collected far enough from the house to avoid likely contamination by lead-based paint from the house [4]. The fifth soil sample was collected at the drip line, which is soil within 3 feet of the house to evaluate whether there is the lead in soil from peeling lead-based paint on the house. All these samples were analyzed for lead using x-ray fluorescence (XRF). XRF allows samples to be analyzed in the field. Portions of about 10% of the samples underwent laboratory analysis to validate the XRF results. The laboratory analysis used EPA methods 3010 and 6010 [5]. Over 6,800 (42%) of the properties sampled had at least one yard sample with a soil lead level of 400 ppm or greater.

Overview of the Proposed Plan

EPA is finalizing the Feasibility Study for the Omaha Lead Site and preparing the Proposed Plan to document the preferred cleanup action for lead contaminated soils at residential type properties.[1] In sampling over 15,000 properties in or near the site area, EPA has found that lead is located in the top 2 - 12 inches of soil at most properties. However, some properties contain lead at greater depths. The following is a proposal that EPA would like to include in the Proposed Plan for the excavation of soil at the Site. EPA requests written concurrence from ATSDR on this method before finalizing the plan. The excavation actions would include the following:

- Establish a surface soil action and cleanup level of 400 ppm lead. All portions of a yard exceeding 400 ppm would be excavated to a maximum depth of 12 inches. If soil concentrations below 400 ppm are achieved at a depth of less than 400 ppm, the excavation would stop in that area.

- Areas of existing vegetable gardens with surface soil greater than 400 ppm would be excavated until soil lead levels are below 400 ppm or to a maximum depth of 24 inches. An alternative option, and one that may be preferred would involve excavating the garden area to 12 inches, then constructing a 12 inch raised bed in the garden, for a total of 24 inches of clean soil.

- Once the yard soil has been excavated to a depth of 12 inches, soil in the bottom of the excavation will be sampled. EPA would consider that any soil containing lead concentrations less than 1,200 ppm (3 times the action level) will not present a significant risk once covered with 12 inches of clean soil, and the yard would simply be backfilled. For reference, EPA Headquarters allow Regions the flexibility to select cleanup levels for lead from 400 ppm to 1,200 ppm without HQ consultation. The IEUBK will predict a 1,200 ppm cleanup level for lead using the least conservative, yet defensible values for

[1] This description of EPA's excavation plan was adapted from a email dated 5/18/2004 to Sue Casteel, ATSDR Region 7, from D. Mark Doolan, EPA Region 7 requesting ATSDR's assistance and summarizing the plan.

each model parameter. Additionally EPA has excepted 1,200 ppm lead in surface soil as a standard trigger level for conducting time-critical removal actions (in other words, lead levels below 1,200 ppm do not warrant a time-critical removal action).

- For areas of the yard exceeding 1,200 ppm lead, heavy plastic construction fencing would be placed in the bottom of the excavation as a visible/physical barrier prior to placing the 12 inches of clean backfill. Drip zones (within 3 feet of a structure) of the yard would be treated the same as the general yard areas. All yards where barriers are placed will be reported to the City of Omaha, where they would be tracked under the building/construction permit system. Residents planning home expansion, or other major yard disturbances/excavation, would be required to safely address contaminated soil.

- Excavated vacant lots, parks, school yards, green spaces, etc. would follow the same rules as above, where heavy plastic construction fence would be placed in the bottom of the excavation if the soil exceeds 1,200 ppm lead. However, each property where barrier is placed would be reported to the City of Omaha for inclusion in the institutional controls program. EPA, through discussion with the City, anticipates that Omaha will track these properties through their building permit system to insure proper development in the future to address the remaining contaminated soil if excavated during construction/development of the property.

Analysis

Here is our analysis of the components of EPA's proposed soil excavation plan for residential area soil in the Omaha Lead site area.

1. *Establish a surface soil action and cleanup level of 400 ppm lead then excavate all portions of a yard where the soil lead exceeds 400 ppm down to a maximum depth of 12 inches.*

   EPA seeks to limit the risk that children will have blood lead concentrations above 10 micrograms per deciliter (µg/dL) [6]. They recommend "that a soil lead concentration be determined so that a typical child or group of children exposed to lead at this level would have an estimated risk of no more than 5% of exceeding a blood lead level of 10 µg/dL" [7]. Using default inputs, the IEUBK model identifies 400 ppm as the soil lead concentration where 5% of the children would have blood lead levels about 10 µg/dL.

   Although, the IEUBK model tends to overestimate the association of blood lead levels with respect to soil levels (alone), ATSDR utilizes its results to ensure the protection of children who may have other lead exposures. Therefore, ATSDR considers it prudent to prevent exposures to soil with lead concentrations above 400 ppm

2. *If the lead concentrations at 12 inches below the surface are less than 1,200 ppm the excavated will be covered with 12 inches of clean soil.*

   The underlying premise of this component of EPA's plan is that 12 inches of clean soil

on top of soil concentrations of no more than 1,200 ppm would insure that soil lead levels at the surface would never exceed 400 ppm. EPA is, therefore, assuming that any disturbance of the soil would result in no more than 1 part of contaminated soil being mixed with at least 2 parts of clean soil. Disturbances could include installing or repairing water, sewer, or natural gas lines; underground electrical, T.V., or phone cables; fence and mail box posts; basketball poles; and similar activities. It also could include planting trees or shrubs. For these sorts of disturbances, EPA's underlying premise seems reasonable and would be protective of public health.

However, this premise might not be reasonable if a resident decided to install a new garden or lawn and turned the soil using a power tiller. A possible way to deal with this situation would be to create a database which could be accessed at Omaha city offices or online that would permit residents to discover whether their lot had been tested or cleaned up. This database could be designed so that a resident could be made aware whether there were still elevated soil lead levels below grade. In conjunction with this, an education program should be developed to inform residents about the clean up.

3. *If the soil lead level at 12 inches below the surface is 1,200 ppm and greater, heavy plastic construction fencing would be placed in the bottom of the excavation then covered with 12 inches of fill.*

   This approach would be protective of public health as long as residents had a reasonable way to find out the significance of the barrier. The database suggested in number 2 could be one way to accomplish this.

4. *Contaminated vacant lots, parks, school yards, green spaces, etc. would follow the same rules as above, except each property where a barrier is placed would be reported to the City of Omaha for inclusion in an institutional controls program.*

   This approach would also be protective of public health. It is suggested that information on these properties on the informational database described previously.

5. *Areas of existing vegetable gardens with surface soil greater than 400 ppm would be excavated until soil lead levels are below 400 ppm or to a maximum depth of 24 inches. An alternative to this, would involve excavating the garden area to 12 inches, then constructing a 12 inch raised bed in the garden, for a total of 24 inches of clean soil.*

   Covering an existing garden area with 24 inches of clean fill should be protective of public health.

Assumptions and Limitations

The assumptions and limitations of this health consultation include

- That the soil used as clean fill would have lead levels at or near the background soil lead concentration of 26 ppm [8];
- That determination of the soil lead level at the bottom of an excavated area follow EPA

protocol and procedures for determining contaminant levels for a specific area.

- That the 400 and 1,200 ppm concentrations are the 95% confidence levels for those levels not the actual levels.
- That the site area will not undergo any development or building activity in which the soil is graded off in distinct layers without being aware of the presence of lead-contaminated soil below grade.

Conclusion

Except for the installation of new gardens or lawns, ATSDR agrees that EPA's proposed soil excavation plan for the Omaha Lead Refinery site would be protective of public health.

Recommendation

ATSDR recommends that an easily accessible information database and an education program be developed as a way to deal with installation of new gardens or lawns by residents and also as a way to provide information on the excavation and other remediation activities.

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Appendix F
In Vitro Bioassay Report

Laboratory Report: Results and QA/QC For In Vitro Bioassay Results using the Relative Bioavailability Leaching Procedure (RBLP)

Omaha Lead Site

For
USEPA Region 7

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1.0 Introduction

In February, 2004 Black and Vetch, Inc., on behalf of U.S. Environmental Protection Agency (USEPA) shipped the Laboratory for Environmental and Geological Studies (LEGS), at the University of Colorado soils from the Omaha Lead Site to undertake a bioavailability study. In response to this an in vitro bioassay was conducted to determine relative lead bioavailability . Samples were acquired from the community by representatives of Black and Vetch on behalf of the USEPA. Results of that study are summarized in Table 1.1 and all raw data are supplied.

In addition, a set of 61 samples from the EPA speciation report entitled "THE SOURCE OF ANOMALOUS LEAD CONCENTRATIONS IN SOILS FROM THE OMAHA COMMUNITY--- OMAHA, NEBRASKA, September 22, 2002 are included in Table 1. 2 to provide a more comprehensive estimate of relative bioavailability across the site.

TABLE 1. Preliminary Summary Of In Vitro Bioassay Results

Sample	ID	Pb in bulk soil mg/kg	mass soil (g)	calc Pb #1	ICP Pb (mg/l)	solution amt (l)	% Relative Pb Bioavailability
13271		1303.286	1.00518	1.31	12.12818	0.1	93
18343		664.6751	1.00613	0.67	5.17	0.1	77
22258		858.0319	1.00652	0.86	6.421	0.1	74
22412		1172.359	1.0059	1.18	11.343	0.1	96
29478		259.2703	1.00657	0.26	2.008	0.1	77
33449		1114.666	1.00037	1.12	9.888775	0.1	89
34544		1432.589	1.0035	1.44	12.07975	0.1	84
36276		206.2425	1.00811	0.21	1.510855	0.1	73
37666		697.0887	1.00763	0.70	5.618096	0.1	80
38573		1362.08	1.00085	1.36	10.53043	0.1	77
38775		860.9752	1.01228	0.87	6.82711	0.1	78
40182		498.2988	1.00679	0.50	3.50987	0.1	70
40299		929.7609	1.00629	0.94	7.451902	0.1	80
41449		964.4801	1.00741	0.97	8.420272	0.1	87
41488		465.823	1.00255	0.47	3.844448	0.1	82
44481		85.14883	1.00933	0.09	0.808408	0.1	94
44837		509.5865	1.00546	0.51	4.312079	0.1	84
47483		605.1829	0.9607	0.58	4.615424	0.1	79
47618		384.7143	1.524	0.59	2.91381	0.1	50
QA/QC							
blank-proc					0.003887		
blank-spk(10 ppm)					9.6669		
blank-proc					0.003456		
blank-spk(10 ppm)					9.7445		
47618-spk(10ppm)			1.00611		12.57789		
47483-AD		605.1829	0.9607	0.58	4.58444	0.1	79
44481 spk(10ppm)			1.00276		10.40966		
29478-dup		259.2703	1.01052	0.26	2.015063	0.1	77
22258-DUP		858.0319	1.00435	0.86	6.548	0.1	76
NIST2710		5508.907	1.00944	5.56	43.16877	0.1	78

Table 1.2. Relative Bioavailability Estimates for Omaha Samples.

Run at 1.5pH for 1 hr @ 39*c

Lab ID.	Sample ID	Pb in bulk soil (mg/kg)	mass soil (g)	calc Pb #1	ICP Pb (mg/l)	solution amt (l)	% Pb RBA
Plant							
OM-1	AZZSGPZA12565	1287	1.00513	1.29	9.747	0.1	75
OM-2	AZZSGPZA12566	144079	1.0046	144.74	1100.08	0.1	76
OM-3	AZZSGPZA12568	4273	1.00384	4.29	31.829	0.1	74
OM-4	AZASGPZZ12553	45337	1.00731	45.67	367.6	0.1	80
OM-5	ASASGPZZ12544	50036	1.00747	50.41	430.68	0.1	85
OM-6	AZCESGPZZ12552	13970	1.00634	14.06	97.67	0.1	69
OM-7	AZZSGPZA12569	4733	0.98423	4.66	35.664	0.1	77
OM-8	AZASGPZZ12557	103509	1.00971	104.51	844.12	0.1	81
OM-9	AZZSGPZA12563	38260	0.99034	37.89	321.42	0.1	85
OM-10	AZCESPGZZ12551	7129	1.00357	7.15	56.409	0.1	79
OM-11	AZCESGPZZ12550	61268	1.00783	61.75	456.42	0.1	74
OM-12	AZZSGPZA12582	106665	1.00207	106.89	874.02	0.1	82
OM-13	AZZSGPZA12564	691	1.00543	0.69	5.455	0.1	79
OM-14	AZCESGPZZ12548	14407	1.00486	14.48	106.40	0.1	73
OM-15	AZDSGPZZ12547	22088	1.00384	22.17	164.16	0.1	74
OM-16	AZZSGPZA12581	39190	1.00333	39.32	296.36	0.1	75
OM-17	AZZSGPZA12574	197206	1.0062	198.43	1043.7	0.1	53
OM-18	AZZSGPZA12573	96181	1.00832	96.98	769.88	0.1	79
OM-19	AZZSGPZA12571	5109	1.00265	5.12	46.78	0.1	91
OM-20	AZCSGPZZ12544	7958	1.00558	8.00	56.38	0.1	70
OM-21	AZZSGPZA12576	4201	1.00644	4.23	37.24	0.1	88
OM-22	AZZSGPZA12575	42220	1.00736	42.53	356.84	0.1	84
OM-23	AZCSSGPZZ12543	8601	1.0089	8.68	58.245	0.1	67
OM-24	AZDSGPZZ12541	528	1.00782	0.53	5.647	0.1	106
OM-25	AZCNSGPZZ12542	52961	1.00557	53.26	416.267	0.1	78
Community soils							
5083DZ		2389	1.00242	2.39	23.199	0.1	97
5083 B1		2220	1.00089	2.22	21.358	0.1	96
5082 B1		808	1.00187	0.81	7.251	0.1	90
5080 B2		567	1.00576	0.57	4.65	0.1	82
5048 B2		514	1.00657	0.52	3.921	0.1	76
5079 B2		2010	1.0033	2.02	15.405	0.1	76
5081 F2		693	1.0002	0.69	6.024	0.1	87
5046 DZ		1973.744	1.00357	1.98	17.71	0.1	89
5046 B1		394.23062	1.0022	0.40	3.124	0.1	79
5063 F2		1184.4449	1.0014	1.19	10.44	0.1	88
5061 F2		568.39369	1.0058	0.57	4.69	0.1	82
5058 F2		586.06163	1.0012	0.59	4.90	0.1	84
5044 B1		432.9642	1.0048	0.44	3.62	0.1	83
5055 F1		630.97309	1.0037	0.63	5.17	0.1	82
5088 F2		636.87574	1.0011	0.64	5.18	0.1	81
5034 B1		490.73448	1.0036	0.49	4.50	0.1	91
5017 F1		944.56151	1.0002	0.94	8.10	0.1	86
5086 B1		986	1.0017	0.99	8.80	0.1	89
5087 G		978.31268	1.0065	0.98	7.91	0.1	80
5060 B2		1939.596	1.0002	1.94	17.36	0.1	89
5020 B2		805.85158	1.0073	0.81	6.44	0.1	79
5098 B2		62.707758	1.0062	0.06	0.41	0.1	64
5008 B1		647.10847	1.0040	0.65	5.69	0.1	88
5056 F2		878.71722	0.9988	0.88	7.98	0.1	91
5030 B1		131.19293	1.0065	0.13	1.01	0.1	76
5007 F2		520.6223	1.0007	0.52	4.54	0.1	87
5059 B1		793.9715	1.0064	0.80	7.4	0.1	93
5041 B1		124.74159	1.0068	0.13	1.1	0.1	87
Gould "Park"							
	Loc#1	5546	1.0000	5.55	42.6	0.1	77
	Loc#2	8219	1.0028	8.24	62.8	0.1	76
	Loc#3 6-9"	3645	1.0051	3.66	26.7	0.1	73
	Loc#3 10-15'	599	1.0038	0.60	3.0	0.1	51
	Loc#4	2508	1.0018	2.51	19.1	0.1	76
	Loc#5 10-12'	16636	1.0057	16.73	144.7	0.1	86
	Loc#7 5-8'	4368	1.00	4.38	32.0	0.1	73
	Loc#7 9-11'	1353	1.00157	1.36	9.2	0.1	68
QA/QC							
BLANK					0.082		
BLANK					0.029		
BLANK					0.022		
BLANK					0.006		
BLANK					0.048		
BLANK					0.038		
BLANK					0.014		
OM-4-AD		45337	1.00731	45.67	377.12	0.1	83
5007 F2-AD		520.6223	1.0007	0.52	4.51	0.1	87
OM-6-DUP		13970	1.00457	14.03	105.112	0.1	75
OM-24-DUP		528	1.00392	0.53	5.522	0.1	104
5020 B2-DUP		805.85158	1.0013	0.81	6.59	0.1	82
5020 B2-DUP		805.85158	1.0013	0.81	6.44	0.1	80
5046 B1-DUP		394.23062	1.00501	0.40	3.154	0.1	80
5046 B1-DUP		394.23062	1.00501	0.40	3.29	0.1	83
5020 B2-DUP-spike-20ppm					27.30		
5046 B1-DUP-spike-10ppm					13.79		
BLANK-spike-10ppm					11.301		

AD= Analytical duplicate

2.0 In Vitro Standard Operating Procedure

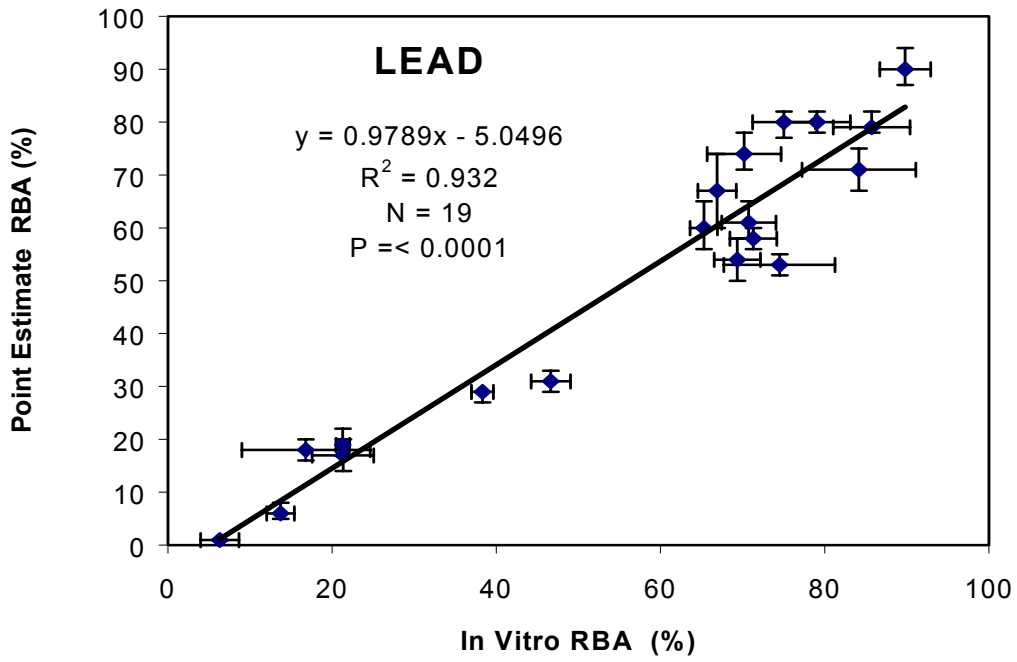
2.1 Background

An increasingly important property of contaminated media found at environmental sites is the bioavailabilty of individual contaminants. Bioavailability is the fraction of a contaminant that is absorbed by an organism via a specific exposure route. Many animal studies have been conducted to experimentally determine oral bioavailability of individual metals, particularly lead and arsenic. During the period 1989-97, a juvenile swine model developed by USEPA Region VIII was used to predict the relative bioavailability of lead and arsenic in approximately 20 substrates (Weis and LaVelle 1991; Weis et al. 1994). The bioavailability determined was relative to that of a soluble salt (i.e. lead acetate trihydrate). The tested media had a wide range of mineralogy, and produced a range of lead and arsenic bioavailabilty values. In addition to the swine studies, other animal models (e.g. rats and monkeys) have been used for measuring the bioavailabilty of lead and arsenic from soils and paint.

Several researchers have developed in vitro tests to measure the fraction of a chemical solubilized from a soil sample under simulated gastrointestinal conditions. The in vitro tests consist of an aqueous fluid, into which the contaminant is introduced. The solution than solubilizes the media under simulated gastric conditions. Once this procedure is complete, the solution is analyzed for lead concentrations. The mass of the lead found in the filtered extract is compared to the mass introduced into the test. The fraction liberated into the aqueous phase is defined as the bioavailable fraction of lead or arsenic in that media. To date, for lead-bearing materials tested in the USEPA swine studies, this in vitro assay has correlated well ($R^2 = 0.93$, $p = .0001$), Figure 2.1.1, with relative bioavailability. Arsenic results are still in review and data should be considered for screening purposes only at this time.

Further background on the development and validation of in vitro test systems for estimating lead and arsenic bioaccessibility can be found in; Ruby et al. (1993, 1996); Medlin (1972); Medlin and Drexler, 1997; Drexler, 1998; and Drexler et al., 2004. Background information for the USEPA swine studies may be found in (Weis and LaVelle, 1991; Weis et al. 1994; and Casteel et al., 1997) and in the USEPA Region VIII Center in Denver, Colorado.

Figure 2.1.1


LEAD
y = 0.9789x - 5.0496
R2 = 0.932
N = 19
P =< 0.0001
Point Estimate RBA (%)
In Vitro RBA (%)
0
10
20
30
40
50
60
70
80
90
100
0
20
40
60
80
100

2.2 Sample Preparation

All media were prepared for the in vitro assay by first drying (<40 °C) all samples and then sieving to < 250 m. The <250 micron size fraction was used because this particle size is representative of that which adheres to children's hands. Samples were thoroughly mixed prior to use to ensure homogenization. Samples were archived after the study completion and retained for further analysis for a period of six months unless otherwise requested. Prior to obtaining a subsample for testing in this procedure, each sample was homogenized in its sample container by end-over-end mixing.

2.3 Apparatus and Materials

2.3.1 Equipment

The main piece of equipment required for this procedure is the extraction device. The device holds ten; 125 ml, wide-mouth, high-density polyethylene (HDPE) bottles. These were rotated within a Plexiglas tank by a TCLP extractor motor with a modified flywheel. The water bath must be filled such that the extraction bottles remained immersed. Temperature in the water bath was maintained at 37 +/- 2 °C using an immersion circulator heater (Fisher Scientific Model 730). The 125-ml HDPE bottles had an airtight screw-cap seal (Fisher Scientific #02-893-5C), and care was taken to ensure that the bottles did not leak during the extraction procedure.

2.3.2 Standards and Reagents

The leaching procedure for this method used an aqueous extraction fluid at a pH value of 1.5. The pH 1.5 fluid was prepared as follows:

Two liters of aqueous extraction fluid were prepared using ASTM Type II deionized (DI) water. The buffer was made up in the following manner. To 1.9 L of DI water, 60.06 g glycine (free base, reagent grade), were added bringing the solution volume to 2 L (0.4M glycine). The mixture was placed in the water bath at 37 °C until the extraction fluid reached 37 °C. The pH meter (using both a 2.0 and a 4.0 pH buffer for standardization) was standardized using temperature compensation at 37 °C or buffers maintained at 37 °C in the water bath. Trace metal grade, concentrated hydrochloric acid (12.1N) was added until the solution pH reached a value of 1.50 +/_ 0.05 (approximately 60 mL).

All reagents were free of lead and arseic, and the final fluid was tested to confirm that lead and arsenic concentrations were less than one-fourth the project required detection limit (PRDL) of 100 (less than 25 µg/L lead 5µg/L arsenic) in the final fluid.

Cleanliness of all materials used to prepare and/or store the extraction fluid and buffer is essential. All glassware and equipment used to prepare standards and reagents were properly cleaned, acid washed, and finally, triple-rinsed with deionized water prior to use. When possible, disposable "poly" tubes were used.

2.4 Leaching Procedure

100 +/- 0.5 mL of the extraction fluid was measured, using a graduated cylinder, and transfered to a 125 mL wide-mouth HPDE bottle. 1.00 +/- 0.5 g of test substrate (<250 m) was added to the bottle, ensuring that static electricity did not cause soil particles to adhere to the lip or outside threads of the bottle. If necessary, an antistatic brush was used to eliminate static electricity prior to adding the media. The mass of substrate added to the bottle was recorded. Each bottle top was hand tightened and shaken/inverted to ensure that no leakage occurred, and that no media was caked on the bottom of the bottle.

The bottle was placed into the modified TCLP extractor, making sure each bottle was secure and the lid(s) were tightly fastened. The extractor was filled with 125 mL bottles containing test material or QA samples.

The temperature of the water bath was 37 +/- 2 °C.

The extractor was turned on and rotated end-over-end at 30 +/- 2 rpm for 1 hour. The start time of rotation was recorded.

When extraction (rotation) was complete, the extractor rotation was immediately stopped and the bottles were removed. They were then wiped dry and placed upright on the bench top.

Extract was removed directly from the reaction vessel into a disposable 20 cc syringe with a Luer-Lok attachment. A 0.45 µm cellulose acetate disk filter (25 mm diameter) was attached to the syringe, and the extract was filtered into a clean 15 mL polypropylene centrifuge tube (labeled with sample ID) or other appropriate sample vial for analysis.

The time that the extract was filtered was recorded (i.e. extraction was stopped). If the total time elapsed was greater than 1 hour 30 minutes, the test was repeated.

The pH of the remaining fluid was measured in the extraction bottle. If the fluid pH was not within +/- 0.5 pH units of the starting pH, the test was discarded and the sample reanalyzed as follows:

If the pH had changed more than 0.5 units, the test was re-run in an identical fashion. If the second test also resulted in a decrease in pH of greater than 0.5 s.u. this was recorded, and the extract filtered for analysis. If the pH had increased by 0.5 s.u. or more, the test was repeated, but the extractor stopped at specific intervals and the pH manually adjusted down to pH of 1.5 with dropwise addition of HCl (adjustments at 5, 10, 15, and 30 minutes into the extraction, and upon final removal from the water bath { 60 min}). Samples with rising pH values might better be run following the method of Medlin, 1997.

Filtered samples were stored in a refrigerator at 4 °C until analyzed. Analysis for lead and arsenic concentrations occurred within 1 week of extraction for each sample.

In general, extracts were analyzed for lead and arsenic, following EPA methods 6010B, 6020, or 7061A.

2.5 Quality Control/Quality Assurance

Quality Assurance for the extraction procedure consisted of a series of quality control samples. Controls, control limits and corrective actions are listed in Table 2.5.1 .

Table 2.5.1.

	Analysis Frequency	Control Limits	Corrective Actions
Reagent Blank	once per batch	< 25 Φg/L lead	Make new fluid and re-run all analyses.
Bottle blank	1 in 10	<50 Φg/L lead	Check calibration and re-analyze as necessary.
Blank spike*	1 in 10	85-115% recovery	Check calibration and/or source of contamination and re-analyze.
Matrix spike*	1 in 20	75-125% recovery	Flag
Duplicate sample	1 in 20	+/- 20% RPD**	Flag
Control soil***	1 in 25	+/- 10% RPD	Flag

- Spikes contained 10 mg/L lead . ** RPD= relative percent difference.
- *** The National Institute of Standards and Technology (NIST) Standard Reference Material (SRM) RPD is based upon mean RBA-lead values of 84% and 75% for MS2711 and MS2710, respectively.

3.0 Bulk Soil Analyses

Analysis of the <250 μ soil sample was carried out using Good Laboratory Practice (GLP) protocols. Samples were digested following EPA Method 3050B. Analysis of the digest was similar to EPA Methods 6020 A or B, but with somewhat reduced QA/QC. Controls, control limits and corrective actions are listed in Table 3.0.1. Initial calibration was based on a 4- point calibration curve with a minimum 0.999 R^2 value.

	Analysis Frequency	Control Limits	Corrective Actions
Method Blank	once per run	25 Φg/L lead	Check calibration and/or source of contamination and re-analyze all samples.
IVC Initial Calibration Verification	once per run	90-110% recovery	Check calibration and start run over.
Interference Check	once per run	90-110% recovery	Flag
Matrix spike*	1 in 20	75-125% recovery	Flag
CCV Continuing Calibration Verification	1 in 10	90-110% recovery	Check calibration and re-analyze preceding samples.
Duplicate sample	1 in 20	+/- 20% RPD	Flag

* Spikes contained 500 mg/L lead

4.0 Chain-of-Custody Procedures

All media once received by the Laboratory were maintained under standard chain-of-custody. Samples were maintained within secured facilities, with limited access, for 60 days post laboratories final report.

5.0 Data Handling and Verification

All sample and fluid preparation calculations and operations were recorded on data sheets. Finally, all key data were entered into EXCEL spreadsheets for final delivery and calculation of percent relative bioavailability.

6.0 Data Evaluation

Data evaluation is based on in vitro analyses from the current set of samples, not historical samples that have been added to this report for comprehensiveness. Bulk soil analyses met or exceeded all required QA/QC and therefore no corrective action was necessary. Results are summarized below.

3050B	Analysis Frequency	Control Limits	Corrective Actions
Method Blank	1 Method blank run	<3 Φg/L lead no values above limit.	None
IVC Initial Calibration Verification	once per run	99% recovery	None
Interference Check	once per run	99% recovery	None
CCV Continuing Calibration Verification	2 CCV run	98-99% recovery	None
Matrix spike	2 matrix spike run	98-99% recovery-Pb	None
Duplicate sample	2 duplicates run	3-9% RPD-Pb	None

RBLP analyses did meet all QA/QC and no corrective action is suggested.

RBLP	Analysis Frequency	Control Limits	Corrective Actions
Reagent Blank	0ne Reagent Blank	<1 Φg/L lead	None
Bottle blank	1 blank run	<1 Φg/L lead	None
Blank spike	2 blank spikes run	98-99% recovery	None
Matrix spike	2 matrix spikes run	96-97% recovery	None
Duplicate sample	2 duplicates run	1-2% RPD	None
Control soil	1 control run	4% RPD	None

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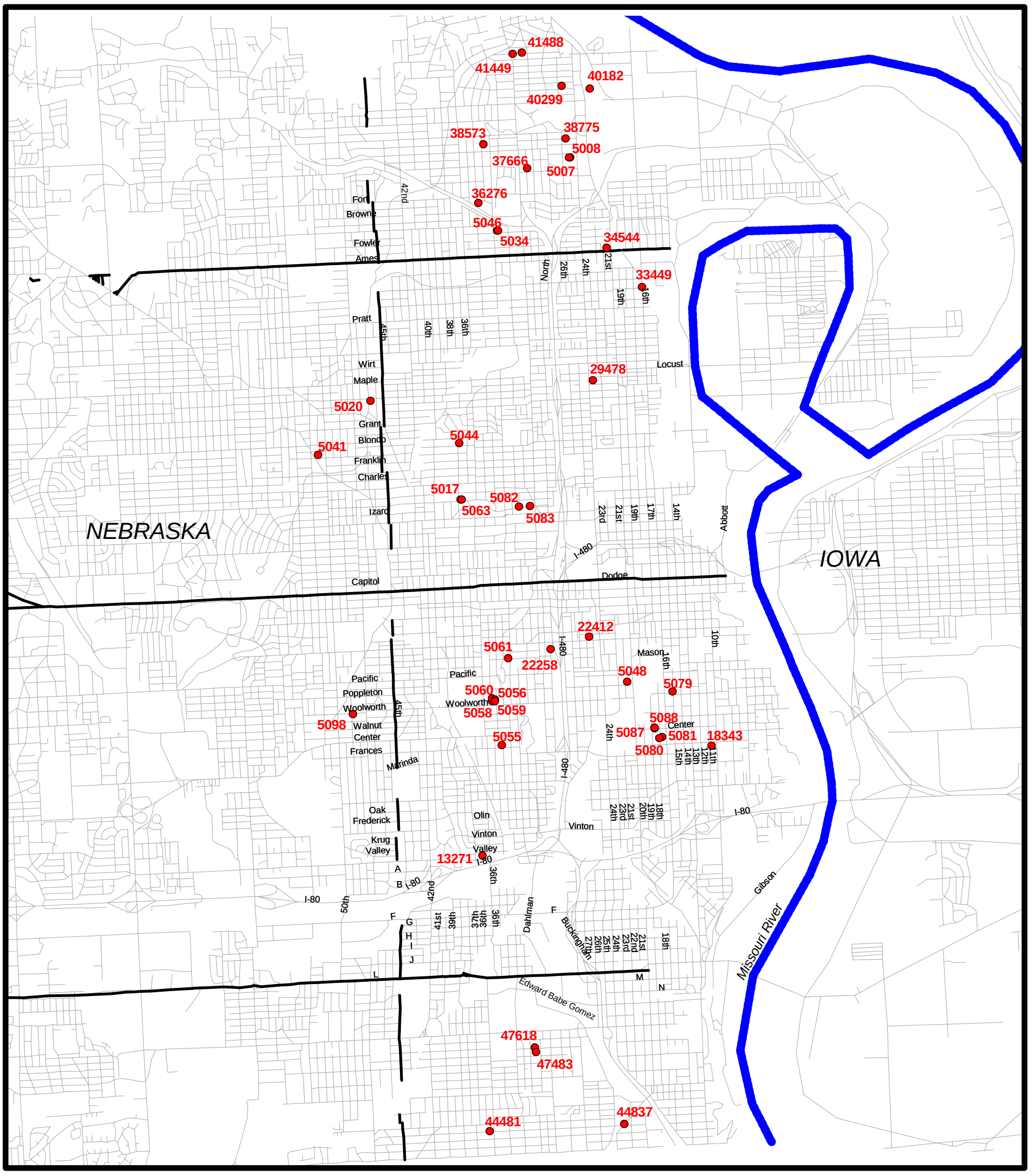
Figure 1
Omaha Lead Site
In Vitro Sample Locations



LEGEND

- In Vitro Sample
- Roads
- State Line

Resident properties for which access has been granted have been sampled.

N

1000 0 1000 2000 3000 Feet

Appendix G
Field Sampling Plans

W2500 3

Sverdrup Environmental, Inc.
4400 College Boulevard
Suite 160
Overland Park, Kansas 66211

913 663-2101
FAX: 913 663-1668

May 14, 1999

Don Bahnke
Environmental Protection Agency
Superfund Division
726 Minnesota Ave.
Kansas City, KS 66101

Re: Modifications to FSP and QAPP
for the Omaha Lead Refining Site
WA 25
Contract No. 68-W5-0014

Dear Mr. Bahnke:

Sverdrup Environmental Inc., (SvE) participated in a conference call with EPA on May 6, 1999 regarding modifications to the existing site-specific field sampling plan (FSP) and quality assurance project plan (QAPP). The following changes were agreed upon:

- Since lead and arsenic are the primary risk drivers at the site and other contaminants haven't been detected at concentrations of concern, only the cadmium radioactive source will be used during the x-ray florescence (XRF) analyses. Off-site laboratory samples will continue to be analyzed for all EPA SW-846 method 6010B analytes.

- A comparison study will be performed at 8 locations within each sampling corridor (i.e., a total of 32 locations from the east, west, north, and south corridors). The comparison study will involve the collection of one soil sample sieved twice at each sample location (i.e., sieved with a 10 or 20-mesh sieve and with a 60-mesh sieve). The results will be used to develop a ratio between the contaminant concentration results detected when using a 10 or 20-mesh sieve versus a 60-mesh sieve. Following the comparison study, the 10 or 20-mesh sieve will only be utilized if coarse grained materials are present.

- Following the comparison study, all samples may be screened using a 10 or 20-mesh sieve, if necessay, and dried only when necessary to sieve the sample. No mortar or pestal will be used to grind the sample. The sampling personnel will use their hands with nitrile gloves to help sieve the sample when necessary. When possible, a 10 or 20-mesh sieve will only be used when larger grain-sized particles are present (i.e., gravels and large sands).

- When it is necessary to dry the soil sample, the sample will be dried at a temperature no greater than 115°C in accordance with EPA guidance or dried using a microwave in accordance with the appropriate EPA guidance.

- 1-in-20 XRF samples that are sieved with a 10 or 20-mesh sieve will be sent to the off-site laboratory for confirmation. In addition, 1-in-20 XRF samples that are <u>not</u> sieved will be sent to the off-site laboratory for confirmation. Counting both sieved and unsieved samples, a total of 1-in-10 soil samples will be sent to the off-site laboratory for confirmatory analysis. Confirmatory analyses will include all EPA SW-846 method 6010B metal analytes plus mercury samples analysis detected by XRF.

- The bulk soil samples placed in the plastic Mylar cups will be sent directly to the off-site laboratory for confirmatory analyses. The plastic Mylar cups will be filled at least 2/3 full to obtain the necessary soil volume (i.e., 4 to 5 grams of soil). The plastic Mylar cups will be placed in a zip-lock bag prior to shipment to the off-site laboratory.

- A majority of the soil samples (i.e., approximately 3/4 of the total sample volume) with high XRF results (i.e., above potential site-specific action levels) will be to sent to the off-site laboratory. In order to meet this requirement, soil samples collected in zip-lock bags will be archived and kept in ice chests chilled to 4°C until the XRF results are obtained. All off-site laboratory confirmatory samples, sieved or not sieved, will be placed in Mylar cups and analyzed with the XRF analyzers before being shipped to the laboratory.

- In addition, the soil samples sent to the off-site laboratory for confirmatory analyses will be archived along with additional samples in which high metal concentrations are detected using XRF. Approximately 1 percent of the total soil samples volume collected will be archived.

These modifications are based on SvE's understanding of the agreed upon changes in the sample collection and analysis. If you have any questions, please feel free to contact me at (913) 663-2108.

Sincerely,

SVERDRUP ENVIRONMENTAL INC.

Todd Trometer, P.G.
Project Manager

S:/SvE_proj/000155/WA25/project notes/pmtt0507

FIELD SAMPLING PLAN (FSP)
OMAHA LEAD REFINING SITE INVESTIGATION
OMAHA, NEBRASKA
REVISION 1

EPA Contract No. 68-W5-0014
Work Assignment No. 025-SISI-07ZY

SVERDRUP ENVIRONMENTAL, INC.
OVERLAND PARK, KANSAS
March 22, 1999

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FIGURE

TABLE

APPENDICES

1.0 INTRODUCTION

The Region VII Environmental Protection Agency (EPA) plans to conduct sampling for metals including lead in the vicinity of the former lead smelting operations at the ASARCO facility in Omaha. This information will help evaluate whether the metals contamination is related to the former ASARCO site. The resulting data will be used to develop a Hazardous Ranking Scoring (HRS) package and for potential future remedial actions. The site investigation will be performed using the EPA integrated site assessment approach.

This plan specifies the proposed scope of work and associated procedures that will be followed to ensure that all project objectives are met and that all samples are collected, documented, and analyzed according to accepted Region VII EPA methods.

1.1 SITE DESCRIPTION

Sverdrup Environmental, Inc. has been tasked by EPA to perform a site investigation at the Omaha Lead Refining Site. In support of this effort, soil samples will be collected and analyzed using XRF. In addition, approximately 10 percent of the XRF screening samples will be analyzed by an off-site laboratory (PDP Analytical Services). Surface soil samples from yards, drip zone areas, garden areas, and play areas as well as depth samples and paint samples will be collected at approximately 240 day care centers and 960 residences and analyzed for metals.

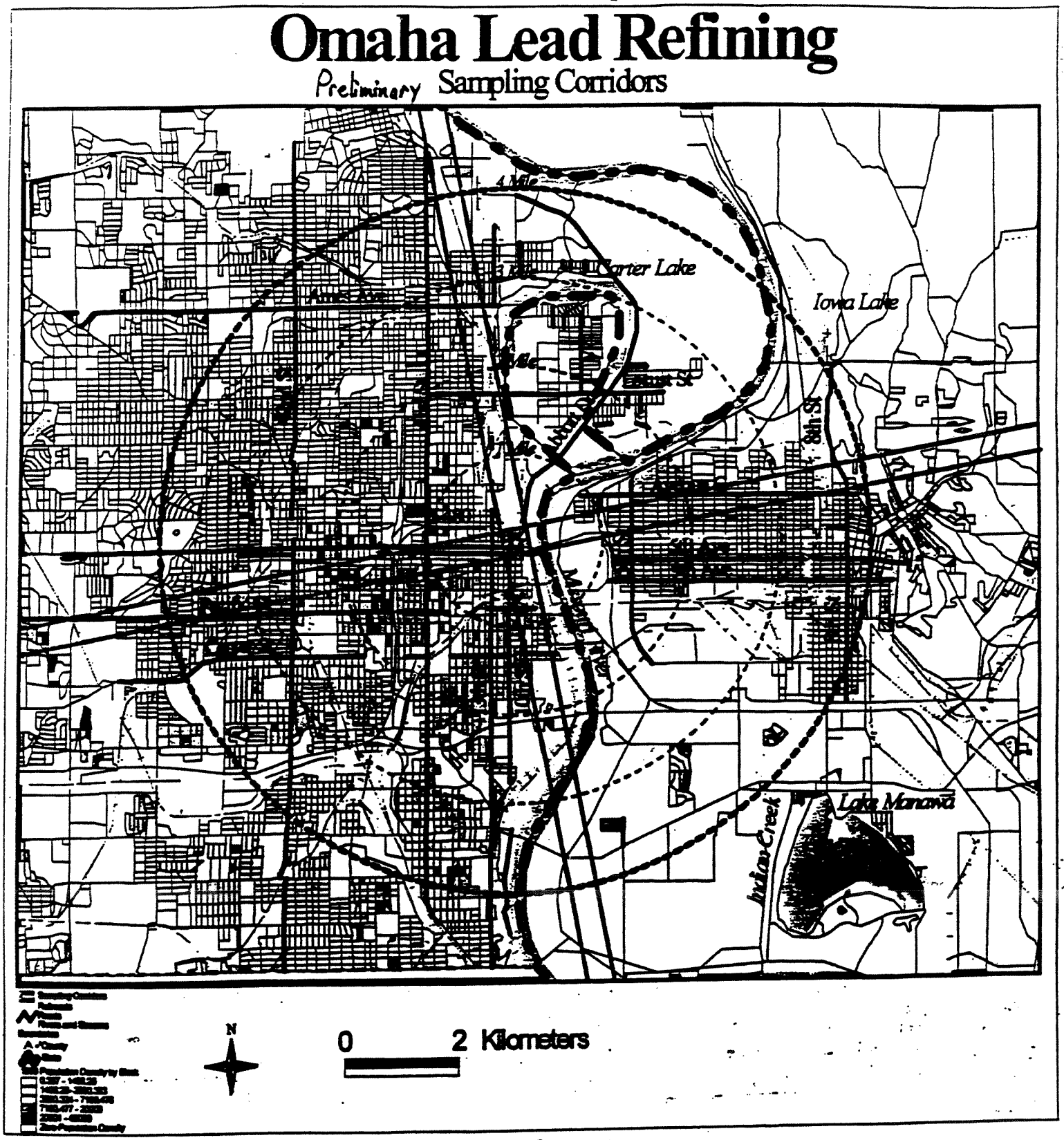
1.2 SITE HISTORY

The ASARCO Incorporated (ASARCO) facility is located on approximately 23 acres adjacent to the Missouri River at 500 Douglas Street in downtown Omaha, Nebraska (Figure 1). The facility began operations at this location in the early 1870s. The ASARCO facility was a lead refinery which processed lead bullion containing recoverable amounts of several different metals, principally gold, silver, antimony, and bismuth. Refining activities were discontinued in July 1997.

Primary operations at the facility included the refinement of lead bullion and lead drosses. This refining process used traditional pyrometallurgical processes including the addition of metallic and non-metallic compounds to molten lead to separate the lead from the other metals and remove impurities. The Omaha facility produced refined lead and such specialty metal by-products as antimony-rich lead, bismuth, dore (a silver-rich product), and antimony oxide.

Lead bullion was received at the facility and then melted in large kettles. The melted metal bullion went through a series of kettles during which it was treated and stirred, causing metals to separate. The non-lead metals were skimmed from the surface of the melted bullion in one of these kettles leaving behind a purer form of lead each time. For example, silver and gold were removed from the lead bullion by adding zinc. The zinc when added to the molten lead forms an alloy with the gold and silver called dore. The dore was extracted and further refined and shipped to another facility where it is separated into pure silver and gold. The lead when fully refined was formed into 100-pound castings or one-ton blocks for shipment to

Figure 1.2-1
Site Location Map



other industries that use lead such as automobile battery manufacturers.

The ASARCO facility is located adjacent to and on an outside bend of a meander in the Missouri River in downtown Omaha, Nebraska. A protective concrete flood wall runs the entire length of the eastern portion of the property. The wall was originally designed to control flooding from the Missouri River prior to construction of the upstream Missouri River dams. Railroad tracks run along the western edge of the property into the Union Pacific Railroad rail yard. The northern boundary of the property abuts the bank of the Burt Izard storm sewer outlet. The Heartland of America Park is located directly south of the property.

The Interstate 480 bridge crosses the Missouri River at the southern edge of the property. The elevated portion of the Abbott Drive crosses the northwest corner of the property. The only road access to the facility is by way of Douglas Avenue.

The ASARCO site is suspected of contaminating the surrounding area with lead and other metals which have been detected in residential soils surrounding the intersection of Interstate 480 and Abbott Drive in Omaha, Nebraska. The contamination may have been caused by metal processing and/or refining activities conducted at the site. This suspicion is based on several items of information which have come to EPA's attention recently. Chief among these items are the
1. discovery of lead contamination in yard soil by the Douglas County Health Department (DCHD),
2. elevated blood lead concentrations in young children measured by the DCHD, and documented
3. prior exceedences of the ambient air standard for lead in the area.

1.3 GEOLOGY/HYDROGEOLOGY no change

The ASARCO facility is located on the flood plain of the Missouri River along the west bank of the river. The area has accumulated a considerable thickness of recent and Pleistocene deposits overlying Pennsylvanian bedrock. In the flood plain, terrace deposits, flood plain alluvium, alluvial fan deposits, and slope wash are present. Upland areas consisting of loess, till and soil accumulations surround both sides of the Missouri River Valley. Large accumulations of loess have developed bluffs in the area.

Glacial and interglacial periods developed till and soil deposits in the region during the Pleistocene Epoch. The Pleistocene deposits exposed in the bluffs surrounding the site include (in order of succession) are the Fullerton Formation, Red Cloud Sand and Gravel, Kansan Till, Grand Island Formation, Sappa Formation, Crete Formation, Loveland Loess, Peorian Loess, and Bignell Loess.

Fill material and compacted top soil are likely present near the surface at the site. Below this material are alluvial sediments. Alluvial sediments deposited by the Missouri River consist of clay, silt, and gravel. The total thickness of alluvial sediments is approximately 120 feet near the site. The matrix of these sediments may be extremely heterogenous in areas with clay lenses often present. These clay lenses may impede the vertical and horizontal movement of groundwater. The alluvial aquifer is the uppermost water-bearing zone present underlying the site and is the

predominantly utilized aquifer in the area. The City of Omaha uses both surface water and groundwater for the municipal water supply. The surface water intake is located 1/2 mile from the I-680 bridge that cross the Missouri River approximately 9 miles north of the site. The municipal well field is located approximately 20 miles south of the site in the Platte River floodplain. The wells are approximately 60 feet deep and are screened in the alluvial sediments of the Platte River. Recharge by infiltration may occur in the area surrounding the site but may be limited due to the tightness of the clay present at the surface. Since the site lies along the Missouri River, recharge from the river is possible but may be limited due to the clay soils lining the river.

A pumping test performed in the alluvium near the Council Bluffs Water Works indicated that the transmissivity (T) of the aquifer is approximately 53,476 ft^2/d. A saturated thickness of 98 feet was used to calculate T. The hydraulic conductivity (K) was 546 ft/d or 1.9×10^{-1} cm/s which represents a highly conductive aquifer. Local groundwater flow is probably toward the Missouri River (i.e., west to southwest). The water table occurs approximately 22 feet below ground surface based on information obtained from a piezometer installed at the Council Bluffs Water Works located on the other side of the Missouri River.

1.4 OBJECTIVES

1.4.1 Objectives and Scope of Work

The objective of the site investigation is to determine the extent of metals contamination extending from the intersection of Interstate 480 and Abbott Drive. Initially, sampling will be conducted along axes parallel and perpendicular to prevailing winds. Additional sampling may be required at a later date to refine the total extent of surface soil contamination. In addition to the primary goal of defining the extent of contamination in four directions, two secondary goals will be achieved. First, data will be of a quality and quantity sufficient for use in preparing a Hazardous Ranking Scoring (HRS) package. Second, data collected from each sampled property will be sufficient to evaluate the need to perform a remedial action on yard soils.

1.5 CONTAMINANT CONCENTRATIONS OF INTEREST

Based on the levels used at other EPA sites, it is anticipated that the action levels for soil for lead will be 400 milligrams per kilogram (mg/kg). The soil screening levels in the Generic Quality Assurance Project Plan for Superfund Integrated Site Assessment Activities (November 1998) will be used to help develop site-specific action levels. Specifically, the Region III residential soil screening levels will be used to help determine site-specific action levels. In addition, site-specific risk-based concentrations may also be developed.

The contaminant concentration of interest for bismuth in soil will be as low as 1 part per million (ppm) (i.e., mg/Kg). Bismuth will be used as an indicator metal to link the ASARCO property to contamination located in the nearby areas.

For this investigation, confirmatory samples will be analyzed at an off-site laboratory using EPA SW-846 method 6010B. The XRF screening samples will be analyzed using EPA method 6200. These analytical methods and the XRF field screening will be adequate to provide concentrations for the contaminants of interest.

1.6 REQUIRED DETECTION LIMITS

The standard detection limits for the EPA SW-846 method 6010B and EPA method 6200 will be acceptable for the quantification of metals, except for bismuth. The quantification limit for bismuth will be 1 ppm. The quantification limits for each method per analyte are provided in the site-specific Quality Assurance Project Plan (QAPP).

2.0 LOGISTICS

2.1 PERSONNEL REQUIREMENTS

Prior to all field activities, CRS Inc., a SvE team subcontractor, will obtain access from all day care centers, residences, and businesses. There will be two sampling teams which will consist of two field team members. The field team members will be responsible for collecting samples and XRF screening, documenting field operations, developing scaled site sketches, obtaining GPS information, collecting confirmatory samples, and performing equipment decontamination. The sample coordinator will manage all off-site laboratory confirmatory samples, collect confirmatory samples from each field team, maintain document control, take digital photographs of each sample location, and help with equipment preparation and decontamination. The field sample coordinator will serve as the Site Manager. The Project Manager will be responsible for overall coordination of field activities. The Project Manager will also be responsible for providing updates to the EPA WAM. The SvE Project Manager will be present full-time during the first sampling event and will be present during portions of other sampling events to help maintain adequate project QA/QC, to provide oversight of each field crew, and to help expedite the overall site investigation. In addition, the SvE Project Manager will coordinate with all field staff during the site investigation.

2.2 EQUIPMENT REQUIREMENTS

2.2.1 Personal Protective Equipment (PPE)

It is anticipated that level D PPE will be utilized by the field teams during sample collection. Level C PPE will be required if personal air-monitoring results indicate that a contaminant of concern (COC) is above 25% of the permissible exposure limit (PEL). The site-specific Health and Safety Plan contains additional detail regarding PPE requirements. The disposable PPE (e.g., nitrile gloves) will be double-bagged, and disposed of in a solid waste dumpster. New disposable nitrile gloves will be used at each sample location.

2.2.2 Decontamination Equipment

Stainless steel sample bowls, stainless steel spoons and trowels, stainless steel soil sieve kits, and any other dedicated sampling equipment will be first washed with Alconox detergent, then rinsed with a potable water, and rinsed again using ASTM Type II reagent grade water. Following decontamination, all dedicated equipment will be wrapped with aluminum foil. Additional decontamination procedures are provided in the Work Instruction for Equipment Decontamination located in Appendix A.

2.2.3 Sampling Equipment

All samples will be collected using equipment and methods described in Section 3.1. All sampling equipment will be decontaminated as described in the Work Instruction for Equipment Decontamination provided in Appendix A.

3 mo x 5 pple + PM (1/2)

2.3 SCHEDULE

change

The site investigation is anticipated to begin the week of March 15, 1999. The start of field work is contingent upon obtaining the site access agreements and approval of the Quality Assurance Project Plan (QAPP) and Field Sampling Plan (FSP). The end of field work is scheduled for June 18, 1999.

2.4 SITE ACCESS

change

Access for personnel to perform the described sampling activities will be arranged by an SvE team subcontractor (CRS, Inc.) prior to the investigation. Access will be by written consent by residents and day care center owners signing the access agreement.

2.5 PUBLIC AND MEDIA INQUIRIES

All public and media inquiries will be referred to the EPA WAM.

3.0 FIELD OPERATIONS

3.1 SAMPLING RATIONALE AND LOCATIONS

Soil samples will be collected from properties located within 0.3-mile-wide corridors centered on the prevailing winds axis and perpendicular axis drawn at the intersection of Interstate 480 and Abbott Drive. A minimum of eight properties will be sampled every 0.1 mile as measured from the intersection of the axes. Exceptions to this rule will be made if less than eight distinct properties exist within a particular 0.1 by 0.3 mile sampling area. In this situation, a minimum of 32 composite samples from the 0.1 by 0.3 mile sampling area will be collected. If there are not at least 960 residences where access can be obtained from within the 0.3-mile-wide corridors,

then the corridors, then properties nearest to the corridor boundaries will be contacted to obtain access.

The samples will be as evenly distributed as practicable over the sampling area. Residential properties will be preferred over non-residential properties. All day care centers within 3 miles of the site center will be sampled (240 day care centers). Up to 960 residences within the 0.3-mile-wide to 0.5-mile-wide corridors and 3 miles from the site center will be sampled. In addition, 10 to 15 surface soil samples from the ASARCO and Union Pacific Railroad property will be collected.

was this done? where is it what is it

Several samples from properties located outside the suspected plume of contamination will be collected to establish background concentrations. The characterization sampling will continue in all four directions until only background concentrations are found in all sampling locations within three consecutive 0.1-mile by 0.3-mile sampling areas. The results of XRF screening will be reviewed as data becomes available in order to evaluate the effectiveness of the four selected directions in the characterization of the site. XRF screening will be performed in the field at each sample location.

An aerial view scaled sketch will be made of each sampled property on the field sampling forms (Appendix B). The sketch will show the locations of all structures, child play areas, and gardens. A digital photograph will be taken of the front yard and back yard of each sampled property and will be integrated with the GIS database. A GPS reading will be collected at each site location. This information will also be integrated with the GIS database. The field GPS form is located in Appendix C.

4 Qs
1 DZ
1 Play
1 Garden
7 max

The property will be divided into four quadrants of roughly equal surface area. The two quadrants in the front yard will include one-half of the side yard. Likewise, the two quadrants in the back yard will include the remaining half of the side yard. One composite sample composed of three aliquots of equal mass will be collected from each quadrant. Each aliquot will be collected from the top one-inch of soil away from influences of the house's drip zone. A drip line sample will also be collected. In addition, one sample will be collected from the play area and one sample from the garden area if they exist. If there is more than one play area or garden, at least one aliquot will be collected from each multiple play or garden area. These aliquots will be composited to form one garden sample and one play area sample for each property.

A composite drip line sample will be collected from each residence or day care center. The sample will consist of a minimum of four aliquots collected between six-inches and two and-a-half feet from the exterior wall of each house. Each aliquot will be collected from the midpoint of each side. One of the four aliquots will be collected from any bare spot instead of from the midpoint in the event there are bare, unvegetated areas within the drip line sampling area. If there is a distinct difference in the house exterior, a fifth aliquot will be collected from the drip zone sampling area in front of the anomaly. An XRF paint sample will also be collected on the side of the house if the drip line sample indicates a lead concentration equal to or above 400 ppm. This sample will be used to determine if lead paint chips are potential sources of contamination to the soils near the properties.

No paint

Assume No Paint Sample

(Locations)

Three depth samples will be collected with every tenth surface sample. These samples will be collected from the center of the quadrant from which each tenth surface sample is collected. Depth samples will be collected at 0 to 8, 8 to 16, and 16 to 24-inch intervals. No compositing of depth samples will be performed. XRF screening will be performed on all depth samples. Laboratory analysis will be performed on 10 percent of all samples. A summary of the samples to be collected during the site investigation is provided in Table 3.1-1.

Any correlation of depth samples?

Table 3.1-1
Estimated Sample Quantities
Omaha Lead Refinery Site

	Sample Type	Locations	Quadrant Samples	Drip Samples	Garden* Samples	Play Area* Samples	Depth Samples	QA/QC** Samples	Total Samples
Residence	XRF	960	3,840	960	399	399	1,152	699	7,449
Child Care	XRF	240	960	240	24	240	288	181	1,933
ASARCO	XRF	1							15
	Totals	**1201**	**4,800**	**1,200**	**423**	**639**	**1,440**	**880**	**9,397**
Residence	Fixed Lab	960	384	96	40	40	115	68	743
Child Care	Fixed Lab	240	96	24	2	24	29	18	193
Liquid IDW	Fixed Lab							5	5
ASARCO	Fixed Lab	1							1
Background	Fixed Lab	10							10
	Totals		**480**	**120**	**42**	**64**	**144**	**91**	**952**

* - estimated
** - QA/QC samples include equipment rinsate and field duplicate samples

Surface soil samples will be collected using stainless steel spoons and bowls. Depth soil samples will be collected using stainless steel hand augers in conjunction with stainless steel spoons and bowls. All sampling equipment will be properly decontaminated between each sample location. A schedule for the project activities including field activities is included in Appendix D.

3.2 SURFACE SOIL SAMPLING/SCREENING

In-situ sampling?

Two XRF spectrometers will be utilized to analyze soils for metals contamination as described in the Operator Manual for the NITON 700 Series XRF Analyzer. The XRF manual is provided in the site-specific QAPP. The NITON will be self-calibrated before and after each day of field activities and whenever the operator determines there is a need to recalibrate. In addition, during bulk soil sampling, a set a three NIST soil standards (i.e., low, medium, and high concentrations) will be used to check the calibration of the NITON as described in Appendix E of the NITON XRF manual. At a minimum, the standards will be analyzed after the initial self-calibration test, at the end of the day's field activities, and every hour. The results will be recorded on field calibration sheets (Appendix E). The following procedure will be used when collecting and analyzing surface soil samples:

1) Test bulk soil sample mode by using the arrow keys to select Test Soil, Bulk Sample. From the Setup Menu, press the Clear/Enter button. Press Clear/Enter on the main menu for

Calibrate & Test. The NITON will beep and display Ready to Test.

2) Prior to sampling the bulk soil samples, turn the NITON on for at least 15 minutes. Choose the Bulk Sample mode from the Setup Screen. The NITON is now ready to analyze bulk soil samples.

3) Collect composite soil samples from an area approximately 1.5 by 1.5 feet in size and 1-to-2 inches deep. Use a stainless steel hand trowel or spoon to make vertical columns.

4) Collect three aliquotes from three widely distributed locations within each quadrant. Collect approximately 50 grams of soil from each aliquot location. Place the three aliquote soil samples in stainless steel mixing bowl and homogenize.

5) When collecting grab/discrete soil samples use a stainless steel trowel or spoon. The trowel or spoon should be inserted into the ground at a 45° angle. Collect a half-inch thick soil sample and do not shake the sample during collection. Collect approximately 100 grams of soil.

6) Dry samples if necessary. The moisture content should not be greater than 20 percent. The sample must be dried enough to pass through a 60 mesh screen sieve. Samples should be dried using a propane burner.

7) Split composite or grab/discrete soil samples by the cone-and-quartering method. Slowly and carefully pour the dry material onto a flat sheet of aluminum foil forming a symmetrical cone. Using a flat thin-bladed tool, such as a knife, divide the cone into equal piles. Divide these halves again resulting in four equally sized samples.

8) Collect 25 grams of soil from each quarter and grind sample. If necessary, collect confirmatory soil sample (i.e., off-site laboratory samples) at this point. Use a mortar and pestle to grind XRF screening sample.

9) Sieve soil sample through a No. 10 (2 mm) mesh screen and segregate out the large pieces (i.e., stones, organic matter, metallic fragments, etc.).

10) Again grind sample so its particles will be finer and more homogenous.

11) Sieve at least 10 grams of the grinded sample through a No. 60 (0.250 mm) mesh screen. Re-grind the unpassed material until the required fraction is able to pass. At least 5 grams of samples is required for the XRF analysis.

12) Mix the resulting 5 gram soil sample.

13) Place a circle of Mylar film on top of the XRF cup. Secure the film with the collar. Fill the cup no more than half full with mixed soil sample. Take care that there are no voids or layering of the soil sample. Place the cup film-side down on a flat surface, tamp the sample

into the cup. Fill the cup with polyester fiber stuffing to prevent sample movement. Use aquarium filter or pillow filling as stuffing. Fasten the cap on the cup. Label cup with indelible pen. Record sample number in logbook and on field sheet.

14) Analyze sample using XRF analyzer.

15) Every hour calibrate the NITON with the NIST soil standards and if necessary self-calibrate the NITON. When testing the NIST Soil Standards, collect 7 replicates for each NIST Soil Standard. To self-calibrate, use the Screen Arrow to select Calibrate & Test and press Clear/Enter. The NITON will self-calibrate in one to two minutes.

16) Download the data at the end of each day onto a computer.

To provide confirmation of the XRF readings, confirmatory surface samples (0-to 2-inch depths) will be collected following the NITON guidance for "Sample Handling Strategies for Accurate Lead-in-Soil Measurements in the Field and Laboratory" (Appendix F).

3.3 SUBSURFACE SOIL SAMPLING/SCREENING

The NITON will be calibrated before and after each day of field reading. Calibration will be performed by self-calibration and analyzing a set of these NIST Soil Standards as described in Appendix E of the NITON XRF manual. At a minimum, the standards will be analyzed after the initial self-calibration test, at the end of the day's field activities, and every hour. The results will be recorded on field calibration sheets (Appendix E).

One subsurface soil sample set will be collected at every tenth surface soil sample location. At every subsurface soil sample location, samples will be collected from 0 to 8-inches, 8 to 16-inches, and 16 to 24-inches below ground surface. A stainless steel hand auger will be used to collect discrete subsurface soil samples. The following procedure will be used when collecting and analyzing subsurface soil samples:

1) Test bulk soil sample mode by using the arrow keys to select Test Soil, Bulk Sample. From the Setup Menu, press the Clear/Enter button. Press Clear/Enter on the main menu for Calibrate & Test. The NITON will beep and display Ready to Test.

2) Prior to sampling the bulk soil samples, turn the NITON on for at least 15 minutes. Choose the Bulk Sample mode from the Setup Screen. The NITON is now ready to analyze bulk soil samples.

3) Collect discrete subsurface soil samples using a stainless steel hand auger. Collect approximately 100 grams of soil.

4) Dry samples if necessary. The moisture content should not be greater than 20 percent. The sample must be dried enough to pass through a 60 mesh screen sieve. Samples should be dried using a propane burner.

5) Split the subsurface soil sample by the cone-and-quartering method. Slowly and carefully pour the dry material onto a flat sheet of aluminum foil, forming a symmetrical cone. Using a flat thin-bladed tool, such as a knife, divide the cone into equal piles. Divide these halves again resulting in four equally sized samples.

6) Collect 25 grams of soil from each quarter and grind sample. If necessary, collect confirmatory soil sample at this point. Use a mortar and pestle to grind XRF screening sample.

7) Sieve soil sample through a No. 10 (2 mm) mesh screen and segregate out the large pieces (i.e., stones, organic matter, metallic fragments, etc.).

8) Again grind sample so its particles will be finer and more homogenous.

9) Sieve at least 10 grams of the grinded sample through a No. 60 (0.250 mm) mesh screen. Re-grind the unpassed material until the required fraction is able to pass. At least 5 grams of samples is required for the XRF analysis.

10) Mix the resulting sample.

11) Place a circle of mylar film on top of the XRF cup. Secure the film with the collar. Fill the cup no more than half full with mixed soil sample. Take care that there are no voids or layering of the soil sample. Place the cup film-side down on a flat surface, tamp the sample into the cup. Fill the cup with polyester fiber stuffing to prevent sample movement. Use aquarium filter or pillow filling as stuffing. Fasten the cap on the cup. Label cup with indelible pen. Record sample number in logbook, on field sheet, and on chain-of-custody form.

12) Analyze sample using XRF analyzer.

13) Every hour calibrate the NITON with the NIST soil standards and if necessary self-calibrate the NITON. To self-calibrate, use the Screen Arrow to select Calibrate & Test and press Clear/Enter. The NITON will self-calibrate in one to two minutes.

14) Download the data at the end of each day to a computer.

3.4 PAINT SAMPLING

The NITON will be calibrated before and after each day of field reading. Calibration will be performed by self-calibration and analyzing lead paint standards. XRF screening of paint on the side of residence and day care centers will be performed if a drip sample detects lead at a concentration above 400 ppm in soil. The following procedure will be used when analyzing paint:

1) First test the paint sampling mode. Use the arrow buttons to select Setup Paint Mode. Press Clear/Enter. Use the Arrow buttons to select Set up Paint Protocol. Press Clear/Enter and

use the Arrow buttons to adjust the times for the 1st, 2nd, and 3rd beep signals for K & L Mode + Spectra and set the Action level (i.e., 400 ppm). Use the Clear/Enter button to enter each selection. Once the action level has been entered, use the Arrow buttons to select a Paint Testing Mode. Press Clear/Enter to get to the Calibrate & Test selection and press Clear/Enter. The instrument will self-calibrate in one to two minutes. The NITON is now ready to test samples

2) Prior to testing paint, set XRF analyzer to Paint Mode.

3) Set Paint screen to K&L Readings and Spectra.

4) Calibrate and test XRF analyzer.

5) Push the safety slide out from under the shutter release.

6) Attach the light pen Barcode Reader and wrist-mounted bar codes. Flick the Barcode Reader across one of the bar codes to display the Data Entry Screen. Enter the test location and other test info with the Barcode Reader.

7) Place the NITON on the painted surface, squeeze the shutter release, and press the NITON against the surface.

8) Once the test is finished, lift the NITON off the surface. The test is finished once the NITON beeps, indicating that it has made a 95% confidence interval determination.

9) Set the Averaging Screen to read Reading Averaging.

10) Collect an additional 2 readings. Repeat steps 3 and 4.

11) After collecting paint analysis, toggle to the SpectraView screen by pressing Clear/Enter. Once in the Spectra View screen, use Arrow buttons to scroll through the spectrum. Scroll the vertical curser-line to the center of the peak and read measurement. Three dark peak lines (i.e., black vertical lines) next to each other indicates the presence of lead.

12) Record readings in logbook and field data sheet.

13) Exit SpectraView screen by starting another measurement.

14) Test the precision of the NITON every hour by analyzing paint standards. First test the standard with the RED standard with the red strip labeled 1.0 +/- 0.1. The value should read between 0.9 and 1.1 mg/cm^2. Second, a paint standard of 3.5 should be analyzed. The value should read between 3.38 and 3.62 mg/cm^2. The readings should be performed in replicate 7 times in accordance with EPA Method 6200. Reanalyze the standard if the readings are high or low. If the readings do not fall within the required range, the NITON should be sent to the manufacturer for repair.

15) Download the data at the end of each day onto a computer.

4.0 QUALITY CONTROL SAMPLES NEEDED TO SUPPORT DATA QUALITY OBJECTIVES

Criteria for determining the accuracy and precision of the analysis methods and laboratory preparation procedures involve method blanks and replicate analyses. These methods may include, as a minimum, analyses of:

- Duplicate Samples - these are independent samples collected at the same sampling location during the sampling event. Duplicate soil samples will be collected to evaluate the precision of the samples collection, management, analysis procedure, and environmental variability. The duplicate samples will be obtained by repeating the entire sample collection procedure immediately after the original sample has been collected for all parameters. Field duplicate acceptance criteria will be ± 35 to 50% relative percent difference (RPD) for all parameters, which allows for sample matrix variability. If the duplicate analysis is outside the ± range, then the data may require coding during the data validation process.

- Equipment rinsate - these are obtained by running analyte-free deionized water through sampling equipment after decontamination and collecting the water in appropriate containers for analysis. These samples are used as an indicator of sample contamination during the entire process, including sampling, transport, sample preparation, preservation, and analysis. Equipment rinsate will be evaluated following the guidelines presented in "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review," EPA-540/R-94-012, February 1994.

A laboratory control sample (LCS) will be performed by the laboratory for every 1-in-20 equipment rinsate and soil sample. The laboratory will perform a matrix spike and matrix spike duplicate for every 1-in-20 samples. The laboratory will be responsible for performing the required method blanks for EPA SW846 6010B. Equipment rinsate samples will be collected at 1-in-every-40 sample site locations.

During XRF screening, 10 percent field duplicate samples will be collected during the site investigation. In addition, 10 percent off-site confirmatory samples will also be collected during the site investigation. These samples are required to verify the validity of the analytical results of samples, assess if the samples have been contaminated as a result of container contamination, field methods, contamination related to the site, or laboratory contamination. Descriptions of QC samples will be recorded in the site logbook and field sheets. In addition, all QA/QC procedures listed in EPA Method 6200 and the XRF manual will be adhered to, including checking the lead standards every hour to verify the XRF analyzers calibration.

A regression coefficient (r^2) will be calculated between the XRF values and the corresponding confirmatory laboratory results. The regression coefficient should be at least 0.49 (equivalent to a correlation coefficient (r) of 0.70) for the field-screening values to be viewed as quantitative (i.e., scientifically defensible data).

5.0 DECONTAMINATION PROCEDURES

Stainless-steel spoons, trowels, bowls, and hand augers will be used for the collection of the soil samples. The portion of the XRF analyzer that contacts the soil during *in situ* measurements will be wiped clean between measurements. Sampling personnel will change outer gloves between samples to minimize the possibility of cross-contamination. Personal decontamination procedures are addressed in the site safety plan. Additional details regarding equipment decontamination procedures in the Work Instruction for Equipment Decontamination provided (Appendix A).

6.0 SAMPLE CONTAINERS, PRESERVATION, AND HOLDING TIMES

Confirmatory soil samples will be placed into 8-ounce glass jars with Teflon-lined lids. All samples will be packaged and preserved according to the Work Instruction for Packing and Shipping of Environmental Samples (Appendix G). The maximum holding time for metals is 6 months except for mercury which is 28 days. Since Federal Express Priority shipping will be used, the courier will not be required to sign the chain of custody, provided that a custody seal tape has been attached to the cooler.

7.0 FIELD DOCUMENTATION, SAMPLE SHIPMENT, AND CHAIN-OF-CUSTODY

Field documentation will be in accordance with the Work Instruction for Field Activity Records (Appendix H).

A requirement of any sampling and analytical program is the integrity of the sample from collection to data reporting. This includes the ability to trace the possession and handling of samples from the time of collection, through analysis and final disposition. This documentation is referred to as "Chain-of-Custody" (COC), and is documented by R7ENSV SOP 2130.2A "Field Chain-of-Custody for Environmental Samples." The essential components of this chain are described below.

7.1 SAMPLE DESIGNATION

The samples collected during this investigation will be labeled clearly and legibly. Each sample will be labeled with a unique identification (ID) code along the other information specified in Section 7.5. The sample ID will consist of a series of eight (8) alphabetic characters followed by a five-digit sequential number. The alphabetic characters will provide information about each sample in order as follows:

1. Type of property sampled
   - A ASARCO property
   - R Residential property
   - D Day care facility
   - H Railroad property
   - C Other commercial property
   - I Other industrial property

Z Type of property not applicable

2. Sample location type
   - Y Ordinary yard sample
   - D Drip line sample
   - G Garden area sample
   - P Play area sample
   - L Paint sample (for lead)
   - Z Sample location type not applicable

3. Quadrant location
   - F1 A Northeast (NE) quadrant
   - F2 B Southeast (SE) quadrant
   - B1 C Southwest (SW) quadrant
   - B2 D Northwest (NW) quadrant
   - ZZ Z Quadrant location type not applicable

4. Sample matrix
   - S Soil
   - W Water
   - Z Sample matrix not applicable

5. Sample derivation
   - C Composite
   - G Grab
   - Z Sample derivation not applicable

6. Sample quality control status
   - P Primary environmental sample
   - D Field duplicate
   - E Equipment rinsate
   - Z Sample quality control status not applicable

7. Analytical method
   - X Analyzed by field XRF
   - L Analyzed by off-site laboratory
   - Z Analytical method not applicable

8. Sampled interval
   - A 0-2 inches
   - B 0-8 inches
   - C 8-16 inches
   - D 16-24 inches
   - Z Sampled interval not applicable

The five digit number at the end of the sample identification number will range from 0001 to 10000. Each site sample location will have a unique five digit code. The five digit code will be the sequential number following the previous number starting with 00001.

Based upon the preceding, a primary composite soil sample collected from a residential property in a play area from a depth of 0-2 inches and analyzed by XRF with sequential number 00615 would have the following sample ID:

RPZSCPXA00615

This sample ID will be written in the sample number or Station Number column on the COC. An example COC is provided in Appendix H. This information will also be entered into the database.

Log Date and Log Time are the date and time that a sample is collected, a field test performed, or a QC sample created. Dates and times will be indicated in the following format on the COC and in the database: "03/15/99 13:20." In order to maintain "laboratory-blind" duplicate samples, the following steps will be taken:

(1) The sequential number of the duplicate sample will be that of the primary sample plus one (1).
(2) The log time of the field duplicate sample will be that of the primary sample plus exactly one hour.

For example, if the aforementioned primary sample designated RPZSCPXA00615 was taken on 03/15/99 at 13:20, its duplicate sample designation would be RPZSCDXA00616 taken on 03/15/99 at 14:20.

The remarks column on the COC will be used to describe any important field observations.

The sample-naming scheme describe above was designed to (1) require a minimal number of characters on the COC and a minimal number of keystrokes when entering the information into the database, (2) allow for convenient and meaningful sorting of data in the database, and (3) provide adequate encryption so that the quality control status of the samples cannot be determined by the laboratory, i.e., the lab will be "blind" to duplicate samples. If situations are encountered in the field which are not addressed by the codes listed above, additional codes can be added. The meaning and usage of any new codes shall be thoroughly documented and the new codes shall immediately be relayed to all members of the field team including the sample coordinator and the project manager.

Additionally, data will be traced by sample control numbers derived from the COC serial numbers plus the line number on the COC. Each COC will have a unique serial number. The serial number will include a two letter site identification code (OM) and a three number code (001). Each COC will be sequentially numbered. For example, OM001 will be followed by OM002. Duplicate and other QC samples will be identified on the field sheets and logbook and not on the COC.

A maximum of 15 sample control numbers can be generated for each COC.

7.2 FIELD CUSTODY

The field samplers are responsible for the care and custody of all XRF screening samples and the confirmatory samples until they are relinquished to the sample coordinator. The sample coordinator will sign for the lab-bound samples when they are relinquished. The sample coordinator will then ship the lab-bound samples via FedEx to the laboratory custodian.

7.3 TRANSFER OF CUSTODY

The chain-of-custody form will be completed before confirmatory samples are shipped (Appendix I). The person involved in relinquishing and receiving the confirmatory samples will sign, date and note the time of sample receipt on the COC form. Since the Sverdrup Team representative will be present during the sampling event, he/she is considered the "sampler." The first such transfer may occur between the sampler and the sample coordinator. Another transfer will occur between the sample coordinator and sample carrier (FedEx). Still another transfer may occur between the sample carrier and the laboratory sample custodian. Provided that a custody seal tape has been attached to the cooler, the sample carrier will not be required to sign the chain-of-custody. Each confirmatory sample shipment will be accompanied by a COC record which identifies the contents of the shipment. The field sheet, discussed in Section 2.9, will not accompany the chain-of-custody form.

7.4 LABORATORY CUSTODY

A laboratory custodian will verify that the custody seals on the sampling shipment or the containers are intact, and the information on the COC matches the actual contents. Any anomalies, such as broken bottles, lack of chilling, or missing labels, will be noted by the laboratory custodian. The laboratory has an approved system, consistent with EPA protocols (R7ENSV SOP 1640.1A), to track a sample from its receipt through analysis to its final disposition. The laboratory will retain sample identification tags, data sheets, original instrument output records and logbooks as part of the final evidence file.

For each sample to be submitted for laboratory analysis, the date and time of collection will be recorded on a field sheet. Other pertinent information to be gathered includes: describing the physical nature of the sampled material and surrounding area, XRF unit identification, XRF values, and XRF model type. All soil sampling locations will be documented with measurements from a hand-held tape and a measuring wheel. These measurements will be sketched on the back of the site access agreement.

All confirmatory samples collected will be maintained under strict chain-of-custody within designated sample coolers. **All soil metal samples will be preserved at 4° C ± 2° C.** Samples will be shipped via Federal Express Priority overnight mail service to PDP. The address for sample shipments will be:

Is this necessary.

Attention: Sample Custodian
PDP Analytical Services
1680 Lake Front Circle, Suite B
The Woodlands, TX 77380

← EPA DO

7.5 SAMPLE PACKAGING AND SHIPMENT

EPA Procedures →

Immediately after lab-bound samples are collected and labeled for off-site laboratory analysis, they will be placed in a sturdy ice chest (i.e., cooler). Each lab-bound sample will be sealed in a plastic

bag. The samples will be packed with shock-absorbent materials such as bubble wrap to prevent movement of sample containers during transport. The ice chest will be packed with double-bagged ice packs. Custody seals will be affixed over the front and back of the ice chest lid to prevent or indicate tampering.

Samples to be transferred to an off-site laboratory will be stored on ice between collection and analysis. Samples may be maintained on ice for a short-term preservation both prior to and subsequent to analysis. Sample custody will be maintained through use of chain-of-custody forms and sign-off at the time of sample transfer, as is practiced for samples shipped for confirmatory analysis.

Sampling Packing. Samples and ice will be placed in a cooler along with the appropriate COC records. The COC sample log sheet(s) will be filled out in indelible ink, placed in a resealable plastic bag, and taped to the inside lid of the cooler. Each sample container in the cooler will be specified on the COC records by the field sampling identification number. Sample containers will be packaged to minimize potential breakage. Sample packaging for off-site laboratory shipping will meet EPA and DOT requirements.

Shipping Containers. At least three bands of strapping tape will be wrapped completely around the cooler to secure the lid. The cooler will be sealed with evidence tape and labeled "Fragile" and "This End UP" on at least two sides. The containers will be shipped to the laboratory for analysis in accordance with DOT regulations and procedures. Shipped air bills will be properly completed; copies will be retained and placed in the project file.

Coolers will be of metal or rigid plastic construction, with sufficient structural strength to withstand repeated dropping from a four-foot height without cracking. The coolers will be constructed to provide insulation during shipment such that sample preservation with ice will be sufficient to maintain the contents within the range of temperature required by the EPA Generic QAPP for Integrated Site Assessments. The inner liner of the cooler will be of a material (such as plastic) resistant to damage by sample contents, and which will not result in sample contamination.

Chain-of-Custody Record. A chain-of-custody record will be completed for every cooler containing fixed laboratory samples. This record will accompany every shipment of samples to the laboratory to establish the documentation necessary to trace sample possession from time of collection. The form will contain the following information:

- sample or station identification number
- Signature of collector, sampler, or recorder
- Date and time of collection
- Sample matrix
- Type of preservative
- Number of containers making up the sample
- Analysis requested for sample
- Additional notes pertaining to suspected high contaminant concentrations
- Signatures of persons involved in the chain-of-custody

- Inclusive dates of possession.

The laboratory portion of the form will be completed by the designated laboratory personnel and will contain the following information:

- Name of person receiving the sample
- Laboratory sample number
- Date of sample receipt
- Analyses requested
- Sample condition and temperature.

Transfer of Custody and Shipment. Samples will be accompanied by chain-of-custody forms. When transferring the samples, individuals relinquishing and receiving the samples will sign, date, and note the time of the chain-of-custody form. The sample coordinator will notify the laboratory coordinator when samples are shipped to the off-site laboratory for analysis.

Daily Logs. Field sheets and the field logbook will be used to record sampling activities each day. Entries in the field logs will include the following information:

- Name of author, date, and time of entry
- Location of activity
- Names and affiliations of personnel onsite
- Sample collection or measurement methods
- Number of samples collected
- Sample identification numbers.
- Field observations and comments.

Sufficient information will be recorded in the field logbook to reconstruct the sampling event, if necessary.

Correction of Documentation. Original entries recorded in the field logbooks, chain-of-custody forms, and other forms will be written in indelible ink. None of these documents will be altered, destroyed, or discarded, even if they are illegible or contain inaccuracies that require a replacement document.

If an error is made on a document assigned to one individual, that individual will make corrections by drawing a line through the error, entering the correct information, and initialing and dating the change. The erroneous information will not be obliterated. Any subsequent error(s) discovered on a document will be corrected by the person who made the entry or the sample coordinator or their designee. All corrections must be initialed and dated.

Sample Labels. Sample labels are necessary to prevent misidentification of samples. Each sample container will have a sample label attached. Where necessary, the label will be protected from water and solvents with clear tape. Each label will contain the following information:

- Names of sample collectors
- Date and time of collection
- Place of collection
- Sample number
- Analysis required
- Preservative.

7.6 ANALYTICAL METHODS

Analytical methods selected for use must be evaluated based on site-specific DQOs. These methods are presented below. The validity, limitations and special considerations for each analytical method for the parameters being analyzed must be understood prior to method selection.

Laboratory sample analysis and reporting will be the responsibility of PDP. SvE will be responsible for reporting the XRF screening results. Data reduction of the laboratory sample results will also be the responsibility of PDP.

The XRF screening will be performed in the field and will utilize EPA method 6200. The off-site laboratory confirmatory samples will be analyzed using EPA SW846 method 6010B. The site-specific QAPP provides additional detail regarding these methods.

7.7 FIELD AND LABORATORY QUALITY CONTROL

The following quality control (QC) procedures will apply to field-screening activities with an XRF:

- Precision of XRF data will be evaluated by calculating relative standard deviation (RSDs) for the assemblages of routine (i.e., hourly) measurements of low-level and high-level calibration standards. The RSDs should be plus-or-minus 20 percent for all metals except chromium. The RSD for chromium should be less than 30 percent per EPA method 6200 guidelines. The standards will be measured 7 times in replicate to verify the results per EPA method 6200.
- XRF calibration will be performed at the beginning and end of each day and at least once per hour during testing.
- Accuracy of the XRF data will be determined by routinely (hourly) measuring a mid-calibration range standard and calculating the percent difference between the XRF reading and modeled value. The percent difference should be within plus-or-minus 20 percent.
- Accuracy will also be evaluated through a comparison with laboratory results. A regression coefficient (r^2) of at least 0.49 will be required for the screening data to be viewed as quantitative.
- The NITON 700 series analyzer will be warmed up at least 15 minutes before use.

Laboratory QC will follow guidelines contained in the previously referenced analytical SOPs and/or methods located in the site-specific QAPP.

7.8 DATA REVIEW, VALIDATION, AND REPORTING

All data will be validated according to the method SOP and the EPA Functional Guidelines (EPA, 1994). Validation reports will be provided to the EPA WAM.

Responsibilities for properly managing analytical chemical laboratory data and technical data are presented below. Reduction of laboratory measurement and reporting of analytical parameters will be in accordance with the procedures specified for each analytical method. Any deviations from the analytical method are provided in the site-specific QAPP. All method deviations and reporting or calculation variances will be fully documented by the laboratory performing the analysis. Analytical parameters will be reported in units generally accepted within the industry.

Analytical Data Validation

The following data quality issues will be addressed:

- Review of laboratory testing methods, detection limits, holding times, data qualifiers, etc.
- Review of data summaries and reports for transcriptional and typographical errors.
- Compare the data against equipment rinsate to detect contamination from sampling.
- Review to compare field sampling duplicates.
- Review of laboratory QC including laboratory blanks, spike recovery, and duplicates.
- Review of chain-of-custody forms to evaluate sample receipt data, damaged sample containers, etc.
- Review of laboratory internal chain-of-custody forms and analysis logbook data.
- Verification of calibration and results calculations.
- Qualify unusable data as rejected and attach appropriate qualifiers to usable data.
- The report will address a brief discussion of accuracy, precision, comparability, completeness, and representativeness.

8.0 SITE SAFETY DOCUMENTATION AND DISPOSAL OF INVESTIGATION-DERIVED WASTE

Site-safety considerations are addressed in the site-safety plan. Documentation will be in accordance with SvE's SOP for field work. Any potentially contaminated waste materials generated by Sverdrup Team personnel will be segregated, bagged, and disposed of at the central field operation center via a garbage container. Non-contaminated wastes will also be bagged and disposed at the facility or in a nearby trash container. It is anticipated that waste generated by Sverdrup Team personnel during the proposed field activities will be minimal, consisting of used PPE (boot covers, coveralls, gloves). All non-disposable sampling and monitoring equipment will

be used and decontaminated as specified in the HSP.

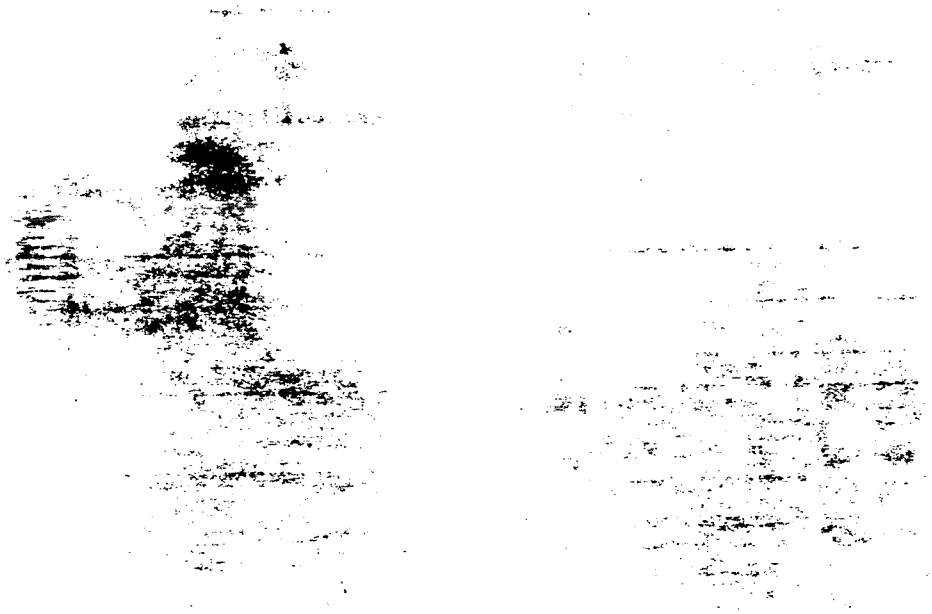
Investigation derived waste will also consist of decontamination water. It is anticipated that less than 200 gallons of liquid IDW will be generated. A request to discharge the liquid IDW to the sanitary sewer will be made to the Nebraska Department of Environmental Quality and the City of Omaha for activities under the RAC program at this site.

9.0 FINAL REPORT

Get a copy

Data review findings will be presented in terms of analytical precision, accuracy, representativeness, sensitivity, and completeness within the data report. The final data report will present a compilation of field XRF data, laboratory results, and project acceptance criteria and will provide a summary of the data quality. A detailed data validation report will be prepared which qualifies all analytical data collected during the site investigation.

APPENDIX A
EQUIPMENT DECONTAMINATION PROCEDURES



SVERDRUP ENVIRONMENTAL, INC. *Omaha Lead Refining Work Instruction*	Procedure No: OWI-001 Rev: 1	Page: 1 of 6
	Original Issue Date: 15 FEBRUARY 1999	Revision Date:
Issuing Department: *Overland Park Quality Assurance*	Supersedes Procedure: *N/A*	
Subject: ***EQUIPMENT DECONTAMINATION PROCEDURES***	Approval: Quality Manager; _____ Program Manager: _____	

1.0 PURPOSE

The purpose of this Work Instruction (WI) is to provide the step-by-step procedures for field decontamination of equipment. Decontamination of equipment and personal protective equipment is designed to ensure that the introduction and transfer of contamination is minimized.

2.0 SCOPE

This WI applies to all Sverdrup personnel and subcontractors collecting environmental samples or operating in environments in which hazardous or contaminating substances are expected to be present.

3.0 DEFINITIONS

1. Decontamination Area: An area that is not expected to be contaminated and is upwind of suspected contaminants.
2. Health and Safety Plan: A plan developed to ensure that all hazards associated with a site are evaluated prior to site entry.
3. Measurement\Monitoring Equipment: Any equipment used to check or evaluate site conditions.
4. Potable: Acceptable to drink.
5. Sampling Equipment: Any equipment used during the process of sample collection.

4.0 METHOD

4.1 General

Decontamination consists of physically removing contaminants. To prevent the transfer of harmful materials and unwanted cross contamination, decontamination procedures are implemented before anyone enters a site, and continue throughout site operations.

A decontamination plan should be based on the worst-case scenario (if information about the site is limited). The plan can be modified if justified by supplemental information. Initially, the decontamination plan assumes all protective clothing and equipment which leave the exclusion zone are contaminated. Based on this assumption, a system is established to wash and rinse all non-disposable equipment. This WI will serve as the site decontamination plan.

The type of decontamination procedures and solutions needed at each site should be determined after considering the following site-specific conditions:

- The type of equipment to be decontaminated
- The type of contaminant(s) present
- Extent of contamination.

4.2 Responsibilities

The Site Manager/Field Team Leader is responsible for ensuring overall compliance with this WI. The Site Manager/Field Team Leader is responsible for assigning equipment and technicians to perform decontamination tasks.

4.3 Procedures

All sampling equipment used at the site must be decontaminated both before activities begin and after each sample is collected. All drilling equipment must be decontaminated both before activities begin and between each location.

4.3.1 Decontamination Site

Decontamination of sampling equipment will take place at the sampling locations. In this case all required decontamination supplies and equipment will be mobilized to the site, and all decontamination fluids containerized for subsequent disposal.

4.3.2 Decontamination Equipment

The following is a list of equipment that may be needed to perform decontamination:

- Brushes (including long-handled bailer brushes), garden-type water sprayers (without oil-lubricated, moving parts), rinse bottles, flat-bladed scrapers
- Wash tubs and buckets
- Non-phosphate detergent, American Society for Testing and Materials (ASTM) Type II reagent grade water, methanol, hexane, nitric acid (or as specified in the QPP).

4.3.3 Decontamination Procedure

4.3.3.1 Sample Bottles

At the completion of each sampling activity the outside of each sample bottle must be decontaminated as follows:

- Be sure that the bottle lids are on tight.
- Wipe the outside of the bottle with a paper towel.

4.3.3.2 Personnel and Personal Protective Equipment

Review the project Health and Safety Plan for appropriate decontamination.

4.3.3.3 Sampling Equipment

The following steps will be used to decontaminate sampling equipment:

- Decontamination personnel will wear the appropriate personal protective equipment as required by the site-specific Health and Safety Plan.
- The sequence of actual decontamination will be as follows:
  - Gross contamination on equipment will be scraped off at the sampling site.
  - Water-resistant equipment is placed in a wash tub containing Liquinox, or equivalent laboratory-grade detergent with potable water, and scrubbed with a bristle brush or similar utensil.
  - Equipment will be thoroughly rinsed with potable water in a second wash tub, and then rinsed using an ASTM Type II reagent grade water.
- Depending on site conditions and the number of samples collected at each location, rinse and detergent water may be replaced with new solutions between sample locations.
- Following decontamination, equipment will be placed in a clean area on clean plastic sheeting to prevent contact with contaminated soil. All equipment should be allowed time to dry before re-use. If the equipment is not used immediately, it will be covered or wrapped in aluminum foil to minimize potential airborne contamination.

4.3.4 Investigative Derived Material

All materials and wastes generated during decontamination will be managed as described in the FSP.

5.0 RELATED DOCUMENTS

5.1 References

1. U.S. Environmental Protection Agency (USEPA). *A Compendium of Superfund Field Operations Methods*, Vols. I and II, USEPA/540/P 87/001a&b.

6.0 RECORDS

Sampling personnel will be responsible for documenting the decontamination of sampling and drilling equipment. The documentation will be recorded in the field logbooks as per the Work Instruction for *Field Activity Records*. The information entered in the field logbook concerning decontamination should include the following:

- Decontamination personnel
- Decontamination solutions used and their Material Safety Data Sheets
- Date, start and end times
- General decontamination methods and observations
- Equipment identification numbers
- Manufacturers' names and lot numbers of decontamination solutions (e.g., ASTM Type II reagent grade water).

7.0 ATTACHMENTS/APPENDICES

Not applicable.

APPENDIX B
FIELD SAMPLING FORMS

Omaha Lead Refining Site

Agreement To Allow Access To Property To Conduct Investigation And Cleanup

The U.S. Environmental Protection Agency (EPA) has hired Sverdrup Environmental Inc. to evaluate lead contamination in the Omaha Metropolitan area. You can help with this evaluation by giving permission to test the soil on your property. If you sign this form, Sverdrup will return in a few weeks and test the soil at several locations in your yard. The results of the tests will be sent to you at a later date.

If you have any questions about this sampling, please contact Don Bahnke, EPA's project manager for the Omaha lead investigation. Mr. Bahnke can be reached at 1-800-223-0425 or at 913-551-7747.

Property Access Granted By: _____
(Please Print Name)

_____ _____
(Property Owner Signature) (Date)

NOTE: Granting permission DOES NOT necessarily imply your property will be sampled at this time.

PROPERTY INFORMATION

(to be completed by resident and/or property owner – please print)

RESIDENT NAME:_____ ☐ **Owner** ☐ **Renter**

RESIDENT ADDRESS:_____

IF RENTAL, PROPERTY OWNED BY:_____

OWNER'S MAILING ADDRESS:_____

OWNER'S TELEPHONE NUMBER – HOME (____)_____ **WORK (____)**_____

AGE OF HOME?_____**YEARS.** **HOW LONG HAVE YOU LIVED HERE?**_____**YEARS.**

HAS THE EXTERIOR BEEN PAINTED OR COVERED WITH SIDING SINCE 1978? _____**YES** _____**NO**

HAS THE INTERIOR BEEN PAINTED OR COVERED SINCE 1978? _____**YES** _____**NO**

NUMBER OF OCCUPANTS UNDER 6 YRS. OLD: ____**NUMBER OF OCCUPANTS 6 YRS. OLD AND OLDER**_____

NUMBER OF CHILDREN UNDER 6 YRS. OLD WHO PLAY IN THE YARD FOR 5 HRS. OR MORE PER WK_____

COMMENTS OR SPECIAL INSTRUCTIONS:(I.E., DOGS, ENTRY GATES, ETC_____

AUTHORITY FOR ENVIRONMENTAL RESPONSE ACTIONS

The activities to be implemented by EPA under this agreement are pursuant to Section 104 of CERCLA, 42 U.S.C. 9604. EPA's right of access to the property is provided for in Section 104(e) of CERCLA, 42 U.S.C. 9604(e), which provides entry for, "determining the need for response, or choosing or taking any response action under this title, or otherwise enforcing the provisions of this title."

EPA
REGION 7

This Page is for EPA Sverdrup Use Only

	Soil Analysis Project	**Scale** 1 inch = _____ feet

Date: _____ Time: _____ (hrs.)

Team: ____ Zone: ____ Distance: _____

Address: _____

Sample No.: _____ Comments: _____

_____

- Sample Area -

A: _____ ppm

B: _____ ppm

C: _____ ppm

D: _____ ppm

E: _____ ppm

Confirmation Sample Collected:

☐ A ☐ B ☐ C ☐ D ☐ E

1. _____ 2. _____ 3. _____

QC Duplicate Sample Collected:

Record Number: _____

FIELD SAMPLING REPORT

LOCATION: _____ PROJECT: Omaha Lead Refining Site

XRF ID: _____

SAMPLE INFORMATION

SAMPLE ID: _____

DU./REP/. OF: _____

DATE: _____ SAMPLE TIME: _____

MATRIX: ☐ Soil ☐ Hazardous Liquid Waste ☐ Rinsate Liquid ☐ Other _____

SAMPLING METHOD & TYPE:

☐ Composite Sample	☐ Surface Grab	☐ Depth Grab	☐ Paint
☐ drip area	☐ drip area	☐ 0 - 6"	
☐ play area	☐ play area	☐ 6 - 12"	
☐ quadrant	☐ garden	☐ 12 - 18"	
☐ NE ☐ SE	☐ other		
☐ SW ☐ NW			
☐ other			

CONFIRMATORY SAMPLE

CONTAINER		PRESERVATIVE/ PREPARATION	ANALYTICAL METHOD	ANALYSIS
SIZE/TYPE	#			
8oz/wide-mouth glass jars		Cool to 4°C	SW 846 6010 B	Metals
			SW 846 6010 B	Metals
			SW 846 6010 B	Metals
			SW 846 6010 B	Metals

NOTABLE OBSERVATIONS

GPS COORDINATES	SAMPLE CHARACTERISTICS	MISCELLANEOUS
	COLOR:	
	ODOR:	
	OTHER:	

GENERAL INFORMATION

WEATHER: SUN/CLEAR _____ OVERCAST/RAIN _____ WIND DIRECTION _____ AMBIENT TEMP _____

SHIPPED TO: _____

COMMENTS: _____

SAMPLER: _____ OBSERVER: _____

XRF READINGS (mg/kg)

chromium	_____	cadmium	_____	mercury	_____	antimony	_____
arsenic	_____	barium	_____	lead	_____		
selenium	_____	silver	_____	bismuth	_____		

S:\SVE_PROJ\000155\025\FSR.WPD

APPENDIX C
GPS FIELD FORM

GPS FIELD SHEET for Magellan Pro Mark X

Facility Name: _____

EPA ID No: _____

Address: _____ County: _____

City: _____ State: _____ Zip: _____

Collecting Program(Division/Branch): _____ **Collector:** _____

Project (EJ, Neosho, ...): _____

Date Collected: _____ Time observation began: _____ Ended: _____

PDOP: _____ GPS Receiver No.(EPA Tag No.): _____

Filename stored in GPS unit: _____

Filename of digital photo of Facility : _____

Detailed description of point (plant entrance, parking lot, land parcel, well...): _____

_____

_____

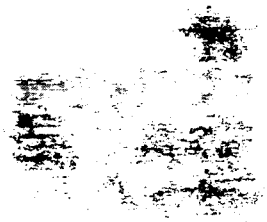
Verbal description of weather: _____

Obstructions (buildings, electric lines, ...): _____

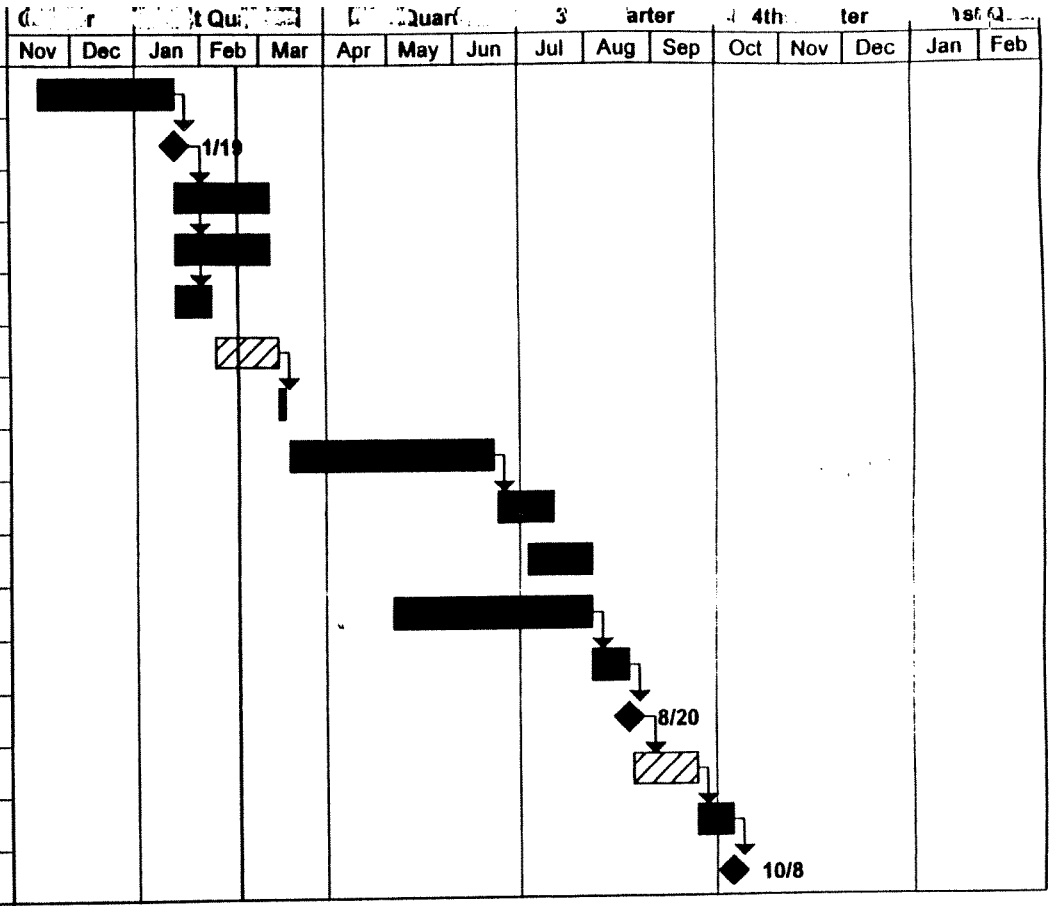
Quick instructions on use of the Magellan Pro Mark X GPS receiver

Collect almanac	**Press AUX, 9, ENTER, ENTER**
Collect data	**Press DIF, 2, ENTER, <ENTER to accept default name or CLEAR to key in own filename>, <ENTER if no descriptor info or enter descriptor info and press ENTER>. ENTER accept data rate of 1 & 1, ENTER if no attribute data, ENTER to start logging data, log data for at least 5 minutes, ENTER to stop logging data, ENTER to confirm**
Auxiliary functions Press AUX, #, ENTER	**1-Receiver Status 3-Sat Status 4-View Data 5-Data I/O 9-Almanac Collect 10-Memory Status 11-File Maintenance**
Satellite Status codes	**S-Search T-collecting Time B-Bit Sync(looking for) D-Data collect/track I-Idle**

APPENDIX D
SITE INVESTIGATION PROJECT SCHEDULE



ID	Task Name	Duration	Start	Finish	Predecessors
1	Prepare Work Plan	65d	11/16/98	1/19/99	
2	Work Plan Submittal	0d	1/19/99	1/19/99	1
3	Stop Work Date	45d	1/20/99	3/5/99	2
4	Obtain Site Access	45d	1/20/99	3/5/99	2
5	Prepare FSP/QAPP/HSP	17d	1/20/99	2/5/99	2
6	FSP/QAPP/HSP Review	30d	2/8/99	3/9/99	
7	Finalize FSP/QAPP/HSP	3d	3/10/99	3/12/99	6
8	Field Work	74d	3/15/99	6/18/99	
9	Receive All Lab Work	20d	6/21/99	7/16/99	8
10	Data Validation	22d	7/5/99	8/3/99	
11	GIS Deliverable	67d	5/3/99	8/3/99	
12	Prepare Draft SSSC Forms	13d	8/4/99	8/20/99	11
13	Submit Draft SSSC Forms	0d	8/20/99	8/20/99	12
14	Review of Draft Forms (EPA)	22d	8/23/99	9/21/99	13
15	Revise SSSC Forms	13d	9/22/99	10/8/99	14
16	Submit Final SSSC Forms	0d	10/8/99	10/8/99	15



Revised Project Schedule
Project: Omaha Lead Refining
Date: 2/18/99 WA No. 025-SISI-07ZY

Task
Progress
Milestone
Summary
Rolled Up Task
Rolled Up Milestone
Rolled Up Progress

APPENDIX E
XRF CALIBRATION FIELD SHEET

Calibration Log

Project: Omaha Lead Refining Site, Omaha, Nebraska	Date:
Team Members:	
XRF ID:	
☐ Initial Self-calibration Performed	☐ End of Day Self-calibration Performed

Bulk Soil Sampling Calibration RPD

RPD

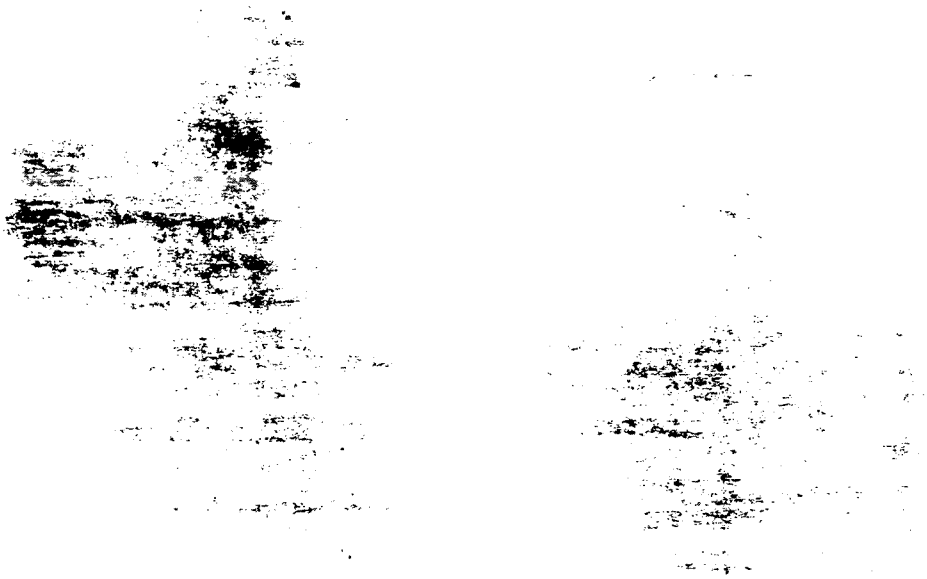
Contaminant (ppm)	Low NIST Soil Standard RPD _____ (ppm)		Medium NIST Soil Standard _____ (ppm)		High NIST Soil Standard _____ (ppm)	
	intial	final	intial	final	intial	final
chromium						
arsenic						
selenium						
cadmium						
barium						
silver						
mercury						
lead						
bismuth						
antimony						

Paint Samples Calibration (Lead only)

Time	Low Paint Standard _____ ppm	High Paint Standard _____ ppm

Problems:

APPENDIX F
NITON "SAMPLE HANDLING STRATEGIES FOR ACCURATE LEAD-IN-SOIL MEASUREMENTS IN THE FIELD AND LABORATORY"



SAMPLE HANDLING STRATEGIES FOR ACCURATE LEAD-IN-SOIL MEASUREMENTS IN THE FIELD AND LABORATORY

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Las Vegas, Nevada, USA
January 29-31, 1997

ABSTRACT

The inhomogenous lead-in-soil matrix can present serious obstacles to accurate sample collection and handling. In typical lead-in-soil measurement, particle size related errors in sampling and sample handling often exceed all other sources of error. The magnitude of error can vary widely depending on the particulate nature of the lead contaminant and the effectiveness of control measures. Large particle contaminants, such as lead bearing paint chips, pose a much greater challenge to accurate sample handling than do small particle contaminants, such as air dispersed industrial emissions. A sample handling protocol demonstrated to give reliable, valid data in small particle situations may prove entirely inadequate for large particle cases.

This paper focuses on the importance of fundamental error, a statistical consequence of particulate sampling. We discuss in quantitative terms the significance of fundamental error on the measurement of paint chip contaminated soils near a 400 ppm action level. On the basis of error estimates, we recommend that sample handling protocols control particle related errors by ensuring adequate sample size and sample definition, and by accomplishing sufficient particle size reduction and homogenization before subsampling. We discuss particle related errors and their effect on laboratory, field, and in-situ analytical methods. We recommend that quality assurance protocols aim to determine the overall measurement quality by evaluating error at all stages from sampling and sample handling through analysis.

SAMPLING DESIGN AND GEOSTATISTICS

The prerequisite of a well-designed study is a clear statement of the study's objectives for data quantity, quality, reliability, speed, and cost. The planner develops objectives with careful attention to the data's ultimate utility and the available resources of people, technology, and money. The objectives should be stated in quantitative terms, with exact figures to indicate the necessary

precision and accuracy at and around the action or decision concentrations.

In large projects with multimillion dollar budgets, such as some Superfund cleanups, statisticians develop a sampling design with the aid of geostatistical theory and preliminary data indicating the spatial variability of site contamination. The sampling design defines the number points to sample and the pattern. The statistician attempts to design a sampling effort that achieves the lowest possible cost of the total sampling, analysis, and remediation effort.[1,2,3] Geostatistics is an art of some subtlety; its effectiveness varies widely with the skill of the statistician.[4] Although, the application of geostatistics to sampling design is well beyond the scope of this paper, some of its principles (e.g. sample support) can be used to improve the effectiveness of small sampling projects.

SAMPLE HANDLING OPERATIONS

A typical soil sample experiences a number of physical manipulations at the sampling site and in the laboratory. According to the sampling plan, the field technician extracts soil from the ground, often by means of a core sampling device. The technician may combine soil collected from several points to form a composite sample. To avoid transporting unnecessarily large quantities of sample material, the technician may thoroughly mix, then split the sample, taking only the minimum necessary for the lab.

The laboratory technician unpacks the sample, weighs the sample, dries the sample (by oven or air-drying), re-weighs the sample, then screens the sample to remove stones, vegetable matter, and other particles larger than 2 mm in size. At this point the technician re-weighs the sample, then grinds the sample to reduce the particles to small enough size to pass a fine mesh sieve. When all of the sample passes the fine mesh sieve, the technician mixes and splits the sample for final sample preparation, or executes an additional stage of grind, sieve, mix, and split. The technician then carefully weighs the final sample for the analysis. If the analysis is to be performed by atomic absorption spectroscopy (AAS) or inductively coupled plasma atomic emission spectroscopy (ICP-AES) then the technician will prepare the sample by acid digestion or extraction. If the analysis is to be performed by x-ray fluorescence spectrometry (XRF) then then sample may be prepared by flux fusion, press pelletizing, or simply by packing the ground sample in a plastic XRF sample cup. The technician then analyses the final prepared sample by instrument, and calculates the final result using the sample data and instrument output.

Accurate execution of these sample handling operations requires a great deal of skill and care. Every step of handling introduces a degree of error to the overall result. But every step is needed to ensure consistent overall precision, accuracy, and repeatability.

Errors Combine

Errors are generally expressed in terms of standard deviations, or "sigmas". Variance is the square of the standard deviation. The overall, or total, variance is the additive sum of the many individual variances created in each step of the process. The overall error (square root of overall variance) includes the contributions of sampling error, sample handling errors, sample preparation errors, and analytical error. Generally, you can most effectively reduce the overall error by reducing the largest contributing error.

Analytical errors are usually well-characterized, well-understood, and well-controlled by laboratory quality assurance and quality control procedures. By contrast, sampling and sample handling errors are not usually well-characterized, well-understood, or well-controlled. Sampling programs frequently neglect to implement quality assurance measures. To control overall error, one must control sampling and sample handling errors as well as analytical errors.

THE PARTICULATE NATURE OF SOIL

Soil particles range widely in size from clay (less than 0.0039 mm diameter) to silt (0.0039 mm to 0.0625 mm) to sand (0.0625 mm to 2.0000 mm). Particles larger than 2 mm in diameter are classified as gravel.[5] Natural soils are mixtures of different particle types and sizes.

By general agreement and tradition, particles larger than 2 mm in diameter should be removed (by U.S. number 10 sieve) from a soil sample before analysis. The excluded particles are large enough to be examined and classified by eye or by magnifying glass. Contaminants can also be particulate. Lead-bearing particles in soil can vary in size from sub-micron aerosol deposits (less than 0.001 mm diameter) to lead paint chips and lead shot (up to the maximum 2 mm diameter). Generally, the largest particles create the greatest challenge in sample handing.

Particulate Sampling Theory

A theory of particulate sampling was developed by geologist Pierre Gy to improve the quality of data gathered in support of mineral exploration and mining.[6,7] The theory has since been adopted by environmental scientists. The theory recognises two major categories of sampling error: sampling bias and fundamental error. Both types of error are measureable and controllable.

In general, a sample is intended to represent the a particular sampling unit, or volume of material. The sampling unit may be a particular plot of land (e.g. a certain 10 foot by 10 foot square), to a particular depth (e.g. surface to 4 inches). Or a child's sand box. Or a rail car load of ore. A single sample represents the entire sampling unit.

The sampling methodology is considered unbiased and correct if all of the particles in the sampling unit have exactly the same probability of being selected for inclusion in a random sample. The perfectly unbiased methodology is a practical impossibility. To reduce sampling bias, we must recognise the difficulties presented by the sampling unit. It may exhibit grouping or segregation of particles. Denser particles may have settled toward the bottom. New contaminants may have recently settled onto the unit, and may not be mixed into the volume. The contaminants may be heavily concentrated on one side of the unit, or concentrated in "clumps".

One method for sampling from a plot of land is to go to the center of the unit and shovel out the requisite amount of sample. However, we can reduce bias substantially by using a core sampling probe to control the depth and profile of the sample. More importantly, we can take soil from several different parts of the unit and mix it together as a composite to "increase sample support". By increasing sample support, we create a composite sample which more accurately reflects the average contaminant concentration of the unit than that of any single point sample. The composite sample reduces bias and improves accuracy over single point sampling without the expense of additional analysis.

FUNDAMENTAL ERROR IN SAMPLING

Fundamental error results directly from the particulate nature of the material sampled. For a given distribution of particle sizes and particle compositions, a random sample of fixed mass can never perfectly match the overall composition of the larger sampling unit. Even if every particle in the sample has been selected at random without bias from the sampling unit, the sample composition can differ from that of the overall sampling unit. The difference is randomly distributed according to statistical therory (see Appendices A and B).

You may find fundamental error easiest to understand in the case that the number of contaminant particles is small. Suppose that your sample size and contaminant particle concentration are such that the expected number of contaminant particles in a randomly selected sample is exactly 1.00. Then if you were to draw many repeat samples of the same size from the same sampling unit, the average

contaminant particle count would be close to 1.00. But not every sample would have a count of 1. Some of the samples would have 0, others would have 2 or more.

According to the Poisson formula (Appendix A) we can calculate the probability P_x of a particular count x when the expected, or mean, value is $\overline{x}$. In our example $\overline{x}$ = 1.00, so P_0 = 36.8%, P_1 = 36.8%, P_2 = 18.4%, P_3 = 6.1%, P_4 = 1.5%, and so on. Therefore 63.2% (100% - P_1) of the samples are probably going to give counts that are not 1, and are therefore off the mean by *at least* 1. If we calculate the standard deviation of the counts from many samples, it will approach the square root of the mean. In our example the error band of one standard deviation (1-sigma confidence) is therefore square root of 1.00, which is 1.00, or 100% of the expectation, or mean, value of 1.00. In other words, if you expect very few contaminant particles in your sample, expect very large relative errors.

With a larger sample size the expected contaminant particle count will increase, but the relative error will decrease. If we make our sample 4 times as large, then the mean particle count will be 4:00. The standard deviation will then be the square root of 4.00, or 2.00, which is 50% of 4.00. So if we quadruple the sample, the relative error is halved. Similarly, if we make our sample 100 times as large, the mean particle count will be 100 and the relative error will drop to 10%. To reduce fundamental error to below 10% (1-sigma confidence) we must ensure that our expected contaminant particle count is at least 100.

A Plausible Real-World Example

Are small particle counts possible in lead measurements at or above action levels? Yes. The worst case situation involves lead shot. Lead has been used for centuries in firearms ammunition. A very common traditional use of lead, projectile "shot" or small spheres, are packed by the hundreds into individual shotgun cartridges, or "shells". Shot range from 1 mm to about 5 mm in diameter, depending on the intended usage. Every shotgun blast, whether for hunting or trapshooting, scatters several hundred shot to the environment. The traditional alloy used for shot is around 95% lead by weight, with small amounts of arsenic and antimony added to improve manufacturability and increase hardness.[8]

Imagine a plot of land that was once used as a skeet shooting range. Suppose the average shot size was 2 mm diameter. From the diameter, you can calculate the volume of each shot and multiply by lead's density (11.3 g/cm^3), and arrive at an average shot mass of 0.047 gram. Using 95% as the lead concentration in the alloy, the average lead content of a shot is 0.045 gram. Say we sample soil with a sample size of 100 grams, typical for lead-in-soil sampling. At an action level of 400 ppm, or 0.04%, we would have an expected shot count per sample of 100 grams times 0.04% divided by 0.045 shot per gram, or 0.89 shot per sample. So soil contaminated with an average of 400 ppm lead may have an average of less than one contaminant particle (shot) per 100 grams. This result is actually even worse than the single particle example that gave a 100% error. The relative error is greater than 100% due to fundamental error alone. Other errors only add to the fundamental error.

The only way to reduce fundamental error in sampling is to take a larger sample size. In this example, to reduce fundamental error to a manageable 10% (or 40 ppm), we must increase sample size by a factor of 112, which would amount to more than 11 kilograms (24 pounds)! What laboratory would be willing to process such a sample in its entirety?

A Single Chip

Paint on older buildings often has a lead loading of 20 mg/cm^2 or more. Imagine that a single chip of such paint the size of your thumbnail (2 cm^2) falls into in a 100 gram soil sample. The chip contains

40 mg, or 0.040 grams of lead, nearly the same amount of lead as in a 2 mm shot. Take 0.040 grams and divide by 100 grams and multiply by 1,000,000 to get 400 ppm. Your single paint chip raised the lead concentration of an entire 100 gram sample by 400 ppm. If the soil has a background level lead content of 20 ppm without the chip, then the chip raises it to 420 ppm, and above the 400 ppm action level.

Now imagine you are kneeling down next to a house to take a soil sample. You see the paint chip. Take it, or leave it? According to HUD's Soil Sampling Protocol,[9] "If paint chips are present, they should not be avoided and should be included in the sample." (item C.5) Later, under the heading "Laboratory Analytical Procedure", the same protocol states "Samples are to be sieved once with a number 10 sieve with a mesh size of 2 millimeters." (item E.3) So far, so good. It continues "Visible paint chips are disaggregated by forcing the paint chips and other large particles through the sieve by a rubbing motion." Disaster. Whether the sample passes or fails depends entirely on whether you take the chip. Or whether you notice the chip. What if the chip is just below the surface, invisible? Go back to the same spot and sample again, and again. You may never obtain the same result again.

The author suggests a different approach. Leaded paint chips are always a potential hazard; the hazard increases over long periods of time as chips decompose into the soil. To knowingly include large chips of leaded paint in a soil sample accomplishes nothing; the result is foregone. If you do not already know the lead content of the paint chips, do have the paint chips analysed, but separately. As for the soil itself, pass it through the 2 mm mesh, but without trying to break up the paint chips. Include only the soil that passes through the mesh. If you find paint chips that do not pass through, study them carefully; find out where they came from; test them for lead content; but do not include them in the soil sample.

FUNDAMENTAL ERROR IN THE LABORATORY

Now imagine you are the lab technician. You have the soil sample, 100 grams, dried and sieved through the 2 mm screen. You see little paint chips in the sample, all of them just small enough to pass through the sieve, about 2 mm on a side. If they are leaded like the thumbnail sized chip, how many chips will it take to exceed the action level? How much fundamental error should you expect?

The average area is 0.2 cm times 0.2 cm, or 0.04 cm^2. At 20 mg/cm^2, the average lead content per chip is 20 mg/cm^2 times 0.04 cm^2, which is 0.8 mg, or 0.0008 grams. Assuming that there are no other leaded particles in the soil, 400 ppm would imply a chip count of 400 divided by 1,000,000, times 100 grams per sample, divided by 0.0008 grams per chip. A total of 50 chips. For a mean chip count of 50, the standard deviation of the chip is the square root of 50, or about 7.1. Therefore the fundamental error is 7.1 divided by 50, or 14.1%. Remember, this is only 1-sigma confidence!

I have analysed in great detail a actual sample that was very similar to the example given. I do not believe that this type of sample is unusual or uncommon; it was one of the first soil samples that I ever examined in detail. The soil came from the drip line of a train depot built in 1874. Of the portion of the 100 gram sample that passed through the 2 mm mesh, more than half of the lead content was contained in particles between 1 mm and 2 mm in size. See Table 1.

The assumptions that lead to a fundamental error of 14.1% are plausible, but also arbitrary. You may imagine worse cases of fundamental error due to higher lead content per chip or smaller sample sizes. The higher lead content per chip may be caused by higher lead loading in the paint film (40 mg/cm^2, say) or larger area chips (a 4 mm by 2 mm chip can fit through the 2 mm mesh). So it is possible you may experience fundamental errors of worse than 14.1% from 100 gram soil samples with lead paint chips. Since smaller samples only exacerbate this error, I strongly discourage sampling less than 50 grams for lead-in-soil where paint chips may be present.

Subsampling Error

The laboratory has dried the sample and sieved the sample through the 2 mm screen. Sample digestion methods generally require between 0.2 and 1.0 grams of sample material.[10, 11] The sensitivity of atomic spectrometry is more than adequate to analyse such small amounts of material; using a larger quantity of sample material would require larger amounts of acid, increase cost, and raise safety concerns. So the laboratory subsamples.

Subsampling leads to another set of errors. Once again we have bias and fundamental error. Suppose we subsample 0.3 grams from the same example 100 gram sample. If we subsample without any regard to homogenization or particle properties, the result will be analytical disaster. The mean chip count in the subsample will go from 50 in the 100 g sample to 0.15 in the 0.3 g sample. The fundamental error in the subsample will then be the square root of 0.15, which yields 0.39, or 258%. What is worse is that the most likely outcome is that no lead will end up in the subsample at all, and the result will be 0 ppm. In the off chance that a 2 mm by 2 mm chip lands in the subsample, the result will be 0.0008 g divided by 0.3 g, which is 2667 ppm. There is no chance that the result will be even close to the correct 400 ppm.

Fortunately, we can reduce the particle size and homogenize the sample thoroughly before we subsample. Say we grind the 100 gram sample until all the particles pass a U.S. Number 60 sieve (0.250 mm). Then the average particle might be roughly spherical with a diameter of 0.250 mm. The volume of the sphere would be 0.0082 mm^3 or 0.0000082 cm^3. If the lead bearing particles each have a lead loading of 15% and a density of 2 g/cm^3, then each will have a total lead content of 0.00000245 g (or 2.45 g). In a 0.3 g subsample of our 400 ppm lead sample the expected particle count is then 0.3 times 400, divided by 1,000,000, divided by 0.00000245, which is 48.9. The fundamental error would be the square root of 48.9, which is 7.0 counts, or 14.3%. The fundamental error from subsampling (14.3%) is actually slightly worse than what we calculated for the fundamental error from the original sampling (14.1%). Remember that the errors combine together (by adding the variances) to form an overall error that is worse than any of the several individual components. In the case of a sampling error of 14.1% and a subsampling error of 14.3%, the total error is 20.1%.

Realistic scenarios of subsampling could be even worse than those described. The lead content of dry paint film can be as high as 50%, far greater than 15%. Also, laboratories typically grind samples to a U.S. number 35 sieve (0.500 mm) rather than number 60 (0.250 mm) before subsampling. Larger particles translate to larger errors. With 50% lead content and 0.500 mm particles, the 0.3 g subsampling error could be as high as 74%!

One way to reduce subsampling error is to simply subsample and digest a larger amount. The ASTM method for sample digestion of soils for lead analysis[11], which is based on USEPA SW-846 Method 3050, calls for a 1.0 g subsample, more than three times larger than the 0.3 g subsample we calculated. In taking the larger subsample, the fundamental error from subsampling should be reduced by nearly half. But the method fails to deliver better performance, because it relaxes the grinding requirement from number 60 mesh (0.250 mm) to number 35 (0.500 mm). Doubling the particle diameter increases the volume of the spherical particle by a factor of 8, more than compensating the larger subsample. The fundamental subsampling error grows to 22.1%, and the total fundamental error becomes 26.2%.

Besides increasing subsample size, the laboratory can improve subsampling error by grinding the sample to a smaller particle size. Grinding to a 0.125 mm particle diameter, the laboratory reduces the fundamental error of the 0.3 g subsample from 14.3% to 5.1%. But grinding 100 grams of soil to such small particle size by hand methods (e.g. mortar and pestle) can be tedious and difficult. A method for speeding the particle size reduction without greatly increasing fundamental error is to grind and subsample in stages. If you grind the 100 g sample to 0.250 mm and subsample not 0.3 g, but 5 g, the fundamental error will be only 3.5% If you then grind the 5 g subsample to 0.125 mm and sub-

subsample 0.3 g, the fundamental error will be 5.1%. Combining the subsampling and sub-subsampling errors, you have an overall error of 6.2%. By reducing only 5 g of the 100 g sample to the smallest particle size, you avoid much of the effort of grinding and sieving the whole sample.

Other errors related to subsampling include bias and homogenization errors. An accurate subsample must be unbiased; every particle should have an equal probability of being subsampled. If the ground, sieved sample is not properly homogenized, there can be substantial segregation of particles by composition, shape, size, and or density. Some types of particles (e.g. magnetic or electrostatic particles) tend to group or clump together. An improper method for homogenizing a sample can actually create segregation. Agitation or shaking a sample with particles of different size, shape, or density will likely cause stratification. With agitation, denser, smaller and rounder particles tend to drop to the bottom, while less dense, larger and flatter particles tend to rise to the top. Finely ground samples do not stratify as readily as the raw, unground sample.

One way to avoid homogenization error in subsampling is to make use of mechanical sample splitting devices. A riffle splitter, for example, can efficiently eliminate segregation errors in subsampling. If mechanical splitters are not available, then the manual cone-and-quarter method can reduce bias in subsampling.

OTHER LABORATORY ERRORS

A number of other laboratory errors affect the analysis of lead-in-soil. The sample should be dry; water content should be no more than around 2 or 3% of the sample mass. For atomic spectroscopy requiring acid digestion of the sample, the the laboratory must measure the sample mass and solution volume, and record the data accurately. To avoid sample to sample cross contamination, the laboratory must clean tools and containers between samples. The lab must track each sample and follow every preparation step according to protocol, using the proper tools and properly maintained and calibrated equipment. Overall, laboratory error should be small and well controlled; otherwise, lapses in quality can easily lead to substantial error.

Sample Dissolution

An acid digestion or extraction procedure must achieve reproduceable results for the contaminant of interest in any of its likely physical or chemical forms. The procedure should allow ample time for the dissolution of the sample to finish. In general, reducing particle size speeds the dissolution to completion. Some chemical forms of lead tend to be difficult to dissolve. Of particular difficulty in this regard are the lead chromates, colored pigments commonly used in marine, exterior, and signage paints. Standard acid digestion procedures and suitable quality control will likely provide consistency to within a few percent under most circumstances.[10]

Instrumental Error

Instrumental errors generally fall into the categories of signal-to-noise and interference. Atomic spectrometry methods (AAS, ICP-AES) generally provide excellent sensitivity for the lead-in-soil application, with detection limits of 10 ppm or lower. Signal-to-noise ratios are correspondingly high. Matrix related interferences are also fairly low and well controlled in modern atomic spectrometry instruments. The overall instrumental sensitivity, precision, and accuracy are excellent, with errors in the range of nearly negligible compared to the other sources of error already discussed.

X-ray fluorescence (XRF) generally has worse sensistivity than AAS or ICP-AES, but with the compensating advantages of portability and less intensive sample preparation requirements. Matrix effects due to variable elemental composition can be a concern with XRF, but the lead-in-soil application is fairly benign in this regard. Sophisticated matrix correction methods (e.g. "fundamental parameters") have been developed and proven successful;[12,13,14] but even simple techniques, such

as Compton Normalization, work surprisingly well in this application.[14,15,16]

XRF has an additional particle-related bias when the particle size becomes large compared to the attenuation length for the analyte's fluorescence x-ray.[15] In lead-in-soil analysis, large contaminant particles cause negative bias. For analysis using the lead 12.6 keV x-ray, particle size should be reduced to 0.125 mm or smaller to control this effect. [Table 2]. Of course, to avoid severe subsampling errors, you should already be grinding samples to small particle size.

Note that the larger subsample required for XRF (3 to 5 grams, typically) does not reduce the subsampling error of XRF relative to digestion based methods. Only about 0.3 grams of the typical XRF soil sample (approximately 1 mm depth in a 25 mm diameter XRF sample cup) produces the major part of the instrument response.[16] Therefore, the subsampling error is about the same as if a 0.3 gram subsample had been drawn rather than a 3 gram subsample.

The analytical error of field portable XRF is around 10 to 15 percent for lead-in-soil samples at 400 ppm. While this analytical error is far worse than that of laboratory atomic spectrometry, the overall error of the methods may be fairly similar after taking into account sampling, sample handling, and sample preparation.[17]

THE SMALL PARTICLE CASE

If all the contaminant particles of the sample unit are very small, then fundamental errors greatly diminish, and sample handling can be simplified. Lead contamination from airborne sources (e.g. automobile emissions, smelter emissions, incinerator emissions, abrasive blasting of painted surfaces) and from chalking (powdery deterioration) of painted surfaces tends to be dispersed as fine particles. If the lead is found only in particles less than 0.032 mm (32 microns) in diameter, then the fundamental error for a 0.3 gram sample or subsample cannot be more than 4% at 400 ppm. In such a sample, grinding and sieving are not likely to make dramatic differences in the laboratory result. Sampling bias resulting from spatial variation is still a concern, so I always recommend careful attention to sampling design, sample support, and homogenization.

Even with the minimal sample preparation (dry, sieve 2 mm, mix), field portable XRF can perform very well in cases of small particle size.[18,19] The minimal sample preparation and high analytical throughput of XRF enable an investigator to collect large quantities of useful data in a short period of time, and at low cost. In many situations, the field XRF provides better overall decision making data than laboratory analysis by virtue of its ability to overcome spatial variability through massively increased sampling density.[20,21]

IN-SITU FIELD XRF

The in-situ capability of some field portable XRF instruments may be especially attractive for high speed, low cost screening and characterization. Depending on the nature of the contaminant and the soil matrix, the in-situ method can offer screening quality data with practically no sample preparation at all. To reduce bias and increase sample support, the field technician can mix and composite a sample on the ground before an in-situ XRF measurement.

Moisture and particle size effects can be especially pronounced for in-situ XRF, so quality assurance is especially important. The field technician may prepare one or more samples by the full protocol (dry, grind, sieve, split) in the field and compare the result to the in-situ measurement to determine if the soil conditions allow the in-situ XRF method to meet the data quality objectives. To back up field measurements, the technician should collect representative samples for laboratory analysis.

QUALITY ASSURANCE FOR SAMPLING AND ANALYSIS

Quality assurance programs usually include sample duplicates, replicates, spikes, blanks, and splits. To assess field based error (that is, error caused by sampling and sample handling), the sampling program should include field duplicates and replicates taken as early as possible in the sampling process. To assess the error due to spatial variation and sampling, the field technician takes duplicates or replicates according to the normal sampling protocol, but from spatially distinct points (sample points should be spread apart from each other) within the representative sampling unit. To assess the error due to sample handling, the technician makes several large field composites and splits them into duplicates or replicates before commencing any sample handling operations.

To assess the error due to final sample preparation and analysis, the field or lab technician splits sample material into duplicates or replicates just before the final sample preparation (e.g. before digestion, or before putting material into XRF cup). Several splits may be sent to an independent laboratory for confirmatory analysis. Spikes and blanks serve to assess analytical recovery and bias. Of course, the quality assurance program should take care to use sample splitting methods that do not introduce significant bias. Chappel and Olsen[22] and Shefsky[23] give practical guidance for using confirmatory data to evaluate the quality of field data.

CONCLUSIONS AND RECOMMENDATIONS

The major goal of measurement in a environmental project is to provide accurate data for assessing risk and deciding on remedial action to lower risk to an acceptable level. The optimal sampling design accomplishes that goal while keeping the total of sampling, analysis, and remediation costs to a minimum. The quality of data provided for decision making depends on the overall error; that is, the combined errors of sampling, sample handling, and analysis. Field analysis often provides the best overall data quality by allowing for low cost, high density sampling of spatially variable sites.

All measurement projects should include a quality assurance program that evaluates error resulting from sampling, sample handling, and analysis. Sampling and sample handling are especially critical components to overall data quality. Sampling protocols must consider the important effects of sample definition, sample support, spatial variability, segregation and grouping bias, and fundamental error due to particulate sampling and subsampling.

In order to control sampling and sample handling errors for lead-in-soil, the author recommends that sampling protocols:

* Ensure data quality objectives (DQO's) are clear.

* Use a low-bias sampling method (e.g. core sampling) to define the sample.

* Use composite samples to increase sample support.

* Collect 100 grams; consider collecting more than 100 grams if paint chips may be present.

* Dry the sample, if possible.

* Exclude particles larger than 2 mm. Examine large particles separately.

* Reduce particle size (preferably to 0.125 mm or less) before subsampling.

* Use low-bias methods for sample splitting (e.g. riffle splitter, cone-and-quarter).

* Implement quality assurance for sampling and sample handling as well as analysis.

* Use confirmatory data to evaluate the effectiveness of field methods.

If the data quality objectives and site characteristics allow for relaxed field sample preparation or in-situ protocols, do take advantage of the higher analytical throughput to collect more data. But always proceed with a degree of caution and support your data with solid confirmatory analysis.

ACKNOWLEDGEMENT

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APPENDIX A: STATISTICAL BASIS OF FUNDAMENTAL ERROR

For a sampling unit containing n contaminant particles, the probability P_x that an unbiased sample will contain x such contaminant particles is given by the binomial distribution:

$$P_x = \left(\frac{n!}{x!(n-x)!}\right) p^x (1-p)^{n-x}$$

where x is an integer and p is the probability that any particular particle will be in the sample. Note that the sum of all probabilities (the sum of P_x for x running over the range of 0 to n) is always 1. The probability for an individual particle, p , is simply the mass of the sample, m , divided by the mass of the sampling unit, M .

The mean or "expected" value for the number of contaminant particles in the sample, $\bar{x}$ can be found by summing the function xP_x over the range of $x=0$ to n . The resulting mean is simply $\bar{x} = np$, as one would reasonably expect.

The variance σ_x^2 of the number of contaminant particles around the mean $\bar{x}$ is found by summing the function $(x - \bar{x})^2 P_x$ over the range of x=0 to n. The resulting variance is $\sigma_x^2 = \bar{x}(1 - p)$. If the mass of the sample is much smaller than the mass of the sampling unit, then p = m / M will be much smaller than 1, and drops out of the formula, leaving $\sigma_x^2 \approx \bar{x}$. The standard deviation of x, or σ_x, will then be approximated by SQRT($\bar{x}$).

In calculating fundamental error for an even 50/50 sample split, where n is the number of contaminant particles in the whole sample (now considered the sampling unit for the splitting operation), $p = 0.5$, so

$$\bar{x} = 0.5\, n \text{ , and } \sigma_x^2 = 0.5\, \bar{x} .$$

In the limit as the sampling unit becomes extremely large, (n becomes extremely large, p becomes very small) the probability distribution simplifies to the Poisson formula:

$$P_x = \bar{x}^x e^{-x} / x!$$

where the mean, or expected value, is once again $\bar{x}$. As before, the variance, σ_x^2, *simplifies to* $\bar{x}$.

APPENDIX B: PIERRE GY'S PARTICULATE SAMPLING THEORY

An overview of Gy's sampling theory can be found in Ingamells and Pitard.[6] An important element of the theory is the concept of fundamental error. Fundamental error (FE) is an inherent property of the particulate nature of geological samples. FE can never be removed from a sample, but it can be reduced by controlling the maximum particle size allowed into the sample, and increasing the sample size.

FE is the product of a several factors. In terms of the variance, σ_{FE}^2,

$$\sigma_{FE}^2 = f\, g\, m\, b\, (u')^3 / w$$

where w is the sample weight, f is the shape factor, g is the particle size distribution factor, m is the mineralogical composition factor, b is the liberation factor, and u' is the maximum allowed particle dimension.

The shape factor f accounts for the typical shape of particles in a particular sampling unit. For cubes, f is exactly 1. For spheres, f is /6 (about 0.5). For flattened particles and flakes, f is less than 0.5, and for elongated particles f can be greater than 1.

The particle size distribution factor g accounts for the different sizes of particles in the sample. If all particles were the same size as the maximum allowed, g would be exactly 1; otherwise, g lowers with the presence of fine particles. Generally, g is much less than 0.5 for the original soil sample, rises to between 0.5 and 1.0 upon sieving. The factor g can never exceed 1.

The mineralogical composition factor m accounts for the presence of analyte (lead) in the ore mineral (contaminant material) and in the gangue mineral (background soil), as well as the density of the mineral components. If the contaminant particles contain much higher concentrations of lead than background and account for the largest share of the total lead, then m is approximately the density of the contaminant material times the ratio of the lead concentration in the contaminant to the concentration of the lead in the total sample.

The liberation factor b allows the ore mineral to be contained in completely separate particles from the gangue mineral (b is exactly 1), or in attached particles (b is less than 1).

The maximum allowed particle dimension u' for soil testing is 2 mm, the opening size of the U.S. Number 10 sieve. Reduction of particle size by grinding and sieving reduces maximum particle dimension u' .

Table1: Distribution of lead by particle size in a lead-in-soil sample from the dripline of an 1874 train depot. The sample contained visible paint chips.

Min. size (mm)	Max. size (mm)	mass (g)	ppm Pb	mg Pb
2.000	& above	8.605	NA	NA
1.000	2.000	7.530	7531	56.7
0.500	1.000	13.814	1317	18.2
0.250	0.500	24.315	297	7.2
0.125	0.250	21.716	236	5.1
0.063	0.125	10.996	323	3.6
0.000	0.063	12.462	630	7.9
	Totals:	99.438		98.7

Table 2: XRF particle effect for lead-in-soil derived from lead bearing paint. The original sample from the dripline of an 1874 train depot was separated by sieve into seven particle size ranges prior to independent analysis of the fractions. Recovery (%) is the response of the sample unground relative to the same sample ground to pass 0.032 mm. Note that analytical recovery is generally poor for the largest particle sizes.

Min. size (mm)	Max. size (mm)	Recovery (%)
1.000	2.000	3
0.500	1.000	31
0.250	0.500	46
0.125	0.250	70
0.063	0.125	90
0.000	0.063	100

Table 3: Example calculations of fundamental error in lead-in-soil sampling and subsampling based on realistic assumptions of concentration and density. Note that σ_{FE} is the calculated 1-sigma relative error at an average contaminant lead concentration of 400 ppm. We assume particles to be spherical, except for paint chips, which we assume to be flat squares. Since real-world contaminants vary widely in particle size, shape, and concentration, one should view these figures as rough approximations.

Contaminant particle	Assumptions	Sample or subsample size (grams)	σ_{FE} (%)
Lead shot, 2 mm dia.	95 % Pb, density 11.3 g/cm^3	100	>100
Paint chips, 2 x 2 mm	20 mg/cm^2 Pb	100	14.1
Paint chips, 1 x 1 mm	20 mg/cm^2 Pb	100	7.1
Paint, .500 mm (#35)	15 % Pb, density 2 g/cm^3	0.3	40.5
Paint, .500 mm (#35)	15 % Pb, density 2 g/cm^3	1.0	22.2
Paint, .250 mm (#60)	15 % Pb, density 2 g/cm^3	0.3	14.3
Paint, .250 mm (#60)	15 % Pb, density 2 g/cm^3	1.0	7.8
Paint, .125 mm (#120)	15 % Pb, density 2 g/cm^3	0.3	5.1
Paint, .125 mm (#120)	15 % Pb, density 2 g/cm^3	1.0	2.8

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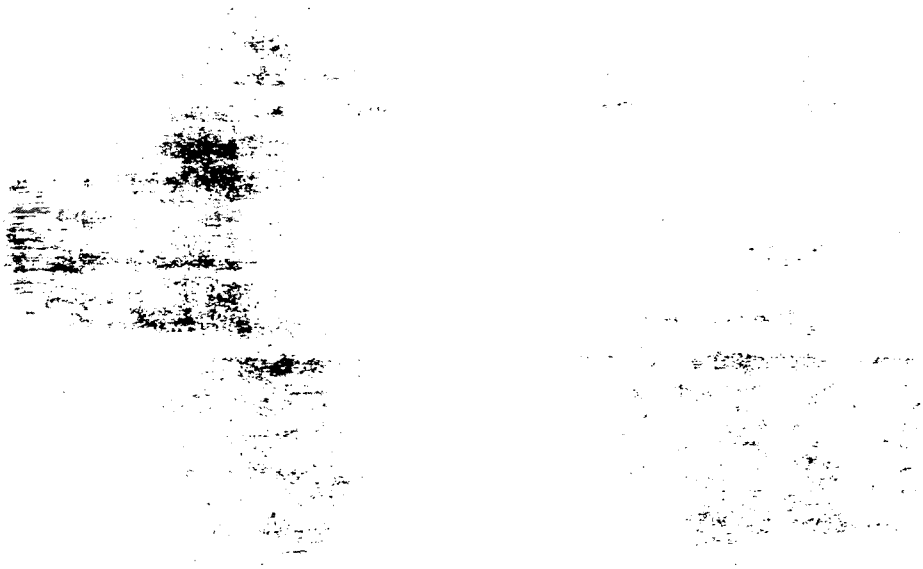
APPENDIX G
PACKING AND SHIPPING OF ENVIRONMENTAL SAMPLES



SVERDRUP ENVIRONMENTAL, INC. *Omaha Lead Refining Work Instruction*	Procedure No: OWI-002 Rev: 1	Page: 1 of 6
	Original Issue Date: 15 February 1999	Revision Date:
Issuing Department: *Overland Park Quality Assurance*	Supersedes Procedure: *N/A*	
Subject: ***PACKING AND SHIPPING OF ENVIRONMENTAL SAMPLES***	Approval: Quality Manager: _____ Program Manager: _____	

1.0 PURPOSE

The purpose of this Work Instruction (WI) is to provide a guide for the packing and shipping of environmental samples with the appropriate chain-of-custody (COC) forms. This is in accordance with all applicable transportation regulations and analytical requirements and proper COC records.

2.0 SCOPE

This WI applies to all Sverdrup personnel and subcontractors involved in the packing and shipping of environmental samples. Samples determined to be hazardous shall be managed in accordance with the Sverdrup Corporate Health and Safety Manual, *Labeling, Packaging, and Shipping of Hazardous Waste Site Samples.*

3.0 DEFINITIONS

1. Absorbent Material: Packing material with absorbent capacity. This includes asbestos-free vermiculite and perlite.
2. Chain-of-Custody Record: Provides direction to the laboratory for sample analysis. This record must accompany the related samples from the time of sample collection, through shipping, and to laboratory receipt.
3. Courier: Person who maintains personal custody of packaged samples and COC records while delivering the samples from the field to a specified laboratory.
4. Custody: A sample is under custody if one or more of the following criteria are met:
   - The sample is in a person's possession.
   - It was in the person's possession and then was locked up to prevent tampering.
   - It is in a designated secure area.
5. Custody Seals: When samples are shipped to the laboratory, they must be placed in padlocked containers or containers sealed with custody seals. Other types of custody seals may include unnumbered seals and evidence tape. Custody seals should have perforations stamped in the seal such that an attempt to remove the seal will be clearly evident by the torn perforations. Custody seals shall be initialed and dated by the sample packer or collector.

6. Environmental Samples: Air, water, soil, sediment, and tissue samples collected during an environmental investigation being sent to a lab for analysis. These are differentiated from hazardous materials based on contamination levels.
7. Hazardous Samples: Samples which are determined by the field team to be potentially hazardous. These are typically samples from chemical/fuel drums or tanks, samples of sludge or floating product, environmental samples from known areas of concentrated contamination, samples with very high photoionization detector (PID) or lower explosive limit (LEL) monitor readings, or samples which are grossly contaminated (e.g., stained soils). These samples shall be differentiated from environmental samples by knowledgeable field personnel and shipped as hazardous materials.
8. Packing Material: Material used to absorb moisture or dampen shock during sample shipment. Examples include bubble wrap, vermiculite, styrofoam, kitty-litter, etc.
9. Receipt: Acquisition of samples from the person who had custody of the samples. On receipt of the samples, a sample inventory and inspection of the custody seals shall be performed by the recipient. After checking the samples, the COC must be signed by the receiver and the date and time recorded. This information is then legal evidence that the COC had been maintained until the time of receipt. The responsibility for sample custody is then transferred to the receiver.
10. Relinquishment: Transfer of sample custody. Relinquishment of samples to a receiver requires the relinquisher's signature, date, and time to be entered on the COC form. Samples should not be relinquished without re-checking the samples against the COC records and determining all the samples are present, intact, and have not been tampered with. The relinquisher's signature is evidence that the samples have been checked.
11. Shipping Manifest: U.S. Department of Transportation (DOT) document which describes the material being transported, identifies the generator and transporter(s), and instructs the transporter(s) on any special handling requirements.

The shipping manifest serves three primary purposes:

- It serves as a tracking device to trace shipments of hazardous substances.
- It provides information on the contents manifested during transport emergencies.
- It is used for record-keeping and reporting on hazardous substance shipping by the USEPA and the disposal facility.

Shipping manifests must accompany hazardous samples.

4.0 METHOD

4.1 General

Environmental samples and quality control samples are collected, labeled, and sealed in the field, and COC is maintained, as defined in the Work Instruction *Environmental Sample Management (Field).*

40 Code of Federal Regulations (CFR) Part 261.4 describes sample shipping requirements. It states that:

"... a sample of solid waste or a sample of water, soil, or air, which is collected for the sole purpose of testing its characteristics or composition, is not subject to any requirements of this part (hazardous materials shipping requirements)... when:

i. The sample is being transported to a laboratory for the purpose of testing
ii. The sample is being transported back to the sample collector after testing.

In order to qualify for the(se) exemption(s)..., a sample collector shipping samples to a laboratory and a laboratory returning samples to a sample collector must:

(i) Comply with DOT, U.S. Postal Service (USPS), or any other applicable shipping requirements
(ii) Comply with the following requirements if the sample collector determines that DOT, USPS, or other shipping requirements do not apply to the shipment of the sample:

(A) Assure that the following information accompanies the sample:

(1) The sample collector's name, mailing address, and telephone number;
(2) The laboratory's name, mailing address, and telephone number;
(3) The quantity of the sample;
(4) The date of shipment; and
(5) A description of the sample.

(B) Package the sample so that it does not leak, spill, or vaporize from its packaging."

Samples shall be assessed to determine potential hazard. Potentially hazardous samples are required by law to be properly handled and labeled. Good judgment on the part of the sample coordinator is also necessary to identify hazardous samples.

Note: Hazardous samples must be labeled, packaged, and shipped as hazardous.

Samples determined to be non-hazardous by the Sample Coordinator are environmental samples. They are to be labeled, packaged, documented, and shipped as described in Section 4.3.

4.2 Responsibilities

4.2.1 Site Manager/Field Team Leader

The Site Manager/Field Team Leader shall be aware of this WI and schedule accordingly, taking into account that packing hazardous samples requires more materials (e.g., properly labeled paint cans and manifests) and more time than packing environmental samples. The Site Manager/Field Team Leader is responsible for overall compliance with this WI.

4.2.2 Sample Shipper/Controller

The Sample Shipper/Controller is responsible for assuring that all information (labels and COC forms) generated by or input to Sverdrup Environmental Sampling Software is correct. The Sample Shipper/Controller shall pack the coolers, ensure that the COC forms are correct, and ship the samples as described in Section 4.3. The Sample Coordinator shall determine which samples are potentially hazardous and ship them accordingly.

4.2.3 Sample Collector

The Sample Collector shall ensure that the samples are correctly collected, labeled, tracked by COC, and stored until they are delivered to the Sample Shipper/Controller. The Sample Collector shall be responsible for informing the Sample Shipper/Controller of sampling conditions and if any of the samples are potentially hazardous.

4.3 Procedures

Determine the maximum allowable weight of each cooler (Federal Express limit is 150 pounds).

Place each container in a ziplock bag and seal, squeezing as much air as possible from the bag before closing. Glass jars will be wrapped in bubble wrap.

Tape the cooler's drain plug shut on the inside and the outside.

Place large size plastic bags in bottom of cooler and fill with approximately two inches of material, such as asbestos-free vermiculite or perlite.

Place a large size plastic bag (trash bag) in the cooler (on top of the absorbent material) to contain samples (double bagged).

Place the bottles upright in the plastic bag, with enough room for ice bags to be placed among and around the containers, and insulate with enough bubble wrap to deter breakage.

Place a minimum of three one-gallon bags of ice (double-bagged) among the containers along the walls and top of each cooler in a manner to ensure uniform cooling. When shipping soil samples, place one bag of ice along the bottom of the cooler as well. For water samples, place the bottles upright in absorbent material to provide additional stability. Do not use blueice as its heat capacity is lower than regular ice. Do not use dry ice. If the *Sample Shipper/Controller* is informed by the laboratory that the samples are not being chilled sufficiently, additional ice may be required.

Fill the remaining space in the cooler with inert cushioning material (i.e., asbestos-free vermiculite, perlite, beads, or bubble wrap).

If shipping via commercial carrier (e.g., Federal Express), write the carrier's airbill number on the COC form, place the appropriate pages of the COC form inside a ziplock bag, and seal the bag.

The COC form has four pages. The top white copy should be sealed inside theziplock bag and placed inside the cooler. The pink page goes to project data management, and the goldenrod copy is placed in field files. The COC form sent to the laboratory must be completed with all designated information, the pages must be originals (not photocopies), and the COC must be unique to the samples contained in the cooler.

If a courier from the laboratory is collecting the samples and delivering them to the laboratory, have the courier confirm that all samples listed are present and then sign the COC form.

Tape the ziplock bag with the COC form to the inside lid of the cooler, and close and latch the cooler.

Wrap strapping tape completely around the cooler on both sides of the latch.

Affix "This Side Up" labels on all four sides of the cooler and "Fragile" labels on at least two sides.

Affix the shipping label with the address and telephone number of the laboratory and the Jacobs field office.

Affix signed custody seals on the front right and back left of the cooler across the lid, so as to tear if the cooler is opened during shipping.

The laboratory should be notified if the samples are being delivered via courier. They should be prepared to receive and check the samples and sign the COC form as the sample receiver.

5.0 RELATED DOCUMENTS

5.1 References

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6.0 ATTACHMENTS/APPENDICES

Not applicable.

APPENDIX H
FIELD ACTIVITY RECORDS

SVERDRUP ENVIRONMENTAL, INC. *Omaha Lead Refining Work Instruction*	Procedure No: OWI-003 Rev: 1	Page: 1 of 6
	Original Issue Date: 15 February 1999	Revision Date:
Issuing Department: *Overland Park Quality Assurance*	Supersedes Procedure: N/A	
Subject: ***FIELD ACTIVITY RECORDS***	Approval: Quality Manager: _____ Program Manager: _____	

1.0 PURPOSE

The purpose of this Work Instruction (WI) is to set site-wide criteria for content entry and form of field logbooks, and to document procedures employed in recording site activities photographically or using a video camera.

2.0 SCOPE

This WI applies to all Sverdrup personnel and subcontractors who record information in field logbooks, or employ photographic or video techniques to document site activities.

3.0 DEFINITIONS

None.

4.0 METHOD

4.1 General

An essential part of the sampling/analytical portion of any environmental project is assuring that proper documentation of all activities is accomplished. The primary document used to record site data is the field logbook. Tasks where analytical data or conclusions based upon analytical data may be used in litigation demand that accountability of the history of a sample be available to demonstrate that the data are a true representation of the environment. The field logbook may be used as evidence in legal proceedings to defend procedures and techniques employed during site investigations. **Therefore, it is extremely important that field logbook documentation be factual, complete, accurate and consistent.**

Likewise, when photographic or videographic techniques are used to document site activities, the goal of the records is a true representation of field activities that accurately portrays site conditions or procedures.

4.2 Responsibilities

4.2.1 Site Manager/Field Team Leader

The Site Manager/Field Team Leader is responsible for ensuring field team members are equipped with field logbooks and that logbooks are being used consistent with this WI.

He or she must designate a field team member to photograph or video record activities before they commence (when appropriate), if one has not been previously designated. He or she is responsible for ensuring the data entries made into field logbooks and photographic or video recordings comply with this WI.

4.2.2 Field Personnel

All Field Personnel who make logbook entries are required to read this WI prior to engaging in this activity. The Site Manager/Field Team Leader will advise Field Personnel who will be responsible for field book entries, care and maintenance.

Field personnel taking photographs or making video recordings should be proficient in the use of the equipment employed and capable of performing minor maintenance (cleaning lenses, checking and replacing batteries). They must be aware of the importance of adequate lighting in obtaining quality visual recordings, and to the extent practicable avoid making visual recordings under conditions likely to produce poor or useless images (shooting at night or twilight without adequate artificial illumination, shooting into the sun, etc.)

4.3 Procedures

4.3.1 Preparation

New field logbooks will be obtained as needed from the Site Manager/Field Team Leader. The field logbook will be signed out by the individual responsible for its care and maintenance on a daily basis.

Field logbooks will be bound with lined, consecutively numbered pages. All pages must be numbered prior to initial use of the logbook. The following information shall be recorded inside the front cover of the logbook:

- Field document control number
- Activity
- Sverdrup Engineering
- Phone number
- Site contact (Site Manager/Field Team Leader).

The first five pages of the logbook will be reserved for a table of contents. The first page will be marked with the following heading:

TABLE OF CONTENTS

Date/Description	Page
(Start Date)/Reserved for Table of Contents	1-5

The remaining pages of the Table of Contents will be designated as such with "Table of Contents" written on the top center of each page.

4.3.2 Operation

The following requirements must be followed when using a logbook:

- The date, project name, and location must be recorded at the top of each page, plus project name, location, and well number or activity LFFMW03 GW sampling.
- If data collection forms are specified by an activity-specific plan or procedure, the information need not be duplicated, but forms must be referenced in the logbook.
- All changes must be made with a single line through the deletion. Changes must be initialed and dated. A diagonal line must be drawn through any space left at the bottom of each page.
- The bottom of each page shall be signed by the author.
- Do not remove any pages from the logbook.
- When relinquishing your logbook to another individual, you must record a statement below your last entry indicating who will be receiving the logbook. Sign and date this statement.

Entries into the field logbook shall be preceded with the time (written in military units) of the observation. The time should be recorded frequently and at the point of events or measurements that are critical to the activity being logged.

At each station where a sample is collected or an observation made, a detailed description of the location is required. A sketch of the location indicating boring or sample locations is required. The sketch or diagram should be detailed enough for other individuals to locate the points at future times. A direction indicator or compass direction should be located on the sketch. It is preferred that maps and sketches be oriented so that north is towards the top of each page. A wind direction arrow should also be recorded on the sketch.

Events and observations that should be recorded include, but are not limited to:

- Changes in weather that may impact field activities
- Deviations from procedures outlined in any governing documents. Also record the reason for any noted deviation.
- Problems, downtime, or delays
- Upgrade or downgrade of personal protective equipment
- All equipment models and serial numbers used at the site
- All team members and visitors
- Actual and background readings of health and safety monitoring equipment
- Identification of equipment used, including property and/or serial identification numbers
- Start and end times of sample locations
- Decontamination times and methods.

When samples are collected, the following should be recorded:

- Sample location
- Sample number
- Sample methodology
- Sample description
- Sample collector
- Sample depth
- Sample type
- Sample analyses requested
- Sample preservation and confirmation
- Manufacturer and lot number of preservatives
- Quality control (QC) sample numbers and types
- Chain-of-custody number
- Name of individual to whom samples are relinquished.

4.3.3 Visual Recordings

When visual recordings (photographs or video recordings) are made, a specific field logbook should be obtained to document these activities. At the start of the day, the weather conditions should be recorded; the weather should also be noted if site conditions change (e.g., weather goes from clear to overcast). For each photograph, the following information must be recorded:

- Location
- Date and time
- Photographer
- Detained description of subject of photograph
- Direction of photograph (e.g., "taken facing northwest, sun behind photographer")
- Identification of individuals in the photograph and their affiliation (Sverdrup, subcontractor firm name, EPA, NDEQ, etc.)
- Photograph number and roll of film number

APPENDIX I
CHAIN-OF-CUSTODY FORM

Chain of Custody Record

PDP Analytical Services
1680 Lake Front Circle, Suite B ▪ The Woodlands, Texas 77380 ▪ Phone (713) 363-2233 ▪ Fax (713) 298-5784

Client Name / Address:	Send Report to:

Project Number:	Project Name

Samplers (Signature).	P.O. Number

Sta. No.	Date	Time	Comp.	Grab	Station Location	Number of Containers	Matrix								Remarks

Relinquished by (Signature)	Date / Time	Received by (Signature)	Date / Time	Remarks:
Relinquished by (Signature)	Date / Time	Received by (Signature)	Date / Time	
Relinquished by (Signature)	Date / Time	Received for Laboratory by (Signature)	Date / Time	
Method of Shipment:				PDP Quote Number:

Distribution: Original accompanies shipment; Copy to coordinator and field files

BLACK & VEATCH

6601 College Boulevard
Overland Park, Kansas 66211 USA

Tel: (913) 458-2900

Black & Veatch Special Projects Corp.

U.S. Environmental Protection Agency
Omaha Lead Site
WA 048-SISI-07ZY

BVSPC Project 46904
BVSPC File A.1
May 1, 2001

Mr. Don Bahnke, Work Assignment Manager
U.S. Environmental Protection Agency
Region VII
901 North 5th Street
Kansas City, KS 66101

Subject: Modifications to FSP for the Omaha Lead Site

Dear Don:

As we have discussed, the following provides modifications and clarifies the existing field sampling plan (FSP).

1.0 INTRODUCTION

- There are no modifications to this subsection.

1.1 Site Description

- The EPA Region VII Lab will perform the analysis of the soil samples.
- No paint samples will be collected.
- There will be approximately 1300 soil samples collected and analyzed.

1.2 Site History

- There are no modifications to this subsection.

1.3 Geology/Hydrogeology

- There are no modifications to this subsection.

1.4 Objectives

- There are no modifications to this subsection

1.5 Contaminant Concentrations of Interest

- Bismuth is not a hazardous constituent, but it will be used in identifying potentially responsible parties (PRPs). Bismuth will be analyzed for by the laboratory and will be included in the analytical database.

the imagine•build company™

1.6 Required Detection Limits

- Bismuth is not a contaminant of interest.

2.0 LOGISTICS

2.1 Personnel Requirements

- Additional sampling teams may be added.
- Digital photographs will not be taken. A picture of each sampling location will be taken, scanned and saved on CD.

2.2.1 Personal Protective Equipment (PPE)

- Modified level D PPE will be utilized. Steel toe boots will not be required.

2.2.2 Decontamination Equipment

- There are no modifications to this subsection.

2.2.3 Sampling Equipment

- There are no modifications to this subsection.

2.3 Schedule

- The site investigation schedule has been modified. The site investigation is anticipated to begin the week of November 27, 2000.

2.4 Site Access

- Access for personnel to perform the described sampling activities will be arranged by BVSPC, Tapan Am and a subcontractor during the investigation.

2.5 Public and Media Inquiries

- There are no modifications to this subsection.

3.0 FIELD OPERATIONS

3.1 Sampling Rationale and Locations

- The NERL identified 14 areas (street blocks) which require sampling. Within each area, four residential homes will be sampled per block.
- There will be approximately 1300 soil samples collected and analyzed.
- No samples will be collected from the ASARCO and Union Pacific Railroad properties.
- No background samples will be collected.
- Some *in situ* measurements may also be conducted.
- XRF screening may also be performed at the Omaha office location after drying of the samples has occurred.

- Digital photographs will not be taken. A picture of the sample location will be taken, scanned, and saved on CD.
- Limited GPS readings will be collected at homes where GPS is not available through ArcView or the 911 database.
- Paint samples will not be collected and analyzed.
- An XRF reading will be taken on the side of residences that have foundation samples equal to or greater than 400 mg/kg.
- At one location, three depth samples will be collected with every tenth surface sample.
- Table 3.1-1 Estimated Sample Quantities is not accurate for the BVSPC sampling rationale. Approximately 1300 total soil samples will be collected.

3.2 Surface Soil Sampling/Screening

- Only the cadmium radioactive source will be used during the x-ray florescence (XRF) analysis. Off-site laboratory samples will continue to be analyzed for all EPA SW-846 method 6010B analytes.
- The NITON will not be calibrated every hour. It will be calibrated at the beginning and end of the day's field activities.
- The following procedure will be used when collecting and analyzing surface soil samples:
  1) Test bulk soil sample mode by using the arrow keys to select Test Soil, Bulk Sample. From the Setup Menu, press the Clear/Enter button. Press Clear/Enter on the main menu for Calibrate and Test. The NITON will beep and display Ready to Test.
  2) Prior to sampling the bulk soil samples, turn the NITON on for at least 15 minutes. Choose the Bulk Sample mode from the Setup Screen. The NITON is now ready to analyze bulk soil samples.
  3) Collect composite soil samples from an area approximately 1.5 by 1.5 feet in size and 1-to-2 inches deep. Use a stainless steel hand trowel or spoon to make vertical columns.
  4) Collect three aliquots from three widely distributed locations within each quadrant. Collect approximately 50 grams of soil from each aliquot location. Place the three aliquot soil samples in a stainless steel mixing bowl and homogenize.
  5) When collecting grab/discrete soil samples use a stainless steel trowel or spoon. The trowel or spoon should be inserted into the ground at a 45 degree angle. Collect a half-inch thick soil sample and do not shake the sample during collection. Collect approximately 100 grams of soil.

6) Dry samples if necessary. The sample must be dried enough to pass though a No. 10 (2 mm) mesh screen sieve. Samples will either be air- dried or dried in a small oven with the temperature not exceeding 200 degrees Fahrenheit.
7) Sieve soil sample through a No. 10 mesh screen and segregate out the large pieces (i.e., stones, organic matter, metallic fragments, etc.). At least 5 grams of sample is required for the XRF analysis.
8) Mix the resulting 5 gram soil sample.
9) Fill the XRF sample analysis cup with homogenized soil and analyze using the XRF analyzer.
10) Label sample analysis cup and place in on-site storage.
11) Download the data at the end of each day onto a computer.

3.3 Subsurface Soil Sampling/Screening

- Niton will not be calibrated every hour. It will be calibrated at the beginning and end of the day's field activities.
- At one location, three subsurface soil samples will be collected with every tenth surface sample.
- The following procedure will be used when collecting and analyzing subsurface soil samples:
  1) Test bulk soil sample mode by using the arrow keys to select Test Soil, Bulk Sample. From the Setup Menu, press the Clear/Enter button. Press Clear/Enter on the main menu for Calibrate and Test. The NITON will beep and display Ready to Test.
  2) Prior to sampling the bulk soil samples, turn the NITON on for at least 15 minutes. Choose the Bulk Sample mode from the Setup Screen. The NITON is now ready to analyze bulk soil samples.
  3) Collect discrete subsurface soil samples using a stainless steel hand auger. Collect approximately 100 grams of soil.
  4) Dry samples if necessary. The sample must be dried enough to pass though a No. 10 (2 mm) mesh screen sieve. Samples will either be air dried or dried in a small oven with the temperature not exceeding 200 degrees Fahrenheit.
  5) Sieve soil sample through a No. 10 mesh screen and segregate out the large pieces (i.e., stones, organic matter, metallic fragments, etc.). At least 5 grams of sample is required for the XRF analysis.
  6) Mix the resulting 5 gram soil sample.
  7) Fill the XRF analysis cup with homogenized soil sample and analyze with the XRF analyzer.
  8) Label sample analysis cup and place in on-site storage.

9) Download the data at the end of each day onto a computer.

3.4 Paint Sampling

- Paint sample collection and analysis will not be performed.

4.0 QUALITY CONTROL SAMPLES NEEDED TO SUPPORT DATA QUALITY OBJECTIVES

- NITON will not be calibrated every hour. It will be calibrated at the beginning and end of the day's field activities.
- Since regression analysis was completed during the previous investigation, a regression coefficient will not be calculated.

5.0 DECONTAMINATION PROCEDURES

- There are no modifications to this section.

6.0 SAMPLE CONTAINERS, PRESERVATION, AND HOLDING TIMES

- Federal Express Priority shipping will not be used to transport the samples to the laboratory. The samples will be taken to the EPA Region VII laboratory by the sample coordinator.

7.0 FIELD DOCUMENTATION, SAMPLE SHIPMENT, AND CHAIN OF CUSTODY

- There are no modifications to this subsection.

7.1 Sample Designation

- The quadrant locations will be designated as F1, F2, B1, B2 and ZZ.
- A BVID number will be assigned to each sample to allow tracking within the database.

7.2 Field Custody

- Federal Express will not be used to transport the samples to the laboratory. The samples will be taken to the EPA Region VII laboratory by the sample coordinator.

7.3 Transfer of Custody

- A transfer of custody will not occur between the sample coordinator and the sample carrier (Federal Express). The sample coordinator will transport the samples directly to the EPA Region VII laboratory.

7.4 Laboratory Custody

- Measurements will not be obtained using a hand-held tape and measuring wheel. Sketches of the sampling site will be made on the back of the site access agreement.
- Soil samples collected for metal analysis will not be preserved with ice.
- Samples will be taken directly to the EPA Region VII Laboratory by the sample coordinator.

7.5 Sample Packaging and Shipment

- The ice chest will not be packed with double-bagged ice packs.
- Samples will not be stored on ice between collection and analysis.

7.6 Analytical Methods

- Laboratory sample analysis and reporting will be the responsibility of the EPA Region VII Laboratory. Data reduction of the laboratory sample results will also be the responsibility of the EPA Region VII Laboratory.

7.7 Field and Laboratory Quality Control

- RSDs will not be calculated.
- XRF calibration will not be performed hourly. It will be calibrated at the beginning and end of the day's field activities.
- A regression coefficient will not be calculated.
- BVSPC will make a comparison between XRF data and the corresponding analytical results.

7.8 Data Review, Validation, and Reporting

- All data analysis and validation will be performed by the EPA Region VII Laboratory.

8.0 SITE SAFETY DOCUMENTATION AND DISPOSAL OF INVESTIGATION DERIVED WASTE

- There are no modifications to this subsection.

9.0 FINAL REPORT

- There are no modifications to this subsection.

If you have any questions, please contact me at (913) 458-6665 or Ellen Kimmel at (913) 458-6774.

Very truly yours,

BLACK & VEATCH SPECIAL PROJECTS CORP.

Todd Dudley, P.E.
Project Manager

dak
Enclosure(s)

cc: Stacy Blum
Ellen Kimmel
File

Remedial Investigation/ Feasibility Study
Field Sampling Plan
Addendum

Omaha Lead Refining Site
Omaha, Nebraska

January 2004

USEPA Contract No.: 68-W5-0004
USEPA Work Assignment Number: 070-RICO-07ZY
BVSPC Project No.: 46130

Prepared for:
U.S. Environmental Protection Agency
Region VII
901 North 5th Street
Kansas City, Kansas 66101

Prepared by:
Black & Veatch Special Projects Corp.
6601 College Boulevard
Overland Park, Kansas 66211

Acronyms

ASTM	American Society for Testing Materials
BVSPC	Black & Veatch Special Projects Corp.
COC	Chain of Custody
DCHD	Douglas County Health Department
FD	Field Duplicate
FEP	Fluorinated Ethylene Propylene
FSP	Field Sampling Plan
HPLC	High Performance Liquid Chromatography
HSP	Health and Safety Plan
HVS3	High Volume Small Surface Sampler
IDW	Investigation Derived Waste
MS	Matrix Spike
MSD	Matrix Spike Duplicate
NHHS	Nebraska Health and Human Services
PPE	Personal Protective Equipment
QA	Quality Assurance
QC	Quality Contril
RI/FS	Remedial Investigation/ Feasability Study
SI	Site Investigation
UNO	University of Nebraska - Omaha
USEPA	United States Environmental Protection Agency
WP	Work Plan
XRF	X-ray flourescence

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Appendices

Tables

Figures

1.0 Introduction

The United States Environmental Protection Agency Region VII (USEPA) has initiated a remedial investigation/ feasibility study (RI/FS) to conduct sampling for lead in the vicinity of the former lead smelting operations at the ASARCO facility in Omaha, Nebraska. While other metals were included in previous investigations conducted in the area, lead was the only metal found at elevated levels. This information will be used by the Nebraska Health & Human Services (NHHS) Risk Assessment Program to develop a risk assessment for lead and calculate a site specific clean-up goal for lead only as well as improving the definition of the boundaries of contamination. Other documents detailing the methodology for the RI/FS activities at the Omaha Lead Refining Site consist of a work plan (WP) (Black & Veatch Special Projects Corp. (BVSPC), 2003b) and a health and safety plan (HSP) (BVSPC, 2003a).

This field sampling plan (FSP) specifies the proposed scope of work and associated procedures that will be followed to ensure that all project objectives are met and that all samples are collected, documented, and analyzed according to accepted USEPA Region VII methods.

1.1 Site Description

Black & Veatch Special Projects Corp. (BVSPC) has been tasked by USEPA to perform the RI/FS at the Omaha Lead Refining Site. The Site is approximately defined as south of Ames Avenue, north of L Street and east of 45th Street to the state line including properties in zip codes 68102, 68105, 68107, 68108, 68110, 68111, 68112 and 68131. Figure 1-1 is a vicinity map showing the general location of the site as well as the outline of the source area boundary based on the results of previous sampling investigations. The designated source area is the area used to calculate the hazard ranking score for the site and does not define the extent of contamination or the boundaries of the site.

In support of this effort, soil samples will be collected from a portion of residential yards and analyzed using x-ray fluorescence (XRF) technology. Approximately 5 percent of the XRF screening samples will be analyzed by an off-site laboratory (USEPA Region VII Laboratory). Surface soil (0-2") samples from residential yards, drip zone areas, garden areas, and play areas will be collected at a depth no greater than two inches at approximately 12,000 residences and analyzed for lead, arsenic and zinc. Drip zones are the areas within three feet of the base of a building. They are a separate sample location because of the potential for paint chips from the house to alter the lead results.

As requested by the NHHS, 550 residences within the site will be randomly selected for interior dust sampling using wipe and vacuum methods. In addition, the University of Nebraska-

Omaha (UNO) will be performing a demographic survey and the Douglas County Health Department (DCHD) will be offering residential child blood lead screening for children 0-6 years of age in the selected residences.

1.2 Site History

The former ASARCO Incorporated (ASARCO) property consists of approximately 23 acres adjacent to the Missouri River at 500 Douglas Street in downtown Omaha, Nebraska. The facility began operations at this location in the early 1870s. The ASARCO facility was a lead refinery which processed lead bullion (a concretion of lead) containing recoverable amounts of several different metals, principally gold, silver, antimony, and bismuth. Refining activities were discontinued in July 1997 (Sverdrup, 1999). Union Pacific Railroad is the former owner of the property and leased the property until 1946.

Primary operations at the facility included the refinement of lead bullion and lead drosses (lead impurities collected from the surfaces of other molten metals). This refining process used traditional pyrometallurgical processes including the addition of metallic and non-metallic compounds to molten lead to separate the lead from the other metals and removed impurities. The Omaha facility produced refined lead and such specialty metal by-products as antimony-rich lead, bismuth, dore (a silver-rich product), and antimony oxide (Sverdrup, 1999).

Lead bullion was received at the facility and then melted in large kettles. The melted metal bullion went through a series of kettles during which it was treated and stirred, causing metals to separate. The non-lead metals were skimmed from the surface of the melted bullion in one of these kettles leaving behind a purer form of lead. For example, silver and gold were removed from the lead bullion by adding zinc. The zinc when added to the molten lead forms an alloy with the gold and silver called dore. The dore was extracted and further refined and shipped to another facility where it is separated into pure silver and gold. The lead when fully refined was formed into 100-pound castings or one-ton blocks for shipment to other industries that use lead such as automobile battery manufacturers (Sverdrup, 1999).

The former ASARCO property is located adjacent to the Missouri River in downtown Omaha. A protective concrete flood wall runs the entire length of the eastern portion of the property. The wall was originally designed to control flooding from the Missouri River prior to construction of the upstream Missouri River dams. Railroad tracks run along the western edge of the property into the Union Pacific Railroad rail yard. The northern boundary of the property abuts the bank of the Burt Izard storm sewer outlet. The Heartland of America Park is located directly south of the property (Sverdrup, 1999).

The contamination of residential soils may have been caused by metal processing and/or refining activities conducted at the former ASARCO site. This assumption is based on several

items of information which have come to USEPA's attention recently. Chief among these items are:

1) discovery of lead contamination in residential yard soil by DCHD and
2) elevated blood lead concentrations in young children 0-6 years of age measured by the DCHD from 1995 to present.

1.3 Previous Investigations

Prior to this RI/FS, a site investigation (SI) was conducted at the Omaha Lead Refining Site. Sverdrup, Inc. began the SI in 1998 and collected approximately 1,630 soil samples. BVSPC took over the SI in June of 2000 and collected approximately 13,500 soil samples from approximately 2,240 properties including residences and day cares.

2.0 Investigation Objectives

There are two main objectives for the RI/FS (BVSPC, 2002). First, data needed to develop a risk assessment for lead and to calculate a site specific clean-up level of the metal. Media to be evaluated include surface soil, interior dust and resident blood samples. The second objective is to improve the definition of the boundaries of contamination. Approximately 12,000 residential properties within the site will be sampled in order to provide the data necessary to complete these objectives. The scope of the RI/FS activities will include:

- Sampling surface soil (maximum depth 2 inches) from approximately 20% of Omaha's residential yards. (BVSPC)
- Sampling 550 randomly selected residential properties for interior dust. (BVSPC)
- Conducting a demographic survey. (UNO)
- Sampling child (0-6 years of age) resident blood lead levels. (DCHD)

3.0 Investigation Techniques

Field investigation techniques and procedures for the RI/FS are discussed in the next 6 major subsections. The following subsections will discuss each field activity in depth.

3.1 Soil Sampling

After obtaining access to each property, surface soil samples will be collected at each residence. Approximately five soil samples will be taken at each property. Four samples will be collected from four different quadrants (defined below) in the yard. One sample will be collected from the drip zone of the building on the property and additional samples may be collected if there is a garden or a child play area in the yard.

Prior to sampling, an aerial view scaled sketch will be made of each sampled property on the field sampling forms (Appendix A). The sketch will show the locations of all structures and major features including child play areas and gardens. A digital photograph will be taken of the front yard and back yard of each sampled property. A disk containing the photographs for each property will be filed with the documents for that property. Pertinent information regarding the sampling of the property will be recorded on the field sheet and in the field logbook.

Each property will be divided into four quadrants of roughly equal surface area. First, the property will be divided into front and back yard halves. Then the front and back yard halves will each be divided into two equal quadrants. At the discretion of the field team, smaller yards may be divided into fewer sampling areas. One composite sample composed of five aliquots of equal mass will be collected from each quadrant. Each aliquot will be collected from a randomly selected location in the quadrant and from the top two-inches of soil away from influences of the drip zone. The drip zone includes the area within three feet of the foundation of all buildings on the property. A drip zone sample will also be collected. In addition, one sample will be collected from the play area and one sample from the garden area if they exist. If there is more than one play area or garden, at least one aliquot will be collected from each multiple play or garden area. These aliquots will be composited to form one garden sample and one play area sample for each property.

A composite drip zone sample will be collected from each residence. The sample will consist of a minimum of four aliquots collected between six-inches and three feet from the exterior wall of each house. Each aliquot will be collected from the midpoint of each side. One of the four aliquots will be collected from any bare spot instead of from the midpoint in the event there are bare, non-vegetated areas within the drip zone sampling area. This sample will be used to determine if lead paint is a potential source of contamination to the soils near the buildings.

3.1.1 Surface Soil Sampling/Screening

XRF spectrometers (an instrument used to resolve radiation into spectra to determine measurements) will be utilized to analyze soils for metals contamination as described in the Operator Manual for the NITON 300/700 Series XRF Analyzer. The XRF manual is provided with each XRF instrument. The NITON will be internally calibrated before each day of field activities and whenever the operator determines there is a need to recalibrate. In addition, during bulk soil sampling (a mode in the NITON notifying the machine that the sample has depth), a set of three NIST soil standards (i.e., low, medium, and high concentrations) will be used to check the calibration of the NITON as described in the NITON XRF manual. At a minimum, the standards will be analyzed after the initial calibration test and at the end of the day's field activities. The results will be recorded in the field logbook assigned to that unit and on the standards check record sheet. The following procedure will be used when collecting and analyzing surface soil samples:

1) Document in the field logbook and on the field sheets (Appendix A) the location of the quadrants where the sample is being collected, the date, the time and the weather conditions.
2) Don a clean pair of surgical gloves.
3) Using a clean, stainless steel hand trowel or spoon to make vertical columns, collect five aliquots from widely distributed locations within each quadrant. Collect approximately 50 grams of soil from each aliquot location. Place the aliquot soil samples in a Ziploc bag labeled with the property's BVID and quadrant designation. Grass and rocks will be removed from the sample.
4) Soil in all samples will be completely homogenized to ensure that samples are representative of the entire quadrant.
5) Prior to analysis soil will be sieved through a No. 10 (2 mm) mesh screen, placed in an XRF cup and covered with Mylar film. The cup will be completely filled with sieved soil.
6) Samples will be analyzed using an XRF unit in bulk sample test mode.
7) Prior to analyzing the bulk soil samples, turn the NITON on for at least 15 minutes. Choose the bulk sample mode from the setup screen. The NITON is now ready to analyze bulk soil samples.
8) At the beginning and end of each day of sampling, NITON NIST soil standards will be analyzed and the results will be recorded.
9) From the main menu, by using the arrow keys select test and press the enter button. Test bulk soil sample mode by using the arrow keys to select standard soil testing and press the enter button. The NITON is ready to test.

10) At the end of each day, data from the XRF will be downloaded onto a computer.

3.2 Dust Sampling and Demographic Survey

As requested by NHHS, 550 homes will be sampled for interior dust, UNO will administer a demographic survey and DCHD will offer for free blood lead screening for child residents 0-6 years of age in these homes. The 550 homes will be randomly chosen from the 48,000 residential properties within the site.

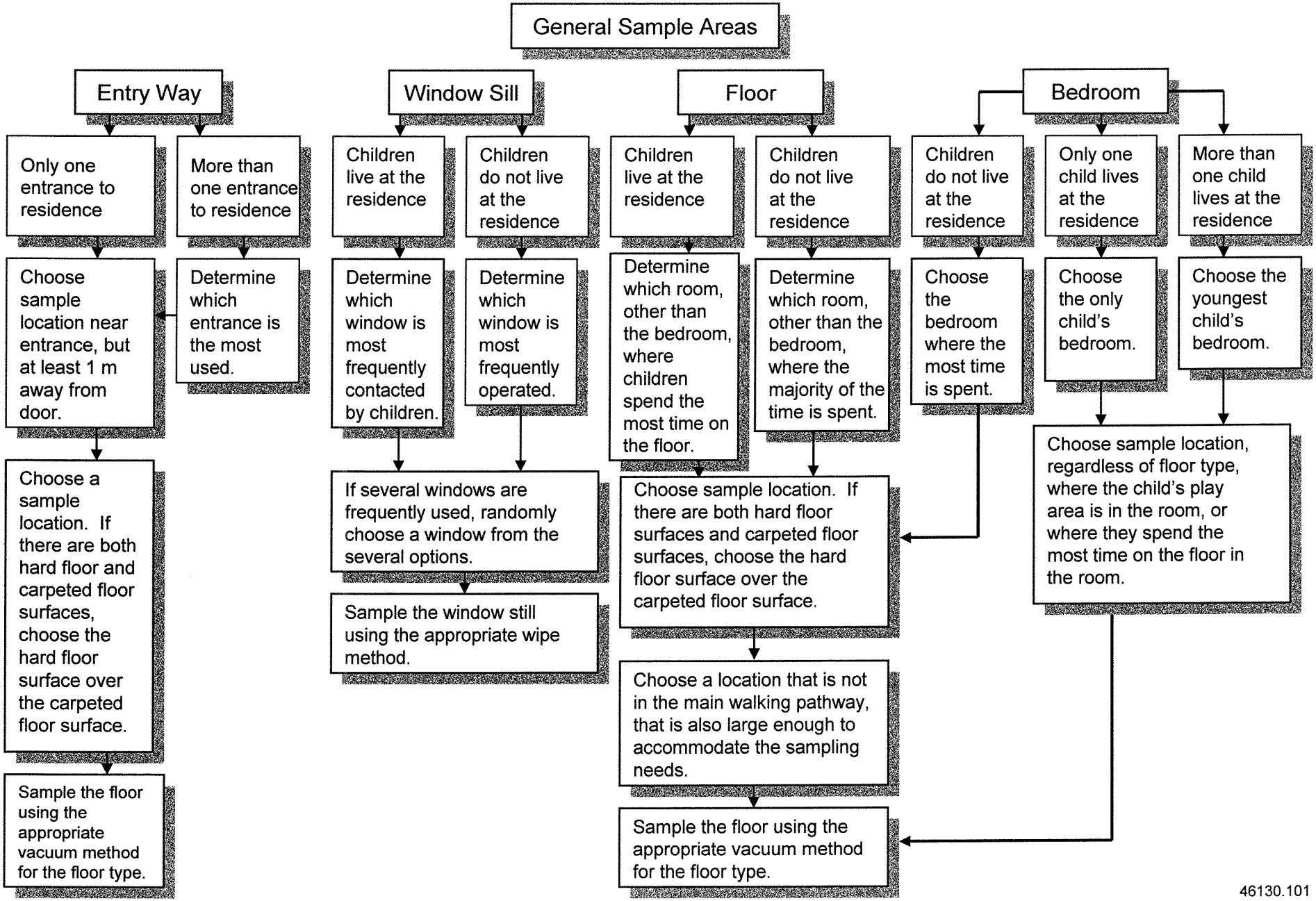
The amount of lead in settled dust samples can be expressed as a lead loading or as a lead concentration. Lead loading is the weight of lead per area sampled and the typical units are $\mu g/ft^2$ (EPA, 1995b). Lead concentration is the weight of lead per weight of sample and is typically reported as $\mu g/g$ (EPA, 1995b). When collecting a wipe dust sample, the results can only be reported in lead loading terms. Vacuum dust collection is able to generate both lead loading and lead concentration results. Both collection methods will be used during this investigation.

At each residence where a dust sample is collected, a demographic survey will also be taken. The survey will be general and include such questions as the number of residents in the home, the age and sex of the residents and the length of time the occupants have lived at the residence. This survey will be completed before dust sample collection at each residence.

In each residence, it is anticipated that four dust samples will be collected. Since each residence will have a different floor plan and furniture arrangement, it will not be possible to predetermine the exact sample locations. The following is a list of the four general sample areas with a description of sample location criteria based on each residence's characteristics. Table 3-1, describes the sample location selection methodology as well.

1) Entry Way: A vacuum sample will be collected from the most frequently used entry way to the residence. The sample location must be at least one meter away from the door (CS_3, Inc., 1998). If there is an option between a hard floor surface and a carpeted floor surface, the hard floor surface area will be chosen over the carpeted surface due to the potential for better sample collection on a hard floor surface. The sample will then be collected using the appropriate vacuum method for the floor type.
2) Window Sill: A wipe sample will be collected from one window sill in the residence. The selection is based on whether or not a child or children live at the residence. If there are children living at the residence, the window sill that is most frequently contacted by the children shall be sampled. If there are no children living at the residence, the window sill that is most frequently operated/contacted shall be sampled. If there are several windows

Table 3-1
Dust Sampling Methodologies
Omaha Lead Refining Site
RI/FS



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that are contacted or operated, the sampler shall randomly select one of the used window sills. The sample will then be collected using the appropriate wipe method.

3) Floor: A floor sample will be collected from one area in the residence. The selection of the sample location is based on whether or not a child or children live at the residence. If children live at the residence, the room, other than the bedroom, where the children spend the most time on the floor in will be chosen. If no children live at the residence, the room, other than the bedroom, where residents spend the most time will be chosen. Sample location will be based on the floor type(s) in the room. If there is a hard floor surface and a carpeted floor surface in the room, the hard floor surface will be sampled. A sample location that is not in the main walking pathway of the room and is also large enough to accommodate the sampling requirements will be chosen as the sample location. The sample will then be collected using the appropriate vacuum method for the floor type.

4) Bedroom: A sample will be collected from one bedroom in the residence. The selection of the sample location is based on whether or not a child or children live at the residence. If there is one child living at the residence, their bedroom shall be selected. If there is more than one child living at the residence, the youngest child's bedroom shall be selected. If there are no children living at the residence, the bedroom where the most time is spent shall be selected. If a child's room is selected, regardless of floor type, the sample location shall be chosen based on where the child's play area is in the room or where they spend the most time on the floor in the room. If an adult bedroom is selected, the sample shall be collected based on floor type. In that bedroom if there is a hard floor surface and a carpeted floor surface in the room, the hard floor surface will be sampled. Once the sample location has been determined, the sample will then be collected using the appropriate vacuum method for the floor type.

3.2.1 Wipe Sampling

The wipe sampling method provides for the collection of settled dust samples from hard, relatively smooth, nonporous surfaces. This method is not effective for the collection of settled dust samples from highly textured surfaces, such as brickwork and rough concrete, or soft fibrous surfaces, such as upholstery and carpeting. This method produces samples for lead determination results in loading terms ($\mu g/ft^2$).

The following is a list of sampling equipment needed to collect wipe samples.

1) Masking tape: used for holding down sampling templates and marking sampling locations.

2) Sample collection container: sealable rigid-walled container with 50-mL minimum volume.

3) Sampling template: a template with an interior area of one square foot made from reusable aluminum or plastic, or a disposable cardboard or plastic template; a variety of shapes such as square, rectangular, square "U" shape, rectangular "U" shape, and an "L" shape should be used; all templates must have accurately known inside dimensions; templates should be thin (less than 1/8 inch) and capable of lying flat on a flat surface. A variety of templates is needed to accommodate the various potential shapes of different sampling areas.
4) Steel or plastic measuring tape or ruler: divisions to 1/16 inch.
5) Wipe: disposable towelette moistened with a wetting agent; avoid brands of wipes that contain aloe because they have been found to contain higher background lead levels; thin wipe which is approximately 6 inches by 6 inches is recommended.

There are two sampling procedures for wipe sampling. The first will accommodate collection of a settled dust sample in an unrestricted area such as a floor. This method is known as the Template Assisted Sampling Procedure (EPA, 1995a). The second will accommodate collection of a settled dust sample in a restricted area (an area with limited dimensions) such as a window sill. This method is known as the Confined Area Sampling Procedure (EPA, 1995a). The second method should only be used when the first can not be used due to sampling location constraints. The Confined Area Sampling Procedure assumes the operator can be orientated to a collection position where the sampling location's width is greater than its depth. It also assumes that the depth is no longer than the dimensions of the wipe. If this is not true, then the Template Assisted Sampling Procedure should be used.

3.2.1.1 Template Assisted Sampling Procedure

The following describes the Template Assisted Sampling Procedure that may be used when collecting and analyzing wipe dust samples:

1) Document in the field logbook and on the field sheets (Appendix A) the exact sample location, the date, the time, the sample collection method and any other pertinent information regarding the sampling.
2) Pull on a pair of clean, powderless, plastic gloves.
3) Carefully place a clean template on the surface in a manner that minimizes the disruption of settled dust at the sampling location; either tape or place a heavy object on the outside edge of the template to prevent it from moving during sample collection; an alternative to using a template is to mark an outline of the sampling location using masking tape.
4) Discard any gloves used to mark the area in a trash bag and pull on a new pair of clean, powderless, plastic gloves.

5) At the beginning of a sampling period (or if a new bulk-packed container of wipes is opened), remove a minimum of the top 2 wipes from the container and wipe off gloved fingers with each wipe as they are removed; use the next wipe from the container to collect the sample.

6) First Wiping, Side-to-Side: Hold one edge of the wipe between the thumb and forefinger, draping the wipe over the fingers of a gloved hand; hold fingers together, hand flat, and wipe the selected surface area, starting at either corner furthest away from the operator (referred to as a far corner), using a slow side to side (left-to-right or right-to-left) sweeping motion; during wiping, apply pressure to the finger tips. At the end of the first pass from one side to the other, turn the leading edge of the wipe (the portion of the wipe touching the surface) 180 degrees, pulling the wipe path slightly closer to the operator and make a second side to side pass in the reverse direction, slightly overlapping the first pass. (The 180 degree turn is used to assure that the wiping motion is always performed in the same direction on the wipe to maximize dust pickup.) Continue to cover the sampling area with in the template, using the slightly overlapping side to side passes with the 180 degree turns at each edge until the close corner of the template is reached. Carefully lift the leading dust line into the wipe using a slight rolling motion of the hand to capture the dust inside the wipe. Fold the wipe in half with the sample side folded inside the fold.

7) Second Wiping, Top-to-Bottom: Using a clean side of the wipe, perform a second wiping over the sampling area within the template starting from a far corner in the same manner used for the first wiping, except use a top-to-bottom sweeping of the surface. When the close corner of the template is reached, carefully lift the leading dust line into the wipe using a slight rolling motion of the hand to capture the dust inside the wipe. Fold the wipe in half (again) with the sample from this second wiping folded inside the fold.

8) Third Wiping, Clean Corners: Using a clean side of the wipe, perform a third wiping around the perimeter of the sampling area within the template to pick up any dust remaining in the corners. Start from one edge of the template and use the same wiping technique as described above. When the perimeter has been wiped and the starting location reached, carefully lift the leading dust line into the wipe using a slight rolling motion of the hand to capture the dust inside the wipe. Fold the wipe in half one more time with the sample from this third wiping folded inside the fold.

9) Insert the folded wipe into a sample collection container. Using a tape measure, verify the internal dimensions of the sampling template used to collect the sample and label the sample collection container with sufficient information to uniquely identify the sample and the dimension of the selected dust sampling area (with units such as inches). Discard

any gloves in the trash bag. If the template is a reusable type, clean the template with several clean wipes.

3.2.1.2 *Confined Area Sampling Procedure*

The following describes the Confined Area Sampling Procedure that may be used when collecting and analyzing wipe dust samples:

1) Document in the field logbook and on the field sheets (Appendix A) the exact sample location, the date, the time, the sample collection method and any other pertinent information regarding the sampling.
2) Don a pair of clean, powderless, plastic gloves.
3) Mark an outline of the sampling location using masking tape. Care should be taken to minimize any disruption at the sampling location. For areas that are dirty or contain high dust levels, new tape may have to be applied more than once to get adhesion to the surface. Discard any soiled tape in a trash bag.
4) Discard any gloves used to mark the area in a trash bag and pull on a new pair of clean, powderless, plastic gloves.
5) At the beginning of a sampling period (or if a new bulk-packed container of wipes is opened), remove a minimum of the top 2 wipes from the container and wipe off gloved fingers with each wipe as they are removed. Use the next wipe from the container to collect the sample.
6) First Wiping, One Direction, Side-to-Side: Hold one edge of the wipe between the thumb and forefinger, draping the wipe over the fingers of a gloved hand. Hold fingers together, hand flat, and wipe the selected surface area, starting at either corner furthest away from the operator, using a slow side to side (left-to-right or right-to-left) sweeping motion. During wiping, apply pressure to the finger tips. At the end of the first pass from one side to the other, carefully lift the leading dust line into the wipe using a slight rolling motion of the hand to capture the dust inside the wipe. Fold the wipe in half with the sample side folded inside the fold.
7) Second Wiping, One Direction, Side-to-Side: Using a clean side of the wipe, repeat the above step using a wipe motion in the reverse direction.
8) Third Wiping, Clean Corners: Using a clean side of the wipe, perform a third wiping around the perimeter of the sampling area to collect any dust remaining in the corners. Start from the middle of one edge of the area and use the same wiping technique as described above. When the perimeter has been wiped and the starting location reached, carefully lift the leading dust line into the wipe using a slight rolling motion of the hand to capture the dust inside the wipe. Fold the wipe in half one more time with the sample

from this third wiping folded inside the fold.

9) Insert the folded wipe into a sample collection container. Using a tape measure, measure the dimensions of the sampled area and label the sample collection container with sufficient information to uniquely identify the sample and the dimensions of the selected sampling area (with units such as inches). Discard any gloves in the trash bag.

3.2.2 *Vacuum Sampling*

This method of dust sampling is suitable for the collection of settled dust samples from both hard and smooth or highly textured surfaces, such as brickwork and rough concrete, and soft, fibrous surfaces, such as upholstery and carpeting. This method produces samples for lead determination results in both loading ($\mu g/ft^2$) and concentration ($\mu g/g$).

The following is a list of sampling equipment needed to collect vacuum samples.

1) High Volume Small Surface Sampler (HVS3): A diagram of the HVS3 is provided in Figure 3-1. There are several components of the HVS3 that are described in the ASTM Standard for 2002 (ASTM, 2002). In general, the apparatus must produce a flow rate of sufficient velocity both at the sampled surface and in the cyclone. The cyclone must have a cut diameter of 5 μm at the same velocity that will provide a horizontal velocity of 40 cm/s at 10 mm from the nozzle in the carpet material, or 5 mm from the nozzle on bare floors.

- Nozzle: The edges and corners of the sampling nozzle shall be rounded to prevent catching the carpet material. The nozzle must be constructed to allow for sufficient suction to separate loose particles from the carpet or bare floor and carry them to the cyclone. It must have an adjustment mechanism to establish the nozzle lip parallel to the surface and to achieve the proper suction velocity and pressure drop across the nozzle. A nozzle 12.4 cm long and 1 cm wide, with a 13 mm flange and tapered to the nozzle tubing at no more than thirty degrees, will yield the appropriate velocities when operated as specified in the sampling procedures.
- Gaskets: Gaskets in joints should be of a material appropriate to avoid sample contamination.
- Cyclone: The cyclone shall be of a specific size such that a given air flow allows for separation of the particles 5 um mean aerodynamic diameter and larger. The cyclone must be made of aluminum or stainless steel, and the catch bottle must be made of clear glass or fluorinated ethylene propylene (FEP) to avoid contamination and allow the operator to see the sample.
- Flow Control System: The flow control system shall allow for substantial volume

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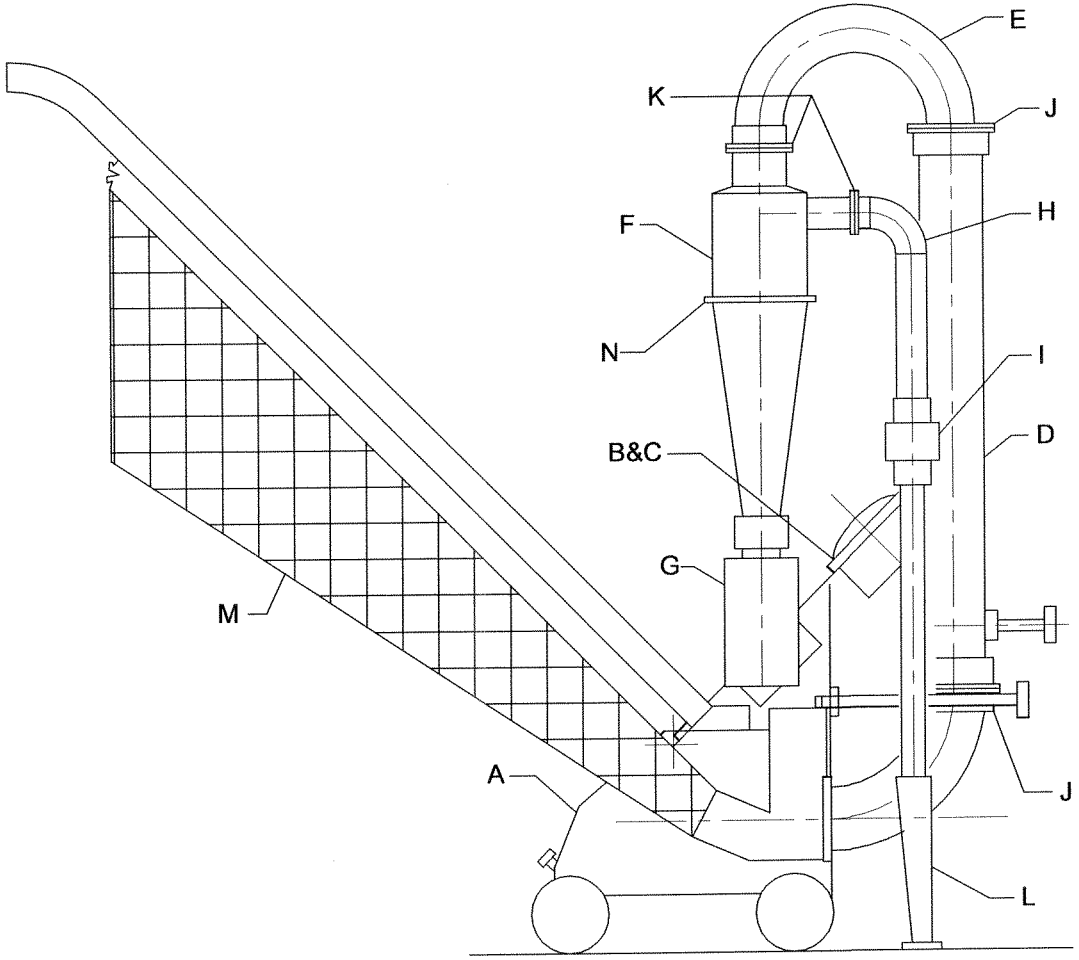

HVS3 PARTS DESCRIPTION		
PART #	QTY	DESCRIPTION
A	1	MODEL 1020D VACUUM PLATFORM
B	1	MOUNTING PLATE WITH MAGNEHELIC MOUNT
C	2	MAGNEHELIC GAGES, 0-15" & 0-10"
D	1	CONTROL VALVE TUBE
E	1	U-TUBE
F	1	3" DIAMETER ALUMINUM CYCLONE
G	1	P.E. OR (F.E.P.) CATCH BOTTLE
H	1	CYCLONE INLET ELBOW
I	1	TYGON OR (F.E.P.) FLEX JOINT
J	2	2" TRI-CLAMPS WITH GASKETS
K	2	1 1/2" TRI-CLAMPS WITH GASKETS
L	1	SUCTION NOZZLE WITH LEVEL
M	1	VACUUM FILTER BAG
N	1	3" TRI-CLAMP WITH GASKET

SOURCE: "HIGH VOLUME SMALL SURFACE SAMPLER, HVS3, OPERATION MANUAL." CS_3, INC., FIGURE 3-1, 1998.

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OMAHA, NEBRASKA

HIGH VOLUME
SMALL SURFACE SAMPLER (HVS3)

FIGURE
3-1

adjustment. The suction source must be capable of drawing 12 L/s (26.5 CFM) through the system with no restrictions other than the nozzle, cyclone, and flow control system connected. An upright commercial vacuum cleaner with a 7 amp or greater motor capable of pulling a vacuum of 6.5 kPa may be used for this purpose.

- Flow Measuring and Suction Gages: Two vacuum gages are required – one with a range of 0 to 3.7 kPa (0-15 in. water) is used for setting flow rate and another with a range of 0 to 2.5 kPa (0-10 in. water) is used to set the pressure drop across the vacuum nozzle.

2) Masking tape: used for marking/outlining sections to be sampled.
3) Sample collection container and aluminum: for storing the sample until the laboratory is able to run the necessary analyses.
4) Thermometer: to determine temperature in the area sampled.
5) Relative Humidity Meter: to determine the relative humidity in the area sampled.
6) Shaker Sieve: used to sieve the dust samples for 5 minutes; 100-mesh screen above the pan is used to determine the weight of fine dust below 150 um mean diameter.
7) Analytical Balance: used to weigh the sieved dust sample; need a balance that is accurate to 0.1 mg.

There are two sampling procedures when using a vacuum to collect dust samples. The procedures vary slightly depending on whether a carpeted floor or a bare floor is being sampled.

3.2.2.1 Carpeted Floor Sampling

The following procedures are based on the ASTM Standard Practice for Collection of Floor Dust for Chemical Analysis from 2002 (ASTM, 2002). The following is the sampling procedure for vacuum dust samples from a carpeted floor.

1) Before sampling begins each day, the sampling train shall be leak-checked. This can be accomplished by placing a mailing envelope or a piece of cardboard beneath the nozzle and switching on the suction source. The flow Magnehelic gage should read 5 Pa (0.02 in. water) or less to ensure that the system is leak free. If any leakage is detected, the system shall be inspected for the cause and corrected before use.
2) Select the area to be sampled.
3) Immediately prior to testing, complete a field sheet (Appendix A) recording all requested information and sketch the area to be sampled.
4) Using measuring tapes, mark off the sample area. The measuring tapes should be parallel to each other and on either side of the portion of floor to be sampled. The measuring

tapes should be between 0.5 and 1.5 m apart and extended as far as practical. They should be taped to the floor every 30 cm with masking tape. Divide the space between the measuring tapes into strips. The width of the strip is defined by the width of the sampling nozzle (Figure 3-2).

5) The flow rate and the nozzle pressure drop will be adjusted to accommodate different carpet types. Use Table 3-2 when determining flow rate and nozzle pressure drop. Use the same flow rate and pressure drop on multilevel and shag carpets as that used for plush carpet types.

Table 3-2
Approximate Values for Flow Rate and Nozzle Pressure Drop

Carpet Type	Flow Rate	Nozzle Pressure Drop
Plush	9.5 L/s (20 CFM)	2.2 kPa (9 in. water)
Level loop	7.6 L/s (16 CFM)	2.5 kPa (10 in. water)

6) If the area to be sampled is very dirty, or has not been cleaned frequently, care must be taken to avoid filing up the cyclone catch bottle on the first sample strip. If it is suspected that this will be the case, start with a 0.25 m^2 sampling area. Then, if necessary, take a second and third area, until the catch bottle is 75% full.

7) Clean the wheels and nozzle lip immediately before sampling with a clean laboratory tissue.

8) Begin sampling by placing the sampler in one corner of the first sampling strip. Move the nozzle between the ends of the two measuring tapes. The sampler is moved back and forth four times on the first strip, moving the sampler at approximately 0.5 m/s. Move in a straight line between the numbers on the measuring tape.

9) Gradually angle over to the second strip on the next pass and repeat four double passes in the same manner as above.

10) After sampling approximately 0.5 m^2, determine the amount of collected material in the bottom of the catch bottle. As a rough estimate, the collection of dust to a depth of 6 mm (0.25 in.) in a 55 mm diameter catch bottle corresponds to approximately 6 to 8 g. If there is less than 6 mm of dust, sample an additional 0.5 m^2 next to the area already sampled. Hair, carpet fibers and other large objects should be excluded from the sample when estimating the quantity collected.

11) Continue sampling in the area laid out until an adequate sample is collected. Switch off the vacuum.

12) The catch bottle can now be removed, labeled, and capped for storage and analysis.

13) Record the dimensions of the sampled area on the field sheet. Make sure to get an

accurate measurement of the sampled area.

3.2.2.2 Hard Surface Floor Sampling

The following is the sampling procedure for vacuum dust samples from a floor with a hard, smooth surface.

1) Before sampling begins each day, the sampling train shall be leak-checked. This can be accomplished by placing a mailing envelope or a piece of cardboard beneath the nozzle and switching on the suction source. The flow Magnehelic gage should read 5 Pa (0.02 in. water) or less to ensure that the system is leak free. If any leakage is detected, the system shall be inspected for the cause and corrected before use.
2) Select the area to be sampled.
3) Immediately prior to testing, complete a field sheet (Appendix A) recording all requested information and sketch the area to be sampled.
4) Using measuring tapes, mark off the sample area. The measuring tapes should be parallel to each other and on either side of the portion of floor to be sampled. The measuring tapes should be between 0.5 and 1.5 m apart and extended as far as practical. They should be taped to the floor every 30 cm with masking tape. Divide the space between the measuring tapes into strips. The width of the strip is defined by the width of the sampling nozzle (Figure 3-2).
5) Place the sampler in one corner of the sampling area. Set the height of the nozzle above the floor at approximately 1 mm (a U.S. penny under the nozzle lip will hold it at this height) and adjust the flow rate to a flow of 9.5 L/s (20 CFM).
6) Clean the wheels and nozzle lip immediately before sampling with a clean laboratory tissue.
7) Begin sampling by moving the nozzle between the ends of the two measuring tapes. The sampler is then moved back and forth two times on the first strip, moving the sampler at approximately 0.5 m/s. Move in a straight line between the numbers on the measuring tape.
8) Gradually angle over to the second strip on the next pass and repeat two double passes in the same manner as above.
9) After sampling approximately 10 m^2, check the amount of collected material in the bottom of the catch bottle. As a rough estimate, the collection of dust to a depth of 6 mm (0.25 in.) in a 55 mm diameter catch bottle corresponds to approximately 6 to 8 g. If there is less than 6 mm of dust, sample additional areas as available. It may not be possible to obtain 6 g of dust from a clean or small bare floor.

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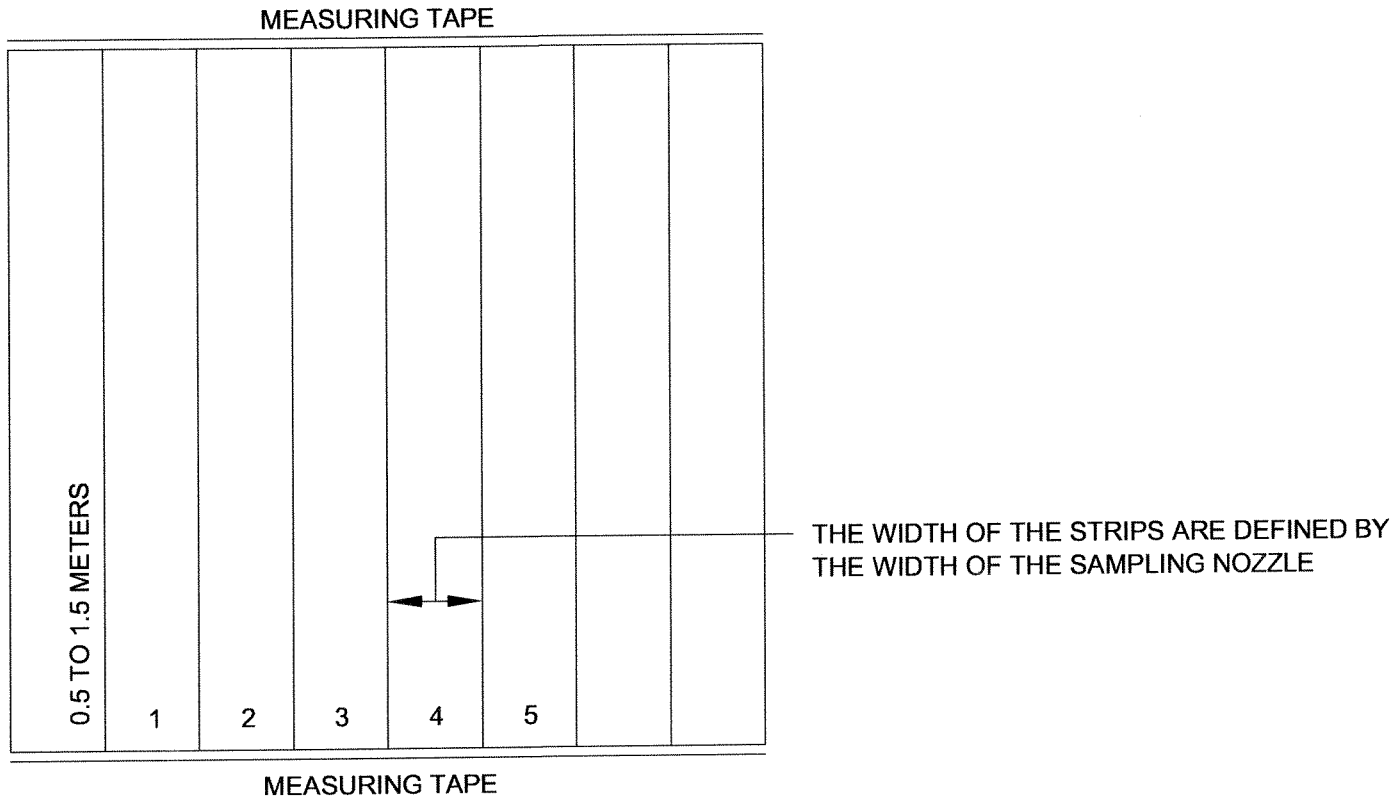


SOURCE: "STANDARD PRACTICE FOR COLLECTION OF FLOOR DUST FOR CHEMICAL ANALYSIS." 2002 ANNUAL BOOK OF ASTM STANDARDS, ASTM D5438-00.11.03:503.

BLACK & VEATCH SPECIAL PROJECTS CORP.	OMAHA LEAD REFINING SITE RI/FS OMAHA, NEBRASKA	SAMPLE AREA LAYOUT	FIGURE 3-2

10) Continue sampling in the area laid out until an adequate sample is collected. Switch off the vacuum.
11) The catch bottle can now be removed, capped and labeled for storage and analysis.
12) Record the dimensions of the sampled area on the field sheet. Make sure to get an accurate measurement of the sampled area.

Table 3-3 provides a list of the analytes to be screened under this FSP and details the methods, types of containers, types of preservation and holding times required for the sampling event.

3.3 Quality Assurance/ Quality Control Samples

Several types of quality assurance (QA) and quality control (QC) samples will be collected to ensure data quality in the samples collected. The next several subsections summarize the types of samples that will be sent to the laboratory to assure data quality.

3.3.1 Equipment Rinsate Blanks

Equipment rinsate blanks will be taken once a month after the stainless steel bowls and spoons have been decontaminated, prior to using the items again. The rinsate blanks will be used to measure the effectiveness of the decontamination procedures. The rinsate blanks will be prepared in the following manner:

1) Wash bowls and spoons in a diluted Alconox solution.
2) Rinse bowls and spoons with potable water.
3) Rinse with distilled water.
4) Pour high performance liquid chromatography (HPLC) water into the bowl or over the spoon and directly into the sample containers.
5) Analyze the rinsate blank for the parameters identified in Table 3-3.

The equipment rinsate blanks will be identified with a sample identification number. The rinsate blank number and time and date of collection will be documented in the appropriate field logbook. The number of rinsate blanks will be approximately six.

3.3.2 Duplicate Samples

The purpose of duplicate samples is to assess laboratory QA/QC. The primary sample and the duplicate sample will be placed in identical containers, preserved in the same manner, and submitted for the same analysis.

Table 3-3
Sample Methods, Containers, Preservation, and Maximum Holding Times
Omaha Lead Refining Site

Parameter	Method		Container Requirements	Preservative	Holding Time	
	Extraction	Analysis			Extraction	Analysis
Dust – Wipe Sample						
Lead	SW6010		1 x 8 oz. glass	4°C	180 days	180 days
Dust – Vacuum Sample						
Lead	SW6010		1 x 4 oz. glass with Teflon lined cap	4°C	180 days	180 days

The number of duplicate samples may be altered in the field if the actual number of field samples collected by the field team differs from the proposed number. The number of duplicate samples to be collected will be approximately 5 percent of the total number of primary samples analyzed by the XRF.

The duplicate samples will be identified with a sample identification number. The sample location, number, and date and time of collection will be documented on the field sheet and in the field logbook.

3.3.3 Matrix Spike/Matrix Spike Duplicates

The purpose of the matrix spike (MS) and matrix spike duplicate (MSD) samples is to evaluate the effect of the sample matrix on the accuracy of the analysis.

The MS/MSD samples will be collected as a triple volume for soil and dust samples by alternately filling appropriate sample containers for the primary and MS/MSD sample containers. The additional volume will be placed in identical containers, preserved in the same manner, and submitted for the same analyses.

The number of MS/MSD samples may be altered in the field if the actual number of samples collected by the field team differs from the proposed number. The number of MS/MSD samples to be collected will be approximately 5 percent of the total number of primary samples submitted for analysis for each media. The MS/MSD samples will be identified with a sampled identification number. The sample location, number and date and time of collection will be documented on the field sheets and in the field logbook.

3.3.4 Trip Blanks

No trip blank samples will be collected under this FSP.

3.3.5 Field Blanks

No field blank samples will be collected under this FSP.

3.4 Sample Numbering System

A sample numbering system will be used to identify each sample analyzed. The purpose of this numbering system is to provide a tracking system for retrieval of information on each sample. The sample identification numbers allocated for all sampling efforts will be used on sample labels, COC records, field sheets and all other applicable documentation used during the sampling activity. The sample ID will consist of a series of eight alphabetic characters followed by a BVID number which is unique to each property. The alphabetic characters will provide

information about each sample in order as follows:

1) Type of property sampled
   - A ASARCO property
   - R Residential property
   - D Day care facility
   - H Railroad facility
   - C Other commercial property
   - I Other industrial property
   - Z Type of property not applicable
2) Sample location type
   - Y Ordinary yard sample
   - D Drip line sample
   - G Garden area sample
   - P Play area sample
   - I Interior Dust sample
   - L Paint sample (for lead)
   - Z Sample location type not applicable
3) Quadrant/ Sample location
   - A Front yard sample, the left quadrant (when facing the front of the house) - F1
   - B Front yard sample, the right quadrant (when facing the front of the house) - F2
   - C Back yard sample, directly behind F1 – B1
   - D Back yard sample, directly behind F2 – B2
   - E Entryway location
   - F Window sill location
   - G Floor location
   - H Bedroom location
   - Z Quadrant location type not applicable
4) Sample matrix
   - S Soil
   - D Dust
   - W Water
   - Z Sample matrix not applicable
5) Sample derivation
   - C Composite
   - G Grab

V Vacuum
W Wipe
Z Sample derivation not applicable

6) Sample quality control status
P Primary environmental sample
D Field duplicate
E Equipment rinsate
Z Sample quality control status not applicable

7) Analytical method
X Analyzed by field XRF
L Analyzed by off-site laboratory
Z Analytical method not applicable

8) Sampled interval
A 0-2 inches
B 0-8 inches
C 8-16 inches
D 16-24 inches
Z Sampled interval not applicable

The BVID number at the end of the sample identification number will range from 10000 to 99999. Each sampled property will require a unique five digit code.

Based upon the preceding, a primary composite soil sample collected from a residential property in a play area from a depth of 0-2 inches and analyzed by XRF with BVID number 10000 would have the following sample ID:

RPZSCPXA-10000

If the sample is a primary sample, rinsate or MS/MSD sample, no qualifier will be designated. Rinsate samples will be assigned their own unique identification number but will be noted as a rinsate sample on the field sheet and COC. The MS/MSD samples will consist of a triple volume of a primary sample and will be noted as a MS/MSD on the field sheet and COC. Field duplicate samples will be given the same sample identification number as the primary and will be qualified FD.

3.5 Documentation

3.5.1 *Field Sheets*

Field sheets will be used to track access to properties and sample collection. The field team will complete a field sheet for each property sampled for soil. The field sheet incorporates the property access, property information and the sketch of the property (Appendix A).

A different field sheet will also be used when collecting interior dust samples. The field team will complete a field sheet for each sample collected. This field sheet incorporates the type of dust sample collected and information regarding the type of sample and a sketch of the area sampled (Appendix A).

3.5.2 *Field Logbook for Sampling Activities*

The most important aspect of documentation is thorough, accurate record keeping. All information obtained during the sampling activities will be recorded in a bound logbook with consecutively numbered pages. All entries in logbooks and on sample documentation forms will be made in waterproof ink, and corrections will consist of line-out deletions that are initialed and dated. Entries in the logbook will include but are not limited to the following, as applicable:

- Name and title of author, date and time of entry, and physical/environmental conditions during field activity.
- Purpose of sampling activity.
- Name and address of field contact.
- Names and titles of field crew members.
- Names, titles, and affiliations of any site visitors.
- Type of waste, suspected waste concentration if known and sample matrix.
- Sample collection method.
- Number and volume of samples taken.
- Location, description, and log of photographs of the sampling activities and locations.
- References for all maps and photographs of the sampling site(s).
- Information concerning sampling changes, scheduling modifications, and change orders.
- Details of the sampling location.
- Date and time of collection.
- Field observations including observations of samples such as odor and color.
- Any field measurements made.
- Sample identification numbers.

- Information from container labels of reagents used, HPLC water used for blanks, etc.
- Sample preservation.
- Sample distribution and transportation (such as the names of the laboratory and approved carrier).
- All sample documentation, such as the following:
  - -- Bottle QC lot numbers received from repository.
  - -- Activity numbers received from the USEPA.
  - -- COC record numbers received from the USEPA.
- Decontamination procedures.
- All documentation concerning derived wastes, such as the following:
  - -- Contents and approximate volume of waste in each drum.
  - -- Type and predicted level of contamination.
- Summary of daily tasks (including costs) and scope of work changes required by field conditions.
- Signature of the personnel responsible for observations and the date.

Sampling situations vary widely. No general rules can specify the exact information that must be entered in a logbook for a particular site. However, the logbook must contain sufficient information so that someone can reconstruct the sampling activity without relying on the collector's memory. The logbooks must be kept in the field team member's possession or in a secure place during the investigation. Following the investigation, the logbooks must become part of the final project file.

3.5.3 Photographs

All sampled properties will be photographed; therefore, an entry will be made in the field logbook to identify which sampling location is depicted in each photograph. At each sampled property, a photograph will be taken of the front and back yards. Photographs from each sampled property will be saved to a disk unique to the property. The disk will be labeled with the BVID number, the property address, the date and the number of photographs saved on each disk.

3.5.4 Sample Documentation

The following subsections describe the required sample documentation and the procedures for completing these documents at the Omaha Lead Refining Site. These documents will be utilized for each environmental sample collected for laboratory analysis.

3.5.4.1 Sample Labels

An adhesive sample label will be placed on each sample container submitted for chemical analysis. The following information will be included on each sample label:

- Site name.
- Sample number.
- Name of sampler.
- Sample collection date and time.
- Analysis requested and preservatives added.

Information known before field activities (i.e., site name, sample numbers, etc.) may be pre-printed on the sample labels. Duplicate sample labels can be prepared for cases when various aliquots of a sample must be submitted separately for individual analysis. An example label is shown in Appendix A.

3.5.4.2 Chain of Custody Record

A COC record will be completed for each sample shipment. Standard laboratory COC records will be used. An example form is shown in Appendix A of this FSP. After completion of the COC record, the COC record will be photocopied, enclosed in a sealable plastic bag and secured to the inside of the shipping container lid. If more than one shipping container is used for a day's shipment, a separate COC record is not required for each shipping container. The photocopy will be retained for reference before receipt of the original form with the laboratory's data deliverable package.

Shipping containers will be secured and custody seals will be placed across the container openings. As long as the COC record is sealed inside the shipping container and the custody seals remain intact, commercial carriers will not be required to sign the COC record.

3.5.4.3 Custody Seals

Custody seals will be used to ensure the integrity of the samples should they remain unattended or when they are relinquished to a delivery service until they are opened by the laboratory. All samples will be shipped in an insulted shipping container and each shipping container will be sealed with at least two custody seals. The seals will be affixed to each shipping container so that it is necessary to break the seals to open the shipping container. An example of a custody seal is shown in Appendix A of this FSP.

3.5.4.4 Sample Receipt Form

If split samples are provided to another party, a receipt for samples form will be completed (Appendix A). After completion of this form, the original copy, which is to be signed, will be retained for the project file and a copy will be given to the sample recipient.

3.5.4.5 Airbill

An airbill will be completed for each different laboratory address to which samples are to be shipped. More than one shipping container may be forwarded to the same address under one airbill. When the shipping containers are relinquished to the delivery service, additional information will be added to the airbill by an employee of the delivery service, and a copy of the airbill will be received by the field personnel. An example of a completed airbill is shown in Appendix A of this FSP.

3.6 Decontamination Procedures

Procedures for equipment decontamination will be implemented to avoid cross contamination of samples of various media that are to be submitted for chemical analysis. Sampling equipment will be thoroughly cleaned and decontaminated before initial use and between sample locations.

3.6.1 Initial Decontamination

Initial decontamination of the stainless steel spoons and bowls, the hand auger, the vacuum sampler, and other sampling equipment will take place prior to any sampling and will include the following steps:

1) Wash with dilute alconox wash.
2) Circulate and rinse with potable water.
3) Rinse with distilled water.
4) Wrap in aluminum foil or seal in a plastic bag until next use.

3.6.2 Intermediate Decontamination

Intermediate decontamination of the sampling equipment will be required between sampling attempts. The intermediate decontamination procedures for sampling equipment are the same as those outlined in the initial decontamination.

3.6.3 *Final Decontamination*

Final decontamination of all equipment is required to prevent contaminants from being carried off site. The procedures used during initial decontamination will be utilized during final decontamination.

4.0 Investigation Derived Waste

Investigation derived waste (IDW) will include decontamination fluids, soil and PPE. All non-disposable sampling and monitoring equipment will be used and decontaminated as specified in the HSP.

4.1 Liquid Waste

Liquid IDW will consist of decontamination fluids. Liquid IDW will be discharged to the sanitary sewer.

4.2 Solid Waste

4.2.1 Personal Protective Equipment (PPE)

Disposable PPE and trash will be double-bagged in plastic bags and will be disposed of as municipal solid waste.

4.2.2 Soil

The unused portions of soil from sampling will be separated and disposed of with waste soil generated by site remediation activities.

5.0 Field Activities Schedule

Field activities will begin in the spring of 2003. The start of field work is contingent upon obtaining access to residential properties. It is anticipated that the field activities will last approximately six months. If inclement weather is encountered, the work schedule may need to be adjusted.

6.0 References

ASTM, 2002, *Standard Practice for Collection of Floor Dust for Chemical Analysis*, 2002 Annual Book of ASTM Standards, ASTM D 5438-00.11.03: 499-505.

BVSPC, 2002, *Statement of Work for Omaha Lead Site*, prepared for USEPA Region VII, September 2002.

BVSPC, 2003a, *Health & Safety Plan, Omaha Lead Refining Site, Omaha, Nebraska,*, prepared for USEPA Region VII, April 2003.

BVSPC, 2003b, *Final Work Plan, Remedial Investigation/ Feasibility Study, Omaha Lead Site, Omaha, Nebraska*, prepared for USEPA Region VII, January 22, 2003.

CS_3, Inc., 1998, *High Volume Small Surface Sampler, HVS3, Operation Manual*, 1998.

EPA, 1995a, *Residential Sampling for Lead: Protocols for Dust and Soil Sampling*, EPA 747-R-95-001, March 1995.

EPA, 1995b, *Sampling House Dust for Lead: Basic Concepts and Literature Review*, EPA 747-R-95-007, September 1997.

Sverdrup Environmental, Inc., 1999, *Field Sampling Plan (FSP), Omaha Lead Refining Site Investigation, Omaha, Nebraska, Revision 1*, prepared for USEPA Region VII, March 22, 1999.

Appendix A
Field Documentation

BVID_____

U.S. Environmental Protection Agency Region VII

Omaha Lead Site
Omaha, NE

Interior Dust Samples
Remedial Investigation/
Feasibility Study

PROPERTY ACCESS
(to be completed by property owner)

Black & Veatch Special Projects Corp. (BVSPC) is under contract with the U.S. Environmental Protection Agency (EPA) to assist in the determination of levels of lead and other metals in interior dust within the Omaha, Nebraska area. Your cooperation is requested in giving BVSPC/EPA permission to access your property for the purpose of interior dust sampling analysis in support of this study. For further information contact Don Bahnke, EPA Project Manager, (913) 551-7003 or the Office of External Affairs (800) 223-0425.

Property Access Granted By: _____
(Please Print Name)

_____ _____
(Property Owner Signature) *(Date)*

*NOTE: Granting permission **DOES NOT** necessarily imply your property will be sampled at this time.*

SAMPLE INFORMATION
(to be completed by sampler - Please Print)

Residence address: _____ _____
(City) (State) (Zip)

Children live at the residence: ☐ Yes ☐ No List ages: _____

Sampler: _____ Date: _____

Wipe Sample

Room: Kitchen/Breakfast ☐ Bedroom ☐ Living Room ☐ Dining Room ☐ Den/Great Room/Family Room ☐
Play Room ☐ Office ☐ Other ☐ _____

Area of sample collection: _____ (inches^2)

Time of collection: _____

Lead loading: _____ (μg/ft^2) Lab result: _____

Vacuum Sample No. 1

Room: Kitchen/Breakfast ☐ Bedroom ☐ Living Room ☐ Dining Room ☐ Den/Great Room/Family Room ☐
Play Room ☐ Office ☐ Other ☐ _____

Area of sample collection: _____

Time of collection: _____ Total Sample Time: _____

Type of Floor Sampled:

(Check one) Carpet ☐ Rug ☐
(Check one) Plush ☐ Level Loop ☐ Multi-level ☐ Shag ☐ Other ☐ _____
-OR-
(Check one) Hard Surface: Wood ☐ Tile ☐ Vinyl/Laminate ☐ Concrete ☐ Brick ☐ Other ☐ _____

Access Attempts:

First: _____ Second: _____ Third: _____

Black & Veatch Special Projects Corp.

Last vacuumed: _____

Temperature: _____ Humidity: _____ Flow rate: _____ Pressure drop: _____

Tare weight (container before sample): _g Final weight (container and sample): _____g Weight of total sample: _____g

Pan tare weight (pan w/o sieved sample): _____g Final weight (pan and sieved sample): _____g

Weight of sieved dust sample: _____g (Fine Dust)

Lead loading: _____ ($\mu g/ft^2$) Lead concentration: _____ ($\mu g/g$) Lab result: _____

Vacuum Sample No. 2

Room: Kitchen/Breakfast ☐ Bedroom ☐ Living Room ☐ Dining Room ☐ Den/Great Room/Family Room ☐
Play Room ☐ Office ☐ Other ☐ _____

Area of sample collection: _____ ($inches^2$)

Time of collection: _____ Total Sample Time: _____

(Check one) Carpet ☐ Rug ☐
(Check one) Plush ☐ Level Loop ☐ Multi-level ☐ Shag ☐ Other ☐ _____
-OR-
(Check one) Hard Surface: Wood ☐ Tile ☐ Vinyl/Laminate ☐ Concrete ☐ Brick ☐ Other ☐ _____

Last vacuumed: _____

Temperature: _____ Humidity: _____ Flow rate: _____ Pressure drop: _____

Tare weight (container before sample): _g Final weight (container and sample): _____g Weight of total sample: _____g

Pan tare weight (pan w/o sieved sample): _____g Final weight (pan and sieved sample): _____g

Weight of sieved dust sample: _____g (Fine Dust)

Lead loading: _____ ($\mu g/ft^2$) Lead concentration: _____ ($\mu g/g$) Lab result: _____

Vacuum Sample No. 3

Room: Kitchen/Breakfast ☐ Bedroom ☐ Living Room ☐ Dining Room ☐ Den/Great Room/Family Room ☐
Play Room ☐ Office ☐ Other ☐ _____

Area of sample collection: _____ ($inches^2$)

Time of collection: _____ Total Sample Time: _____

(Check one) Carpet ☐ Rug ☐
(Check one) Plush ☐ Level Loop ☐ Multi-level ☐ Shag ☐ Other ☐ _____
-OR-
(Check one) Hard Surface: Wood ☐ Tile ☐ Vinyl/Laminate ☐ Concrete ☐ Brick ☐ Other ☐ _____

Last vacuumed: _____

Temperature: _____ Humidity: _____ Flow rate: _____ Pressure drop: _____

Tare weight (container before sample): _g Final weight (container and sample): _____g Weight of total sample: _____g

Pan tare weight (pan w/o sieved sample): _____g Final weight (pan and sieved sample): _____g

Weight of sieved dust sample: _____g (Fine Dust)

Lead loading: _____ ($\mu g/ft^2$) Lead concentration: _____ ($\mu g/g$) Lab result: _____

AUTHORITY FOR ENVIRONMENTAL RESPONSE ACTIONS
The activities to be implemented by EPA under this agreement are pursuant to Section 104 of CERCLA, 42 U.S.C. 9604. EPA's right of access to the property in Section 104(e) of CERCLA, 42 U.S.C. 9604(e), which provides entry for, "determining the need for response, or choosing or taking any response action under this title, or otherwise enforcing the provisions of this title."

CHAIN OF CUSTODY RECORD
ENVIRONMENTAL PROTECTION AGENCY REGION VII

ACTIVITY LEADER(Print)	NAME OF SURVEY OR ACTIVITY	DATE OF COLLECTION DAY MONTH YEAR	SHEET of

CONTENTS OF SHIPMENT

SAMPLE NUMBER	TYPE OF CONTAINERS CUBITAINER / BOTTLE / BOTTLE / BOTTLE / VOA SET (2 VIALS EA) NUMBERS OF CONTAINERS PER SAMPLE NUMBER					SAMPLED MEDIA water	soil	sediment	dust	other	RECEIVING LABORATORY REMARKS/OTHER INFORMATION (condition of samples upon receipt, other sample numbers, etc.)

DESCRIPTION OF SHIPMENT

_____ PIECE(S) CONSISTING OF _____ BOX(ES)

_____ ICE CHEST(S); OTHER _____

MODE OF SHIPMENT

_____ COMMERCIAL CARRIER: _____

_____ COURIER

_____ SAMPLER CONVEYED

_____ (SHIPPING DOCUMENT NUMBER)

PERSONNEL CUSTODY RECORD

RELINQUISHED BY (SAMPLER)	DATE	TIME	RECEIVED BY	REASON FOR CHANGE OF CUSTODY
☐ SEALED ☐ UNSEALED			☐ SEALED ☐ UNSEALED	
RELINQUISHED BY	DATE	TIME	RECEIVED BY	REASON FOR CHANGE OF CUSTODY
☐ SEALED ☐ UNSEALED			☐ SEALED ☐ UNSEALED	
RELINQUISHED BY	DATE	TIME	RECEIVED BY	REASON FOR CHANGE OF CUSTODY
☐ SEALED ☐ UNSEALED			☐ SEALED ☐ UNSEALED	

Official Sample Seal

BLACK & VEATCH
SPECIAL PROJECTS CORP.

SAMPLE NO.

DATE 12/18/01

SIGNATURE Jill Murray

PRINT NAME AND TITLE Jill MURRAY Geologist

SEAL BROKEN BY

DATE

UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
OFFICIAL SAMPLE SEAL

SAMPLE NO.

DATE 3/20/02

SIGNATURE Jill Murray

PRINT NAME AND TITLE (Inspector, Analyst or Technician)
Field Team Leader

SEAL BROKEN BY

DATE

EPA FORM 7500-2 (R7-75)

WASTE SCIENCE AND TECHNOLOGY CORP.

RECEIPT FOR SAMPLES

PROJ. NO.	PROJECT NAME	Name of Facility
SAMPLERS: (Signature)		Facility Location
Split Samples Offered ( ) Accepted ( ) Declined		

STA. NO.	DATE	TIME			SPLIT SAMPLES	TAG NUMBERS	STATION DESCRIPTION	NO. OF CON-TAINERS	REMARKS

Transferred by: (Signature)	Received by: (Signature) Telephone
Date Time	Title Date Time

Distribution: White copy retained by sampler: Yellow copy to sample recipient

2361

400

MUR22

FedEx Express USA Airbill

FedEx Tracking Number 828143813930

Form I.D. No. 0215

1 From *Please print and press hard.*

Date 12/18/01 Sender's FedEx Account Number 1060-3987-9

Sender's Name JILL MURRAY Phone (913) 458-8910

Company BLACK&VEATCH SPECIAL PROJ CORP

Address 6601 COLLEGE BLVD Dept./Floor/Suite/Room

City OVERLAND PARK State KS ZIP 66211

2 Your Internal Billing Reference

First 24 characters will appear on invoice.

3 To

Recipient's Name Nicole Roblez Phone (913) 551-5130

Company USEPA Laboratories - Region VII

Address 25 FUNSTON ROAD

To "HOLD" at FedEx location, print FedEx address. We cannot deliver to P.O. boxes or P.O. ZIP codes.

Dept./Floor/Suite/Room

City KANSAS CITY State KS ZIP 66115

Peel and Stick FedEx USA Airbill

See back for application instructions.

Questions? Visit our Web site at fedex.com

or call 1•800•Go•FedEx® (800)463-3339.

By using this Airbill you agree to the service conditions on the back of this Airbill and in our current Service Guide, including terms that limit our liability.

0190901679

4a Express Package Service

Packages up to 150 lbs. Delivery commitment may be later in some areas.

- [x] FedEx Priority Overnight — Next business morning
- [ ] FedEx Standard Overnight — Next business afternoon
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations
- [ ] FedEx 2Day — Second business day
- [ ] FedEx Express Saver — Third business day
- [ ] NEW FedEx Extra Hours — Later drop-off with next business afternoon delivery for select locations

FedEx Envelope rate not available. Minimum charge: One-pound rate

4b Express Freight Service

Packages over 150 lbs. Delivery commitment may be later in some areas.

- [ ] FedEx 1Day Freight* — Next business day
- [ ] FedEx 2Day Freight — Second business day
- [ ] FedEx 3Day Freight — Third business day

* Call for Confirmation: _____

5 Packaging

* Declared value limit $500

- [ ] FedEx Envelope*
- [ ] FedEx Pak* — Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak
- [x] Other Pkg. — Includes FedEx Box, FedEx Tube, and customer pkg.

6 Special Handling

Include FedEx address in Section 3.

- [ ] **SATURDAY Delivery** — RESTRICTIONS: Available only for FedEx Priority Overnight and FedEx 2Day to select ZIP codes
- [ ] **HOLD Weekday at FedEx Location** — RESTRICTIONS: Not available with FedEx First Overnight
- [ ] **HOLD Saturday at FedEx Location** — RESTRICTIONS: Available only for FedEx Priority Overnight and FedEx 2Day to select locations

Does this shipment contain dangerous goods? One box must be checked.

- [x] No
- [ ] Yes — As per attached Shipper's Declaration
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg
- [ ] Cargo Aircraft Only

Dangerous Goods (incl. Dry Ice) cannot be shipped in FedEx packaging or with FedEx Extra Hours service.

7 Payment *Bill to:*

Enter FedEx Acct. No. or Credit Card No. below.

- [x] Sender — Acct. No. in Section 1 will be billed.
- [ ] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

FedEx Acct. No. / Credit Card No. _____ Exp. Date _____

Total Packages	Total Weight	Total Declared Value†
		$ .00

†Our liability is limited to $100 unless you declare a higher value. See back for details.

FedEx Use Only

8 Release Signature

Sign to authorize delivery without obtaining signature.

By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

406

Rev. Date 7/01 • Part #155918G • ©1994–2000 FedEx • PRINTED IN U.S.A. GBFE 6/01

PLEASE PRINT PRESS HARD AND RETAIN THIS COPY FOR YOUR RECORDS. RETURN TO THIS ADDRESS

Appendix H
Soil Grain Size Comparison Study

JACOBS ENGINEERING®
Engineers and Constructors
Jacobs Federal Operations
4400 College Boulevard, Suite 160
Overland Park, Kansas 66211 U.S.A.
1.913.663.2101 Fax 1.913.663.1668

RECEIVED
MAY 15 2000
SUPERFUND DIVISION

May 15, 2000

Don Bahnke
Environmental Protection Agency
Superfund Division
901 North 5th Street
Kansas City, KS 66101

Re: Grain Size Comparison Study
Omaha Lead Site Investigation
WA 25
Contract No. 68-W5-0014

Dear Mr. Bahnke:

Attached are the results from the grain size comparison study performed for the Omaha Lead Site Investigation. Soil samples passing a No. 10 and a No. 60 mesh sieve were analyzed separately for lead. The ratio of the lead results for the two sieve sizes was calculated. Both normal and log-normal data results have been calculated and are provided in the attached table. In addition, a linear regression was developed for the normal and log-normally transformed data comparing the No. 10 versus the No. 60 mesh lead concentrations in soil. The regression coefficient for both the normal and log-normally transformed data is extremely high (i.e, 96% and 98%, respectively).

Based on these results, it appears that very little error occurs when the No. 60 mesh sieve is not used during sample preparation prior to analyzing soil samples with the Niton 700 Series XRF analyzers. This information was used to modify the procedures specified in the Field Sampling Plan. Attachment 1 provides a description of the comparison study along with changes agreed upon between Jacobs Federal Operations (JFO) and EPA during a May 6, 1999 conference call.

JACOBS FEDERAL OPERATIONS

Todd Trometer, P.G.
Project Manager

enclosure

S:\SVE_PROJ\000155\025\XRFRESUL\COMPARIS\LETT0512.WPD

Data Comparision Study
Lead Concentrations (mg/Kg) for Samples Passing #10 and #60 Sieves

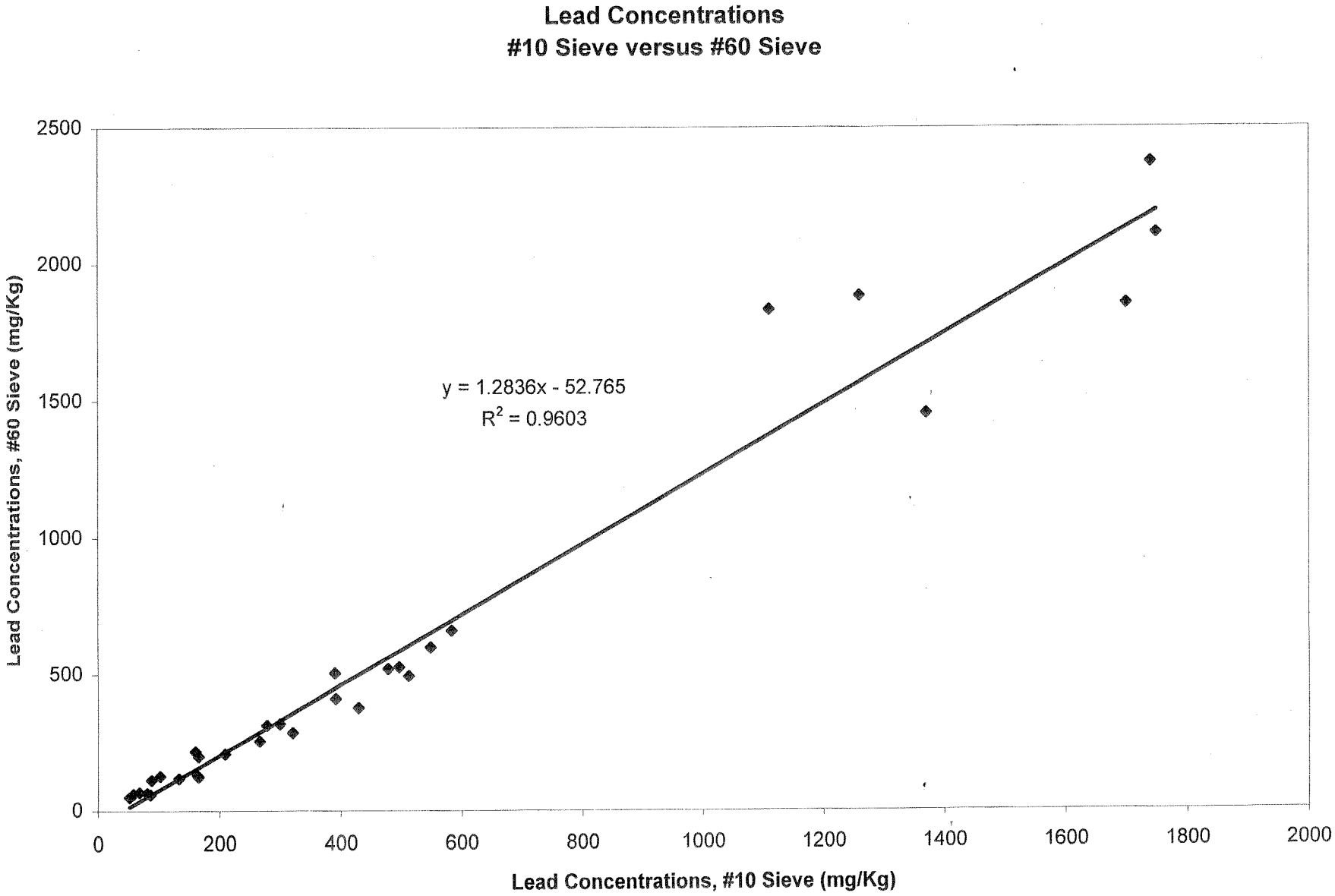
Sample Number	#10 Sieve	#60 Sieve	Ratio	log #10 Sieve	log #60 Sieve	Ratio
1511	133	119	1.12	2.12	2.08	1.02
1517	1370	1450	0.94	3.14	3.16	0.99
1528	496	526	0.94	2.70	2.72	0.99
1535	429	378	1.13	2.63	2.58	1.02
1543	102	128	0.80	2.01	2.11	0.95
1545	391	411	0.95	2.59	2.61	0.99
1548	278	315	0.88	2.44	2.50	0.98
1553	1700	1850	0.92	3.23	3.27	0.99
1616	1749	2109	0.83	3.24	3.32	0.98
1625	58	62	0.94	1.76	1.79	0.99
1627	583	660	0.88	2.77	2.82	0.98
1635	266	257	1.04	2.42	2.41	1.01
1673	512	493	1.04	2.71	2.69	1.01
1591	478	519	0.92	2.68	2.72	0.99
1597	160	218	0.73	2.20	2.34	0.94
1599	548	599	0.91	2.74	2.78	0.99
1600	512	493	1.04	2.71	2.69	1.01
1642	390	504	0.77	2.59	2.70	0.96
1683	1740	2370	0.73	3.24	3.37	0.96
1664	1260	1880	0.67	3.10	3.27	0.95
1666	81	65	1.25	1.91	1.81	1.05
1650	299	320	0.93	2.48	2.51	0.99
1656	1110	1830	0.61	3.05	3.26	0.93
1685	165	200	0.83	2.22	2.30	0.96
1731	68	68	1.00	1.83	1.83	1.00
1725	163	132	1.23	2.21	2.12	1.04
1713	320	288	1.11	2.51	2.46	1.02
1720	165	124	1.33	2.22	2.09	1.06
1702	209	209	1.00	2.32	2.32	1.00
1722	52	50	1.04	1.72	1.70	1.01
1739	86	59	1.45	1.93	1.77	1.09
1747	88	114	0.77	1.94	2.06	0.94
		Average Ratio:	0.96		Average Ratio:	0.99

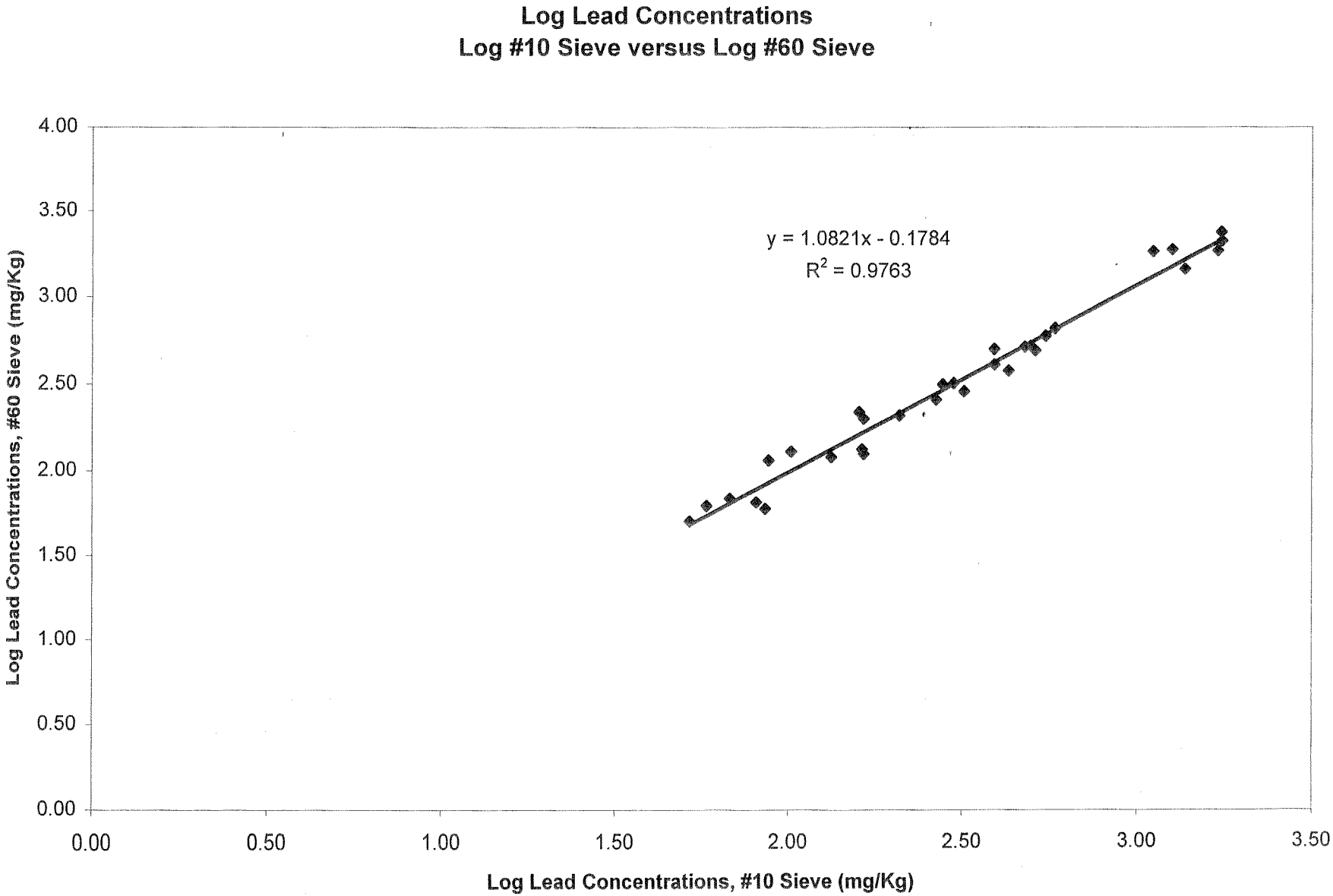
Regression Output for #10 Sieve vs. #60 Sieve:

Constant		-52.7653
Std Err of Y Est		138.0648
R Squared		0.960282
No. of Observations		32
Degrees of Freedom		30
X Coefficient(s)	1.28364	
Std Err of Coef.	0.047662	

Regression Output for Log #10 Sieve vs. Log #60 Sieve:

Constant		-0.17841
Std Err of Y Est		0.077507
R Squared		0.976301
No. of Observations		32
Degrees of Freedom		30
X Coefficient(s)	1.082066	
Std Err of Coef.	0.03078	


Lead Concentrations
#10 Sieve versus #60 Sieve
y = 1.2836x - 52.765
R2 = 0.9603
Lead Concentrations, #60 Sieve (mg/Kg)
Lead Concentrations, #10 Sieve (mg/Kg)
0
500
1000
1500
2000
2500
0
200
400
600
800
1000
1200
1400
1600
1800
2000


Log Lead Concentrations
Log #10 Sieve versus Log #60 Sieve
y = 1.0821x - 0.1784
R2 = 0.9763
Log Lead Concentrations, #60 Sieve (mg/Kg)
Log Lead Concentrations, #10 Sieve (mg/Kg)
4.00
3.50
3.00
2.50
2.00
1.50
1.00
0.50
0.00
0.00
0.50
1.00
1.50
2.00
2.50
3.00
3.50