

**REMOVAL SITE EVALUATION  
FOR  
PILSEN SOIL ASSESSMENT AREA: RESIDENTIAL  
CHICAGO, COOK COUNTY, ILLINOIS**

**REDACTED**

Prepared for:

**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**  
Emergency Response Branch  
Region 5  
77 West Jackson Boulevard  
Chicago, IL 60604-3507

Prepared by:

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## TABLE OF CONTENTS

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<b>1.</b>	<b>INTRODUCTION.....</b>	<b>1</b>
<b>2.</b>	<b>ASSESSMENT AREA BACKGROUND .....</b>	<b>2</b>
	2.1 ASSESSMENT AREA DESCRIPTION .....	2
	2.2 POTENTIAL INDUSTRIAL SOURCES OF HEAVY METAL SOIL CONTAMINATION.....	4
<b>3.</b>	<b>ASSESSMENT AREA ACTIVITIES .....</b>	<b>4</b>
	3.1 MAY 2013 RESIDENTIAL PROPERTY ASSESSMENT ACTIVITIES .....	6
	3.2 JULY 2013 RESIDENTIAL PROPERTY ASSESSMENT ACTIVITIES.....	8
	3.3 AUGUST 2013 RESIDENTIAL PROPERTY ASSESSMENT ACTIVITIES ...	10
<b>4.</b>	<b>RESULTS &amp; ANALYSIS.....</b>	<b>10</b>
	4.1 ASSESSMENT AREA SAMPLING RESULTS .....	10
	4.1.1 Assessment Area Res1 Results .....	11
	4.1.2 Assessment Area Res2 Results .....	12
	4.1.3 Assessment Area Res3 Results .....	13
	4.1.4 Harrison Park Reference Area Results .....	14
	4.1.5 Little Italy Reference Area Results.....	15
	4.2 ASSESSMENT AREA SOIL LITHOLOGY RESULTS.....	16
	4.3 CONTAMINANT OF CONCERN.....	16
<b>5.</b>	<b>EVALUATION OF POTENTIAL SOURCES OF LEAD CONTAMINATION AT THE ASSESSMENT AREA .....</b>	<b>16</b>
	5.1 H. KRAMER & COMPANY .....	16
	5.2 LOEWENTHAL METALS CORPORATION.....	31
	5.3 NATIONAL LEAD/SOUTHERN WHITE LEAD WORKS.....	33
	5.4 CENTURY SMELTING & REFINING.....	34
	5.5 MIDWEST GENERATION FISK STATION .....	36
<b>6.</b>	<b>DEFINITION OF PILSEN SOIL SITE RESIDENTIAL AREA SITE BOUNDARY .....</b>	<b>37</b>
<b>7.</b>	<b>SUMMARY AND CONCLUSIONS .....</b>	<b>37</b>
<b>8.</b>	<b>REFERENCES.....</b>	<b>42</b>

---

## LIST OF FIGURES

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<b>Figure 1-1</b>	Assessment Area Location Map
<b>Figure 2-1</b>	Assessment Area Features Map
<b>Figure 2-2</b>	Predominant Wind Pathway Map
<b>Figure 3-1</b>	Residential Property Sampling Location Map
<b>Figure 4-1</b>	Res1 Surface Soil Sampling Results
<b>Figure 4-2</b>	Res2 Surface Soil Sampling Results
<b>Figure 4-3</b>	Res3 Surface Soil Sampling Results
<b>Figure 4-4</b>	Harrison Park Reference Area Surface Soil Sampling Results
<b>Figure 4-5</b>	Little Italy Reference Area Surface Soil Sampling Results

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## LIST OF TABLES

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<b>Table 3-1</b>	Soil Sampling Summary
<b>Table 4-1</b>	Res1 Soil Sampling Results
<b>Table 4-2</b>	Res2 Soil Sampling Results
<b>Table 4-3</b>	Res3 Soil Sampling Results
<b>Table 4-4</b>	Harrison Park Reference Area Soil Sampling Results
<b>Table 4-5</b>	Little Italy Reference Area Soil Sampling Results
<b>Table 5-1</b>	H. Kramer Baghouse Sampling Results

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## LIST OF APPENDICES

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<b>Appendix A</b>	Laboratory Analytical Reports and Data Validation Reports
<b>Appendix B</b>	EPA FIELDS Supplemental Data Analysis

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## LIST OF ABBREVIATIONS AND ACRONYMS

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µg/dl	Microgram per deciliter
µm	Micrometer
ANOVA	Analysis of variance
bgs	Below ground surface
BNSF	Burlington Northern Santa Fe
CDC	Center for Disease Control and Prevention
CDOE	Chicago Department of Environment
Century	Century Smelting & Refining
CFR	<i>Code of Federal Regulations</i>
COC	Contaminant of concern
CRA	Conestoga-Rovers & Associates
Crawford Station	Midwest Generation Crawford Station
DOJ	Department of Justice
FIELDS	Field Environmental Decision Support
Fisk Station	Midwest Generation Fisk Station
ft	Feet
ft <sup>2</sup>	Square feet
H. Kramer	H. Kramer & Company
Harrison Park reference area	Harrison Park neighborhood
HQ	Hazard Quotient
IEPA	Illinois Environmental Protection Agency
IVBA	<i>In vitro</i> bioaccessibility
Juarez	Benito Juarez Community Academy
LA-ICP-MS	Laser ablation-inductively coupled plasma-mass spectrometry
lb	Pound
Little Italy reference area	Little Italy residential neighborhood
Loewenthal	Loewenthal Metal Corp.
mg/kg	Milligram per kilogram
mg/L	Milligram per liter
NAAQS	National Ambient Air Quality Standard
NEIC	National Enforcement Investigations Center
NFR	No Further Remediation
NL	National Lead/Southern White Lead Works
NOAA	National Oceanic and Atmospheric Administration
OSC	On-Scene Coordinator
PAH	Polynuclear aromatic hydrocarbon
PCS	Pre-CERCLIS Screening
Perez	Manuel Perez Jr. Elementary School
PERRO	Pilsen Environmental Rights & Reform Organization
Pilsen	Lower West Side
Pioneer	Pioneer Environmental, Inc.
PPE	Personal protective equipment
RBA	Relative bioavailability

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## LIST OF ABBREVIATIONS AND ACRONYMS (CONTINUED)

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RCRA	Resource Conservation and Recovery Act
REC	Recognized environmental conditions
RML	Removal Management Level
SAU	Site Assessment Unit
SEM/EDS	Scanning electron microscopy with energy dispersive spectrometry
SRO	Soil Remediation Objective
SRP	Site Remediation Program
START	Superfund Technical Assessment and Response Team
TCLP	Toxicity Characteristic Leaching Procedure
TRI	Toxic Release Inventory
TSP	Total suspended particulate
USGS	United States Geological Survey
WESTON	Weston Solutions, Inc.
XRF	X-ray fluorescence
yd <sup>3</sup>	Cubic yards

## 1. INTRODUCTION

The U.S. Environmental Protection Agency tasked the Weston Solutions, Inc. (WESTON®), Superfund Technical Assessment and Response Team (START) to assist EPA On-Scene Coordinator (OSC) Ramon Mendoza in performing a removal site evaluation in an approximately 164-acre residential, commercial, and industrial area of the Lower West Side (Pilsen) neighborhood of the City of Chicago, Cook County, IL (Assessment Area; **Figure 1-1**). In addition to the Assessment Area, the overall “Pilsen Soil Site” consists of an alley (owned by the City of Chicago) and a railroad spur (operated by Burlington Northern Santa Fe [BNSF]), located south of the Assessment Area. For an evaluation of the impact of present and historical industrial sources of heavy metal air emissions on soil in the alley and railroad spur, see “Site Assessment Report for Pilsen Soil Site: Railroad/Alley” (WESTON, 2014a) and “Addendum I to the Site Assessment Report for Pilsen Soil Site: Railroad/Alley” (WESTON, 2014b).

The objective of the removal site evaluation was to determine the nature and extent of heavy metal contamination in soil from present and historical sources of heavy metal air emissions on the Assessment Area and to evaluate potential contributing sources. Specifically, EPA requested that WESTON START document and photograph current Assessment Area conditions; conduct x-ray fluorescence (XRF) screening; collect and analyze soil samples; and evaluate the potential for imminent and substantial threats to the public health, welfare, or the environment posed by Assessment Area-related conditions.

In May 2013, July 2013, and August 2013, WESTON START conducted three removal site evaluation field sampling events with a focus on residential properties in the Assessment Area and two residential reference areas (the Harrison Park neighborhood [Harrison Park reference area] and Little Italy neighborhood [Little Italy reference area]). Soil samples from the reference areas served as reference for comparison with the soil samples collected from the Assessment Area. This report documents the results from these residential areas where soil samples were collected at the Assessment Area and reference areas during the aforementioned period.

This report is organized into the following sections:

W0141.1A.00260

- **Introduction** – Provides a brief description of the scope of Assessment Area evaluation activities.
- **Assessment Area Background** – Discusses the Assessment Area description and identifies the potential industrial sources of heavy metal soil contamination.
- **Assessment Area Activities** – Discusses methods and procedures used during the removal site evaluation in residential properties in the Assessment Area and reference areas.
- **Results & Analysis** – Discusses analytical results for samples collected during the removal site evaluation for the Assessment Area and reference areas.
- **Evaluation of Potential Sources of Lead Contamination in the Assessment Area** – Describes present and historical entities that may have contributed to lead contamination in Assessment Area soil; summarizes past environmental investigations regarding these entities; and evaluates the potential contribution of these sources to lead contamination in Assessment Area soil. This section includes analyses performed by EPA’s Field Environmental Decision Support (FIELDS) group.
- **Definition of Pilsen Soil Site Residential Area Site Boundary** – Defines the boundary of the residential area of the “Pilsen Soil Site.”
- **Summary and Conclusions** – Summarizes the results of the residential Assessment Area and provides conclusions.
- **References** – Provides a list of references used to prepare this report.

Figures and tables are presented after the references section (Section 7). There are also two appendices. **Appendix A** provides the laboratory analytical and data validation reports for samples collected during the removal site evaluation and **Appendix B** provides a supplemental soil data analysis by EPA FIELDS.

## **2. ASSESSMENT AREA BACKGROUND**

### **2.1 ASSESSMENT AREA DESCRIPTION**

The Assessment Area is approximately 164 acres in a residential, commercial, and industrial area of the Pilsen neighborhood in the City of Chicago, Cook County, IL (**Figure 2-1**). Two City of Chicago parks, Dvorak Park and Throop Park, and one school, the Manuel Perez Jr. Elementary School (Perez), are located within the Assessment Area. The Benito Juarez Community Academy (Juarez) is located adjacent to the Assessment Area to the west. The majority of the residential front yards and backyards are sunken, about 3 to 6 feet below street level. According

W0141.1A.00260



to National Oceanic and Atmospheric Administration (NOAA) meteorological data collected from 1928 to 2013, the predominant wind directions in the Chicago, IL, area are from the south and west. **Figure 2-2** presents a projected wind rose superimposed over the southwest region of the Assessment Area.

As a result of the findings of EPA FIELDS' statistical evaluation of Removal Site Evaluation's sampling results (Section 5), the Assessment Area was divided into three subareas: Res1, Res2, and Res3.

- Res1 is an approximately 14-acre semi-rectangular area in the southwest corner of the Assessment Area, bound by West 19<sup>th</sup> Street to the north, South Allport Street to the east, West 21<sup>st</sup> Street to the south, and South Loomis Street to the west (**Figure 2-1**). In 2010, the population within Res1 was 1,047 (EPA, 2014a).
- Res2 is an approximately 40-acre arc-shaped area extending approximately 680 feet northward from the northwest corner of Res1 to West 18<sup>th</sup> Street and approximately 765 feet eastward from the southeast corner of Res1 to South May Street (**Figure 2-1**). The north/west border of Res2 curves southward from the intersection of West 18<sup>th</sup> Street and South Throop Street to the intersection of West 21<sup>st</sup> Street and South May Street. In 2010, the population within Res2 was 2,109 (EPA, 2014b).
- Res3 is an approximately 110 acre arc-shaped area extending northward from Res2 to West 16<sup>th</sup> Street and eastward from Res2 to South Sangamon Street (**Figure 2-1**). In 2010, the population within Res3 was 5,210 (EPA, 2014c).

The Harrison Park reference area is approximately 160 acres and located approximately 0.4 mile west of the Assessment Area (**Figure 1-1**). The Harrison Park reference area is a multi-sided polygon generally bound to the north by West 16<sup>th</sup> Street, to the east by South Laflin Street, to the south by West Blue Island Avenue, and to the west by South Leavitt Street. The Little Italy reference area is approximately 110 acres and located approximately 1.2 miles north of the Assessment Area (**Figure 1-1**). The Little Italy reference area is bound to the north by West Lexington Street, to the east by South Ada Street, to the south by West Taylor Street, and to the

W0141.1A.00260

west by South Laflin Street.

## **2.2 POTENTIAL INDUSTRIAL SOURCES OF HEAVY METAL SOIL CONTAMINATION**

From 2013-2014, EPA investigated present and historical entities that may have contributed to heavy metal contamination in soil in the Pilsen neighborhood. Investigation activities involved facility reconnaissance, including a visual inspection of the exterior and interior of the facility when possible, and interviews with facility personnel, local business representatives, and residents to the extent possible to determine current and historical ownership and operations at each facility. Based on the information available such as facility type, location, operational history, environmental compliance/characterization, remedial or removal reports; and wind data, EPA identified that Loewenthal Metal Corp. (Loewenthal), National Lead/Southern White Lead Works (NL), Century Smelting & Refining (Century), Midwest Generation Fisk Station (Fisk Station), and H. Kramer & Company (H. Kramer) were the most likely industrial large-scale contributors to lead contamination in soil at the Assessment Area. These facilities may have contributed through historical stack air emissions and/or fugitive/uncontrolled dust emissions which contained lead. An evaluation of these facilities is provided in Section 5 of this report.

## **3. ASSESSMENT AREA ACTIVITIES**

In May 2013, July 2013, and August 2013, EPA and WESTON START conducted a removal site evaluation to determine the nature and extent of heavy metal contamination in soil from present and historical sources of heavy metal air emissions on the Assessment Area and to evaluate potential contributing sources. The soil sampling activities were conducted in accordance with the document entitled “Field Sampling Plan for the Pilsen Area Soil Site Assessment, Revision 2,” dated April 30, 2013, and with EPA’s “Superfund Lead-Contaminated Residential Sites Handbook” (EPA, 2003). In addition, all sampling was conducted in accordance with the Quality Assurance Project Plan for the Region 5 START III Contract, dated June 2006. From May 1 to 10, 2013. Lead was suspected to be the primary contaminant of concern (COC) in Assessment Area surface soil based on the previous site assessment work

W0141.1A.00260

conducted in the railroad and alley and other reports (Subra Company, 2005; CRA, 2007; WESTON START, 2014a).

Residential properties in the Harrison Park and Little Italy reference areas were selected to provide reference locations by which results from the Assessment Area could be compared. To fulfill these objectives, the following Assessment Area assessment activities were conducted:

- May 1-3, 7-10, 2013: Assessment Area residential property field soil sampling event.
- July 9-12 and 15, 2013: Assessment Area and Harrison Park residential property field soil sampling event.
- August 12-16 2013: Assessment Area, Harrison Park, and Little Italy residential property field soil sampling event.

Owners of individual residential properties gave EPA permission through signed voluntary access agreements to collect soil samples from their properties. All soil sampling activities were conducted in Level D personal protective equipment (PPE) in accordance with the approved site-specific health and safety plan. Fresh sampling gloves were donned before sampling activities began at each new location and for each sample to avoid cross-contamination. Non-disposable equipment that could potentially cross-contaminate samples (e.g., hand augers) were decontaminated between each sampling location using an alconox wash and a potable water rinse.

At all residential properties, WESTON START collected soil aliquots using 2-, 3-, or 4-inch stainless steel hand augers. Composite samples were placed into disposable polyethylene bags and mixed. After mixing, samples were analyzed using EPA's Innov-X Alpha Series XRF device. No on-site sieving of soil occurred. Samples were then transferred directly into laboratory-provided glass sample jars and placed on ice. Any unused soil was returned to the point from which it was collected. All sampling locations in residential locations were filled to the surface with clean fill dirt, and then seeded with grass seed. Commercially available topsoil was added to surface soil sampling locations to restore original grade as necessary. Additional soil sampling activities specific to the May, July, and August 2013 field sampling events are discussed in the following sections.

W0141.1A.00260

### **3.1 MAY 2013 RESIDENTIAL PROPERTY ASSESSMENT ACTIVITIES**

During the May 2013 sampling event, EPA and WESTON START collected 90 soil samples (81 investigative and nine field duplicates) from 34 residential properties located within 5/8 mile and downwind of the prevailing wind pathway at the H. Kramer property (**Table 3-1, Figure 3-1**).

For all residential properties with a total surface area of approximately 5,000 square feet (ft<sup>2</sup>) or less, a two- to five-point composite sample was collected from 0-2 and 0-6 inches below ground surface (bgs) from the front yard and/or backyard. The composites were equally spaced within the respective portion of the yard, were outside of any drip zones, and away from influences of any painted surfaces.

At St. Procopius field, which has a total surface area of greater than 5,000 ft<sup>2</sup> but less than 1 acre, the property was divided into four quadrants of roughly equal surface area, and five-point composite samples were collected from each quadrant at 0-2 and 0-6 inches bgs at equal spacing and from the same depth interval. The composite samples were collected outside of any drip zones and away from influences of any painted surfaces. The playground at St. Procopius was sampled in the same manner as a residential property with a total surface area of approximately 5,000 ft<sup>2</sup> or less.

If XRF screening showed that the 0- to 2-inch bgs composite sample was an order of magnitude different in lead concentration from the 0- to 6-inch bgs composite sample, then both composites were submitted for analytical laboratory analysis. If the two composite samples were within an order of magnitude different, then only the 0- to 6-inch bgs composite sample was submitted for analytical laboratory analysis.

Due to XRF uncertainty, two “replicate” soil samples were collected in residential yards where XRF screening indicated surface soil lead contamination near the 2014 EPA Removal Management Level (RML) for residential soil of 400 milligrams per kilogram (mg/kg). The EPA recommends that residential soils do not exceed 400 mg/kg of lead. This concentration is based on protecting children from exceeding the Center for Disease Control and Prevention (CDC)

W0141.1A.00260

recommended blood lead level of 10 micrograms per deciliter ( $\mu\text{g}/\text{dl}$ ) in blood. RMLs help identify areas, contaminants, and conditions where a removal action may be appropriate.

Specifically, in residential yards where an XRF screening of a five-point residential yard composite sample collected from a 0- to 6-inch bgs interval indicated a lead concentration between 300 and 500 mg/kg, two additional 0- to 6-inch bgs five-point composite samples were collected and submitted analytical laboratory analysis. These replicate samples provided EPA with additional information to determine if soil in a residential yard contained lead above or below the 2014 EPA RML for residential soil of 400 mg/kg.

An additional soil sample was collected in distinct garden areas. Garden soil samples were composite samples consisting of two to five soil aliquots collected from 0-6 or 0-12 inches bgs. The composites were equally spaced within garden areas, outside of the drip zone, and away from influences of any painted surfaces.

A separate soil sample was collected where distinct drip zones were present. Drip zone soil samples were either: (1) a grab sample, consisting of soil from 0-6 inches bgs collected beneath a gutter downspout, or (2) a composite soil sample, consisting of up to five soil aliquots from 0- to 6-inches bgs collected from beneath house or shed walls lacking rain gutters.

Soil samples were submitted under chain of custody to STAT Analysis Corporation in Chicago, IL, for at least one of the following analyses:

- Select total metals (antimony, copper, cadmium, chromium, mercury, lead, tin, and zinc).
- Lead, fine-grained fraction (grain size < 250 micrometers [ $\mu\text{m}$ ]).
- *In vitro* lead bioaccessibility.
- Toxicity Characteristic Leaching Procedure (TCLP) lead.
- pH.
- Total lead (replicate samples only).

Bioaccessibility is an *in vitro* measure of the *physiological solubility* of the metal that may be available for absorption into the body (EPA, 2012). The *in vitro* bioaccessibility (IVBA) assay provides a rapid and relatively inexpensive alternative to *in vivo* assays for predicting relative bioavailability (RBA) of lead in soils and soil-like materials (EPA, 2012). The method is based

W0141.1A.00260

on the concept that lead solubilization in gastrointestinal fluid is likely to be an important determinant of lead bioavailability *in vivo* (EPA, 2012). The method measures the extent of lead solubilization in an extraction solvent that resembles gastric fluid. The fraction of lead which solubilizes in an *in vitro* system is referred to as IVBA, which may then be used as an indicator of *in vivo* RBA (EPA, 2012). Measurements of IVBA using this assay have been shown to be a reliable predictor of *in vivo* RBA of lead in a wide range of soil types and lead phases from a variety of different sites (EPA 2007). Knowledge of lead bioavailability is important because the amount of lead that actually enters the blood and body tissues from an ingested medium depends on the physical-chemical properties of the lead and of the medium (EPA, 2012).

### **3.2 JULY 2013 RESIDENTIAL PROPERTY ASSESSMENT ACTIVITIES**

In July 2013, EPA and WESTON START conducted a second field sampling event at the Assessment Area and a new field sampling event in the Harrison Park reference area. The July 2013 field sampling event was conducted in accordance with the document entitled “Field Sampling Plan for the Pilsen Area Soil Site Assessment, Revision 2, Amendment 1,” dated July 5, 2013, and with EPA’s “Superfund Lead-Contaminated Residential Sites Handbook” (EPA, 2003). The July 2013 phase of sampling included collecting samples at previously sampled residential properties within the Assessment Area at depths greater than 6 inches bgs; collecting samples at new residential locations within the Assessment Area to better delineate the impacts of aerial deposition of heavy metals from upwind industrial emitters; and collecting samples in a reference area, upwind from the H. Kramer and Fisk Station properties, for comparison purposes. Due to its proximity to the Assessment Area (0.25-1 mile) and the similarity of age of the majority of residential structures (as seen in Historical Sanborn Maps and through discussions with residence owners), EPA assumed there would be similarities in the origin of fill soil used to construct residential yards. The Harrison Park reference area was not suspected to have been impacted by H. Kramer due to the historical prevailing wind direction (**Figure 2-2**) but it is in the historical prevailing downwind direction of several historical industrial properties along the Chicago Sanitary and Ship Canal.

WESTON START collected 20 soil samples (18 investigative and two field duplicates) from 10 residential properties located within the Assessment Area and 26 soil samples (23 investigative

W0141.1A.00260

and three field duplicates) from 15 residential properties located within the Harrison Park reference area (**Table 3-1, Figure 3-1**). Several soil samples collected from the Assessment Area were from residential properties previously sampled during the May 2013 field event.

Field sampling techniques used during the July 2013 field sampling event were consistent with the May 2013 field sampling event previously described; however, two- to five-point composite samples were also collected from 6- to 12-, 12- to 18-, and 18- to 24-inch bgs depth intervals. In addition, samples were collected from either the front yard or backyard, but not both. No garden, drip zone, or replicate samples were collected.

At the previously sampled residential properties within the Assessment Area, if the soil matrix varied significantly across the 6- to 24-inch bgs interval, then the depth interval was split between matrices (6-12 and 12-24 inches bgs, or 6-18 and 18-24 inches bgs) and submitted for analytical laboratory analysis. If there were no soil matrix differences between 6 and 24 inches bgs, the entire 18 inches were composited and submitted for analytical laboratory analysis. No 0- to 6-inch bgs composite samples were submitted from the previously sampled residential properties within the Assessment Area because samples from these intervals were submitted during the May 2013 sampling event.

At residential properties not previously sampled within the Assessment Area and the Harrison Park reference area, the 0- to 6-inch bgs composite sample was submitted for analytical laboratory analysis at all locations. At approximately 30% of the locations, a sample collected below 6 inches bgs was submitted for analytical laboratory analysis based on the XRF lead concentration screening value. Soil intervals from a range of concentrations were submitted for analytical laboratory analysis in order to support EPA FIELDS in validating the data generated by the XRF in a subsequent quality assurance analysis.

Soil samples were submitted under chain of custody to STAT Analysis Corporation in Chicago, IL, for at least one of the following analyses:

- Select total metals (antimony, copper, cadmium, chromium, mercury, lead, tin, and zinc).
- Lead, fine-grained fraction (grain size < 250 µm).

W0141.1A.00260

### **3.3 AUGUST 2013 RESIDENTIAL PROPERTY ASSESSMENT ACTIVITIES**

In August 2013, EPA and WESTON START conducted a third field sampling event in the Assessment Area, a second field sampling event in the West Harrison reference area, and a new field sampling event in the Little Italy reference area. The August 2013 field sampling event was conducted in accordance with the document entitled “Field Sampling Plan for the Pilsen Area Soil Site Assessment, Revision 2, Amendment 1,” dated July 5, 2013, and EPA’s “Superfund Lead-Contaminated Residential Sites Handbook” (EPA, 2003). Data collected from this area served as a reference of soil suspected to be less impacted by industrial sources, such as H. Kramer and Fisk Station, due to an increased distance from these sources.

During the August 2013 field sampling event, WESTON START collected 19 soil samples (17 investigative and two field duplicates) from 13 residential properties located within the Assessment Area, eight soil samples (seven investigative and one field duplicate) from four residential properties located within the Harrison Park reference area, and 16 soil samples (14 investigative and two field duplicates) from 11 residential properties located within the Little Italy reference area (**Table 3-1, Figure 3-2**).

Field sampling techniques were consistent with the July 2013 field sampling event previously described. Soil samples were submitted under chain of custody to STAT Analysis Corporation in Chicago, IL, for at least one of the following analyses:

- Select total metals (antimony, copper, cadmium, chromium, mercury, lead, tin, and zinc).
- Lead, fine-grained fraction (grain size < 250 µm).

## **4. RESULTS & ANALYSIS**

### **4.1 ASSESSMENT AREA SAMPLING RESULTS**

Total metal analytical results were compared to the 2014 EPA RMLs (hazard quotient [HQ] of 3) for residential soil. Total metal results for Assessment Areas Res1, Res2, and Res3 are presented on **Tables 4-1, 4-2, and 4-3**, respectively. Surface soil sampling results (not including garden, drip zone, duplicate, or replicate samples) for cadmium, copper, lead, fine-grained lead, tin, and

W0141.1A.00260



zinc from samples collected within the Assessment Areas Res1, Res2, and Res3 are presented in **Figures 4-1, 4-2, and 4-3**, respectively. Lead was the only metal that exceeded the 2014 EPA RMLs (HQ of 3) for residential soil in the Assessment Area. A summary of results by subarea is described below.

#### **4.1.1 Assessment Area Res1 Results**

##### Total Metals

- Average Res1 surface soil total lead and fine-grained lead concentrations (0-6 inches bgs, not including garden, drip zone, duplicate, or replicate samples) were 1,545 and 1,597 mg/kg, respectively (sample size [N] = 14). These average concentrations exceed the EPA residential soil RML for lead of 400 mg/kg. Lead concentrations in surface soil samples collected in Res1 (0-6 inches bgs, not including garden and drip zone samples) ranged from 320 to 3,600 mg/kg. Fine-grained lead concentrations ranged from 600 to 2,700 mg/kg. The average zinc/lead ratio for surface soil samples collected in Res1 (not including garden, drip zone, duplicate, or replicate samples) was 2.08.
- Average Res1 subsurface soil total lead and fine grained lead concentrations (6-18, 6-21, and 18-24, inches bgs, not including garden and duplicate samples) were 1,424 and 1,740 mg/kg, respectively (N=5). These average concentrations exceed the EPA residential soil RML for lead of 400 mg/kg. Lead concentrations in subsurface soil samples collected in Res1 (6-18, 6-21, and 18-24, inches bgs, not including garden and drip zone samples) ranged from 250 to 2,500 mg/kg. Fine-grained lead concentrations ranged from 420 to 4,200 mg/kg. The average zinc/lead ratio for subsurface surface soil samples collected in Res1 (not including garden, drip zone, duplicate, or replicate samples) was 1.93.
- Average garden soil sampling results for total lead and fine grained lead were 1,359 and 1,441 mg/kg, respectively (N = 5). These average concentrations exceed the EPA residential soil RML for lead of 400 mg/kg.

W0141.1A.00260

- One drip zone sample was collected in Res1, PA-274-02(0-6)-050113. Lead and fine-grained lead concentrations detected in this sample were 2,000 and 1,700 mg/kg, respectively, which exceed the EPA residential soil RML for lead of 400 mg/kg.

#### TCLP Metals (Toxicity)

- No residential soil sample collected from the Assessment Area contained TCLP lead concentrations above the TCLP lead regulatory limit of 5.0 milligrams per liter (mg/L). Therefore, according to 40 Code of Federal Regulation (CFR) Part 261, Subpart C, 261.24 (b), no soil sample collected from the Assessment Area represents a material that meets the definition of hazardous waste by virtue of the characteristic of toxicity.

#### In Vitro Lead Bioaccessibility

- *In vitro* lead bioaccessibility ranged from 55.6 to 95.4% in the seven samples collected from the Assessment Area. These results indicate that 55.6 to 95.4% of lead in these Assessment Area soil samples can enter the blood and body tissues if ingested.

### **4.1.2 Assessment Area Res2 Results**

#### Total Metals

- Average Res2 surface soil total lead and fine grained lead concentrations (0-6 inches bgs, not including garden, drip zone, duplicate, or replicate samples) were 1,054 and 1,244 mg/kg, respectively (N = 27). These average concentrations exceed the EPA residential soil RML for lead of 400 mg/kg. Lead concentrations in surface soil samples collected in Res2 (0-6 inches bgs, not including garden and drip zone samples) ranged from 58 to 3,200 mg/kg. Fine-grained lead concentrations of in surface soil samples collected in Res2 (0-6 inches bgs, not including garden and drip zone samples) ranged from 77 to 3,500 mg/kg. The average zinc/lead ratio for surface soil samples collected in Res2 (not including garden, drip zone, duplicate, or replicate samples) was 1.29.
- Average Res2 subsurface soil total lead and fine grained lead concentrations (6-12, 6-14, 6-24, and 12-24 inches bgs, not including garden, drip zone, duplicate, or replicate

W0141.1A.00260

samples) were 660 and 723 mg/kg, respectively (N =6). These averages exceed the EPA residential soil RML for lead of 400 mg/kg. Lead concentrations in subsurface soil samples collected in Res2 (6-12, 6-14, 6-24, and 12-24 inches bgs, not including garden and drip zone samples) ranged from 140 to 1,200 mg/kg. Fine-grained lead concentrations in subsurface soil samples collected in Res2 (6-12, 6-14, 6-24, and 12-24 inches bgs, not including garden and drip zone samples) ranged from 220 to 990 mg/kg. The average zinc/lead ratio for subsurface surface soil samples collected in Res2 (not including garden, drip zone, duplicate, or replicate samples) was 0.99.

- Average garden soil sampling results for total lead and fine grained lead were 930 and 830 mg/kg, respectively (N = 9). These averages exceed the EPA residential soil RML for lead of 400 mg/kg.
- Average drip zone sampling results for total lead and fine grained lead were 1,080 and 1,433 mg/kg, respectively (N = 3). These averages exceed the EPA residential soil RML for lead of 400 mg/kg.

#### **4.1.3 Assessment Area Res3 Results**

##### Total Metals

- Average Res3 surface soil total lead and fine grained lead concentrations (0-6 inches bgs, not including garden, replicate, playground, or duplicate samples) were 648 and 747 mg/kg, respectively (N = 21). These averages exceed the EPA residential soil RML for lead of 400 mg/kg. Lead in surface soil samples collected in the Assessment Area: Res3 (0-6 inches bgs, not including garden samples) ranged from 80 to 1,700 mg/kg. Fine-grained lead ranged from 110 to 2,200 mg/kg. The average zinc/lead ratio for surface soil samples collected in Res3 (not including garden, drip zone, duplicate, or replicate samples) was 0.98.
- Average Res3 subsurface soil total lead and fine grained lead concentrations (6-15, 6-18, and 6-24 inches bgs, not including garden, replicate, or duplicate samples) were 591 and 610 mg/kg, respectively (N = 8). These averages exceed the EPA residential soil RML

W0141.1A.00260

for lead of 400 mg/kg. Lead concentrations in subsurface soil samples collected in Res3 (6-15, 6-18, and 6-24 inches bgs, not including garden samples) ranged from 140 to 1,800 mg/kg. Fine-grained lead ranged from 110 to 1,800 mg/kg. The average zinc/lead ratio for subsurface surface soil samples collected in Res2 (not including garden, drip zone, duplicate, or replicate samples) was 1.04.

- Average garden soil sampling results for total lead and fine grained lead (not including duplicate samples) were 490 and 630 mg/kg, respectively (N = 3). These averages exceed the EPA residential soil RML for lead of 400 mg/kg.
- One playground sample was collected in Res3, PA-469-05(0-6)-051013. Lead and fine-grained lead concentrations detected in this sample were 340 and 330 mg/kg, respectively, which do not exceed the EPA residential soil RML for lead of 400 mg/kg.

#### 4.1.4 Harrison Park Reference Area Results

Total metal analytical results were compared to 2014 EPA RMLs (HQ of 3) for residential soil. Lead was the only metal that exceeded the 2014 EPA RMLs (HQ of 3) for residential soil in the Harrison Park reference area. Total metal results are presented on **Table 4-4**. Non-duplicate surface soil sampling results for cadmium, copper, lead, fine-grained lead, tin, and zinc from samples collected in Harrison Park reference area are presented in **Figure 4-4**. A summary of the metal results exceeding screening levels is as follows:

- Average Harrison Park reference area surface soil total lead and fine-grained lead concentrations (0-6 inches bgs, not including duplicate samples) were 1,525 and 1,604 mg/kg, respectively (N =21). These averages exceed the EPA residential soil RML for lead of 400 mg/kg. Lead concentrations in surface soil samples collected in the Harrison Park Reference Area (0-6 inches bgs) ranged from 270 to 3,700 mg/kg. Fine-grained lead concentrations ranged from 450 to 3,600 mg/kg. The average zinc/lead ratio for surface soil samples collected in the Harrison Park reference area (not including duplicate samples) was 0.77.

W0141.1A.00260

- Average Harrison Park reference area subsurface soil lead and fine-grained lead concentrations (6-24 inches bgs, not including duplicate samples) were 1,390 and 1,620 mg/kg, respectively (N =9). These averages exceed the EPA residential soil RML for lead of 400 mg/kg. Concentrations of lead in subsurface soil samples collected in the Harrison Park reference area (6-18, 6-24, and 18-24 inches bgs) ranged from 140 to 4,300 mg/kg. Concentrations of fine-grained lead ranged from 170 to 5,500 mg/kg. The average zinc/lead ratio for subsurface surface soil samples collected in the Harrison Park reference area (not including duplicate samples) was 0.84.

#### 4.1.5 Little Italy Reference Area Results

Total metal analytical results were compared to the 2014 EPA RMLs (HQ of 3) for residential soil. Lead was the only metal that exceeded the 2014 EPA RMLs (HQ of 3) for residential soil in the Little Area reference area. Total metal results are presented on **Table 4-5**. Non-duplicate surface soil sampling results for cadmium, copper, lead, fine-grained lead, tin, and zinc from samples collected in Harrison Park reference area are presented in **Figure 4-5**. A summary of the metal results exceeding screening levels is as follows:

- Average Little Italy reference area surface soil total lead and fine-grained lead concentrations (0-6 inches bgs, not including duplicate samples) were 249 and 335 mg/kg, respectively (N = 11). These averages do not exceed the EPA residential soil RML for lead of 400 mg/kg. Concentrations of lead in surface soil samples collected in the Little Italy reference area (0-6 inches bgs) ranged from 66 to 760 mg/kg. Concentrations of fine-grained lead ranged from 66 to 1,300 mg/kg. The average zinc/lead ratio for surface soil samples collected in the Little Italy reference area (not including duplicate samples) was 1.05.
- Average Little Italy reference area subsurface soil total lead and fine-grained lead concentrations (6-18 and 6-24 inches bgs, not including duplicate samples) for total lead and fine grained lead were 431 and 650 mg/kg (N =3). These averages exceed the EPA residential soil RML for lead of 400 mg/kg. Concentrations of lead in subsurface soil samples collected the Little Italy Reference Area (6-18 and 6-24 inches bgs) ranged from 92 to 930 mg/kg. Concentrations of fine-grained lead ranged from 150 to 1,400 mg/kg. The

W0141.1A.00260

average zinc/lead ratio for subsurface surface soil samples collected in the Little Italy reference area (not including duplicate samples) was 0.99.

#### **4.2 ASSESSMENT AREA SOIL LITHOLOGY RESULTS**

Soils on properties at the Assessment Area were variable. In general, soils at the Assessment Area consisted of sandy and gravelly silts and clays. Trace fill materials, including wood chips, and pieces of brick, plastic, and metal, were occasionally observed in Assessment Area soils at various depths. At one property, ID #274, trace slag was observed in a 0-6 inch bgs composite sample. Property ID #274 is located less than 500 feet (ft) from the H. Kramer stack (**Figure 3-1**). Slag is a solid-phase waste generated by secondary lead processing (EPA, 1995). At H. Kramer, slag is produced as a result of impurities in the melted scraps, is skimmed off molten metal alloy, collected, and then shipped to customers for further recycling. The source of the observed slag could not be determined in the field.

#### **4.3 CONTAMINANT OF CONCERN**

Lead was the only metal that exceeded the 2014 EPA RMLs (HQ of 3) for residential soil in the Assessment Area. Based on these soil sample results, lead is considered to be the primary COC for the Pilsen Soils Site.

### **5. EVALUATION OF POTENTIAL SOURCES OF LEAD CONTAMINATION AT THE ASSESSMENT AREA**

The following subsections summarize WESTON START and EPA's evaluation regarding five potential industrial sources of lead that were identified above in Section 2 within or bordering the Assessment Area that may have contributed to lead contamination in residential soil in the Assessment Area.

#### **5.1 H. KRAMER & COMPANY**

H. Kramer is a 6.5-acre active secondary brass and bronze smelter located at 1345 West 21<sup>st</sup> Street, Chicago, Cook County, IL (**Figure 2-1**). H. Kramer primarily manufactures brass and bronze ingots and a portion of the facility's production capacity is devoted to lead-containing metal alloy. Brass is a copper alloy that contains zinc (5 to 45%) as the principal alloying

W0141.1A.00260

element, as well as tin, iron, aluminum, nickel, silicon, and lead. Bronze is an alloy that consists mainly of copper combined most often with tin, but sometimes with other elements, including phosphorus, manganese, aluminum, silicon, and lead. Brass and bronze ingots made by H. Kramer generally contain less than 10% lead but may contain as much as 25% lead (High Leaded Tin Bronze [70-5-25])(H. Kramer, undated).

H. Kramer receives scrap metals from many sources and in various forms, including solids, wire, borings, and grindings (Chicago Department of Environment [CDOE], 2005). H. Kramer sorts scrap metals into grades of purity and then melts them down using three different types of furnaces (gas-fired rotary furnaces, coreless electric induction furnaces, and electric induction furnaces). Slag produced as a result of impurities from the melted scraps is then skimmed off the molten metal alloy, collected, and then shipped to customers for further recycling. The molten metal alloy is then poured into ingot molds, and water is poured on the hot ingots to cool them. The cooling operation generates steam that is vented through a stack.

At H. Kramer, lead emissions are the result of the melting operation (CDOE, 2005). In general, at secondary brass and bronze smelters, as the scrap is placed into a furnace and subjected to intense heat to melt down the metal, some metal vaporizes and is emitted as particulate matter in the form of dust and oxide fumes. Constituents of the fumes include zinc, lead, tin, copper, cadmium, silicon, and carbon. As much as 98% of the particulate matter contained in furnace stack gases may be zinc oxide and lead oxide depending on the composition of the alloy (Licht, 1973).

In May 2013, H. Kramer responded to an EPA Resource Conservation and Recovery Act (RCRA) request for information regarding its zinc oxide baghouse dust. H. Kramer indicated the zinc oxide baghouse dust is collected in Super Sack containers beneath each baghouse and stored inside the Number Two Baghouse Building until sale and shipment to purchasers. H. Kramer also provided analytical laboratory results of the zinc oxide material, which indicated the following concentrations of metals: antimony (47 mg/kg); arsenic (38 mg/kg); barium (20 mg/kg); cadmium (2,200 mg/kg); chromium (150 (mg/kg); copper (17,000 mg/kg); lead (61,000

W0141.1A.00260

mg/kg); mercury (0.98 mg/kg); selenium (96 mg/kg); silver (37 mg/kg); and zinc (640,000 mg/kg).

The particle size of the zinc and other oxide fumes are in the range of 0.03 to 0.5 micrometer (µm) and requires the use of extremely efficient air pollution control equipment (U.S. Department of Health, Education, and Welfare, 1969). In 2005, emissions generated at H. Kramer from rotary furnaces 1 and 2 were controlled by Baghouses 2 and 6 (CDOE, 2005). Fugitive emissions from these furnaces were captured and routed to Baghouses 1 and 5. The emissions from the coreless furnaces were controlled by Baghouse 4. The emissions from the channel furnaces were controlled by a Venturi scrubber and a mist eliminator.

### **EPA Toxic Release Inventory System Information**

H. Kramer is listed in the EPA Toxic Release Inventory (TRI) System. TRI facilities are legally required to report to EPA and EPA has tracked both fugitive and stack emissions from H. Kramer from 1987 to 2013. Fugitive emissions are emissions that could not reasonably pass through a stack, chimney, vent, or other functionally equivalent opening, and often occur during leaks from pressurized equipment or during material transfer. In H. Kramer's case, particulate matter emissions are estimated based on the testing of the baghouse contents (Illinois Environmental Protection Agency [IEPA], 2005). Then, lead and other metal emissions are calculated as a percentage of the particulate matter emissions. These calculations are based on EPA emission factors. H. Kramer reports the TRI results to EPA. The methodology used to estimate lead emissions from H. Kramer is conservative, which means it would tend to overestimate the amount of lead emitted.

From 1987, approximately 54,366 pounds (lb) of lead, 832,567 lb of zinc, and 6,782 lb of copper were estimated and reported to have been released via fugitive and stack emissions from H. Kramer (EPA, 2013a). Emissions of tin, a component of bronze, are not required to be reported to the EPA TRI.

### **Pre-2005 H. Kramer Inspection and Violation History**

H. Kramer currently has a "Lifetime Operating Permit" from IEPA (IEPA, 2005). This lifetime

W0141.1A.00260



permit does not require renewal or reapplication unless requested by IEPA. The permit establishes hourly and annual emissions limits for particulate matter, nitrogen oxides, and carbon monoxide. IEPA also enforces opacity standards (which measure the darkness of the emissions) to capture potential short-term, heavy releases of particulate matter emissions. High opacity levels can be an indicator that the facility is having excess emissions and/or that its pollution controls are not working properly.

H. Kramer also holds installation permits and a certificate of operation from CDOE. CDOE's permitting scheme is focused on preventing environmental nuisances such as smoke, odors, and particulate emissions and ensuring equipment that creates or controls emissions is properly installed and documented.

Between 1998 and May 31, 2005, CDOE received a total of 51 complaints against H. Kramer. In this time period, CDOE conducted 126 inspections (CDOE, 2005). From 1991 to 2005, CDOE issued 14 Notice of Violations (citations) to H. Kramer. These citations were primarily for atmospheric pollution and general nuisance (Municipal Code §7-28-080, and §11-4-630). H. Kramer was found liable on 13 counts of these citations. During this time period, CDOE referred H. Kramer to the EPA twice. These citations prompted major infrastructure changes. Some notable violations outlined by CDOE (2005) include the following:

- On September 19, 1990, EPA issued a Finding of Violation to H. Kramer. EPA found that the roof vents above its rotary furnace on the west side of the facility were a source of visible particulate emissions. H. Kramer violated the opacity limits in its IEPA air permit.
- On August 27, 1996, EPA issued a Notice of Violation, alleging that H. Kramer violated the opacity limits set forth in the Illinois Pollution Control Board Regulations.

In 1997, EPA issued an order requiring H. Kramer to initiate the following initiatives:

- Implement managerial controls to reduce fugitive emissions.
- Implement institutional controls to reduce the fugitive emissions from emissions sources that are routed to Baghouse 5.
- Reconstruct Baghouse 6.
- Increase the capture efficiency of the pour hood of Rotary Furnace 2 by enlarging it and if possible, positioning it closer to the pouring area.
- Complete a survey of duct work disturbances and leaks and complete repairs.
- Develop a maintenance schedule, based on the current predictive maintenance program.

W0141.1A.00260

In 1999, CDOE identified that H. Kramer's fugitive emissions were the result of aged equipment, leaking ducts, and a leaking roof. H. Kramer addressed these fugitive emissions by replacing aged furnaces and replacing or repairing most of its roof. H. Kramer also installed a mist eliminator to control the fugitive emissions. New baghouses were also installed, and the leaking ducts were replaced or repaired.

### **Pilsen Environmental Rights & Reform Organization Surface Soil Investigation**

In March 2005, the Pilsen Environmental Rights & Reform Organization (PERRO) collected 12 surface soil samples in the Assessment Area around the vicinity of H. Kramer (Subra Company, 2005). Soil samples were analyzed by STAT Analysis Corporation, Chicago, IL. Lead was detected in soil samples collected from eight locations above the 2014 EPA RML for residential soil of 400 mg/kg. Lead concentrations ranged from 440 to 37,000 mg/kg. Copper was detected in one soil sample above the 2014 EPA residential soil RML (HQ of 3) for residential soil of 9,300 mg/kg, with a concentration of 14,000 mg/kg. Zinc was detected in one soil sample above the 2014 EPA RML (HQ of 3) for residential soil of 70,000 mg/kg, with a concentration of 100,000 mg/kg.

### **H. Kramer Enrollment in the IEPA SRP**

In June 2005, the IEPA Site Assessment Unit (SAU) identified heavy metal contamination, particularly lead, on the H. Kramer property and in the nearby vicinity. Lead concentrations in 15 of the 17 samples collected by the SAU exceeded 1,000 mg/kg. In September 2005, H. Kramer entered the IEPA SRP.

Conestoga-Rovers & Associates CRA) documented soil sampling activities conducted at H. Kramer in 2005 in its "Updated Focused Site Investigation Report" for H. Kramer (CRA, 2007). Lead concentrations in 15 surface soil (0-6 inches bgs) samples collected on the H. Kramer property averaged 3,168 mg/kg. The average zinc/lead ratio of these samples was 3.6.

Cleanup action was implemented via in situ treatment or excavation in areas where lead or cadmium exceeded the TCLP concentrations set forth in 40 CFR Part 261, Subpart C, 261.24 (b), thereby representing materials that meet the definition of hazardous waste by virtue of the

W0141.1A.00260

characteristic of toxicity. On September 7, 2005, approximately 5 to 7 cubic yards (yd<sup>3</sup>) of soil were removed from an area measuring 22 ft by 10 ft, and approximately 0.75 ft deep. The excavation area was then backfilled with clean, imported gravel. In addition, a small amount of soil located on top of the sidewalk near the northeastern corner of the H. Kramer property was removed.

In the fall of 2011, in situ stabilization of shallow soils was conducted where TCLP lead concentrations exceeded levels set forth in 40 CFR Part 261, Subpart C, 261.24 (b). A total of 2,769 yd<sup>3</sup> of impacted soils were stabilized in treatment cells with a mixture of kiln dust and phosphorus. Confirmation samples of the treated soils were collected at a rate of one sample per 250 yd<sup>3</sup>. All samples confirmed that stabilization was achieved.

In December 2011 and March 2012, H. Kramer submitted to IEPA a Remedial Action Completion Report and an Addendum to the Remedial Action Completion Report, respectively. On March 29, 2012, IEPA granted H. Kramer a No Further Remediation (NFR) Letter, signifying a release from further responsibilities pursuant to Section 58.10 of the Illinois Environmental Protection Act (415 ILCS 5/1 et seq.). Requirements outlined in the NFR included, but were not limited to, the following: (1) the remediation site should be restricted to industrial/commercial land use; (2) a safety plan should be developed to address possible worker exposure in the event that any future excavation and construction activities may occur within the contaminated soil that exists beneath the engineered barriers; (3) an asphalt barrier must remain over the contaminated soils, and must be properly maintained to inhibit inhalation and ingestion of the contaminated media; and (4) a concrete cap barrier must remain over the contaminated soils, and must be properly maintained as an engineered barrier to inhibit inhalation and ingestion of the contaminated soil.

### **Pilsen IEPA Air Monitoring Study**

In January 2010, IEPA placed an air monitoring station on the roof of Perez Elementary School to sample ambient air concentrations of lead in the area. Air samples at the Perez monitor were collected once every 6 days. In 2010, lead was detected in 11 of approximately 60 samples at concentrations above the National Ambient Air Quality Standard (NAAQS) of 0.15 microgram

W0141.1A.00260

per cubic meter ( $\mu\text{g}/\text{m}^3$ ), averaged over 3 months. IEPA installed a second air monitoring station at Juarez to the west of H. Kramer and Perez. According to IEPA, results from the second air monitoring station indicated that H. Kramer was the primary contributor to the elevated ambient air lead levels in the area. As a result, IEPA requested that the Illinois Attorney General initiate legal action against H. Kramer relative to its contribution to a violation of the lead NAAQS. EPA addressed this issue in a 2011 enforcement action (see following paragraphs).

### **National Enforcement Investigations Center Pilsen Investigations**

In March 2011, EPA Region 5 requested EPA's National Enforcement Investigations Center (NEIC) to examine particulate matter from H. Kramer and Fisk Station, and total suspended particulate (TSP) matter collected in ambient air on glass fiber filters from area air monitoring stations, to determine if material from either facility was present on the TSP filters. As previously described, in January 2010 and March 2011, IEPA began operating source-oriented TSP air monitoring stations at Perez and Juarez, respectively.

On August 21, 2011, NEIC submitted a report to EPA Region 5 entitled "Characterization of Lead-Bearing Particulate Matter," presenting analytical results of filters containing the highest and lowest concentrations of lead collected at the Perez air monitoring site from January 2010 to January 2011, as well as baghouse dust samples collected at H. Kramer (EPA NEIC, 2011). Analytical results indicated cadmium, copper, tin, and zinc were co-contaminants of the lead-bearing particulate matter collected on the TSP filters. These co-contaminants were metals used in alloys produced at H. Kramer and were also found in similar proportions in H. Kramer baghouse dust samples. Lead-bearing,  $\mu\text{m}$ -sized (1–10  $\mu\text{m}$ ) aggregates of zinc-oxide crystallites were common in ambient air in the Pilsen neighborhood on at least 6 days in 2010, and were similar to the predominant baghouse dust particles from H. Kramer. The report concluded that H. Kramer's furnaces were likely the primary source of lead-bearing, airborne particulate matter in the Pilsen neighborhood, based on the location of its facility, wind direction, and the analytical results of TSP filters and baghouse dust from its facility. However, Fisk Station could not be excluded as a possible contributing source of lead contamination at the Perez air monitoring site because particulate matter similar to coal fly ash was observed on the filters collected from Perez (for more information, refer to EPA NEIC, 2011).

W0141.1A.00260

On August 24, 2012, NEIC submitted a second report to EPA Region 5 entitled “Additional Characterization of Lead-Bearing Particulate Matter,” presenting additional analytical results of lead-bearing particulate matter on TSP filters from the Juarez and Perez air monitoring stations and in coal and fly ash collected from Fisk Station and the Midwest Generation Crawford Station (Crawford Station) coal-fired power plant, in addition to any contribution from H. Kramer. In total, nine TSP filter samples collected at the Juarez air monitoring station and 32 TSP filter samples collected at the Perez air monitoring station were selected for analysis, along with baghouse dust samples from H. Kramer and coal and fly ash samples from both the Fisk and Crawford Stations. Relative elemental abundances were determined by laser ablation-inductively coupled plasma-mass spectrometry (LA-ICP-MS). Coal and fly ash from Crawford Station and TSP filters collected at Perez and Juarez air monitoring stations were analyzed by scanning electron microscopy with energy dispersive spectrometry (SEM/EDS) to characterize individual particles for elemental composition, morphology, and size. Analytical results of TSP filters were compared against each other and with facility sample results. The three main findings from these analyses are summarized as follows:

- 1) H. Kramer was indicated as the major contributor of airborne lead-bearing particulate matter in the Pilsen neighborhood, both during and outside the NAAQS exceedance period of October 2010 to February 2011.
- 2) Spherical Calcium-Aluminum-Silicon-oxide particles and correlations of rare earth elements on TSP filters collected at Perez and Juarez were consistent with coal fly ash. Fisk Station was the coal-generated power plant located closest to the air monitoring sites. The next closest power plant, Crawford Station, was approximately seven times farther away. No other likely sources of spherical Calcium-Aluminum-Silicon-oxide particles were identified in the surrounding area. Furthermore, spherical Ca-Al-Si-oxide particles were the most common on TSP filters collected during the 24-hour collection periods when the predominant wind direction put Fisk Station upwind of the collection site.
- 3) Fisk Station contributed insignificant quantities of lead-bearing particulate matter relative to H. Kramer during (and outside) the NAAQS exceedance period of October 2010 to February 2011.

For details supporting these conclusions, refer to EPA NEIC (2012).

In 2013, NEIC submitted five H. Kramer baghouse samples collected by the EPA Air and Radiation Division to STAT Analysis Corporation in Chicago, IL. Baghouse samples were

W0141.1A.00260

analyzed for total metals. These results are presented on **Table 5-1** and are summarized as follows:

- Antimony was detected in concentrations ranging from 49 to 180 mg/kg.
- Cadmium was detected in concentrations ranging from 500 to 1,500 mg/kg.
- Chromium was detected in concentrations ranging from 44 to 92 mg/kg. Chromium was not detected in baghouse sample BH-5 N105006-07 Split B above the reporting limit of 18 mg/kg.
- Copper detections ranged from 12,000 to 62,000 mg/kg. Copper was not detected in baghouse sample BH-5 N105006-07 Split B above the reporting limit of 4,400 mg/kg.
- Lead was detected in concentrations ranging from 12,000 to 51,000 mg/kg.
- Mercury was detected in concentrations ranging from 0.52 to 5.2 mg/kg.
- Tin was detected in concentrations ranging from 5,100 to 11,000 mg/kg.
- Zinc was detected in concentrations ranging from 400,000 to 650,000 mg/kg.
- The mean zinc/lead ratio was 22.85.

#### **H. Kramer 2011 Litigation and Emission Control Implementation**

In 2011, the United States brought three claims against H. Kramer. First, the U.S. alleged that H. Kramer violated the Illinois State Implementation Plan by causing or allowing the emission of lead into the air to cause air pollution and/or to prevent the attainment or maintenance of the revised NAAQS for lead. Second, the U.S. alleged that H. Kramer failed to maintain and operate the rotary furnaces at the facility in a manner consistent with good air pollution control practice, as required by the Standards of Performance for New Stationary Sources. Third, the U.S. alleged that H. Kramer failed to operate and maintain all furnace melting operations in a manner consistent with good air pollution control practices as required by the National Emissions Standards for Hazardous Air Pollutants.

Negotiations between EPA, IEPA, the Attorney General's Office, Department of Justice (DOJ), and H. Kramer resulted in an Agreed Preliminary Injunction Order being filed in state court on September 2, 2011. Pursuant to the order, H. Kramer made significant repairs to the facility, including pollution control upgrades, cleanup, and paving of the facility's yard, and reduction in the production of two lead alloys. A final Consent Decree was filed in federal court and executed

W0141.1A.00260

on March 28, 2013. More specifically, the decree required installation and operation of two new baghouses to better control emissions from the rotary furnaces located in the south foundry building. A construction permit was issued in January 2012 for H. Kramer to install the two new baghouses.

**EPA Fields Team Statistical Analysis of Cadmium, Copper, Lead, Tin and Zinc Found Soil at and near the H. Kramer facility**

EPA FIELDS conducted four statistical analyses to investigate the similarities and differences between concentrations of cadmium, copper, lead, tin, and zinc in soil from residential properties in the Assessment Area, on and adjacent to the H. Kramer property, the Little Italy and West Harrison References Areas, and the City of Chicago background (**Appendix B**). EPA FIELDS used surface soil data collected by WESTON START and EPA to represent soil from the Assessment Area, the Little Italy and West Harrison References Areas, and the immediate vicinity of H. Kramer. Additional data used in the EPA FIELDS analyses included surface soil data collected from the H. Kramer property and the United States Geological Survey (USGS) City of Chicago background dataset (USGS, 2003). The on-site H. Kramer data were obtained from CRA's "Updated Focused Site Investigation Report" (CRA, 2007). The City of Chicago background dataset was obtained from a USGS report titled "Concentrations of Polynuclear Aromatic Hydrocarbons and Inorganic Constituents in Ambient Surface Soils, Chicago, Illinois." In June 2001 and January 2002, the USGS, in cooperation with CDOE, collected soil samples from 57 areas near residential, commercial, and industrial land use areas to assess the concentration of metals and polynuclear aromatic hydrocarbons (PAHs) in ambient surface soils within the City of Chicago. Ambient soils were defined as those soils whose chemical composition is affected by ubiquitous natural and anthropogenic processes rather than the site-specific disposal of waste materials. Soil samples were collected from the upper 6 inches of the soil horizon (from 0 to 6 inches in an undisturbed soil horizon or from the upper 6 inches of a soil horizon where it may be covered by gravel) using a dedicated stainless steel spoon or trowel.

The WESTON and EPA dataset was split into seven groups based on geographical location: Railroad, Alley, Res1, Res2, Res3, Little Italy, and West (Harrison Park). The Railroad and Alley data groups correspond to surface soil data from the railroad spur and alley adjacent to H.

W0141.1A.00260

Kramer collected by WESTON START and EPA in December 2012 and May 2014. The Res1, Res2, and Res3 data groups correspond to surface soil data collected from the Assessment Area Res1, Res2, and Res3 subareas. The Little Italy and West data groups correspond to surface soil data from the Little Italy and West Harrison reference areas, respectively, collected by WESTON START and EPA in July and August 2014. Figure 1 in **Appendix B** presents the sampling locations from each of the WESTON START and EPA surface soil data groups as well as the on-site H. Kramer data from CRA discussed above. Only the samples collected from the 0- to 6-inch bgs interval were used in these analyses. Samples collected in gardens and drip zones were not used due to the potential for garden soils to be amended, mixed, and/or imported, and the potential for drip zone soils to contain lead from lead-based paint. In addition, no duplicate or replicate samples were used from any dataset.

#### Basic Statistics

EPA FIELDS calculated the mean, median, and standard deviation of each of the five metals in Res1, Res2, and Res3. Mean and median zinc, lead, copper, tin, and cadmium concentrations were highest in Res1, second highest in Res2, and the lowest in Res3, showing the concentrations of these metals declines with increased distance in the predominantly downwind direction from H. Kramer. Mean antimony concentrations were slightly higher in Res1 than in Res2 and Res3, but median antimony concentrations were slightly less in Res1 than in Res2 and Res3. It should be noted that a test for statistical significance was not conducted as part of these basic statistics. See Figure 4 in **Appendix B** for the full basic statistics output.

#### Multiple Comparisons

EPA FIELDS used SAS<sup>®</sup> statistical software to compare cadmium, copper, lead, and zinc analytical laboratory concentrations between the nine datasets (Railroad, Alley, Res1, Res2, Res3, Little Italy, West, USGS [2003], and H. Kramer On-Site [CRA, 2007]) through a statistical procedure called an analysis of variance (ANOVA). Tin was not analyzed in these comparisons because the on-site H. Kramer data (CRA, 2007) did not contain concentration values for tin. EPA FIELDS performed non-parametric ANOVA analyses using ranked data because metal concentrations were not normally distributed (as shown by the Shapiro-Wilk test for normality).

W0141.1A.00260



ANOVA analyses were performed to test the null hypothesis that the mean cadmium, copper, lead, or zinc concentration was not statistically different between each dataset. If the hypothesis was rejected through the ANOVA analysis (i.e., if a mean concentration of a certain metal was statistically different between all the datasets), a multiple comparison procedure called a Least Squares Means Tukey-Kramer Multiple Comparisons test was performed to determine which datasets were different. The Least Squares Means Tukey-Kramer Multiple Comparisons test was selected because it accommodates unequal sample sizes and is the most robust test for pair-wise comparisons.

There was a significant difference between the nine datasets for all metals ( $p < 0.05$ ). A visual representation of the multiple comparisons for each metal is presented in Figure 6 in **Appendix B**. Key findings from the ANOVA and Least Squares Means Tukey-Kramer Multiple Comparisons tests include the following:

#### *Cadmium*

- There was no significant difference between the mean of ranked cadmium values in the Railroad, Alley, Res1, and West datasets.
- There was no significant difference between the mean of ranked cadmium values in the Alley, Res1, West, H. Kramer On-Site (CRA, 2007), and Res2 datasets.
- The mean of ranked cadmium values in the Railroad, Alley, Res1, and West datasets was significantly higher than the USGS (2003), Res3, and Little Italy datasets.

#### *Copper*

- There was no significant difference between the mean of ranked copper values in the Railroad, Alley, H. Kramer On-Site (CRA, 2007), and Res1 datasets.
- The mean of ranked copper values in the Railroad, Alley, H. Kramer On-Site (CRA, 2007), Res1, Res2, and West datasets was significantly higher than the Res3, USGS (2003), and Little Italy datasets.

#### *Lead*

- There was no significant difference between the mean of ranked lead values in the Railroad, Alley, West, Res1, H. Kramer On-Site (CRA, 2007), and Res2 datasets.

W0141.1A.00260

- The mean of ranked lead values in the Railroad, Alley, West, Res1, H. Kramer On-Site (CRA, 2007), and Res2 datasets was significantly higher than the USGS (2003), and Little Italy datasets.

### *Zinc*

- There was no significant difference between the mean of ranked zinc values in the Railroad, Alley, Res1, and H. Kramer On-Site (CRA, 2007) datasets.
- The mean of ranked zinc values in the Railroad, Alley, Res1, H. Kramer On-Site (CRA, 2007), Res2, and West datasets was significantly higher than the Res3, USGS (2003), and Little Italy datasets.

### **Confidence Limits**

EPA FIELDS used SAS<sup>®</sup> statistical software to calculate 95% confidence limits for the median ratio of zinc/lead in the nine datasets (Railroad, Alley, Res1, Res2, Res3, Little Italy, West, USGS [2003], and H. Kramer on-site [CRA, 2007]). A 95% confidence limit “means that if you took repeated random samples from a population and calculated the mean [or median] and confidence limits for each sample, the confidence interval for 95% of your samples would include the parametric mean [or median]” (McDonald, 2009). Zinc was hypothesized to have been deposited in higher quantities relative to lead within the southwest region of the Assessment Area because: (1) H. Kramer has released an estimated and reported 832,567 lb of zinc via fugitive and stack emissions since 1987 (EPA, 2013a); (2) five samples of H. Kramer’s zinc oxide dust contained an average of 640,000 mg/kg zinc and a zinc/lead ratio of 22.85 (see **Table 2-1**); and (3) the average zinc/lead ratio of surface soil samples collected on H. Kramer property was 3.6 (CRA, 2007), which is more than double the City of Chicago background of 1.66 (USGS, 2003).

The 95% confidence limits for the median zinc/lead ratios for the soils on and adjacent to the H. Kramer property (H. Kramer On-Site [CRA, 2007]), Alley, Railroad, and Res1) overlap and are therefore not significantly different (see Figure 7 in **Appendix B**). The 95% confidence intervals of datasets corresponding to areas not adjacent to H. Kramer (Res2, Res3, Little Italy, and USGS [2003]) do not overlap with H. Kramer on-site [CRA, 2007]), Alley, and Railroad, but do overlap with Res1, suggesting a diminishing zinc/lead ratio in surface soils with increasing distance from H. Kramer. The 95% confidence interval on the median zinc/lead ratio for the West dataset was

W0141.1A.00260

the lowest and only overlapped with Res3 and Little Italy. This low 95% confidence interval may be attributed to high lead concentrations relative to zinc levels observed in the West dataset, potentially derived from lead emitters upwind (southwest) of H. Kramer.

### **Regression with Distance**

EPA FIELDS used SAS<sup>®</sup> statistical software to create simple linear regression models to predict concentrations of cadmium, copper, lead, tin, and zinc as a function of distance from the H. Kramer property. The formula of a simple linear regression is:  $y = bx + a$ . The "y" is the dependent variable, or the value the model predicts (cadmium, copper, lead, tin, and zinc concentrations); "b" is the slope of the regression equation; "x" is the value of the independent variable (distance from the H. Kramer property); and "a" is the y-intercept. A simple linear regression equation describes the relationship between the dependent variable (y) and the independent variable (x).

The EPA FIELDS regression analysis also included a statistical test to compute a probability called a p-value for the coefficient associated with the independent variable. The null hypothesis of each regression analysis is that the value of the coefficient associated with the independent variable, the slope, is not significantly different from zero. In other words, the distance from the H. Kramer property does not contribute to explaining the variability of the dependent variable (cadmium, copper, lead, tin, or zinc concentrations). Small p-values reflect small probabilities, and suggest that the independent variable (distance from the H. Kramer property) is indeed important to the model, and whose coefficient has a value significantly different from zero. The null hypothesis is rejected when the p-value is less than 0.05. Such a result indicates that the observed result would be highly unlikely (< 5% chance) under the null hypothesis.

EPA FIELDS also calculated a coefficient of determination (denoted by  $R^2$ ) for each regression. The coefficient of determination is the proportion of the variance in the dependent variable (cadmium, copper, lead, tin, and zinc concentrations) that is explained by the regression model. Note that the  $R^2$  value does not indicate whether a regression model is adequate as numerous variables in addition to distance from the H. Kramer property are expected to explain cadmium, copper, lead, tin, or zinc concentrations, including soil lithology and proximity to other

W0141.1A.00260

contaminant sources.

For each contaminant, EPA performed regression diagnostics to check for the following violations of regression assumptions:

- No extreme residuals.
- Residuals are normally distributed.
- Residuals are homoscedastic.

Residuals are defined as the difference between the observed value of the dependent variable ( $y$ ) and the predicted value ( $\hat{y}$ ). Each data point has one residual and both the sum and the mean of the residuals are equal to zero. Residual values are considered extreme if they had a studentized residual value greater than 2.5. A studentized residual is the quotient resulting from the division of a residual by an estimate of its standard deviation. After developing a regression model with a full dataset, EPA FIELDS removed any values with a studentized residual value greater than 2.5, and then developed a new regression model with the new dataset. Using this technique, all extreme residuals were removed in the formulation of the regression models. The normality of the residuals was tested using the Shapiro-Wilk test with the null hypothesis that the residuals are from a normal distribution. Normal distribution can be defined as a range of values with most observations in the middle, or a bell-shaped curve showing a symmetrical distribution about the mean. The homoscedasticity of the residuals was tested using the White test with the null hypothesis that the residuals are homoscedastic. Homoscedasticity can be defined as the property of having equal statistical variances.

EPA FIELDS first developed regressions models using untransformed data, and then used natural log transformations to help meet the assumptions of the regressions. The regression of concentrations of each metal with distance from H. Kramer was statistically significant, meaning that metal concentrations significantly decreased with increasing distance from H. Kramer. See Figures 8 through 12 in **Appendix B** for graphical and statistical outputs. A summary of the simple linear regression models is presented as follows:

- Cadmium:  $\text{LN}(\text{Cd concentration}) = (-0.55)(\text{LN}[\text{distance from H. Kramer}]) + 5.47$  ( $p < 0.0001$ ).
- Copper:  $\text{LN}(\text{Cu concentration}) = (-1.01)(\text{LN}[\text{distance from H. Kramer}]) + 12.55$  ( $p < 0.0001$ ).
- Lead:  $\text{LN}(\text{Pb concentration}) = (-0.49)(\text{LN}[\text{distance from H. Kramer}]) + 10.31$  ( $p < 0.0001$ ).

W0141.1A.00260

- Tin:  $\text{LN}(\text{Sn concentration}) = (-0.67)(\text{LN}[\text{distance from H. Kramer}]) + 8.42$  ( $p < 0.0001$ ).
- Zinc:  $\text{LN}(\text{Zn concentration}) = (-0.86)(\text{LN}[\text{distance from H. Kramer}]) + 13.2$  ( $p < 0.0001$ ).

The slope for each of these regression equations was negative, indicating a decrease in metal concentrations with distance from H. Kramer. Because these metal concentrations do not increase with distance from H. Kramer and toward other potential sources, such as NL (located 0.65 mile northeast of H. Kramer) and Loewenthal (located 0.5 mile east-northeast of H. Kramer), these other sources may not have contributed as significantly to cadmium, copper, lead, tin, and zinc concentrations in residential soil as H. Kramer.

Overall, the EPA Fields Team Statistical Analysis of Cadmium, Copper, Lead, Tin, and Zinc found at and near the H. Kramer facility indicates that H. Kramer is a significant contributor for elevated lead in residential surface soil in the RR/Alley, Res1 and Res2. However, the analyses could not conclude that there was lead contribution from H. Kramer in residential surface soils in Res3. Furthermore, Res3 surface soil lead concentrations indicate contributions from other industrial sources. Finally, the analysis indicated no apparent lead contribution in surface soil, from H. Kramer, in Harrison Park.

## **5.2 LOEWENTHAL METALS CORPORATION**

The Loewenthal property is located adjacent to the southeast region of the Assessment Area, within Res3, at 947 West Cullerton Street in Chicago, IL (**Figure 2-1**). Loewenthal is located 1,250 feet in the predominantly downwind direction from the western boundary of Res2. In the *1940 Standard Metal Directory*, Loewenthal is listed as an aluminum, antimonial lead, and zinc smelter as well as a babbitt metal and solder manufacturer, and an ingot metal and scrap metal dealer. Loewenthal is also listed in the *1948-49 Standard Metal Directory* as an aluminum and battery lead smelter, scrap iron and metal dealer, and importer and exporter of scrap metal. The exact date when the smelter ceased operations is unknown.

In November 2012, EPA, EPA FIELDS, and WESTON START conducted a removal assessment at the Loewenthal property (WESTON, 2013). Lead was detected above the 2014 EPA RML for industrial soil of 800 mg/kg in 17 of 20 total soil samples collected at various depths (0-6, 0-10, 6-16, 12-23, and 24-36 inches bgs) at 11 sampling locations on the

W0141.1A.00260

Loewenthal property. The mean and median zinc/lead ratio (duplicate samples excluded) of these soil samples was 2.83 and 1.24, respectively. From June 2013 to September 2013, EPA conducted and completed a removal action at the Loewenthal property.

In June 2013, BNSF collected seven surface soil samples (0-1 ft bgs) along a BNSF railroad right-of-way 99 to 330 ft south of the Loewenthal property, which is in the predominantly crosswind direction of Loewenthal. WESTON START split the samples with BNSF and had the samples analyzed for total metals by STAT Analysis Corporation in Chicago, IL. All seven samples contained lead above the 2014 EPA RML for residential soil of 400 mg/kg. Six of seven samples contained lead above the 2014 EPA RML for industrial soil of 800 mg/kg. The average zinc/lead ratio (no duplicates collected) of these soil samples was 1.27, which is less than the City of Chicago background of 1.66 (USGS, 2003), and the average for surface soil samples collected in Res1 and Res2 of 2.08 and 1.29, respectively.

WESTON START collected two surface soil samples at residential properties within 0.15 mile of the Loewenthal property: PA-465-01(0-6)-051913 and PA-508-01(0-6)-081513 (**Figure 3-1**). These samples were collected in the predominantly crosswind direction of Loewenthal. Total lead concentrations of these three samples were 370 and 580 mg/kg, respectively. The average zinc/lead ratio of these three samples was 0.81, which is less than the City of Chicago background of 1.66 (USGS, 2003), and the average for surface soil samples collected in Res1 and Res2 of 2.08 and 1.29, respectively.

Loewenthal is not suspected to be the primary contributor to elevated lead contamination in surface soils in Res1 and Res2 based on the aforementioned zinc/lead ratio analysis and Loewenthal's location of at least 1,250 feet in the predominantly downwind direction from the western boundary of Res2. However, a statistical analysis focusing on Loewenthal or an NEIC study of source samples from Loewenthal were not conducted. Therefore, based on the information available, Loewenthal cannot be ruled out as a contributor to lead contamination in surface soils in the Res1, Res2, and Res3 residential areas at this time.

W0141.1A.00260

### **5.3 NATIONAL LEAD/SOUTHERN WHITE LEAD WORKS**

The NL property is located adjacent to the northeast boundary of Res3 at 900 West 18<sup>th</sup> Street, Chicago, IL (Figure 2-1). NL is located approximately 1,800 feet northeast (predominately downwind direction) of the Res2. Historical operations at the NL property included white lead paint manufacturing, casting; and secondary lead, tin, babbitt, and solder smelting. NL operated at this location from 1891 to approximately 1981.

In 2000 and 2001, Pioneer Environmental, Inc. (Pioneer) conducted a focused site investigation to fully characterize recognized environmental conditions (REC) previously identified at the NL property (Pioneer, 2001). Pioneer advanced 67 soil borings at specific locations throughout the NL property. Total metals were analyzed in 38 samples collected from these borings. Based on the sampling results, Pioneer identified lead as a COC because numerous samples were above the IEPA's Tier I Soil Remediation Objective (SRO) for lead of 400 mg/kg. On September 4, 2001, the NL property was enrolled into the IEPA Site Remediation Program (SRP) and underwent cleanup activities, including the excavation and off-site disposal of 2,130 tons of soil from four impacted areas where the levels of lead were greater than the RCRA TCLP concentration set forth in Title 40 of the CFR Part 261, Subpart C, 261.24 (b), thereby representing a material that meets the definition of hazardous waste by virtue of the characteristic of toxicity (Pioneer, 2002). Cleanup action also included the use of existing and newly constructed impervious surfaces as an engineered barrier to eliminate the ingestion exposure route for COCs detected above the IEPA Tier 1 SROs (including lead). The NL property was issued an NFR letter by IEPA on September 16, 2002 (IEPA, 2002).

During an inspection of the NL Property in November 2007, IEPA found that the engineered barrier had been removed and that there were on-site piles of excavated soil and gravel (IEPA, 2007). The 2007 IEPA inspection report stated that the NL property was in non-compliance with the September 2002 NFR because the engineered barriers were removed and multiple piles of soil and coarse aggregate were staged on-site. IEPA also indicated that the current owner of the NL property had re-enrolled in the IEPA SRP and had plans for redevelopment.

W0141.1A.00260

WESTON START collected three surface soil samples within 0.15 mile of the NL property: PA-495-01(0-6)-081313, PA-499-01(0-6)-081413, and PA-504-01(0-6)-081513 (**Figure 3-1**). These samples were collected in the predominantly upwind direction of NL. Total lead concentrations of these three samples were 930; 1,200; and 390 mg/kg; respectively. The zinc/lead ratios of these three samples were 0.46, 0.42, and 0.62, respectively, which is less than the City of Chicago background of 1.66 (USGS, 2003), and the average for surface soil samples collected in Res1 and Res2 of 2.08 and 1.29, respectively. These soil samples in Res3 do not appear to have been impacted by zinc deposition beyond what is typical City of Chicago background.

NL is not suspected to be the primary contributor to elevated lead contamination in surface soils in Res1 and Res2 based on the aforementioned zinc/lead ratio analysis and NL's location of at least 1,800 feet in the predominantly downwind direction from the northwestern boundary of Res2. However, a statistical analysis focusing on NL or an NEIC study of source samples from NL were not conducted. Therefore, based on the information available, NL cannot be ruled out as a contributor to lead contamination in surface soils in the Res1, Res2, and Res3 residential areas at this time.

#### **5.4 CENTURY SMELTING & REFINING**

The Century property is located south of the Assessment Area at 2135 South Loomis Street, Chicago, IL (**Figure 2-1**). Century is located approximately 400 feet south (predominately upwind direction) of Res1. Century operated from approximately 1940 to about 1960. The Century property is situated in the location of the present-day H. Kramer southwest parking lot, and H. Kramer is the present owner of the Century property (IEPA, 2007; Cook County Recorder of Deeds, 2014). Century was a babbitt and solder manufacturer, and a scrap iron and metal dealer from sometime before 1940 to sometime between 1950 and 1963.

In 2007, IEPA conducted a Pre-CERCLIS Screening (PCS) investigation of the Century property. IEPA reviewed historical Sanborn Fire Insurance maps from the years 1914, 1950, and 1975. IEPA found that in 1914, 2135 South Loomis Street was occupied by a vacant building. In 1950, a building was present at 2135 South Loomis Street identified by the historical Sanborn Fire Insurance maps as "Soft Metal Smelting." In 1975, no buildings were present at 2135 South

W0141.1A.00260



Loomis Street. Based on the size of the property IEPA concluded that Century was relatively small-scale operation (IEPA, 2007). IEPA also reviewed three editions of the Standard Metal Directory (1940, 1948-1949, and approximately 1963-1964). IEPA found that the Century Smelting & Refining Co. is referenced at the 2135 South Loomis Street address in the 1940 edition as a Babbitt & Solder Manufacturer and a Scrap Iron & Metal Dealer specializing in scrap metal (Standard Metal Directory, 1940). Century Smelting & Refining Co. is listed again in the 1948 edition as a Babbitt & Solder Manufacturer, and as a Scrap Iron & Metal Dealer (Standard Metal Directory, 1948-1949). There is no mention of the Century Smelting & Refining Co. in the 1963-1964 edition.

In 2005 and 2006, CRA conducted a focused site investigation at the H. Kramer property, which included Century on behalf of H. Kramer (CRA, 2007). During this investigation, four soil borings were installed to a depth of approximately 8 ft bgs on the Century property. Ten soil samples were collected from the four soil borings and were analyzed for total lead and TCLP lead. Samples from three of the four boring locations were below the 2014 EPA RML for residential soil and the IEPA Tier I SRO for lead of 400 mg/kg. However, two soil samples collected from the boring location closest to the H. Kramer facility, at depths of 0.3-0.6 ft bgs and 2.5-3.0 ft bgs, contained total lead concentrations of 8,590 mg/kg and 2,140 mg/kg, respectively. In its PCS investigation, IEPA concluded that it was unclear whether the lead contamination identified on the Century property was a result of Century's operations or another source because the only soil boring location with lead above 400 mg/kg was closest to the H. Kramer property, whereon the CRA 2005-2006 investigation also identified elevated lead concentrations (IEPA, 2007).

Antimony is suspected to be a metal unique to Century's historical emissions because antimony is component in babbitt and solder (Tomlinson and Bryan, 1986; ASTM International, 2014). Babbitt metals were shown by ASTM International (2014) to contain up to 16% antimony and 79.4 % lead. Lead contamination in soil from antimonial lead sources will indicate a higher concentration of antimony relative to non-antimonial sources. Antimony, however, was not detected at considerably higher concentrations in surface soil at residential properties in the Assessment Area within the closest proximity to the H. Kramer (see Figure 4 in **Appendix B**).

W0141.1A.00260

Specifically, in Res1, the mean and median antimony concentration in surface soil samples (0-6 inches bgs, not including garden, drip zone, or duplicate samples) was 11 and 3 mg/kg, respectively (N = 14). In Res2, the mean and median antimony concentration in surface soil samples was 4 and 5 mg/kg, respectively (N = 27). In Res3, the mean and median antimony concentration in surface soil samples was 5 and 5 mg/kg, respectively (N = 21).

Century is not suspected to be the primary contributor to elevated lead contamination in surface soils in Res1, Res2, and Res3 based on the aforementioned antimony and IEPA findings. However, a statistical analysis which focuses on Century or an NEIC study of source samples from Century were not conducted. Therefore, based on the information available and its proximity to the Assessment Area, EPA cannot rule out Century as a contributor to lead contamination in surface soils in the Res1, Res2, and Res3 residential areas at this time.

## **5.5 MIDWEST GENERATION FISK STATION**

The Fisk Station property is a 66-acre, former coal-fired power plant located at 1111 West Cermak Road (**Figure 2-1**). The plant ceased electricity generation operations in August 2012. Fisk Station is listed in the EPA TRI System. From 1998 to 2012, approximately 1,197 lb of lead, 236 lb of zinc, 373 lb of copper, and 805 lb of mercury are estimated and reported to have been released via fugitive and stack emissions from Fisk Station (EPA, 2013b). As a result, mercury is suspected to be a metal unique to Fisk's historical emissions and would potentially be collocated with elevated lead contamination if the Assessment Area had been impacted Fisk Station emissions deposition. However, mercury was not detected above the 2014 EPA residential RML (HQ of 3) of 28 mg/kg in any sample collected from the Assessment Area. In fact, mercury was not detected above 3 mg/kg in any sample collected from the Assessment Area and the average mercury concentration of all surface soil samples (0-6 inches bgs, not including garden, drip zone, or duplicate, samples) was 0.65 mg/kg. This mean concentration is only slightly higher than the mean mercury concentration observed in the USGS (2003) City of Chicago background investigation of 0.6 mg/kg. This may suggest that the residential properties within the Assessment Area have not been as heavily impacted by Fisk Station emissions.

Fisk Station is not suspected to be the primary contributor to lead contamination in surface soils

W0141.1A.00260

in the Res1 and Res2 residential areas because (1) the 2011 and 2012 NEIC investigations concluded that Fisk Station contributed insignificant quantities of lead-bearing particulate matter relative to H. Kramer during (and outside) the NAAQS exceedance period of October 2010 to February 2011, and (2) mercury, which was estimated and reported to have been released in similar quantities as lead from 1998 to 2012 (EPA, 2013b), was detected in Assessment Area soils only slightly above the USGS (2003) City of Chicago background.

## **6. DEFINITION OF PILSEN SOIL SITE RESIDENTIAL AREA SITE BOUNDARY**

For the purposes of 40 CFR Part 300, Subpart E, a boundary that encompasses the appropriate extent of response authorized by CERCLA was determined. A removal site evaluation was conducted in an approximately 164-acre residential, commercial, and industrial area of the Pilsen neighborhood of the City of Chicago, Cook County, IL (**Figure 1-1**). The objective of the removal site evaluation was to determine the nature and extent of heavy metal contamination in soil from present and historical sources of heavy metal air emissions on the Assessment Area and to evaluate potential contributing industrial sources. Based on the evaluation of soil data collected in the Assessment and Reference Areas, the Res1 and Res2 portions of the Assessment Area where lead concentrations in soil were above the EPA residential soil RMLs, and where elevated lead is at least partially attributable to a release from the H. Kramer facility, is designated as the “Pilsen Soil Site Residential Area” (the Site). The Res3 portion of the Assessment Area is not included in the Site because the EPA FIELDS statistical analyses could not conclude that there was lead contribution from H. Kramer in residential surface soils in this area. Furthermore, Res3 surface soil lead concentrations indicate contributions from other industrial sources.

## **7. SUMMARY AND CONCLUSIONS**

The objective of the removal site evaluation was to determine the nature and extent of heavy metal contamination in soil from present and historical sources of heavy metal air emissions on the Assessment Area and to evaluate potential contributing sources. The Assessment Area is approximately 164 acres in a residential, commercial, and industrial area of the Pilsen

W0141.1A.00260

neighborhood of the City of Chicago, IL (**Figure 1-1**). Two City of Chicago parks, Dvorak Park and Throop Park, and one school, Perez, are located in the Assessment Area. A second school, Juarez, is located adjacent to the Assessment Area to the west. The Assessment Area was split into three subareas: Res1, Res2, and Res3 (**Figure 2-1**).

In May, July, and August 2013, EPA and WESTON START conducted field sampling events at three study areas: the Assessment Area, Harrison Park reference area, and Little Italy reference area. Each area consisted of individual residential properties whose owners had voluntarily given EPA access to collect soil samples.

Soils encountered at the Assessment Area generally consisted of sandy and gravelly silts and clays. Trace fill materials, including wood chips, and pieces of brick, plastic, and metal, were occasionally observed. At one property, ID #274, (located in Res1) trace slag was observed in a 0-6 inch bgs composite sample. Property ID #274 is located less than 500 ft from the H. Kramer stack (**Figure 3-1**). At H. Kramer, slag is produced as a result of impurities in the melted scraps, is skimmed off molten metal alloy, collected, and then shipped to customers for further recycling. The source of the observed slag could not be determined in the field.

Total metal analytical results were compared to the 2014 EPA RMLs (HQ of 3) for residential soil. Lead was the only metal that exceeded the 2014 EPA RMLs (HQ of 3) for residential soil in the Assessment Area. Based on these soil sample results, lead is considered to be the primary COC for the Pilsen Soils Site. A summary of results by subarea is as follows:

- Average Res1 surface soil total lead and fine-grained lead concentrations (0-6 inches bgs, not including garden, drip zone, duplicate, or replicate samples) were 1,545 and 1,597 mg/kg, respectively (N=14). Average Res1 subsurface soil total lead and fine grained lead concentrations (6-18, 6-21, and 18-24, inches bgs, not including garden and duplicate samples) were 1,424 and 1,740 mg/kg, respectively (N=5). These average concentrations exceed the 2014 EPA residential soil RML for lead of 400 mg/kg. The average zinc/lead ratios for these Res1 surface and subsurface soil samples were 2.08 and 1.93, respectively. *In vitro* lead bioaccessibility ranged from 55.6 to 95.4% in seven

W0141.1A.00260

samples collected in Res1. These results indicate that 55.6 to 95.4% of lead in these Assessment Area soil samples is able to enter the blood and body tissues if ingested.

- Average Res2 surface soil total lead and fine grained lead concentrations (0-6 inches bgs, not including garden, drip zone, duplicate, or replicate samples) were 1,054 and 1,244 mg/kg, respectively (N=27). Average Res2 subsurface soil total lead and fine grained lead concentrations (6-12, 6-14, 6-24, and 12-24 inches bgs, not including garden or duplicate samples) were 660 and 723 mg/kg, respectively (N=6). These average concentrations exceed the 2014 EPA residential soil RML for lead of 400 mg/kg. The average zinc/lead ratios for these Res2 surface and subsurface soil samples were 1.29 and 0.99, respectively.
- Average Res3 surface soil total lead and fine grained lead concentrations (0-6 inches bgs, not including garden, replicate, playground, or duplicate samples) were 648 and 747 mg/kg, respectively (N=21). Average Res3 subsurface soil total lead and fine grained lead concentrations (6-15, 6-18, and 6-24 inches bgs, not including garden or duplicate samples) were 591 and 610 mg/kg, respectively (N=8). These average concentrations exceed the 2014 EPA residential soil RML for lead of 400 mg/kg. The average zinc/lead ratios for these Res3 surface and subsurface soil samples were 0.98 and 1.04, respectively.
- Average Harrison Park reference area surface soil total lead and fine-grained lead concentrations (0-6 inches bgs, not including duplicate samples) were 1,525 and 1,604 mg/kg, respectively (N=21). The average zinc/lead ratio for these Harrison Park reference area surface soil samples was 0.77.
- Average Little Italy reference area surface soil total lead and fine-grained lead concentrations (0-6 inches bgs, not including duplicate samples) were 236 and 320 mg/kg, respectively (N=12). The average zinc/lead ratio for these Little Italy reference area surface soil samples was 0.84.

EPA FIELDS conducted four statistical analyses (basic statistics, multiple comparisons,

W0141.1A.00260

regression, and confidence limits) to investigate the similarities and differences between concentrations of cadmium, copper, lead, tin, and zinc in surface soil on the H. Kramer property, in the immediate vicinity of the H. Kramer property, the Assessment Area, the Little Italy and West Harrison references areas, and the City of Chicago background (USGS, 2003) (**Appendix B**). EPA FIELDS concluded the following:

- Concentrations of cadmium, copper, lead, tin, and zinc generally decreased with increasing distance from H. Kramer. Furthermore, these concentrations do not appear to increase with decreasing distance toward other potential sources of heavy metal contamination bordering the Assessment Area, including Loewenthal, NL, and Fisk.
- Areas of the Assessment Area closest to H. Kramer (within 0.25 mile north and 0.2 mile east of H. Kramer including Res1 and Res2) were significantly more impacted with lead and zinc relative to the Little Italy reference area and the City of Chicago background (USGS, 2003).
- High zinc/lead ratios, a signature characteristic of H. Kramer baghouse dust, are present in soil in the immediate vicinity of H. Kramer and in the southwest region of the Assessment Area whereas zinc/lead ratios were near or below reference area levels or City of Chicago background levels in surface soil samples collected closest to other potential sources, including Loewenthal and NL.
- Antimony, a signature metal suspected to have been emitted by Century, was not detected at considerably higher concentrations in surface soil at residential properties within closer proximity to the Century property in the southwest region of the Assessment Area.

EPA FIELDS' findings suggest the areas in the southwest region of the Assessment Area (Res1 and Res2) have been impacted by an industrial release of lead, as opposed to historical leaded gasoline emissions or lead-based paint debris, whose effects are anticipated to be observed in the City of Chicago background and the Little Italy reference area. EPA FIELDS' findings also suggest Loewenthal, NL, Century, and Fisk Station are not the primary industrial contributors to lead contamination in surface soils in the Res1 and Res2 residential areas.

W0141.1A.00260

Based on the WESTON and FIELDS evaluation of soil data collected in the Assessment Area and reference areas, there has been a release of heavy metals through air deposition in Res1 and Res2. H. Kramer is located in the predominantly upwind vicinity of the most lead-impacted residential properties in the Assessment Area, has a history of CDOE, IEPA, and EPA permit violations, and a record of fugitive and stack emissions (54,366 lb of lead and 832,567 lb of zinc since 1987 [EPA, 2013a]). As a result, uncontrolled industrial air emissions from H. Kramer may represent a significant industrial contribution to elevated concentrations of lead within the Res1 and Res2 areas.

The Res1 and Res2 portions of the Assessment Area where lead concentrations in soil were above the EPA residential soil RMLs and where the lead is at least partially attributable to a release from the H. Kramer facility is designated at the “Pilsen Soil Site Residential Area” (the Site). In the Harrison Park reference area and Res3, where total lead was detected in residential surface soil samples in concentrations exceeding the 2014 EPA residential soil RML for lead of 400 mg/kg, the primary source(s) does not appear to be H. Kramer.

Aside from Fisk Station (NEIC, 2012), no statistical analysis focusing on other potential industrial sources or an NEIC study of sources samples from any other potential industrial source, such as Loewenthal, NL, and Century, was conducted. Therefore, based on the information available, Loewenthal, NL, Century cannot presently be ruled out as a contributor to lead contamination in surface soils in the Res1, Res2, and Res3 residential areas.

Exposure to lead in soil at concentrations above the EPA residential soil RML is possible because impacted areas of the Assessment Area consist of soil on residential properties. Potential receptors include residents and workers at the industrial and commercial businesses located at the Assessment Area. Potential migration pathways and exposure mechanisms include human and animal activities, surface drainage, and wind dispersion. WESTON START observed numerous yards with bare exposed soil and evidence of child residents, such as toys and play areas.

W0141.1A.00260

## 8. REFERENCES

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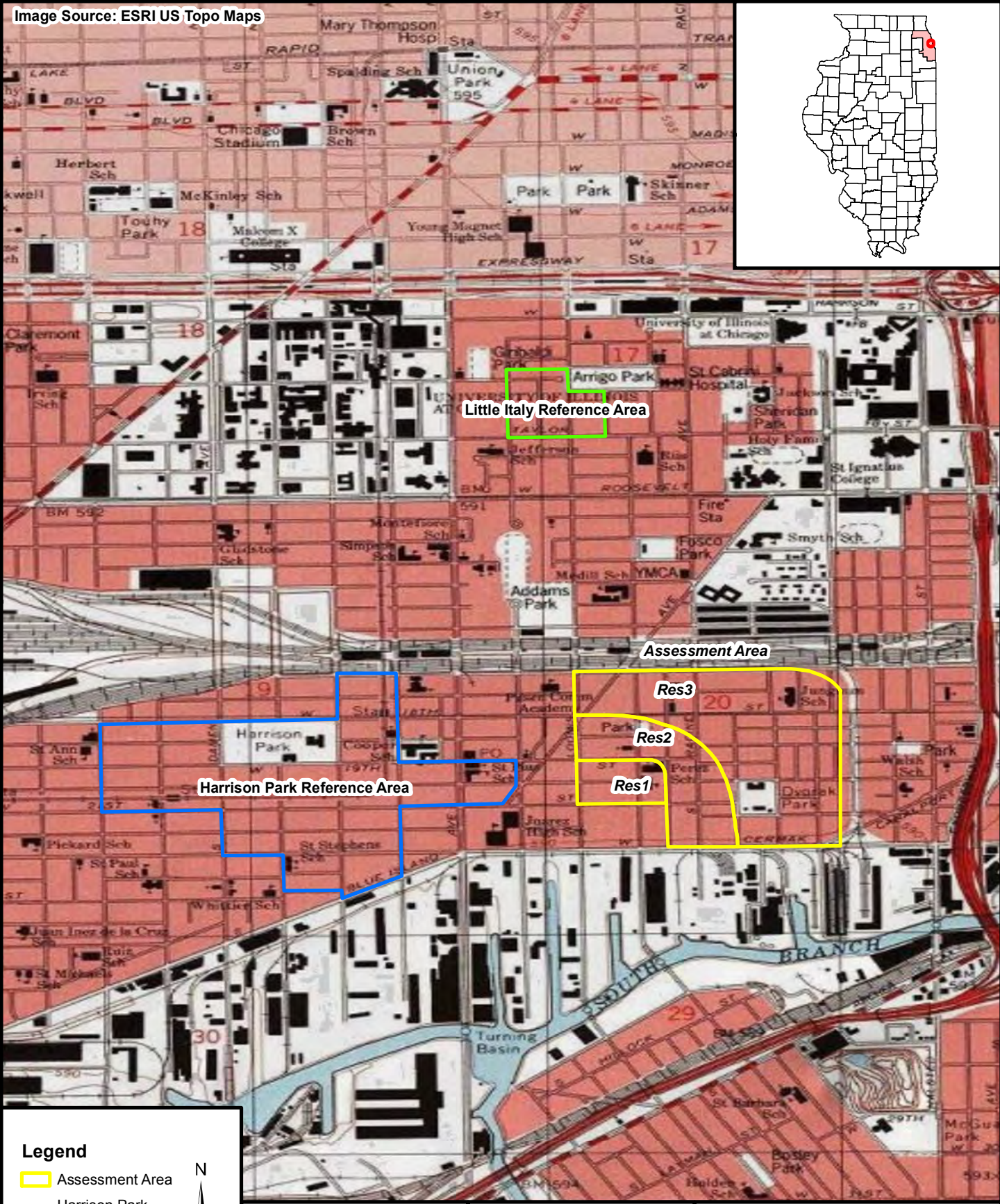
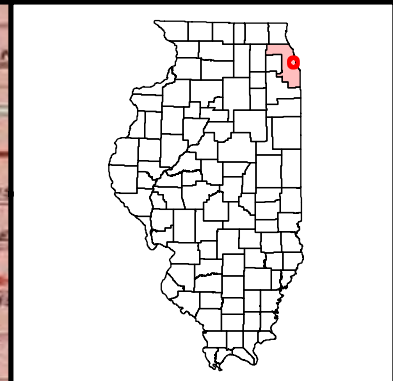
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## FIGURES




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Image Source: ESRI US Topo Maps



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**Legend**

-  Assessment Area
-  Harrison Park Reference Area
-  Little Italy Reference Area



0 2,000 Feet



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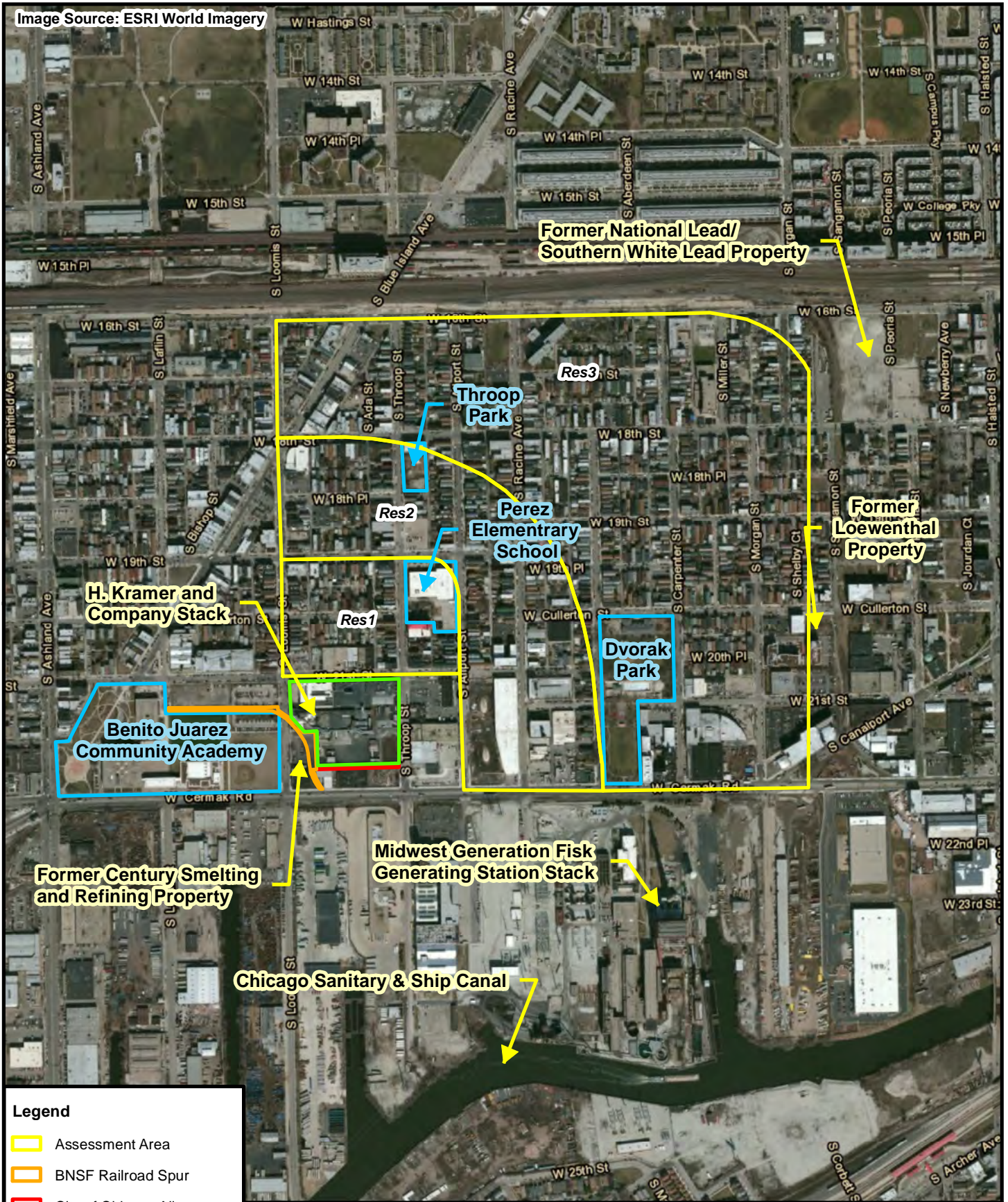


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**Figure 1-1**  
Assessment Area Location Map  
Pilsen Soil Assessment Area:  
Residential (Redacted)  
Chicago, Cook County, Illinois

Image Source: ESRI World Imagery



**Legend**

- Assessment Area
  - BNSF Railroad Spur
  - City of Chicago Alley
  - H. Kramer and Company
  - Schools/Parks
- 0  1,000  
Feet



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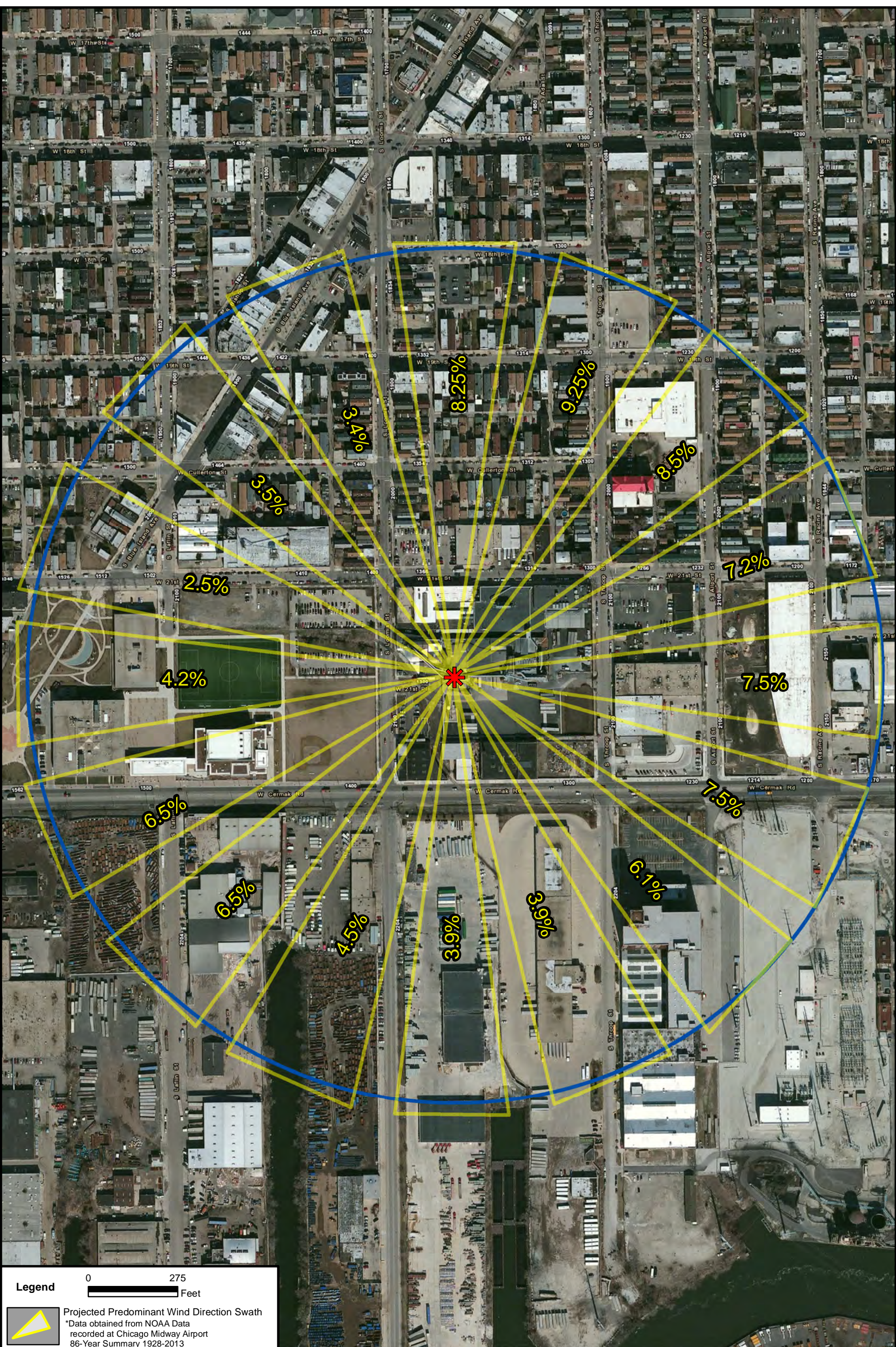


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**Figure 2-1**

Assessment Area Features Map  
Pilsen Soil Assessment Area:  
Residential (Redacted)  
Chicago, Cook County, Illinois



**Legend**

0 275 Feet

-  Projected Predominant Wind Direction Swath  
\*Data obtained from NOAA Data recorded at Chicago Midway Airport 86-Year Summary 1928-2013
-  Percentage of Days During Year Wind Blows to Depicted Direction
-  1/4 Mile Radius Circle from Smelter Stack
-  H. Kramer and Company Smelter Stack

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**Figure 2-2**  
Predominant Wind Pathway Map  
Pilsen Soil Assessment Area:  
Residential (Redacted)  
Chicago, Cook County, Illinois

Imagery Source: ESRI Bing Maps

**370**

Parameter	PA-370-01	PA-370-02
Cadmi um	6.9	6.2
Copper	150	220
Lead	700	1700
Lead, Fi ne	1200	1000
Ti n	28	38
Zi nc	1600	1600

**375**

Parameter	PA-375-01	PA-375-02
Cadmi um	11	14
Copper	680	750
Lead	1800	2500
Lead, Fi ne	2700	3000
Ti n	84	130
Zi nc	2900	3300

**291**

Parameter	PA-291-01	PA-291-03
Cadmi um	3.1	0.61
Copper	100	26
Lead	500	34
Lead, Fi ne	780	46
Ti n	39	5.7 U
Zi nc	620	100

**276**

Parameter	PA-276-01
Cadmi um	17
Copper	1600
Lead	2400
Lead, Fi ne	2200
Ti n	200
Zi nc	6300

**274**

Parameter	PA-274-01	PA-274-02
Cadmi um	12	11
Copper	1100	960
Lead	1900	2000
Lead, Fi ne	1500	1700
Ti n	110	93
Zi nc	4900	4800

**272**

Parameter	PA-272-01
Cadmi um	6.7
Copper	520
Lead	2000
Lead, Fi ne	1700
Ti n	190
Zi nc	2500

**193**

Parameter	PA-193-01
Cadmi um	2.3
Copper	210
Lead	580
Lead, Fi ne	840
Ti n	19
Zi nc	1000

**186**

Parameter	PA-186-01	PA-186-02
Cadmi um	1.9	2
Copper	180	160
Lead	360	320
Lead, Fi ne	600	760
Ti n	19	20
Zi nc	970	900

**191**

Parameter	PA-191-01
Cadmi um	14
Copper	1100
Lead	2000
Lead, Fi ne	1900
Ti n	120
Zi nc	7200

**180**

Parameter	PA-180-01	PA-180-02
Cadmi um	6	6.5
Copper	300	330
Lead	810	3000
Lead, Fi ne	870	1500
Ti n	36	140
Zi nc	2300	2800

**183**

Parameter	PA-183-01
Cadmi um	8.5
Copper	800
Lead	1300
Lead, Fi ne	1200
Ti n	82
Zi nc	3600

**122**

Parameter	PA-122-01	PA-122-02
Cadmi um	6.7	4.5
Copper	540	290
Lead	1900	920
Lead, Fi ne	2700	1400
Ti n	57	38
Zi nc	3000	2400

**127**

Parameter	PA-127-01
Cadmi um	7.6
Copper	520
Lead	2500
Lead, Fi ne	2700
Ti n	61
Zi nc	3200

**Res1**

**RML Residential HQ3 Criteria:**  
 Cadmium = 210  
 Copper = 9,400  
 Lead = 400  
 Lead, Fines = 400  
 Tin = 140,000  
 Zinc = 70,000

*Note:*  
 Duplicate samples, garden samples,  
 and samples collected from deeper  
 than 6 inches bgs are not displayed.  
 Result Units = mg/kg

**Legend**

- H. Kramer Stack Location
- Other Assessment Areas
- Res1 Assessment Area

0 150 Feet

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**Figure 4-1**  
 Res1 Surface Soil Sampling Results  
 Pilsen Soil Assessment Area: Residential (Redacted)  
 Chicago, Cook County, Illinois

Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community, Esri, HERE, DeLorme, MapmyIndia, © OpenStreetMap contributors

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**351**

Parameter	PA-351-01
Cadmium	1.1 U
Copper	58 J
Lead	390
Lead, Fine	580
Tin	11 U
Zinc	490

**123**

Parameter	PA-123-01
Cadmium	5.5
Copper	320
Lead	1100
Lead, Fine	1400
Tin	46
Zinc	1900

**483**

Parameter	PA-483-01
Cadmium	1.2
Copper	35
Lead	200
Lead, Fine	320
Tin	10 U
Zinc	180

**470**

Parameter	PA-470-01
Cadmium	12
Copper	430
Lead	3200
Lead, Fine	3300
Tin	120
Zinc	3500

**92**

Parameter	PA-92-01	PA-92-02
Cadmium	4.9	2
Copper	170	83
Lead	880	400
Lead, Fine	1000	250
Tin	140	35
Zinc	1300	550

**163**

Parameter	PA-163-01	PA-163-02	PA-163-03
Cadmium	0.6 U	0.89	0.82
Copper	23	32	29
Lead	19	130	130
Lead, Fine	22	160	220
Tin	6 U	13	6.3
Zinc	76	130	140

**349**

Parameter	PA-349-01	PA-349-03	PA-349-02
Cadmium	5.4	2.5	2
Copper	250	99	100
Lead	890	1400	630
Lead, Fine	1400	1500	610
Tin	28	19	17
Zinc	1800	930	650

**84**

Parameter	PA-84-01	PA-84-02
Cadmium	2	4.5
Copper	56	110
Lead	600	1100
Lead, Fine	680	1100
Tin	30	26
Zinc	470	880

**371**

Parameter	PA-371-01	PA-371-02
Cadmium	7.7	1.3 U
Copper	450	54
Lead	1800	320
Lead, Fine	2200	450
Tin	49	13 U
Zinc	2800	360

**14**

Parameter	PA-14-01	PA-14-02	PA-14-03
Cadmium	1.2 U	1.5 U	1.7
Copper	55	96	110
Lead	140	480	710
Lead, Fine	200	560	980
Tin	13	15 U	12 U
Zinc	220	520	530

**104**

Parameter	PA-104-01	PA-104-02
Cadmium	6	7.6
Copper	190	340
Lead	930	1400
Lead, Fine	1100	1300
Tin	34	53
Zinc	1500	2400

**141**

Parameter	PA-141-01	PA-141-02	PA-141-03
Cadmium	3.3	3.5	5.9
Copper	200	190	220
Lead	860	1600	3300
Lead, Fine	760	1200	1400
Tin	39	26	43
Zinc	700	970	1500

**304**

Parameter	PA-304-01
Cadmium	1 U
Copper	27
Lead	58
Lead, Fine	77
Tin	10 U
Zinc	130

**105**

Parameter	PA-105-01	PA-105-02
Cadmium	2.1	2.6
Copper	99	240
Lead	640	990
Lead, Fine	650	2100
Tin	30 J	21
Zinc	930	1100

**125**

Parameter	PA-125-01	PA-125-02	PA-125-03
Cadmium	10	7.4	4.8
Copper	410	280	230
Lead	1500	1100	700
Lead, Fine	1700	910	950
Tin	63	50	31
Zinc	2900	2200	1500

**466**

Parameter	PA-466-05	PA-466-01	PA-466-02
Cadmium	8.5	3.4	2.8
Copper	460	210	120
Lead	2400	730	650
Lead, Fine	3100	870	750
Tin	58	25	23
Zinc	2400	900	780

**467**

Parameter	PA-467-01
Cadmium	7
Copper	250
Lead	1400
Lead, Fine	1600
Tin	34
Zinc	1600

**468**

Parameter	PA-468-01
Cadmium	5.9
Copper	290
Lead	1300
Lead, Fine	960
Tin	30
Zinc	1600

**369**

Parameter	PA-369-01	PA-369-03	PA-369-02
Cadmium	7.5	5.8	6.9
Copper	440	410	560
Lead	1500	2300	1700
Lead, Fine	2500	3500	2100
Tin	52	49	87
Zinc	1700	2700	3000

**RML Residential HQ3 Criteria:**  
 Cadmium = 210  
 Copper = 9,400  
 Lead = 400  
 Lead, Fines = 400  
 Tin = 140,000  
 Zinc = 70,000

*Note: Duplicate samples, garden samples, and samples collected from deeper than 6 inches bgs are not displayed. Result Units = mg/kg*

**Legend**

- H. Kramer Stack Location
- ▭ Other Assessment Areas
- ▭ Res2 Assessment Area

0 250 Feet

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**Figure 4-2**  
 Res2 Surface Soil Sampling Results  
 Pilsen Soil Assessment Area: Residential (Redacted)  
 Chicago, Cook County, Illinois

Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community, Esri, HERE, DeLorme, MapmyIndia, © OpenStreetMap contributors



496

Parameter	PA-496-01
Cadmium	2.8
Copper	64
Lead	230
Lead, Fine	360
Tin	11
Zinc	380

469

Parameter	PA-469-01	PA-469-02	PA-469-03	PA-469-04	PA-469-05
Cadmium	1.1 U	1.1 U	1.2 U	1.2 U	1.3 U
Copper	56	44	50	59	94 J
Lead	130	100	120	110	340
Lead, Fine	160	170	180	120	330
Tin	14 UJ	13 UJ	17 UJ	12 UJ	22 UJ
Zinc	180	170	160	190	360

497

Parameter	PA-497-01
Cadmium	2.2
Copper	53
Lead	460
Lead, Fine	460
Tin	15
Zinc	350

464

Parameter	PA-464-01	PA-464-02	PA-464-03	PA-464-04
Cadmium	3.2	1.9	9.4	38
Copper	170	74	150	260
Lead	910	240	670	450
Lead, Fine	1300	350	990	500
Tin	36	15	29	38
Zinc	750	260	620	940

465

Parameter	PA-465-01	PA-465-02,
Cadmium	1.7	1.5
Copper	84	53
Lead	370	350
Lead, Fine	400	400
Tin	17	13
Zinc	300	310

498

Parameter	PA-498-01
Cadmium	1.5
Copper	38
Lead	270
Lead, Fine	340
Tin	9.7 U
Zinc	200

515

Parameter	PA-515-01
Cadmium	7.4
Copper	140
Lead	1600
Lead, Fine	1600
Tin	29 J
Zinc	1100

495

Parameter	PA-495-01
Cadmium	2.6
Copper	56
Lead	930
Lead, Fine	1000
Tin	16
Zinc	430

499

Parameter	PA-499-01
Cadmium	2.5
Copper	86
Lead	1200
Lead, Fine	1100
Tin	26 J
Zinc	500

506

Parameter	PA-506-01
Cadmium	4.1
Copper	94
Lead	940
Lead, Fine	1400
Tin	17
Zinc	780

505

Parameter	PA-505-01
Cadmium	5.5
Copper	170
Lead	1300
Lead, Fine	1900
Tin	33
Zinc	1300

510

Parameter	PA-510-01
Cadmium	4.1
Copper	100
Lead	1700
Lead, Fine	2200
Tin	25
Zinc	790

514

Parameter	PA-514-01
Cadmium	2.1
Copper	59
Lead	410
Lead, Fine	430
Tin	11 U
Zinc	370

509

Parameter	PA-509-01
Cadmium	4.7
Copper	120
Lead	1400
Lead, Fine	1400
Tin	53
Zinc	830

482

Parameter	PA-482-01
Cadmium	3.7
Copper	66
Lead	210
Lead, Fine	200
Tin	13
Zinc	380

508

Parameter	PA-508-01
Cadmium	2.7
Copper	52
Lead	580
Lead, Fine	290
Tin	11 U
Zinc	400

**RML Residential HQ3 Criteria:**  
 Cadmium = 210  
 Copper = 9,400  
 Lead = 400  
 Lead, Fines = 400  
 Tin = 140,000  
 Zinc = 70,000

*Note:* Duplicate samples, garden samples, and samples collected from deeper than 6 inches bgs are not displayed.  
 Result Units = mg/kg

- Legend**
- H. Kramer Stack Location
  - Other Assessment Areas
  - Res3 Assessment Area



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**Figure 4-3**  
 Res3 Surface Soil Sampling Results  
 Pilsen Soil Assessment Area: Residential (Redacted)  
 Chicago, Cook County, Illinois

Imagery Source: ESRI Bing Maps

481

Parameter	PA-481-01
Cadmi um	5.4
Copper	120
Lead	1600
Lead, Fi ne	2000
Ti n	36
Zi nc	1300

486

Parameter	PA-486-01
Cadmi um	4.4
Copper	130
Lead	880
Lead, Fi ne	1100
Ti n	26
Zi nc	840

485

Parameter	PA-485-01
Cadmi um	1.8
Copper	100
Lead	510
Lead, Fi ne	650
Ti n	12 U
Zi nc	390

487

Parameter	PA-487-01
Cadmi um	3.1
Copper	140
Lead	1400
Lead, Fi ne	770
Ti n	65
Zi nc	600

475

Parameter	PA-475-01
Cadmi um	6.6
Copper	160
Lead	3700
Lead, Fi ne	3100
Ti n	55
Zi nc	1700

488

Parameter	PA-488-01
Cadmi um	1.7
Copper	56
Lead	410
Lead, Fi ne	790
Ti n	17
Zi nc	390

479

Parameter	PA-479-01
Cadmi um	5.3
Copper	140
Lead	1200
Lead, Fi ne	1600
Ti n	33
Zi nc	970

503

Parameter	PA-503-01
Cadmi um	6.1
Copper	130
Lead	1400
Lead, Fi ne	1700
Ti n	21
Zi nc	830

516

Parameter	PA-516-01
Cadmi um	5.3
Copper	70
Lead	520
Lead, Fi ne	450
Ti n	12 U
Zi nc	500

502

Parameter	PA-502-01
Cadmi um	7.3
Copper	300
Lead	780
Lead, Fi ne	620
Ti n	20
Zi nc	610

507

Parameter	PA-507-01
Cadmi um	3.2
Copper	48
Lead	270
Lead, Fi ne	630
Ti n	9.9 U
Zi nc	280

484

Parameter	PA-484-01
Cadmi um	75
Copper	740
Lead	1700
Lead, Fi ne	2500
Ti n	110
Zi nc	2300

474

Parameter	PA-474-01	PA-474-02
Cadmi um	3.5	3.1
Copper	130	95
Lead	2600	2200
Lead, Fi ne	2000	3300
Ti n	180	24
Zi nc	870	740

472

Parameter	PA-472-01
Cadmi um	5.6
Copper	130
Lead	940
Lead, Fi ne	1100
Ti n	52
Zi nc	1100

478

Parameter	PA-478-01
Cadmi um	17
Copper	230
Lead	1400
Lead, Fi ne	1500
Ti n	42
Zi nc	1400

480

Parameter	PA-480-01
Cadmi um	4.9
Copper	180
Lead	3200
Lead, Fi ne	3600
Ti n	37
Zi nc	1300

476

Parameter	PA-476-01
Cadmi um	8.5
Copper	170
Lead	2000
Lead, Fi ne	1900
Ti n	32
Zi nc	1800

471

Parameter	PA-471-01
Cadmi um	7.2
Copper	230
Lead	1900
Lead, Fi ne	1800
Ti n	40
Zi nc	2000

477

Parameter	PA-477-01
Cadmi um	4.1
Copper	98
Lead	1700
Lead, Fi ne	980
Ti n	26
Zi nc	720

473

Parameter	PA-473-01
Cadmi um	9.1
Copper	160
Lead	1700
Lead, Fi ne	1600
Ti n	43
Zi nc	970


**RML Residential HQ3 Criteria:**  
 Cadmium = 210  
 Copper = 9,400  
 Lead = 400  
 Lead, Fines = 400  
 Tin = 140,000  
 Zinc = 70,000

Note:  
 Duplicate samples, garden samples,  
 and samples collected from deeper  
 than 6 inches bgs are not displayed.  
 Result Units = mg/kg

Harrison Park Reference Area

Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community, Esri, HERE, DeLorme, MapmyIndia, © OpenStreetMap contributors

FILE: D:\Pilsen\mxd\SAR\_Residential\Redacted\F4-4\_Harrison\_Park.mxd 10/10/2014 2:04:09 PM wojdakon

**Legend**  
 Harrison Park Reference Area

0 400  
 Feet



Prepared For:  
**US EPA Region V**  
 Contract No.: EP-S8-13-01  
 TDD: 0001/1406-07  
 DCN: W0141.1A.00260



Prepared By:  
**WESTON SOLUTIONS, INC**  
 20 N Wacker Dr.  
 Suite 2035  
 Chicago, Illinois 60606

**Figure 4-4**  
 Harrison Park Reference Area Surface Soil Sampling Results Map  
 Pilsen Soil Assessment Area: Residential (Redacted)  
 Chicago, Cook County, Illinois

**513**

Parameter	PA-513-01
Cadmium	1.4
Copper	45
Lead	170
Lead, Fine	230
Tin	10 U
Zinc	200

**501**

Parameter	PA-501-01
Cadmium	1.4
Copper	28
Lead	66
Lead, Fine	66
Tin	13 U
Zinc	150

**511**

Parameter	PA-511-01
Cadmium	1.7
Copper	40
Lead	210
Lead, Fine	370
Tin	11 U
Zinc	170

**512**

Parameter	PA-512-01
Cadmium	1.7
Copper	37
Lead	320
Lead, Fine	520
Tin	12 U
Zinc	230

**489**

Parameter	PA-489-01
Cadmium	1.4
Copper	30
Lead	160
Lead, Fine	160
Tin	10 U
Zinc	140

**500**

Parameter	PA-500-01
Cadmium	3.4
Copper	72
Lead	760
Lead, Fine	1300
Tin	27
Zinc	620

**490**

Parameter	PA-490-01
Cadmium	1.6
Copper	33
Lead	220
Lead, Fine	230
Tin	11 U
Zinc	150

**491**

Parameter	PA-491-01
Cadmium	1.8
Copper	68
Lead	260
Lead, Fine	280
Tin	16
Zinc	270

**493**

Parameter	PA-493-01
Cadmium	1.8
Copper	45
Lead	190
Lead, Fine	210
Tin	11 U
Zinc	170

**492**

Parameter	PA-492-01
Cadmium	2.7
Copper	66
Lead	260
Lead, Fine	210
Tin	13
Zinc	210

**494**

Parameter	PA-494-01
Cadmium	2
Copper	46
Lead	120
Lead, Fine	110
Tin	12 U
Zinc	170

**RML Residential HQ3 Criteria:**  
 Cadmium = 210  
 Copper = 9,400  
 Lead = 400  
 Lead, Fines = 400  
 Tin = 140,000  
 Zinc = 70,000



**Legend**

Little Italy Reference Area

Result Units = mg/kg  
 Duplicate samples and samples collected deeper than 6 inches bgs are not displayed

0 125 Feet

Prepared For:  
**US EPA Region V**  
 Contract No.: EP-S8-13-01  
 TDD: 0001/1406-07  
 DCN: W0141.1A.00260

Prepared By:  
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 Chicago, Illinois 60606

**Figure 4-5**  
 Little Italy Reference Area Surface Soil Sampling Results Map  
 Pilsen Soil Assessment Area: Residential (Redacted)  
 Chicago, Cook County, Illinois

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## TABLES

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**TABLE 3-1  
SOIL SAMPLING SUMMARY  
PILSEN SOIL ASSESSMENT AREA: RESIDENTIAL  
CHICAGO, COOK COUNTY, ILLINOIS**

Sample ID	Date Collected	Location of Property Sampled	Location of Sample on Property	Property ID	Sample Type	Depth (in bgs)	Analyses					
							Total Metals	Fine-Grained Lead	Bioavailable Lead	TCLP Lead	Total Lead	pH
<b>May Field Event</b>												
PA-163-01(0-6)-050113	5/1/2013	AA - Res2	Garden	163	Composite	0-6	X	X		X		X
PA-163-02(0-6)-050113	5/1/2013	AA - Res2	Garden	163	Composite	0-6	X	X		X		X
PA-163-03(0-6)-050113	5/1/2013	AA - Res2	Drip Zone	163	Composite	0-6	X	X		X		X
PA-272-01(0-6)-050113	5/1/2013	AA - Res1	Back yard	272	Composite	0-6	X	X		X		X
PA-274-01(0-6)-050113	5/1/2013	AA - Res1	Back yard	274	Composite	0-6	X	X		X		X
PA-274-02(0-6)-050113	5/1/2013	AA - Res1	Drip zone	274	Composite	0-6	X	X		X		X
PA-276-01(0-6)-050113	5/1/2013	AA - Res1	Back yard	276	Composite	0-6	X	X	X	X		X
PA-276-01(0-6)-050113D	5/1/2013	AA - Res1	Back yard	276	Composite	0-6	X	X	X	X		X
PA-291-01(0-6)-050113	5/1/2013	AA - Res1	Front yard	291	Composite	0-6	X	X		X		X
PA-291-03(0-6)-050113	5/1/2013	AA - Res1	Garden	291	Composite	0-6	X	X		X		X
PA-104-01(0-6)-050213	5/2/2013	AA - Res2	Front yard	104	Composite	0-6	X	X		X		X
PA-104-02(0-6)-050213	5/2/2013	AA - Res2	Back yard	104	Composite	0-6	X	X		X		X
PA-105-01(0-6)-050213	5/2/2013	AA - Res2	Front yard	105	Composite	0-6	X	X		X		X
PA-105-02(0-6)-050213	5/2/2013	AA - Res2	Back yard	105	Composite	0-6	X	X		X		X
PA-105-03(0-6)-050213	5/2/2013	AA - Res2	Replicate - Back yard	105	Composite	0-6	X	X		X		X
PA-105-04(0-6)-050213	5/2/2013	AA - Res2	Replicate - Back yard	105	Composite	0-6	X	X		X		X
PA-180-01(0-6)-050213	5/2/2013	AA - Res1	Yard (east 1/2 vacant lot)	180	Composite	0-6	X	X		X		X
PA-180-02(0-6)-050213	5/2/2013	AA - Res1	Yard (west 1/2 vacant lot)	180	Composite	0-6	X	X		X		X
PA-183-01(0-12)-050213	5/2/2013	AA - Res1	Garden	183	Composite	0-12	X	X		X		X
PA-186-01(0-6)-050213	5/2/2013	AA - Res1	Front yard	186	Composite	0-6	X	X		X		X
PA-186-02(0-6)-050213	5/2/2013	AA - Res1	Back yard	186	Composite	0-6	X	X		X		X
PA-186-03(0-6)-050213	5/2/2013	AA - Res1	Replicate - Back yard	186	Composite	0-6					X	
PA-186-04(0-6)-050213	5/2/2013	AA - Res1	Replicate - Back yard	186	Composite	0-6					X	
PA-191-01(0-6)-050213	5/2/2013	AA - Res1	Back yard	191	Composite	0-6	X	X		X		X
PA-191-01(0-6)-050213D	5/2/2013	AA - Res1	Back yard	191	Composite	0-6	X	X		X		X
PA-122-01(0-6)-050313	5/3/2013	AA - Res1	Back yard	122	Composite	0-6	X	X	X	X		X
PA-122-02(0-6)-050313	5/3/2013	AA - Res1	Garden	122	Composite	0-6	X	X		X		X
PA-123-01(0-12)-050313	5/3/2013	AA - Res2	Garden	123	Composite	0-12	X	X		X		X
PA-125-01(0-6)-050313	5/3/2013	AA - Res2	Yard (west 1/2 lot)	125	Composite	0-6	X	X		X		X
PA-125-02(0-6)-050313	5/3/2013	AA - Res2	Yard (east 1/2 lot)	125	Composite	0-6	X	X		X		X
PA-125-03(0-12)-050313	5/3/2013	AA - Res2	Garden	125	Composite	0-12	X	X		X		X
PA-125-04(0-6)-050313	5/3/2013	AA - Res2	Replicate - Back yard	125	Composite	0-6	X	X		X		X
PA-125-05(0-6)-050313	5/3/2013	AA - Res2	Replicate - Back yard	125	Composite	0-6	X	X		X		X
PA-127-01(0-6)-050313	5/3/2013	AA - Res1	Back yard	127	Composite	0-6	X	X	X	X		X
PA-193-01(0-6)-050313	5/3/2013	AA - Res1	Back yard	193	Composite	0-6	X	X		X		X
PA-141-01(0-6)-050713	5/7/2013	AA - Res2	Yard (west 1/2 lot)	141	Composite	0-6	X	X		X		X
PA-141-02(0-6)-050713	5/7/2013	AA - Res2	Yard (east 1/2 lot)	141	Composite	0-6	X	X		X		X
PA-141-03(0-12)-050713	5/7/2013	AA - Res2	Garden	141	Composite	0-12	X	X		X		X
PA-349-01(0-6)-050713	5/7/2013	AA - Res2	Front yard	349	Composite	0-6	X	X		X		X
PA-349-02(0-12)-050713	5/7/2013	AA - Res2	Garden	349	Composite	0-12	X	X		X		X

**TABLE 3-1  
SOIL SAMPLING SUMMARY  
PILSEN SOIL ASSESSMENT AREA: RESIDENTIAL  
CHICAGO, COOK COUNTY, ILLINOIS**

Sample ID	Date Collected	Location of Property Sampled	Location of Sample on Property	Property ID	Sample Type	Depth (in bgs)	Analyses					
							Total Metals	Fine-Grained Lead	Bioavailable Lead	TCLP Lead	Total Lead	pH
PA-349-03(0-6)-050713	5/7/2013	AA - Res2	Backyard	349	Composite	0-6	X	X		X		X
PA-351-01(0-6)-050713	5/7/2013	AA - Res2	Garden	351	Composite	0-6	X	X		X		X
PA-369-01(0-2)-050713	5/7/2013	AA - Res2	Backyard	369	Composite	0-2	X	X		X		X
PA-369-01(0-6)-050713	5/7/2013	AA - Res2	Backyard	369	Composite	0-6	X	X		X		X
PA-369-02(0-6)-050713	5/7/2013	AA - Res2	Garden	369	Composite	0-6	X	X		X		X
PA-369-03,04(0-6)-050713	5/7/2013	AA - Res2	Front yard	369	Composite	0-6	X	X		X		X
PA-370-01(0-6)-050713	5/7/2013	AA - Res1	Backyard	370	Composite	0-6	X	X		X		X
PA-370-01(0-6)-050713D	5/7/2013	AA - Res1	Backyard	370	Composite	0-6	X	X		X		X
PA-370-02(0-6)-050713	5/7/2013	AA - Res1	Garden	370	Composite	0-6	X	X		X		X
PA-370-02(6-12)-050713	5/7/2013	AA - Res1	Garden	370	Composite	6-12	X	X		X		X
PA-371-01(0-6)-050713	5/7/2013	AA - Res2	Backyard	371	Composite	0-6	X	X		X		X
PA-371-02(0-6)-050713	5/7/2013	AA - Res2	Front yard	371	Composite	0-6	X	X		X		X
PA-371-02(0-6)-050713D	5/7/2013	AA - Res2	Front yard	371	Composite	0-6	X	X		X		X
PA-375-01(0-6)-050713	5/7/2013	AA - Res1	Backyard	375	Composite	0-6	X	X	X	X		X
PA-375-02(0-12)-050713	5/7/2013	AA - Res1	Garden	375	Composite	0-12	X	X		X		X
PA-84-01(0-6)-050813	5/8/2013	AA - Res2	Front yard	84	Composite	0-6	X	X		X		X
PA-84-02(0-6)-050813	5/8/2013	AA - Res2	Backyard	84	Composite	0-6	X	X		X		X
PA-84-02(0-6)-050813D	5/8/2013	AA - Res2	Backyard	84	Composite	0-6	X	X		X		X
PA-84-04(0-6)-050813	5/8/2013	AA - Res2	Replicate - Front yard	84	Composite	0-6					X	
PA-84-05(0-6)-050813	5/8/2013	AA - Res2	Replicate - Front yard	84	Composite	0-6					X	
PA-92-01(0-6)-050813	5/8/2013	AA - Res2	Backyard	92	Composite	0-6	X	X		X		X
PA-92-02(0-12)-050813	5/8/2013	AA - Res2	Garden	92	Composite	0-12	X	X		X		X
PA-464-01(0-6)-050813	5/8/2013	AA - Res3	Yard (east 1/2 lot)	464	Composite	0-6	X	X		X		X
PA-464-02(0-6)-050813	5/8/2013	AA - Res3	Yard (west 1/2 lot)	464	Composite	0-6	X	X		X		X
PA-464-03(0-12)-050813	5/8/2013	AA - Res3	Garden	464	Composite	0-12	X	X		X		X
PA-464-04(0-12)-050813	5/8/2013	AA - Res3	Garden	464	Composite	0-12	X	X		X		X
PA-464-04(0-12)-050813D	5/8/2013	AA - Res3	Garden	464	Composite	0-12	X	X		X		X
PA-464-05(0-6)-050813	5/8/2013	AA - Res3	Replicate - yard (east 1/2 lot)	464	Composite	0-6					X	
PA-464-06(0-6)-050813	5/8/2013	AA - Res3	Replicate - yard (east 1/2 lot)	464	Composite	0-6					X	
PA-14-01(0-6)-050913	5/9/2013	AA - Res2	Backyard	14	Composite	0-6	X	X		X		X
PA-14-02(0-6)-050913	5/9/2013	AA - Res2	Front yard	14	Composite	0-6	X	X		X		X
PA-14-03(0-6)-050913	5/9/2013	AA - Res2	Drip zone	14	Composite	0-6	X	X		X		X
PA-304-01(0-6)-050913	5/9/2013	AA - Res2	Backyard	304	Composite	0-6	X	X		X		X
PA-465-01(0-6)-050913	5/9/2013	AA - Res3	Yard	465	Composite	0-6	X	X		X		X
PA-465-01(0-6)-050913D	5/9/2013	AA - Res3	Yard	465	Composite	0-6	X	X		X		X
PA-465-02,03,04(0-12)-050913	5/9/2013	AA - Res3	Garden	465	Composite	0-12	X	X		X		X
PA-466-01(0-6)-050913	5/9/2013	AA - Res2	Yard (east 1/2 lot)	466	Composite	0-6	X	X	X	X		X
PA-466-02(0-6)-050913	5/9/2013	AA - Res2	Yard (west 1/2 lot)	466	Composite	0-6	X	X		X		X
PA-466-03(0-6)-050913	5/9/2013	AA - Res2	Replicate - yard (east 1/2 lot)	466	Composite	0-6					X	
PA-466-04(0-6)-050913	5/9/2013	AA - Res2	Replicate - yard (east 1/2 lot)	466	Composite	0-6					X	
PA-466-05(0-6)-050913	5/9/2013	AA - Res2	Drip zone	466	Grab	0-6	X	X		X		X

**TABLE 3-1  
SOIL SAMPLING SUMMARY  
PILSEN SOIL ASSESSMENT AREA: RESIDENTIAL  
CHICAGO, COOK COUNTY, ILLINOIS**

Sample ID	Date Collected	Location of Property Sampled	Location of Sample on Property	Property ID	Sample Type	Depth (in bgs)	Analyses					
							Total Metals	Fine-Grained Lead	Bioavailable Lead	TCLP Lead	Total Lead	pH
PA-467-01(0-6)-050913	5/9/2013	AA - Res2	Backyard	467	Composite	0-6	X	X		X		X
PA-468-01(0-6)-050913	5/9/2013	AA - Res2	Backyard	468	Composite	0-6	X	X		X		X
PA-469-01(0-6)-051013	5/10/2013	AA - Res3	Field - northeast quadrant	469	Composite	0-6	X	X		X		X
PA-469-01(0-6)-051013D	5/10/2013	AA - Res3	Field - northwest quadrant	469	Composite	0-6	X	X		X		X
PA-469-02(0-6)-051013	5/10/2013	AA - Res3	Field - northeast quadrant	469	Composite	0-6	X	X		X		X
PA-469-03(0-6)-051013	5/10/2013	AA - Res3	Field - southwest quadrant	469	Composite	0-6	X	X		X		X
PA-469-04(0-6)-051013	5/10/2013	AA - Res3	Field - southeast quadrant	469	Composite	0-6	X	X		X		X
PA-469-04(0-6)-051013D	5/10/2013	AA - Res3	Field - southeast quadrant	469	Composite	0-6	X	X		X		X
PA-469-05(0-6)-051013	5/10/2013	AA - Res3	Playground	469	Composite	0-6	X	X	X	X		X
<b>July Field Event</b>												
PA-92-01(6-12)-070913	7/9/2013	AA - Res2	Backyard	92	Composite	6-12	X	X				
PA-92-01(12-24)-070913	7/9/2013	AA - Res2	Backyard	92	Composite	12-24	X	X				
PA-470-01(0-6)-070913	7/9/2013	AA - Res2	Backyard	470	Composite	0-6	X	X				
PA-471-01(0-6)-070913	7/9/2013	Harrison Park Reference Area	Backyard	471	Composite	0-6	X	X				
PA-472-01(0-6)-070913	7/9/2013	Harrison Park Reference Area	Backyard	472	Composite	0-6	X	X				
PA-472-01(0-6)-070913D	7/9/2013	Harrison Park Reference Area	Backyard	472	Composite	0-6	X	X				
PA-473-01(0-6)-070913	7/9/2013	Harrison Park Reference Area	Backyard	473	Composite	0-6	X	X				
PA-473-01(6-18)-070913	7/9/2013	Harrison Park Reference Area	Backyard	473	Composite	6-18	X	X				
PA-473-01(18-24)-070913	7/9/2013	Harrison Park Reference Area	Backyard	473	Composite	18-24	X	X				
PA-474-01(0-6)-071013	7/10/2013	Harrison Park Reference Area	Backyard	474	Composite	0-6	X	X				
PA-474-01(6-18)-071013	7/10/2013	Harrison Park Reference Area	Backyard	474	Composite	6-18	X	X				
PA-474-02(0-6)-071013	7/10/2013	Harrison Park Reference Area	Frontyard	474	Composite	0-6	X	X				
PA-475-01(0-6)-071013	7/10/2013	Harrison Park Reference Area	Backyard	475	Composite	0-6	X	X				
PA-476-01(0-6)-071013	7/10/2013	Harrison Park Reference Area	Backyard	476	Composite	0-6	X	X				
PA-477-01(0-6)-071013	7/10/2013	Harrison Park Reference Area	Backyard	477	Composite	0-6	X	X				
PA-477-01(6-18)-071013	7/10/2013	Harrison Park Reference Area	Backyard	477	Composite	6-18	X	X				
PA-478-01(0-6)-071013	7/10/2013	Harrison Park Reference Area	Front/Back Comp.	478	Composite	0-6	X	X				
PA-469-01(6-15)-071113	7/11/2013	AA - Res3	Field - northwest quadrant	469	Composite	6-15	X	X				
PA-469-02(6-15)-071113	7/11/2013	AA - Res3	Field - northeast quadrant	469	Composite	6-15	X	X				
PA-469-03(6-15)-071113	7/11/2013	AA - Res3	Field - southwest quadrant	469	Composite	6-15	X	X				
PA-469-03(6-15)-071113D	7/11/2013	AA - Res3	Field - southwest quadrant	469	Composite	6-15	X	X				
PA-478-01(0-6)-071013D	7/11/2013	Harrison Park Reference Area	Front/Back Comp.	478	Composite	0-6	X	X				
PA-479-01(0-6)-071113	7/11/2013	Harrison Park Reference Area	Front yard	479	Composite	0-6	X	X				
PA-480-01(0-6)-071113	7/11/2013	Harrison Park Reference Area	Front yard	480	Composite	0-6	X	X				
PA-481-01(0-6)-071113	7/11/2013	Harrison Park Reference Area	Backyard	481	Composite	0-6	X	X				
PA-482-01(0-6)-071113	7/11/2013	AA - Res3	Frontyard	482	Composite	0-6	X	X				
PA-482-01(6-18)-071113	7/11/2013	AA - Res3	Frontyard	482	Composite	6-18	X	X				
PA-483-01(0-6)-071213	7/12/2013	AA - Res2	Backyard	483	Composite	0-6	X	X				
PA-483-01(6-24)-071213	7/12/2013	AA - Res2	Backyard	483	Composite	6-24	X	X				
PA-484-01(0-6)-071213	7/12/2013	Harrison Park Reference Area	Backyard	484	Composite	0-6	X	X				
PA-484-01(6-18)-071213	7/12/2013	Harrison Park Reference Area	Backyard	484	Composite	6-18	X	X				

**TABLE 3-1  
SOIL SAMPLING SUMMARY  
PILSEN SOIL ASSESSMENT AREA: RESIDENTIAL  
CHICAGO, COOK COUNTY, ILLINOIS**

Sample ID	Date Collected	Location of Property Sampled	Location of Sample on Property	Property ID	Sample Type	Depth (in bgs)	Analyses					
							Total Metals	Fine-Grained Lead	Bioavailable Lead	TCLP Lead	Total Lead	pH
PA-485-01(0-6)-071213	7/12/2013	Harrison Park Reference Area	Backyard	485	Composite	0-6	X	X				
PA-486-01(0-6)-071213	7/12/2013	Harrison Park Reference Area	Backyard	486	Composite	0-6	X	X				
PA-486-01(6-24)-071213	7/12/2013	Harrison Park Reference Area	Backyard	486	Composite	6-24	X	X				
PA-486-01(6-24)-071213D	7/12/2013	Harrison Park Reference Area	Backyard	486	Composite	6-24	X	X				
PA-122-01(6-18)-071513	7/15/2013	AA - Res1	Backyard	122	Composite	6-18	X	X				
PA-122-01(18-24)-071513	7/15/2013	AA - Res1	Backyard	122	Composite	18-24	X	X				
PA-122-01(18-24)-071513D	7/15/2013	AA - Res1	Backyard	122	Composite	18-24	X	X				
PA-276-01(6-18)-071513	7/15/2013	AA - Res1	Backyard	276	Composite	6-18	X	X				
PA-276-01(18-24)-071513	7/15/2013	AA - Res1	Backyard	276	Composite	18-24	X	X				
PA-487-01(0-6)-071513	7/15/2013	Harrison Park Reference Area	Backyard	487	Composite	0-6	X	X				
PA-488-01(0-6)-071513	7/15/2013	Harrison Park Reference Area	Front yard	488	Composite	0-6	X	X				
PA-104-01(12-24)-071613	7/16/2013	AA - Res2	Front yard	104	Composite	12- 24	X	X				
PA-104-01(6-12)-071613	7/16/2013	AA - Res2	Front yard	104	Composite	6- 12	X	X				
PA-127-01(6-21)-071613	7/16/2013	AA - Res1	Back yard	127	Composite	6- 21	X	X				
PA-349-03(6-14)-071613	7/16/2013	AA - Res2	Backyard	349	Composite	6- 14	X	X				
<b>August Field Event</b>												
PA-489-01(0-6)-081213	8/12/2013	Little Italy Reference Area	Front yard	489	Composite	0-6	X	X				
PA-489-01(6-18)-081213	8/12/2013	Little Italy Reference Area	Front yard	489	Composite	6-18	X	X				
PA-490-01(0-6)-081213	8/12/2013	Little Italy Reference Area	Front yard	490	Composite	0-6	X	X				
PA-491-01(0-6)-081213	8/12/2013	Little Italy Reference Area	Front yard	491	Composite	0-6	X	X				
PA-491-01(6-18)-081213	8/12/2013	Little Italy Reference Area	Front yard	491	Composite	6-18	X	X				
PA-491-01(6-18)-081213D	8/12/2013	Little Italy Reference Area	Front yard	491	Composite	6-18	X	X				
PA-492-01(0-6)-081313	8/13/2013	Little Italy Reference Area	Front yard	492	Composite	0-6	X	X				
PA-493-01(0-6)-081313	8/13/2013	Little Italy Reference Area	Front yard	493	Composite	0-6	X	X				
PA-494-01(0-6)-081313	8/13/2013	Little Italy Reference Area	Backyard Common Area	494	Composite	0-6	X	X				
PA-495-01(0-6)-081313	8/13/2013	AA - Res3	Backyard	495	Composite	0-6	X	X				
PA-495-01(6-24)-081313	8/13/2013	AA - Res3	Backyard	495	Composite	6-24	X	X				
PA-496-01(0-6)-081313	8/13/2013	AA - Res3	Backyard	496	Composite	0-6	X	X				
PA-497-01(0-6)-081313	8/13/2013	AA - Res3	Backyard	497	Composite	0-6	X	X				
PA-498-01(0-6)-081313	8/13/2013	AA - Res3	Backyard	498	Composite	0-6	X	X				
PA-498-01(0-6)-081313D	8/13/2013	AA - Res3	Backyard	498	Composite	0-6	X	X				
PA-498-01(6-15)-081313	8/13/2013	AA - Res3	Backyard	498	Composite	6-15	X	X				
PA-499-01(0-6)-081413	8/14/2013	AA - Res3	Frontyard	499	Composite	0-6	X	X				
PA-500-01(0-6)-081413	8/14/2013	Little Italy Reference Area	Backyard	500	Composite	0-6	X	X				
PA-500-01(6-24)-081413	8/14/2013	Little Italy Reference Area	Backyard	500	Composite	6-24	X	X				
PA-501-01(0-6)-081413	8/14/2013	Little Italy Reference Area	Frontyard	501	Composite	0-6	X	X				
PA-502-01(0-6)-081413	8/14/2013	Harrison Park Reference Area	Backyard	502	Composite	0-6	X	X				
PA-502-01(6-24)-081413	8/14/2013	Harrison Park Reference Area	Backyard	502	Composite	6-24	X	X				
PA-503-01(0-6)-081413	8/14/2013	Harrison Park Reference Area	Frontyard	503	Composite	0-6	X	X				
PA-503-01(6-24)-081413	8/14/2013	Harrison Park Reference Area	Frontyard	503	Composite	6-24	X	X				
PA-504-01(0-6)-081513	8/15/2013	AA - Res3	Frontyard	504	Composite	0-6	X	X				



**TABLE 3-1  
SOIL SAMPLING SUMMARY  
PILSEN SOIL ASSESSMENT AREA: RESIDENTIAL  
CHICAGO, COOK COUNTY, ILLINOIS**

Sample ID	Date Collected	Location of Property Sampled	Location of Sample on Property	Property ID	Sample Type	Depth (in bgs)	Analyses					
							Total Metals	Fine-Grained Lead	Bioavailable Lead	TCLP Lead	Total Lead	pH
PA-505-01(0-6)-081513	8/15/2013	AA - Res3	Backyard	505	Composite	0-6	X	X				
PA-505-01(0-6)-081513D	8/15/2013	AA - Res3	Backyard	505	Composite	0-6	X	X				
PA-506-01(0-6)-081513	8/15/2013	AA - Res3	Backyard	506	Composite	0-6	X	X				
PA-507-01(0-6)-081513	8/15/2013	Harrison Park Reference Area	Backyard	507	Composite	0-6	X	X				
PA-508-01(0-6)-081513	8/15/2013	AA - Res3	Backyard	508	Composite	0-6	X	X				
PA-508-01(6-24)-081513	8/15/2013	AA - Res3	Backyard	508	Composite	6-24	X	X				
PA-509-01(0-6)-081513	8/15/2013	AA - Res3	Backyard	509	Composite	0-6	X	X				
PA-510-01(0-6)-081513	8/15/2013	AA - Res3	Frontyard	510	Composite	0-6	X	X				
PA-511-01(0-6)-081613	8/16/2013	Little Italy Reference Area	Frontyard	511	Composite	0-6	X	X				
PA-512-01(0-6)-081613	8/16/2013	Little Italy Reference Area	Frontyard	512	Composite	0-6	X	X				
PA-513-01(0-6)-081613	8/16/2013	Little Italy Reference Area	Frontyard	513	Composite	0-6	X	X				
PA-513-01(0-6)-081613D	8/16/2013	Little Italy Reference Area	Frontyard	513	Composite	0-6	X	X				
PA-514-01(0-6)-081613	8/16/2013	AA - Res3	Backyard	514	Composite	0-6	X	X				
PA-514-01(6-24)-081613	8/16/2013	AA - Res3	Backyard	514	Composite	6-24	X	X				
PA-515-01(0-6)-081613	8/16/2013	AA - Res3	Frontyard	515	Composite	0-6	X	X				
PA-516-01(0-6)-081613	8/16/2013	Harrison Park Reference Area	Backyard	516	Composite	0-6	X	X				
PA-516-01(0-6)-081613D	8/16/2013	Harrison Park Reference Area	Backyard	516	Composite	0-6	X	X				
PA-516-01(6-18)-081613	8/16/2013	Harrison Park Reference Area	Backyard	516	Composite	6-18	X	X				

Notes:

% = Percent

AA = Assessment Area

bgs = Below ground surface

ID = Identification


in = Inches

TCLP = Toxicity characteristic leaching procedure

**TABLE 4-1  
RES1 SOIL SAMPLING RESULTS  
PILSEN SOIL ASSESSMENT AREA: RESIDENTIAL  
CHICAGO, COOK COUNTY, ILLINOIS**

			Field Sample ID	PA-272-01(0-6)-050113	PA-274-01(0-6)-050113	PA-274-02(0-6)-050113	PA-276-01(0-6)-050113	PA-276-01(0-6)-050113D	PA-291-01(0-6)-050113	PA-291-03(0-6)-050113	PA-180-01(0-6)-050213
			Property ID	272-01	274-01	274-02	276-01	276-01	291-01	291-03	180-01
			Location of Property Sampled	AA - Res1	AA - Res1	AA - Res1	AA - Res1	AA - Res1	AA - Res1	AA - Res1	AA - Res1
			Location of Sample on Property	Back yard	Back yard	Drip zone	Back yard	Back yard	Front yard	Garden	Yard (east 1/2 vacant lot)
			Sample Date	5/1/2013	5/1/2013	5/1/2013	5/1/2013	5/1/2013	5/1/2013	5/1/2013	5/2/2013
			Depth Interval (in bgs)	0-6	0-6	0-6	0-6	0-6	0-6	0-6	0-6
Parameter	40 CFR 261, Subpart C, 261.24 (b)	EPA RML for Res. Soil, HQ 3	Unit								
<b>Total Metals</b>											
Antimony	-	94	mg/kg	33 J	3.6 J	3.5 J	13 J	7.7 J	2.4 U	2.3 U	42 J
Cadmium	-	210	mg/kg	6.7	12	11	17	16	3.1	0.61	6
Chromium <sup>1</sup>	-	350000	mg/kg	21	55	41	49	62	24	19	28
Copper	-	9400	mg/kg	520	1100	960	1600	1700	100	26	300
Lead	-	400	mg/kg	<b>2000</b>	<b>1900</b>	<b>2000</b>	<b>2400</b>	<b>3600</b>	<b>500</b>	34	<b>810</b>
Lead, Fine-Grained	-	400	mg/kg	<b>1700</b>	<b>1500</b>	<b>1700</b>	<b>2200</b>	<b>2100</b>	<b>780</b>	46	<b>870</b>
Tin	-	140000	mg/kg	190	110	93	200	180	39	5.7 U	36
Zinc	-	70000	mg/kg	2500	4900	4800	6300	6400	620	100	2300
Mercury	-	28	mg/kg	0.75	0.72	0.65	1.2	1.4	0.39	0.028	0.36
<b>TCLP Metals</b>											
Lead, TCLP	5	-	mg/L	0.43	0.12	0.11	0.48	0.5	0.03	0.005 U	0.16
<b>Miscellaneous Analyses</b>											
In Vitro Lead Bioaccessibility	-	-	%	-	-	-	95.4	92.1	-	-	-
pH	-	-	SU	7.9	6.6	6.6	7.4	7.5	7.7	7.5	7.1

**Notes:**

 Shaded/bolded values indicate concentration exceeds the 2014 EPA RML for residential soil, hazard quotient 3

<sup>1</sup>RML is for chromium (III), no RML exists for total chromium

- = Not applicable or not analyzed

AA = Assessment Area

bgs = Below ground surface

HQ = Hazard quotient

ID = Identification

ft = feet

mg/kg = milligram per kilogram

RML = Removal Management Level

SU = Standard unit

U = Constituent not detected, reporting limit presented

**TABLE 4-1  
RES1 SOIL SAMPLING RESULTS  
PILSEN SOIL ASSESSMENT AREA: RESIDENTIAL  
CHICAGO, COOK COUNTY, ILLINOIS**

			Field Sample ID	PA-180-02(0-6)-050213	PA-183-01(0-6)-050213	PA-186-01(0-6)-050213	PA-186-02(0-6)-050213	PA-186-03(0-6)-050213	PA-186-04(0-6)-050213	PA-191-01(0-6)-050213	PA-191-01(0-6)-050213D
			Property ID	180-02	183-01	186-01	186-02	186-03	186-04	191-01	191-01
			Location of Property Sampled	AA - Res1	AA - Res1	AA - Res1	AA - Res1	AA - Res1	AA - Res1	AA - Res1	AA - Res1
			Location of Sample on Property	Yard (west 1/2 vacant lot)	Garden	Front yard	Back yard	Back yard - Replicate	Back yard - Replicate	Back yard	Back yard
			Sample Date	5/2/2013	5/2/2013	5/2/2013	5/2/2013	5/2/2013	5/2/2013	5/2/2013	5/2/2013
			Depth Interval (in bgs)	0-6	0-6	0-6	0-6	0-6	0-6	0-6	0-6
Parameter	40 CFR 261, Subpart C, 261.24 (b)	EPA RML for Res. Soil, HQ 3	Unit								
<b>Total Metals</b>											
Antimony	-	94	mg/kg	2.2 U	5.3 J	2.2 U	2.3 U	-	-	39 J	4.4 J
Cadmium	-	210	mg/kg	6.5	8.5	1.9	2	-	-	14	16
Chromium <sup>1</sup>	-	350000	mg/kg	18	32	23	19	-	-	28	37
Copper	-	9400	mg/kg	330	800	180	160	-	-	1100	1400
Lead	-	400	mg/kg	<b>3000</b>	<b>1300</b>	360	320	<b>730</b>	<b>500</b>	<b>2000</b>	<b>2400</b>
Lead, Fine-Grained	-	400	mg/kg	<b>1500</b>	<b>1200</b>	<b>600</b>	<b>760</b>	-	-	<b>1900</b>	<b>2000</b>
Tin	-	140000	mg/kg	140	82	19	20	-	-	120	160
Zinc	-	70000	mg/kg	2800	3600	970	900	-	-	7200	6800
Mercury	-	28	mg/kg	0.35	0.63	0.21	0.3	-	-	1	1
<b>TCLP Metals</b>											
Lead, TCLP	5	-	mg/L	0.66	0.2	0.2	0.056	-	-	1.1	1
<b>Miscellaneous Analyses</b>											
In Vitro Lead Bioaccessibility	-	-	%	-	-	-	-	-	-	-	-
pH	-	-	SU	8	7.2	8	7.8	-	-	7.7	7.6

**Notes:**

Shaded/bolded values indicate concentration exceeds the 2014 EPA RML for residential soil, hazard quotient 3

<sup>1</sup>RML is for chromium (III), no RML exists for total chromium

- = Not applicable or not analyzed

AA = Assessment Area

bgs = Below ground surface

HQ = Hazard quotient

ID = Identification

ft = feet

mg/kg = milligram per kilogram

RML = Removal Management Level

SU = Standard unit

U = Constituent not detected, reporting limit presented

**TABLE 4-1  
RES1 SOIL SAMPLING RESULTS  
PILSEN SOIL ASSESSMENT AREA: RESIDENTIAL  
CHICAGO, COOK COUNTY, ILLINOIS**

			Field Sample ID	PA-122-01(0-6)-050313	PA-122-02(0-6)-050313	PA-127-01(0-6)-050313	PA-193-01(0-6)-050313	PA-370-01(0-6)-050713	PA-370-01(0-6)-050713D	PA-370-02(0-6)-050713	PA-370-02(6-12)-050713
			Property ID	122-01	122-02	127-01	193-01	370-01	370-01	370-02	370-02
			Location of Property Sampled	AA - Res1	AA - Res1	AA - Res1	AA - Res1	AA - Res1	AA - Res1	AA - Res1	AA - Res1
			Location of Sample on Property	Back yard	Garden	Back yard	Back yard	Backyard	Backyard	Garden	Garden
			Sample Date	5/3/2013	5/3/2013	5/3/2013	5/3/2013	5/7/2013	5/7/2013	5/7/2013	5/7/2013
			Depth Interval (in bgs)	0-6	0-6	0-6	0-6	0-6	0-6	0-6	6-12
Parameter	40 CFR 261, Subpart C, 261.24 (b)	EPA RML for Res. Soil, HQ 3	Unit								
<b>Total Metals</b>											
Antimony	-	94	mg/kg	2.3 U	3 J	2.6 J	2.3 U	4.6 U	4.8 U	5 U	4.5 U
Cadmium	-	210	mg/kg	6.7	4.5	7.6	2.3	6.9	5.5	6.2	8.7
Chromium <sup>1</sup>	-	350000	mg/kg	36	25	26	30	44	46	68	41
Copper	-	9400	mg/kg	540	290	520	210	150	150	220	310
Lead	-	400	mg/kg	<b>1900</b>	<b>920</b>	<b>2500</b>	<b>580</b>	<b>700</b>	<b>950</b>	<b>1700</b>	<b>1700</b>
Lead, Fine-Grained	-	400	mg/kg	<b>2700</b>	<b>1400</b>	<b>2700</b>	<b>840</b>	<b>1200</b>	<b>1200</b>	<b>1000</b>	<b>2000</b>
Tin	-	140000	mg/kg	57	38	61	19	28	25	38	49
Zinc	-	70000	mg/kg	3000	2400	3200	1000	1600	1100	1600	2300
Mercury	-	28	mg/kg	0.76	0.59	2.1	0.092	0.43	0.48	0.77	1.7
<b>TCLP Metals</b>											
Lead, TCLP	5	-	mg/L	0.49	0.47	0.94	0.019	0.33	0.27	0.4	0.36
<b>Miscellaneous Analyses</b>											
In Vitro Lead Bioaccessibility	-	-	%	68	-	74.6	-	-	-	-	-
pH	-	-	SU	7	7.4	8.1	7.5	7.7	7.8	7.7	7.7

**Notes:**

Shaded/bolded values indicate concentration exceeds the 2014 EPA RML for residential soil, hazard quotient 3

<sup>1</sup>RML is for chromium (III), no RML exists for total chromium

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bgs = Below ground surface

HQ = Hazard quotient

ID = Identification

ft = feet

mg/kg = milligram per kilogram

RML = Removal Management Level

SU = Standard unit

U = Constituent not detected, reporting limit presented

**TABLE 4-1  
RES1 SOIL SAMPLING RESULTS  
PILSEN SOIL ASSESSMENT AREA: RESIDENTIAL  
CHICAGO, COOK COUNTY, ILLINOIS**

			Field Sample ID	PA-375-01(0-6)-050713	PA-375-02(0-12)-050713	PA-122-01(18-24)-071513	PA-122-01(18-24)-071513D	PA-122-01(6-18)-071513	PA-276-01(18-24)-071513	PA-276-01(6-18)-071513	PA-127-01(6-21)-071613
			Property ID	375-01	375-02	122-01	122-01	122-01	276-01	276-01	127-01
			Location of Property Sampled	AA - Res1	AA - Res1	AA - Res1	AA - Res1	AA - Res1	AA - Res1	AA - Res1	AA - Res1
			Location of Sample on Property	Backyard	Garden	Backyard	Backyard	Backyard	Backyard	Backyard	Backyard
			Sample Date	5/7/2013	5/7/2013	7/15/2013	7/15/2013	7/15/2013	7/15/2013	7/15/2013	7/16/2013
			Depth Interval (in bgs)	0-6	0-12	18-24	18-24	6-18	18-24	6-18	6-21
Parameter	40 CFR 261, Subpart C, 261.24 (b)	EPA RML for Res. Soil, HQ 3	Unit								
<b>Total Metals</b>											
Antimony	-	94	mg/kg	4.9 U	25 U	5 U	4.6 U	4.9 U	5.5 J	6.6 J	4.4 UJ
Cadmium	-	210	mg/kg	11	14	2.6	1.5	9.2	4.3	13	7.9
Chromium <sup>1</sup>	-	350000	mg/kg	40	49	25 U	23 U	25 U	24 U	26 U	21
Copper	-	9400	mg/kg	680	750	110	75	590	370	1100	420
Lead	-	400	mg/kg	<b>1800</b>	<b>2500</b>	<b>470</b>	250	<b>1900</b>	<b>550</b>	<b>1700</b>	<b>2500</b>
Lead, Fine-Grained	-	400	mg/kg	<b>2700</b>	<b>3000</b>	<b>420</b>	<b>440</b>	<b>1600</b>	<b>480</b>	<b>2000</b>	<b>4200</b>
Tin	-	140000	mg/kg	84	130	32	22	130	440	130	67
Zinc	-	70000	mg/kg	2900	3300	710	430	2600	1600	4700	2700
Mercury	-	28	mg/kg	1	1.3	1.3	0.86	1.4	0.33	0.72	2.6
<b>TCLP Metals</b>											
Lead, TCLP	5	-	mg/L	0.16	0.4	-	-	-	-	-	-
<b>Miscellaneous Analyses</b>											
In Vitro Lead Bioaccessibility	-	-	%	77.8	-	-	-	-	-	-	-
pH	-	-	SU	7	7.3	-	-	-	-	-	-

**Notes:**

Shaded/bolded values indicate concentration exceeds the 2014 EPA RML for residential soil, hazard quotient 3

<sup>1</sup>RML is for chromium (III), no RML exists for total chromium

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AA = Assessment Area

bgs = Below ground surface

HQ = Hazard quotient

ID = Identification

ft = feet

mg/kg = milligram per kilogram

RML = Removal Management Level


SU = Standard unit

U = Constituent not detected, reporting limit presented

**TABLE 4-2  
RES2 SOIL SAMPLING RESULTS  
PILSEN SOIL ASSESSMENT AREA: RESIDENTIAL  
CHICAGO, COOK COUNTY, ILLINOIS**

			Field Sample ID	PA-163-01(0-6)-050113	PA-163-02(0-6)-050113	PA-163-03(0-6)-050113	PA-104-01(0-6)-050213	PA-104-02(0-6)-050213	PA-105-01(0-6)-050213	PA-105-02(0-6)-050213	PA-105-03(0-6)-050213
			Property ID	163-01	163-02	163-03	104-01	104-02	105-01	105-02	105-03
			Location of Property Sampled	AA - Res2	AA - Res2	AA - Res2	AA - Res2	AA - Res2	AA - Res2	AA - Res2	AA - Res2
			Location of Sample on Property	Garden	Garden	Drip Zone	Front yard	Back yard	Front yard	Back yard	Replicate - Back yard
			Sample Date	5/1/2013	5/1/2013	5/1/2013	5/2/2013	5/2/2013	5/2/2013	5/2/2013	5/2/2013
			Depth Interval (in bgs)	0-6	0-6	0-6	0-6	0-6	0-6	0-6	0-6
Parameter	40 CFR 261, Subpart C, 261.24 (b)	EPA RML for Res. Soil, HQ 3	Unit								
<b>Total Metals</b>											
Antimony	-	94	mg/kg	2.4 U	2.4 U	2.4 U	2.3 J	2.8 J	2.2 UJ	2.3 U	-
Cadmium	-	210	mg/kg	0.6 U	0.89	0.82	6	7.6	2.1	2.6	-
Chromium <sup>1</sup>	-	350000	mg/kg	11	19	16	24	33	23	28	-
Copper	-	9400	mg/kg	23	32	29	190	340	99	240	-
Lead	-	400	mg/kg	19	130	130	<b>930</b>	<b>1400</b>	<b>640</b>	<b>990</b>	<b>810</b>
Lead, Fine-Grained	-	400	mg/kg	22	160	220	<b>1100</b>	<b>1300</b>	<b>650</b>	<b>2100</b>	-
Tin	-	140000	mg/kg	6 U	13	6.3	34	53	30 J	21	-
Zinc	-	70000	mg/kg	76	130	140	1500	2400	930	1100	-
Mercury	-	28	mg/kg	0.022 U	0.094	0.058	0.55	0.57	0.45	0.48	-
<b>TCLP Metals</b>											
Lead, TCLP	5	-	mg/L	0.005 U	0.014	0.005 U	0.42	0.36	0.23	0.25	-
<b>Miscellaneous Analyses</b>											
In Vitro Lead Bioaccessibility	-	-	%	-	-	-	-	-	-	-	-
pH	-	-	SU	7.9	8.1	8	7.9	6.2	7.7	7.5	-

**Notes:**

 Shaded/bolded values indicate concentration exceeds the 2014 EPA RML for residential soil, hazard quotient 3

<sup>1</sup>RML is for chromium (III), no RML exists for total chromium

- = Not applicable or not analyzed

AA = Assessment Area

bgs = Below ground surface

HQ = Hazard quotient

ID = Identification

ft = feet

mg/kg = milligram per kilogram

RML = Removal Management Level


SU = Standard unit

U = Constituent not detected, reporting limit presented

**TABLE 4-2  
RES2 SOIL SAMPLING RESULTS  
PILSEN SOIL ASSESSMENT AREA: RESIDENTIAL  
CHICAGO, COOK COUNTY, ILLINOIS**

			Field Sample ID	PA-105-04(0-6)-050213	PA-123-01(0-12)-050313	PA-125-01(0-6)-050313	PA-125-02(0-6)-050313	PA-125-03(0-12)-050313	PA-125-04(0-6)-050313	PA-125-05(0-6)-050313	PA-141-01(0-6)-050713
			Property ID	105-04	123-01	125-01	125-02	125-03	125-04	125-05	141-01
			Location of Property Sampled	AA - Res2	AA - Res2	AA - Res2	AA - Res2	AA - Res2	AA - Res2	AA - Res2	AA - Res2
			Location of Sample on Property	Replicate - Back yard	Garden	Yard (west 1/2 lot)	Yard (east 1/2 lot)	Garden	Replicate - Back yard	Replicate - Back yard	Yard (west 1/2 lot)
			Sample Date	5/2/2013	5/3/2013	5/3/2013	5/3/2013	5/3/2013	5/3/2013	5/3/2013	5/7/2013
			Depth Interval (in bgs)	0-6	0-12	0-6	0-6	0-12	0-6	0-6	0-6
Parameter	40 CFR 261, Subpart C, 261.24 (b)	EPA RML for Res. Soil, HQ 3	Unit								
<b>Total Metals</b>											
Antimony	-	94	mg/kg	-	2.4 U	4.7 J	3.1 J	2.6 J	-	-	4.7 U
Cadmium	-	210	mg/kg	-	5.5	10	7.4	4.8	-	-	3.3
Chromium <sup>1</sup>	-	350000	mg/kg	-	27	61	51	29	-	-	33
Copper	-	9400	mg/kg	-	320	410	280	230	-	-	200
Lead	-	400	mg/kg	<b>1500</b>	<b>1100</b>	<b>1500</b>	<b>1100</b>	<b>700</b>	<b>1200</b>	<b>1400</b>	<b>860</b>
Lead, Fine-Grained	-	400	mg/kg	-	<b>1400</b>	<b>1700</b>	<b>910</b>	<b>950</b>	-	-	<b>760</b>
Tin	-	140000	mg/kg	-	46	63	50	31	-	-	39
Zinc	-	70000	mg/kg	-	1900	2900	2200	1500	-	-	700
Mercury	-	28	mg/kg	-	0.86	1.1	0.72	0.41	-	-	0.64
<b>TCLP Metals</b>											
Lead, TCLP	5	-	mg/L	-	0.16	0.37	0.32	0.09	-	-	0.22
<b>Miscellaneous Analyses</b>											
In Vitro Lead Bioaccessibility	-	-	%	-	-	-	-	-	-	-	-
pH	-	-	SU	-	7.8	6.7	8.2	7.7	7.5	7.4	8.1

**Notes:**

 Shaded/bolded values indicate concentration exceeds the 2014 EPA RML for residential soil, hazard quotient 3

<sup>1</sup>RML is for chromium (III), no RML exists for total chromium

- = Not applicable or not analyzed

AA = Assessment Area

bgs = Below ground surface

HQ = Hazard quotient

ID = Identification

ft = feet

mg/kg = milligram per kilogram

RML = Removal Management Level


SU = Standard unit

U = Constituent not detected, reporting limit presented

**TABLE 4-2  
RES2 SOIL SAMPLING RESULTS  
PILSEN SOIL ASSESSMENT AREA: RESIDENTIAL  
CHICAGO, COOK COUNTY, ILLINOIS**

			Field Sample ID	PA-141-02(0-6)-050713	PA-141-03(0-6)-050713	PA-349-01(0-6)-050713	PA-349-02(0-12)-050713	PA-349-03(0-6)-050713	PA-351-01(0-6)-050713	PA-369-01(0-2)-050713	PA-369-01(0-6)-050713
			Property ID	141-02	141-03	349-01	349-02	349-03	351-01	369-01	369-01
			Location of Property Sampled	AA - Res2	AA - Res2	AA - Res2	AA - Res2	AA - Res2	AA - Res2	AA - Res2	AA - Res2
			Location of Sample on Property	Yard (east 1/2 lot)	Garden	Front yard	Garden	Backyard	Garden	Backyard	Backyard
			Sample Date	5/7/2013	5/7/2013	5/7/2013	5/7/2013	5/7/2013	5/7/2013	5/7/2013	5/7/2013
			Depth Interval (in bgs)	0-6	0-6	0-6	0-12	0-6	0-6	0-2	0-6
Parameter	40 CFR 261, Subpart C, 261.24 (b)	EPA RML for Res. Soil, HQ 3	Unit								
<b>Total Metals</b>											
Antimony	-	94	mg/kg	4.6 U	4.6 U	5 U	5.2 U	4.2 U	4.3 UJ	4.8 U	5.3 U
Cadmium	-	210	mg/kg	3.5	5.9	5.4	2	2.5	1.1 U	1.2 U	7.5
Chromium <sup>1</sup>	-	350000	mg/kg	40	110	29	21	27	14	24 U	43
Copper	-	9400	mg/kg	190	220	250	100	99	58 J	100	440
Lead	-	400	mg/kg	<b>1600</b>	<b>3300</b>	<b>890</b>	<b>630</b>	<b>1400</b>	390	<b>480</b>	<b>1500</b>
Lead, Fine-Grained	-	400	mg/kg	<b>1200</b>	<b>1400</b>	<b>1400</b>	<b>610</b>	<b>1500</b>	<b>580</b>	<b>890</b>	<b>2500</b>
Tin	-	140000	mg/kg	26	43	28	17	19	11 U	12 U	52
Zinc	-	70000	mg/kg	970	1500	1800	650	930	490	560	1700
Mercury	-	28	mg/kg	0.95	0.56	0.46	0.25	0.49	0.28	0.23	0.73
<b>TCLP Metals</b>											
Lead, TCLP	5	-	mg/L	0.25	0.56	0.13	0.18	0.55	0.75	0.05	0.26
<b>Miscellaneous Analyses</b>											
In Vitro Lead Bioaccessibility	-	-	%	-	-	-	-	-	-	-	-
pH	-	-	SU	7.7	8	7	8	7.7	7.8	6.3	6.7

**Notes:**

 Shaded/bolded values indicate concentration exceeds the 2014 EPA RML for residential soil, hazard quotient 3

<sup>1</sup>RML is for chromium (III), no RML exists for total chromium

- = Not applicable or not analyzed

AA = Assessment Area

bgs = Below ground surface

HQ = Hazard quotient

ID = Identification

ft = feet

mg/kg = milligram per kilogram

RML = Removal Management Level

SU = Standard unit


U = Constituent not detected, reporting limit presented



**TABLE 4-2  
RES2 SOIL SAMPLING RESULTS  
PILSEN SOIL ASSESSMENT AREA: RESIDENTIAL  
CHICAGO, COOK COUNTY, ILLINOIS**

			Field Sample ID	PA-369-02(0-12)-050713	PA-369-03,04(0-6)-050713	PA-371-01(0-6)-050713	PA-371-02(0-6)-050713	PA-371-02(0-6)-050713D	PA-84-01(0-6)-050813	PA-84-02(0-6)-050813	PA-84-02(0-6)-050813D
			Property ID	369-02	369-03,04	371-01	371-02	371-02	84-01	84-02	84-02
			Location of Property Sampled	AA - Res2	AA - Res2	AA - Res2	AA - Res2	AA - Res2	AA - Res2	AA - Res2	AA - Res2
			Location of Sample on Property	Garden	Front yard	Backyard	Front yard	Front yard	Front yard	Backyard	Backyard
			Sample Date	5/7/2013	5/7/2013	5/7/2013	5/7/2013	5/7/2013	5/8/2013	5/8/2013	5/8/2013
			Depth Interval (in bgs)	0-12	0-6	0-6	0-6	0-6	0-6	0-6	0-6
Parameter	40 CFR 261, Subpart C, 261.24 (b)	EPA RML for Res. Soil, HQ 3	Unit								
<b>Total Metals</b>											
Antimony	-	94	mg/kg	4.7 U	4.6 U	5.1 U	5.3 U	5.3 U	4.5 U	4.5 U	4.5 U
Cadmium	-	210	mg/kg	6.9	5.8	7.7	1.3 U	1.3 U	2	4.5	3.6
Chromium <sup>1</sup>	-	350000	mg/kg	40	24	40	14	14	19	31	27
Copper	-	9400	mg/kg	560	410	450	54	51	56	110	82
Lead	-	400	mg/kg	<b>1700</b>	<b>2300</b>	<b>1800</b>	320	<b>410</b>	<b>600</b>	<b>1100</b>	<b>740</b>
Lead, Fine-Grained	-	400	mg/kg	<b>2100</b>	<b>3500</b>	<b>2200</b>	<b>450</b>	<b>460</b>	<b>680</b>	<b>1100</b>	<b>920</b>
Tin	-	140000	mg/kg	87	49	49	13 U	13 U	30	26	14
Zinc	-	70000	mg/kg	3000	2700	2800	360	330	470	880	700
Mercury	-	28	mg/kg	1	1.1	2	0.31	0.18	0.48	0.35	0.27
<b>TCLP Metals</b>											
Lead, TCLP	5	-	mg/L	0.41	1.2	0.24	0.024	0.033	0.087	0.15	0.092
<b>Miscellaneous Analyses</b>											
In Vitro Lead Bioaccessibility	-	-	%	-	-	-	-	-	-	-	-
pH	-	-	SU	7.2	7.5	6.4	7.3	7.4	8	7.7	7.9

**Notes:**

 Shaded/bolded values indicate concentration exceeds the 2014 EPA RML for residential soil, hazard quotient 3

<sup>1</sup>RML is for chromium (III), no RML exists for total chromium

- = Not applicable or not analyzed

AA = Assessment Area

bgs = Below ground surface

HQ = Hazard quotient

ID = Identification

ft = feet

mg/kg = milligram per kilogram

RML = Removal Management Level


SU = Standard unit

U = Constituent not detected, reporting limit presented

**TABLE 4-2  
RES2 SOIL SAMPLING RESULTS  
PILSEN SOIL ASSESSMENT AREA: RESIDENTIAL  
CHICAGO, COOK COUNTY, ILLINOIS**

			Field Sample ID	PA-84-04(0-6)-050813	PA-84-05(0-6)-050813	PA-92-01(0-6)-050813	PA-92-02(0-12)-050813	PA-466-05(0-6)-050913	PA-467-01(0-6)-050913	PA-468-01(0-6)-050913	PA-14-01(0-6)-050913
			Property ID	84-04	84-05	92-01	92-02	466-05	467-01	468-01	14-01
			Location of Property Sampled	AA - Res2	AA - Res2	AA - Res2	AA - Res2	AA - Res2	AA - Res2	AA - Res2	AA - Res2
			Location of Sample on Property	Replicate - Front yard	Replicate - Front yard	Backyard	Garden	Drip Zone	Backyard	Backyard	Backyard
			Sample Date	5/8/2013	5/8/2013	5/8/2013	5/8/2013	5/8/2013	5/8/2013	5/8/2013	5/9/2013
			Depth Interval (in bgs)	0-6	0-6	0-6	0-12	0-6	0-6	0-6	0-6
Parameter	40 CFR 261, Subpart C, 261.24 (b)	EPA RML for Res. Soil, HQ 3	Unit								
<b>Total Metals</b>											
Antimony	-	94	mg/kg	-	-	4.5 U	4.8 U	5 U	5.2 J	5.2 J	4.7 U
Cadmium	-	210	mg/kg	-	-	4.9	2	8.5	7	5.9	1.2 U
Chromium <sup>1</sup>	-	350000	mg/kg	-	-	25	15	31	55	36	18
Copper	-	9400	mg/kg	-	-	170	83	460	250	290	55
Lead	-	400	mg/kg	<b>530</b>	360	<b>880</b>	400	<b>2400</b>	<b>1400</b>	<b>1300</b>	140
Lead, Fine-Grained	-	400	mg/kg	-	-	<b>1000</b>	250	<b>3100</b>	<b>1600</b>	<b>960</b>	200
Tin	-	140000	mg/kg	-	-	140	35	58	34	30	13
Zinc	-	70000	mg/kg	-	-	1300	550	2400	1600	1600	220
Mercury	-	28	mg/kg	-	-	0.76	0.25	2.1	0.62	0.64	0.093
<b>TCLP Metals</b>											
Lead, TCLP	5	-	mg/L	-	-	0.12	0.065	0.78	0.097	0.066	0.026
<b>Miscellaneous Analyses</b>											
In Vitro Lead Bioaccessibility	-	-	%	-	-	-	-	-	-	-	-
pH	-	-	SU	-	-	7.4	7.7	7.1	6.7	7.1	7.3

**Notes:**

 Shaded/bolded values indicate concentration exceeds the 2014 EPA RML for residential soil, hazard quotient 3

<sup>1</sup>RML is for chromium (III), no RML exists for total chromium

- = Not applicable or not analyzed

AA = Assessment Area

bgs = Below ground surface

HQ = Hazard quotient

ID = Identification

ft = feet

mg/kg = milligram per kilogram

RML = Removal Management Level


SU = Standard unit

U = Constituent not detected, reporting limit presented

**TABLE 4-2  
RES2 SOIL SAMPLING RESULTS  
PILSEN SOIL ASSESSMENT AREA: RESIDENTIAL  
CHICAGO, COOK COUNTY, ILLINOIS**

			Field Sample ID	PA-14-02(0-6)-050913	PA-14-03(0-6)-050913	PA-304-01(0-6)-050913	PA-466-01(0-6)-050913	PA-466-02(0-6)-050913	PA-466-03(0-6)-050913	PA-466-04(0-6)-050913	PA-470-01(0-6)-070913
			Property ID	14-02	14-03	304-01	466-01	466-02	466-03	466-04	470-01
			Location of Property Sampled	AA - Res2	AA - Res2	AA - Res2	AA - Res2	AA - Res2	AA - Res2	AA - Res2	AA - Res2
			Location of Sample on Property	Front yard	Drip Zone	Backyard	Yard (east 1/2 lot)	Yard (west 1/2 lot)	Replicate - yard (east 1/2 lot)	Replicate - yard (east 1/2 lot)	Backyard
			Sample Date	5/9/2013	5/9/2013	5/9/2013	5/9/2013	5/9/2013	5/9/2013	5/9/2013	7/9/2013
			Depth Interval (in bgs)	0-6	0-6	0-6	0-6	0-6	0-6	0-6	0-6
Parameter	40 CFR 261, Subpart C, 261.24 (b)	EPA RML for Res. Soil, HQ 3	Unit								
<b>Total Metals</b>											
Antimony	-	94	mg/kg	5.9 U	5 U	4.2 UJ	4.5 U	4.3 U	-	-	5.2 U
Cadmium	-	210	mg/kg	1.5 U	1.7	1 U	3.4	2.8	-	-	12
Chromium <sup>1</sup>	-	350000	mg/kg	24	15	13	23	47	-	-	39
Copper	-	9400	mg/kg	96	110	27	210	120	-	-	430
Lead	-	400	mg/kg	<b>480</b>	<b>710</b>	58	<b>730</b>	<b>650</b>	<b>700</b>	<b>580</b>	<b>3200</b>
Lead, Fine-Grained	-	400	mg/kg	<b>560</b>	<b>980</b>	77	<b>870</b>	<b>750</b>	-	-	<b>3300</b>
Tin	-	140000	mg/kg	15 U	12 U	10 U	25	23	-	-	120
Zinc	-	70000	mg/kg	520	530	130	900	780	-	-	3500
Mercury	-	28	mg/kg	0.2	0.2	0.067	0.59	0.52	-	-	1.2
<b>TCLP Metals</b>											
Lead, TCLP	5	-	mg/L	0.074	0.37	0.0092 U	0.04	0.061	-	-	-
<b>Miscellaneous Analyses</b>											
In Vitro Lead Bioaccessibility	-	-	%	-	-	-	63.9	-	-	-	-
pH	-	-	SU	7.4	7.4	7.6	7.8	7.9	-	-	-

**Notes:**

 Shaded/bolded values indicate concentration exceeds the 2014 EPA RML for residential soil, hazard quotient 3

<sup>1</sup>RML is for chromium (III), no RML exists for total chromium

- = Not applicable or not analyzed

AA = Assessment Area

bgs = Below ground surface

HQ = Hazard quotient

ID = Identification

ft = feet

mg/kg = milligram per kilogram

RML = Removal Management Level


SU = Standard unit

U = Constituent not detected, reporting limit presented

**TABLE 4-2  
RES2 SOIL SAMPLING RESULTS  
PILSEN SOIL ASSESSMENT AREA: RESIDENTIAL  
CHICAGO, COOK COUNTY, ILLINOIS**

			Field Sample ID	PA-92-01(12-24)-070913	PA-92-01(6-12)-070913	PA-483-01(0-6)-071213	PA-483-01(6-24)-071213	PA-104-01(12-24)-071613	PA-104-01(6-12)-071613	PA-349-03(6-14)-071613
			Property ID	92-01	92-01	483-01	483-01	104-01	104-01	349-03
			Location of Property Sampled	AA - Res2	AA - Res2	AA - Res2	AA - Res2	AA - Res2	AA - Res2	AA - Res2
			Location of Sample on Property	Backyard	Backyard	Backyard	Backyard	Front yard	Front yard	Backyard
			Sample Date	7/9/2013	7/9/2013	7/12/2013	7/12/2013	7/16/2013	7/16/2013	7/16/2013
			Depth Interval (in bgs)	12-24	6-12	0-6	6-24	12-24	6-12	6-14
Parameter	40 CFR 261, Subpart C, 261.24 (b)	EPA RML for Res. Soil, HQ 3	Unit							
<b>Total Metals</b>										
Antimony	-	94	mg/kg	4.3 U	4.7 U	4.1 U	4 U	4.7 U	4.6 U	4.1 U
Cadmium	-	210	mg/kg	3.2	2.3	1.2	1 U	4.9	5.8	2
Chromium <sup>1</sup>	-	350000	mg/kg	23	18	17	11	24 U	23 U	20 U
Copper	-	9400	mg/kg	140	88	35	17	67	190	63
Lead	-	400	mg/kg	<b>890</b>	<b>550</b>	200	140	<b>500</b>	<b>1200</b>	<b>680</b>
Lead, Fine-Grained	-	400	mg/kg	<b>850</b>	<b>920</b>	320	220	<b>470</b>	<b>890</b>	<b>990</b>
Tin	-	140000	mg/kg	35	22	10 U	10 U	17	68	14
Zinc	-	70000	mg/kg	1000	650	180	120	630	1100	390
Mercury	-	28	mg/kg	2.5	1.4	0.074	0.061	0.31	0.9	0.31
<b>TCLP Metals</b>										
Lead, TCLP	5	-	mg/L	-	-	-	-	-	-	-
<b>Miscellaneous Analyses</b>										
In Vitro Lead Bioaccessibility	-	-	%	-	-	-	-	-	-	-
pH	-	-	SU	-	-	-	-	-	-	-

**Notes:**

 Shaded/bolded values indicate concentration exceeds the 2014 EPA RML for residential soil, hazard quotient 3

<sup>1</sup>RML is for chromium (III), no RML exists for total chromium

- = Not applicable or not analyzed

AA = Assessment Area

bgs = Below ground surface

HQ = Hazard quotient

ID = Identification

ft = feet

mg/kg = milligram per kilogram

RML = Removal Management Level


SU = Standard unit

U = Constituent not detected, reporting limit presented

**TABLE 4-3  
RES3 SOIL SAMPLING RESULTS  
PILSEN SOIL ASSESSMENT AREA: RESIDENTIAL  
CHICAGO, COOK COUNTY, ILLINOIS**

			Field Sample ID	PA-464-01(0-6)-050813	PA-464-02(0-6)-050813	PA-464-03(0-12)-050813	PA-464-04(0-12)-050813	PA-464-04(0-12)-050813D	PA-464-05(0-6)-050813	PA-464-06(0-6)-050813
			Property ID	464-01	464-02	464-03	464-04	464-04	464-05	464-06
			Location of Property Sampled	AA - Res-3	AA - Res-3	AA - Res-3	AA - Res-3	AA - Res-3	AA - Res-3	AA - Res-3
			Location of Sample on Property	Yard (east 1/2 lot)	Yard (west 1/2 lot)	Garden	Garden	Garden	Replicate - yard (east 1/2 lot)	Replicate - yard (east 1/2 lot)
			Sample Date	5/8/2013	5/8/2013	5/8/2013	5/8/2013	5/8/2013	5/8/2013	5/8/2013
			Depth Interval (in bgs)	0-6	0-6	0-12	0-12	0-12	0-6	0-6
Parameter	40 CFR 261, Subpart C, 261.24 (b)	EPA RML for Res. Soil, HQ 3	Unit							
<b>Total Metals</b>										
Antimony	-	94	mg/kg	8.6 J	4.3 U	4.8	4.8 U	4.9 U	-	-
Cadmium	-	210	mg/kg	3.2	1.9	9.4	38	35	-	-
Chromium <sup>1</sup>	-	350000	mg/kg	21	22	72	340	300	-	-
Copper	-	9400	mg/kg	170	74	150	260	240	-	-
Lead	-	400	mg/kg	<b>910</b>	240	<b>670</b>	<b>450</b>	390	<b>1100</b>	<b>510</b>
Lead, Fine-Grained	-	400	mg/kg	<b>1300</b>	350	<b>990</b>	<b>500</b>	<b>510</b>	-	-
Tin	-	140000	mg/kg	36	15	29	38	33	-	-
Zinc	-	70000	mg/kg	750	260	620	940	870	-	-
Mercury	-	28	mg/kg	0.45	0.18	0.45	2	1.5	-	-
<b>TCLP Metals</b>										
Lead, TCLP	5	-	mg/L	0.058	0.016	0.16	0.036	0.036	-	-
<b>Miscellaneous Analyses</b>										
In Vitro Lead Bioaccessibility	-	-	%	-	-	-	-	-	-	-
pH	-	-	SU	7.1	7.4	7.7	7.8	7.7	-	-

**Notes:**

 Shaded/bolded values indicate concentration exceeds the 2014 EPA RML for residential soil, hazard quotient 3

<sup>1</sup>RML is for chromium (III), no RML exists for total chromium

- = Not applicable or not analyzed

AA = Assessment Area

bgs = Below ground surface

HQ = Hazard quotient

ID = Identification

ft = feet

mg/kg = milligram per kilogram

RML = Removal Management Level


SU = Standard unit

U = Constituent not detected, reporting limit presented

**TABLE 4-3  
RES3 SOIL SAMPLING RESULTS  
PILSEN SOIL ASSESSMENT AREA: RESIDENTIAL  
CHICAGO, COOK COUNTY, ILLINOIS**

			Field Sample ID	PA-465-01(0-6)-050913	PA-465-01(0-6)-050913D	PA-465-02,03,04(0-12)-050913	PA-469-01(0-6)-051013	PA-469-01(0-6)-051013D	PA-469-02(0-6)-051013	PA-469-03(0-6)-051013
			Property ID	465-01	465-01	465-02,03,04	469-01	469-01	469-02	469-03
			Location of Property Sampled	AA - Res-3	AA - Res-3	AA - Res-3	AA - Res-3	AA - Res-3	AA - Res-3	AA - Res-3
			Location of Sample on Property	Yard	Yard	Garden	Field - northeast quadrant	Field - northwest quadrant	Field - northeast quadrant	Field - southwest quadrant
			Sample Date	5/9/2013	5/9/2013	5/9/2013	5/10/2013	5/10/2013	5/10/2013	5/10/2013
			Depth Interval (in bgs)	0-6	0-6	0-12	0-6	0-6	0-6	0-6
Parameter	40 CFR 261, Subpart C, 261.24 (b)	EPA RML for Res. Soil, HQ 3	Unit							
<b>Total Metals</b>										
Antimony	-	94	mg/kg	4.7 U	4.4 U	4.7 U	4.5 U	4.8 U	4.6 U	4.9 U
Cadmium	-	210	mg/kg	1.7	1.5	1.5	1.1 U	1.2 U	1.1 U	1.2 U
Chromium <sup>1</sup>	-	350000	mg/kg	46	56	26	35	23	17	19
Copper	-	9400	mg/kg	84	87	53	56	49	44	50
Lead	-	400	mg/kg	370	340	350	130	120	100	120
Lead, Fine-Grained	-	400	mg/kg	400	400	400	160	150	170	180
Tin	-	140000	mg/kg	17	14	13	14 UJ	13 UJ	13 UJ	17 UJ
Zinc	-	70000	mg/kg	300	310	310	180	170	170	160
Mercury	-	28	mg/kg	0.38	0.45	0.33	0.67	0.49	0.25	0.2
<b>TCLP Metals</b>										
Lead, TCLP	5	-	mg/L	0.05	0.067	0.063	0.019 U	0.016 U	0.012 U	0.012 U
<b>Miscellaneous Analyses</b>										
In Vitro Lead Bioaccessibility	-	-	%	-	-	-	-	-	-	-
pH	-	-	SU	7.8	7.8	7.7	7.8	7.7	7.8	7.5

**Notes:**

 Shaded/bolded values indicate concentration exceeds the 2014 EPA RML for residential soil, hazard quotient 3

<sup>1</sup>RML is for chromium (III), no RML exists for total chromium

- = Not applicable or not analyzed

AA = Assessment Area

bgs = Below ground surface

HQ = Hazard quotient

ID = Identification

ft = feet

mg/kg = milligram per kilogram

RML = Removal Management Level


SU = Standard unit

U = Constituent not detected, reporting limit presented

**TABLE 4-3  
RES3 SOIL SAMPLING RESULTS  
PILSEN SOIL ASSESSMENT AREA: RESIDENTIAL  
CHICAGO, COOK COUNTY, ILLINOIS**

			Field Sample ID	PA-469-04(0-6)-051013	PA-469-04(0-6)-051013D	PA-469-05(0-6)-051013	PA-469-01(6-15)-071113	PA-469-02(6-15)-071113	PA-469-03(6-15)-071113	PA-469-03(6-15)-071113D
			Property ID	469-04	469-04	469-05	469-01	469-02	469-03	469-03
			Location of Property Sampled	AA - Res-3	AA - Res-3	AA - Res-3	AA - Res-3	AA - Res-3	AA - Res-3	AA - Res-3
			Location of Sample on Property	Field - southeast quadrant	Field - southeast quadrant	Playground	Field - northwest quadrant	Field - northeast quadrant	Field - southwest quadrant	Field - southwest quadrant
			Sample Date	5/10/2013	5/10/2013	5/10/2013	7/11/2013	7/11/2013	7/11/2013	7/11/2013
			Depth Interval (in bgs)	0-6	0-6	0-6	6-15	6-15	6-15	6-15
Parameter	40 CFR 261, Subpart C, 261.24 (b)	EPA RML for Res. Soil, HQ 3	Unit							
<b>Total Metals</b>										
Antimony	-	94	mg/kg	4.8 U	5.1 U	5.1 UJ	3.9 U	4.1 J	4.4 U	4.4 U
Cadmium	-	210	mg/kg	1.2 U	1.3 U	1.3 U	1.1	1.2	1.1	1.2
Chromium <sup>1</sup>	-	350000	mg/kg	34	19	12	20	14	15	16
Copper	-	9400	mg/kg	59	41	94 J	93	190	90	86
Lead	-	400	mg/kg	110	80	340	340	330	<b>560</b>	250
Lead, Fine-Grained	-	400	mg/kg	120	110	330	380	<b>480</b>	340	370
Tin	-	140000	mg/kg	12 UJ	13 U	22 UJ	36	40	24	26
Zinc	-	70000	mg/kg	190	150	360	270	250	270	290
Mercury	-	28	mg/kg	0.17	0.13	0.28	0.68	1.2	0.5	0.57
<b>TCLP Metals</b>										
Lead, TCLP	5	-	mg/L	0.0082 U	0.0095 U	0.57	-	-	-	-
<b>Miscellaneous Analyses</b>										
In Vitro Lead Bioaccessibility	-	-	%	-	-	55.6	-	-	-	-
pH	-	-	SU	7.6	7.6	8	-	-	-	-

**Notes:**

 Shaded/bolded values indicate concentration exceeds the 2014 EPA RML for residential soil, hazard quotient 3

<sup>1</sup>RML is for chromium (III), no RML exists for total chromium

- = Not applicable or not analyzed

AA = Assessment Area

bgs = Below ground surface

HQ = Hazard quotient

ID = Identification

ft = feet

mg/kg = milligram per kilogram

RML = Removal Management Level


SU = Standard unit

U = Constituent not detected, reporting limit presented

**TABLE 4-3  
RES3 SOIL SAMPLING RESULTS  
PILSEN SOIL ASSESSMENT AREA: RESIDENTIAL  
CHICAGO, COOK COUNTY, ILLINOIS**

			Field Sample ID	PA-482-01(0-6)-071113	PA-482-01(6-18)-071113	PA-495-01(0-6)-081313	PA-495-01(6-24)-081313	PA-496-01(0-6)-081313	PA-497-01(0-6)-081313	PA-498-01(0-6)-081313
			Property ID	482-01	482-01	495-01	495-01	496-01	497-01	498-01
			Location of Property Sampled	AA - Res-3	AA - Res-3	AA - Res-3	AA - Res-3	AA - Res-3	AA - Res-3	AA - Res-3
			Location of Sample on Property	Frontyard	Frontyard	Backyard	Backyard	Backyard	Backyard	Backyard
			Sample Date	7/11/2013	7/11/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013
			Depth Interval (in bgs)	0-6	6-18	0-6	6-24	0-6	0-6	0-6
Parameter	40 CFR 261, Subpart C, 261.24 (b)	EPA RML for Res. Soil, HQ 3	Unit							
<b>Total Metals</b>										
Antimony	-	94	mg/kg	4.5 U	4.4 U	3.8 U	4 U	4.4 U	4.4 U	3.9 U
Cadmium	-	210	mg/kg	3.7	5.2	2.6	3.6	2.8	2.2	1.5
Chromium <sup>1</sup>	-	350000	mg/kg	24	21	25	21	19	18	16
Copper	-	9400	mg/kg	66	53	56	180	64	53	38
Lead	-	400	mg/kg	210	250	<b>930</b>	<b>1800</b>	230	<b>460</b>	270
Lead, Fine-Grained	-	400	mg/kg	200	320	<b>1000</b>	<b>1800</b>	360	<b>460</b>	340
Tin	-	140000	mg/kg	13	11 U	16	50	11	15	9.7 U
Zinc	-	70000	mg/kg	380	300	430	720	380	350	200
Mercury	-	28	mg/kg	0.094	0.12	0.31	0.49	0.12	0.4	0.17
<b>TCLP Metals</b>										
Lead, TCLP	5	-	mg/L	-	-	-	-	-	-	-
<b>Miscellaneous Analyses</b>										
In Vitro Lead Bioaccessibility	-	-	%	-	-	-	-	-	-	-
pH	-	-	SU	-	-	-	-	-	-	-

**Notes:**

 Shaded/bolded values indicate concentration exceeds the 2014 EPA RML for residential soil, hazard quotient 3

<sup>1</sup>RML is for chromium (III), no RML exists for total chromium

- = Not applicable or not analyzed

AA = Assessment Area

bgs = Below ground surface

HQ = Hazard quotient

ID = Identification

ft = feet

mg/kg = milligram per kilogram

RML = Removal Management Level

SU = Standard unit


U = Constituent not detected, reporting limit presented



**TABLE 4-3  
RES3 SOIL SAMPLING RESULTS  
PILSEN SOIL ASSESSMENT AREA: RESIDENTIAL  
CHICAGO, COOK COUNTY, ILLINOIS**

			Field Sample ID	PA-498-01(0-6)-081313D	PA-498-01(6-15)-081313	PA-499-01(0-6)-081413	PA-504-01(0-6)-081513	PA-505-01(0-6)-081513	PA-505-01(0-6)-081513D	PA-506-01(0-6)-081513
			Property ID	498-01	498-01	499-01	504-01	505-01	505-01	506-01
			Location of Property Sampled	AA - Res-3	AA - Res-3	AA - Res-3	AA - Res-3	AA - Res-3	AA - Res-3	AA - Res-3
			Location of Sample on Property	Backyard	Backyard	Frontyard	Frontyard	Backyard	Backyard	Backyard
			Sample Date	8/13/2013	8/13/2013	8/14/2013	8/15/2013	8/15/2013	8/15/2013	8/15/2013
			Depth Interval (in bgs)	0-6	6-15	0-6	0-6	0-6	0-6	0-6
Parameter	40 CFR 261, Subpart C, 261.24 (b)	EPA RML for Res. Soil, HQ 3	Unit							
<b>Total Metals</b>										
Antimony	-	94	mg/kg	4.3 U	4.4 U	4.5 UJ	4.8 U	5.3 U	4.5 U	4.6 U
Cadmium	-	210	mg/kg	1.5	1.9	2.5	1.8	5.5	6	4.1
Chromium <sup>1</sup>	-	350000	mg/kg	14	14	14	21	53	35	28
Copper	-	9400	mg/kg	36	41	86	41	170	180	94
Lead	-	400	mg/kg	280	<b>550</b>	<b>1200</b>	390	<b>1300</b>	<b>1400</b>	<b>940</b>
Lead, Fine-Grained	-	400	mg/kg	330	<b>640</b>	<b>1100</b>	330	<b>1900</b>	<b>1600</b>	<b>1400</b>
Tin	-	140000	mg/kg	11 U	14	26 J	26	33	30	17
Zinc	-	70000	mg/kg	200	380	500	240	1300	1300	780
Mercury	-	28	mg/kg	0.17	0.31	0.65 J	0.19	0.97	0.87	0.99
<b>TCLP Metals</b>										
Lead, TCLP	5	-	mg/L	-	-	-	-	-	-	-
<b>Miscellaneous Analyses</b>										
In Vitro Lead Bioaccessibility	-	-	%	-	-	-	-	-	-	-
pH	-	-	SU	-	-	-	-	-	-	-

**Notes:**

 Shaded/bolded values indicate concentration exceeds the 2014 EPA RML for residential soil, hazard quotient 3

<sup>1</sup>RML is for chromium (III), no RML exists for total chromium

- = Not applicable or not analyzed

AA = Assessment Area

bgs = Below ground surface

HQ = Hazard quotient

ID = Identification

ft = feet

mg/kg = milligram per kilogram

RML = Removal Management Level


SU = Standard unit

U = Constituent not detected, reporting limit presented

**TABLE 4-3  
RES3 SOIL SAMPLING RESULTS  
PILSEN SOIL ASSESSMENT AREA: RESIDENTIAL  
CHICAGO, COOK COUNTY, ILLINOIS**

			Field Sample ID	PA-508-01(0-6)-081513	PA-508-01(6-24)-081513	PA-509-01(0-6)-081513	PA-510-01(0-6)-081513	PA-514-01(0-6)-081613	PA-514-01(6-24)-081613	PA-515-01(0-6)-081613
			Property ID	508-01	508-01	509-01	510-01	514-01	514-01	515-01
			Location of Property Sampled	AA - Res-3	AA - Res-3	AA - Res-3	AA - Res-3	AA - Res-3	AA - Res-3	AA - Res-3
			Location of Sample on Property	Backyard	Backyard	Backyard	Frontyard	Backyard	Backyard	Frontyard
			Sample Date	8/15/2013	8/15/2013	8/15/2013	8/15/2013	8/16/2013	8/16/2013	8/16/2013
			Depth Interval (in bgs)	0-6	6-24	0-6	0-6	0-6	6-24	0-6
Parameter	40 CFR 261, Subpart C, 261.24 (b)	EPA RML for Res. Soil, HQ 3	Unit							
<b>Total Metals</b>										
Antimony	-	94	mg/kg	4.4 U	4.1 U	5 U	4.3 U	4.3 U	4.7 U	9.2 J
Cadmium	-	210	mg/kg	2.7	1.8	4.7	4.1	2.1	3.7	7.4
Chromium <sup>1</sup>	-	350000	mg/kg	26	9	40	28	23	24	22
Copper	-	9400	mg/kg	52	25	120	100	59	92	140
Lead	-	400	mg/kg	<b>580</b>	140	<b>1400</b>	<b>1700</b>	<b>410</b>	<b>760</b>	<b>1600</b>
Lead, Fine-Grained	-	400	mg/kg	290	110	<b>1400</b>	<b>2200</b>	<b>430</b>	<b>830</b>	<b>1600</b>
Tin	-	140000	mg/kg	11 U	12	53	25	11 U	31	29 J
Zinc	-	70000	mg/kg	400	210	830	790	370	1700	1100
Mercury	-	28	mg/kg	0.48	0.34	1.2	0.99	0.28	0.63	0.89 J
<b>TCLP Metals</b>										
Lead, TCLP	5	-	mg/L	-	-	-	-	-	-	-
<b>Miscellaneous Analyses</b>										
In Vitro Lead Bioaccessibility	-	-	%	-	-	-	-	-	-	-
pH	-	-	SU	-	-	-	-	-	-	-

**Notes:**

 Shaded/bolded values indicate concentration exceeds the 2014 EPA RML for residential soil, hazard quotient 3

<sup>1</sup>RML is for chromium (III), no RML exists for total chromium

- = Not applicable or not analyzed

AA = Assessment Area

bgs = Below ground surface

HQ = Hazard quotient

ID = Identification

ft = feet

mg/kg = milligram per kilogram

RML = Removal Management Level


SU = Standard unit

U = Constituent not detected, reporting limit presented

**TABLE 4-4  
HARRISON PARK REFERENCE AREA SOIL SAMPLING RESULTS  
PILSEN SOIL ASSESSMENT AREA: RESIDENTIAL  
CHICAGO, COOK COUNTY, ILLINOIS**

		Field Sample ID	PA-471-01(0-6)-070913	PA-472-01(0-6)-070913	PA-472-01(0-6)-070913D	PA-473-01(0-6)-070913	PA-473-01(18-24)-070913	PA-473-01(6-18)-070913	PA-474-01(0-6)-071013	PA-474-01(6-18)-071013	PA-474-02(0-6)-071013
		Location ID	471-01	472-01	472-01	473-01	473-01	473-01	474-01	474-01	474-02
		Location of Sample on Property	Backyard	Backyard	Backyard	Backyard	Backyard	Backyard	Backyard	Backyard	Frontyard
		Sample Date	7/9/2013	7/9/2013	7/9/2013	7/9/2013	7/9/2013	7/9/2013	7/10/2013	7/10/2013	7/10/2013
		Depth Interval (in bgs)	0- 6	0- 6	0- 6	0- 6	18- 24	6- 18	0- 6	6- 18	0- 6
Parameter	EPA RML for Res. Soil, HQ 3	Unit									
<b>Total Metals</b>											
Antimony	94	mg/kg	5.4 U	4.6 U	4.9 U	5.2 U	4.3 U	4.9 U	5.1 U	5.3 U	4.9 UJ
Cadmium	210	mg/kg	7.2	5.6	4.7	9.1	1.1 U	5.8	3.5	4.2	3.1
Chromium <sup>1</sup>	350000	mg/kg	46	45	49	87	19	47	34	32	26
Copper	9400	mg/kg	230	130	140	160	37	150	130	170	95
Lead	400	mg/kg	<b>1900</b>	<b>940</b>	<b>1200</b>	<b>1700</b>	140	<b>1600</b>	<b>2600</b>	<b>2300</b>	<b>2200</b>
Lead, Fine-Grained	400	mg/kg	<b>1800</b>	<b>1100</b>	<b>1000</b>	<b>1600</b>	170	<b>1300</b>	<b>2000</b>	<b>2400</b>	<b>3300</b>
Tin	140000	mg/kg	40	52	160	43	11 U	39	180	130	24
Zinc	70000	mg/kg	2000	1100	730	970	150	880	870	1200	740
Mercury	28	mg/kg	1	0.67	0.68	1.1	0.99	1.4	0.6	1.2	0.79 J

**Notes:**

 Shaded/bolded values indicate concentration exceeds the 2014 EPA RML for residential soil, hazard quotient 3

<sup>1</sup>RML is for chromium (III), no RML exists for total chromium

- = Not applicable or not analyzed

bgs = Below ground surface

HQ = Hazard quotient

ID = Identification

ft = feet

mg/kg = milligram per kilogram


RML = Removal Management Level

U = Constituent not detected. Reporting limit is presented.

**TABLE 4-4  
HARRISON PARK REFERENCE AREA SOIL SAMPLING RESULTS  
PILSEN SOIL ASSESSMENT AREA: RESIDENTIAL  
CHICAGO, COOK COUNTY, ILLINOIS**

		Field Sample ID	PA-477-01(6-18)-071013	PA-478-01(0-6)-071013	PA-478-01(0-6)-071013D	PA-479-01(0-6)-071113	PA-480-01(0-6)-071113	PA-481-01(0-6)-071113	PA-486-01(6-24)-071213D	PA-487-01(0-6)-071513	PA-488-01(0-6)-071513
		Location ID	477-01	478-01	478-01	479-01	480-01	481-01	486-01	487-01	488-01
		Location of Sample on Property	Backyard	Front/Back Comp.	Front/Back Comp.	Front yard	Front yard	Backyard	Backyard	Backyard	Front yard
		Sample Date	7/10/2013	7/10/2013	7/10/2013	7/11/2013	7/11/2013	7/11/2013	7/12/2013	7/15/2013	7/15/2013
		Depth Interval (in bgs)	6- 18	0- 6	0- 6	0- 6	0- 6	0- 6	6- 24	0- 6	0- 6
Parameter	EPA RML for Res. Soil, HQ 3	Unit									
<b>Total Metals</b>											
Antimony	94	mg/kg	5 U	4.3 U	4.9 U	4.3 U	4.8 U	4.5 U	4.5 U	5 U	4.7 U
Cadmium	210	mg/kg	4.1	17	19	5.3	4.9	5.4	5.2	3.1	1.7
Chromium <sup>1</sup>	350000	mg/kg	32	220	190	53	58	30	28	25 U	24 U
Copper	9400	mg/kg	100	230	260	140	180	120	160	140	56
Lead	400	mg/kg	<b>1100</b>	<b>1400</b>	<b>1700</b>	<b>1200</b>	<b>3200</b>	<b>1600</b>	<b>960</b>	<b>1400</b>	<b>410</b>
Lead, Fine-Grained	400	mg/kg	<b>1300</b>	<b>1500</b>	<b>1500</b>	<b>1600</b>	<b>3600</b>	<b>2000</b>	<b>1100</b>	<b>770</b>	<b>790</b>
Tin	140000	mg/kg	24	42	55	33	37	36	29	65	17
Zinc	70000	mg/kg	810	1400	1800	970	1300	1300	1000	600	390
Mercury	28	mg/kg	0.62	2	1.7	0.54	0.62	2.1	0.4	0.58	0.27

**Notes:**

 Shaded/bolded values indicate concentration exceeds the 2014 EPA RML for residential soil, hazard quotient 3

<sup>1</sup>RML is for chromium (III), no RML exists for total chromium

- = Not applicable or not analyzed

bgs = Below ground surface

HQ = Hazard quotient

ID = Identification

ft = feet

mg/kg = milligram per kilogram


RML = Removal Management Level

U = Constituent not detected. Reporting limit is presented.

**TABLE 4-4  
HARRISON PARK REFERENCE AREA SOIL SAMPLING RESULTS  
PILSEN SOIL ASSESSMENT AREA: RESIDENTIAL  
CHICAGO, COOK COUNTY, ILLINOIS**

		Field Sample ID	PA-484-01(0-6)- 071213	PA-484-01(6-18)- 071213	PA-485-01(0-6)- 071213	PA-486-01(0-6)- 071213	PA-486-01(6-24)- 071213	PA-475-01(0-6)- 071013	PA-476-01(0-6)- 071013	PA-477-01(0-6)- 071013
		Location ID	484-01	484-01	485-01	486-01	486-01	475-01	476-01	477-01
		Location of Sample on Property	Backyard	Backyard	Backyard	Backyard	Backyard	Backyard	Backyard	Backyard
		Sample Date	7/12/2013	7/12/2013	7/12/2013	7/12/2013	7/12/2013	7/10/2013	7/10/2013	7/10/2013
		Depth Interval (in bgs)	0- 6	6- 18	0- 6	0- 6	6- 24	0- 6	0- 6	0- 6
Parameter	EPA RML for Res. Soil, HQ 3	Unit								
<b>Total Metals</b>										
Antimony	94	mg/kg	5.4 J	9.9 J	4.8 U	4.7 U	5.2 U	5 U	5 U	5.1 U
Cadmium	210	mg/kg	75	21 J	1.8	4.4	5.3	6.6	8.5	4.1
Chromium <sup>1</sup>	350000	mg/kg	770	91	21	32	31	53	34	42
Copper	9400	mg/kg	740	580	100	130	160	160	170	98
Lead	400	mg/kg	<b>1700</b>	<b>4300</b>	<b>510</b>	<b>880</b>	<b>1100</b>	<b>3700</b>	<b>2000</b>	<b>1700</b>
Lead, Fine-Grained	400	mg/kg	<b>2500</b>	<b>5500</b>	<b>650</b>	<b>1100</b>	<b>1200</b>	<b>3100</b>	<b>1900</b>	<b>980</b>
Tin	140000	mg/kg	110	180	12 U	26	33	55	32	26
Zinc	70000	mg/kg	2300	3700	390	840	1000	1700	1800	720
Mercury	28	mg/kg	4.6	1.6	0.29	0.37	0.59	0.76	0.92	0.69

**Notes:**

 Shaded/bolded values indicate concentration exceeds the 2014 EPA RML for residential soil, hazard quotient 3

<sup>1</sup>RML is for chromium (III), no RML exists for total chromium

- = Not applicable or not analyzed

bgs = Below ground surface

HQ = Hazard quotient

ID = Identification

ft = feet

mg/kg = milligram per kilogram

RML = Removal Management Level

U = Constituent not detected. Reporting limit is presented.

**TABLE 4-5  
LITTLE ITALY REFERENCE AREA SOIL SAMPLING RESULTS  
PILSEN SOIL ASSESSMENT AREA: RESIDENTIAL  
CHICAGO, COOK COUNTY, ILLINOIS**

		Field Sample ID	PA-489-01(0-6)- 081213	PA-489-01(6-18)- 081213	PA-490-01(0-6)- 081213	PA-491-01(0-6)- 081213	PA-491-01(6-18)- 081213	PA-491-01(6-18)- 081213D	PA-492-01(0-6)- 081313	PA-493-01(0-6)- 081313
		Property ID	489	489	490	491	491	491	492	493
		Location of Sample on Property	Frontyard	Frontyard	Frontyard	Frontyard	Frontyard	Frontyard	Frontyard	Frontyard
		Sample Date	8/12/2013	8/12/2013	8/12/2013	8/12/2013	8/12/2013	8/12/2013	8/13/2013	8/13/2013
		Depth Interval (in bgs)	0-6	6-18	0-6	0-6	6-18	6-18	0-6	0-6
Parameter	EPA RML for Res. Soil, HQ 3	Unit								
<b>Total Metals</b>										
Antimony	94	mg/kg	4.2 U	4.4 U	4.4 U	4.8 U	4.5 U	4.1 U	4.4 U	4.3 U
Cadmium	210	mg/kg	1.4	1.4	1.6	1.8	1.6	1.5	2.7	1.8
Chromium <sup>1</sup>	350000	mg/kg	17	18	19	21	36	17	24	16
Copper	9400	mg/kg	30	28	33	68	71	65	66	45
Lead	400	mg/kg	160	92	220	260	270	260	260	190
Lead, Fine-Grained	400	mg/kg	160	150	230	280	400	390	210	210
Tin	140000	mg/kg	10 U	11 U	11 U	16	15	16	13	11 U
Zinc	70000	mg/kg	140	120	150	270	250	230	210	170
Mercury	28	mg/kg	0.14	0.13	0.29	0.42	0.6	0.66	0.33	0.39

		Field Sample ID	PA-494-01(0-6)- 081313	PA-500-01(0-6)- 081413	PA-500-01(6-24)- 081413	PA-501-01(0-6)- 081413	PA-511-01(0-6)- 081613	PA-512-01(0-6)- 081613	PA-513-01(0-6)- 081613	PA-513-01(0-6)- 081613D
		Location ID	494	500	500	501	511	512	513	513
		Sample Date	8/13/2013	8/14/2013	8/14/2013	8/14/2013	8/16/2013	8/16/2013	8/16/2013	8/16/2013
		Location of Sample on Property	Backyard Common Area	Backyard	Backyard	Frontyard	Frontyard	Frontyard	Frontyard	Frontyard
		Depth Interval (in bgs)	0-6	0-6	6-24	0-6	0-6	0-6	0-6	0-6
Parameter	EPA RML for Res. Soil, HQ 3	Unit								
<b>Total Metals</b>										
Antimony	94	mg/kg	4.6 U	4.4 U	3.9 U	5.2 U	4.4 U	4.7 U	4.2 U	4.2 U
Cadmium	210	mg/kg	2	3.4	3.1	1.4	1.7	1.7	1.4	1.3
Chromium <sup>1</sup>	350000	mg/kg	33	26	22	22	21	19	31	23
Copper	9400	mg/kg	46	72	88	28	40	37	45	42
Lead	400	mg/kg	120	<b>760</b>	<b>930</b>	66	210	320	170	140
Lead, Fine-Grained	400	mg/kg	110	<b>1300</b>	<b>1400</b>	66	370	<b>520</b>	230	210
Tin	140000	mg/kg	12 U	27	28	13 U	11 U	12 U	10 U	10 U
Zinc	70000	mg/kg	170	620	690	150	170	230	200	200
Mercury	28	mg/kg	0.17	0.88	1.7	0.081	0.2	0.27	0.2	0.28

**Notes:**

Shaded/bolded values indicate concentration exceeds the 2014 EPA RML for residential soil, hazard quotient 3

<sup>1</sup>RML is for chromium (III), no RML exists for total chromium

- = Not applicable or not analyzed

bgs = Below ground surface

HQ = Hazard quotient

ID = Identification

in = Inches

Res. = Residential

mg/kg = milligram per kilogram

RML = Removal Action Levels

U = Constituent not detected. Reporting limit is presented.

**TABLE 5-1**  
**H. KRAMER BAGHOUSE SAMPLING RESULTS**  
**PILSEN SOIL ASSESSMENT AREA: RESIDENTIAL**  
**CHICAGO, COOK COUNTY, ILLINOIS**

	Sample ID <sup>1</sup>	BH-1 N105006-05	BH-2 N105006-06	BH-4 N105006-08	BH-4 N105006-09	BH-5 N105006-07	Average Ratio
	Date	Split B	Split B	Split B	Split B	Split B	
		7/9/2012	7/9/2012	7/9/2012	7/9/2012	7/9/2012	
<b>Metal</b>	<b>Unit</b>						
Antimony	mg/kg	75	68	180	140	49	-
Cadmium	mg/kg	1500	1100	510	500	700	-
Chromium	mg/kg	44	90	92	71	18 U	-
Copper	mg/kg	12000	12000	62000	61000	4400 U	-
Lead	mg/kg	51000	42000	12000	13000	34000	-
Mercury	mg/kg	2.6	0.52	3.2	1.8	5.2	-
Tin	mg/kg	5800	11000	5800	5100	6300	-
Zinc	mg/kg	600000	550000	400000	480000	650000	-
<b>Meta/Lead Ratio</b>							
Zinc/Lead	-	11.76	13.10	33.33	36.92	19.12	22.85

Notes

<sup>1</sup>Samples collected by EPA Air and Radiation Division, submitted for analysis by EPA National Enforcement Investigation Center, and validated by Weston Solutions, Inc.

- = Not applicable

ID = Identification

mg/kg = Milligram per kilogram

U = Constituent not detected, reporting limit presented

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**APPENDIX A  
LABORATORY ANALYTICAL REPORTS  
AND DATA VALIDATION REPORTS**

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**PILSEN AREA SOIL SITE  
CHICAGO, ILLINOIS  
DATA VALIDATION REPORT**

**Date:** June 3, 2013

**Laboratory:** STAT Analysis Corporation (STAT), Chicago, Illinois

**Laboratory Project #:** 13050170

**Data Validation Performed By:** Lisa Graczyk, Weston Solutions, Inc. (WESTON<sup>®</sup>) Superfund Technical Assessment and Response Team (START)

**Analytical TDD and Work Order #:** S05-0001-1211-003/20405.016.001.2038.00

This data validation report has been prepared by WESTON START under the START III Region V contract. This report documents the data validation for 35 soil samples collected for the Pilsen Area Soil Site that were analyzed for the following parameters and U.S. Environmental Protection Agency methods:

- Total Metals by SW-846 Methods 6020 and 7471A
- Fine Grained Lead by SW-846 Method 6020
- Bioavailability Lead by EPA Method 9200 and SW-846 Method 6020
- Toxicity Characteristic Leaching Procedure (TCLP) Lead by SW-846 Methods 1311 and 6020
- pH by SW-846 Method 9045C
- Moisture Content by ASTM D2974

A level II data package was requested from STAT. The data validation was conducted in general accordance with the EPA "Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review" dated January 2010. The Attachment contains the results summary sheets with the hand-written qualifiers applied during data validation.

**TOTAL METALS AND FINE GRAINED LEAD BY EPA SW-846 METHODS 6020 AND 7471A  
AND BIOAVAILABLE LEAD BY EPA METHOD 9200 AND SW-846 METHOD 6020**

**1. Samples**

Attachment A summarizes the samples for which this data validation is being conducted. It includes but the laboratory sample identification, the WESTON START sample identification, and the date and time of sample collection.

**2. Holding Times**

The samples were analyzed within the required holding time limit of 28 days for mercury and 180 days from sample collection to analysis for all other metals.

**3. Blank Results**

Method blanks were analyzed with the metals analyses. The blanks contained no metals contamination above the reporting limits. There were detections of some metals below the reporting limits in the blanks. However, the sample results were much greater or contained no detections of these metals. No qualifications were required.

**4. Laboratory Control Sample (LCS) Results**

The LCS recoveries were within the quality control (QC) limits except for as follows.

Antimony was detected high. Detected antimony results were flagged “J” as estimated.

**5. Matrix Spike (MS) and MS Duplicate (MSD) Results**

STAT analyzed several site-specific MS/MSDs. The percent recoveries and relative percent differences (RPD) were within QC limits except for as follows.

In many instances of QC limits not being met, the sample concentration was more than four times the spike amount. In these instances, no qualifications were required.

In the MS and MSD of sample PA-105-01(0-6)-050213, the antimony and tin recoveries were low. The tin result in this sample was flagged “J” and the quantitation limit for antimony was flagged “UJ” as estimated.

**6. Field Duplicate Results**

There are two field duplicate samples associated with this work order that are identified by a “D” suffix in the sample name.

The field duplicate results were evaluated by calculating the RPDs between the investigative and field duplicate sample results. There is no established QC limit for RPD for field duplicates; however, 50 RPD is generally used for evaluation. Most of the RPDs for detected metals were below 50 which is acceptable.

The exception was antimony in field duplicate PA-191-01(0-6)-050213D had an RPD of 159 which is high indicating sample heterogeneity associated with antimony in this sample.

**7. Overall Assessment**

The metals data are acceptable for use as qualified based on the information received.

## **TCLP METALS BY EPA SW-846 METHODS 1311 AND 6020**

### **1. Samples**

Attachment A summarizes the samples for which this data validation is being conducted. It includes but the laboratory sample identification, the WESTON START sample identification, and the date and time of sample collection.

### **2. Holding Times**

The samples were analyzed within the required holding time limit of 180 days from sample collection.

### **3. Blank Results**

Method blanks were analyzed with the metals analyses. Some of the blanks contained some minor lead contamination. However, the TCLP lead results were much greater than the blank results and no qualifications were required.

### **4. LCS Results**

The LCS recoveries were within the QC limits.

### **5. MS and MSD Results**

STAT analyzed two site-specific MS/MSD samples. The percent recoveries and RPDs were within QC limits except for as follows.

### **6. Field Duplicate Results**

There are two field duplicate samples associated with this work order that are identified by a "D" suffix in the sample name.

The field duplicate results were evaluated by calculating the RPDs between the investigative and field duplicate sample results. The RPDs were below 50 which is acceptable.

### **7. Overall Assessment**

The TCLP lead data are acceptable for use based on the information received.

## **GENERAL CHEMISTRY PARAMETERS (pH by SW-846 Method 9045C and Moisture Content by ASTM D2974)**

### **1. Samples**

Attachment A summarizes the samples for which this data validation is being conducted. It includes but the laboratory sample identification, the WESTON START sample identification, and the date and time of sample collection.

### **2. Holding Times**

The holding time for pH is “as soon as possible” and the holding time for moisture is 28 days. The holding time for moisture was met. For pH, the samples were analyzed approximately 8-9 days from sample collection. No qualifications were applied.

### **3. Blank Results**

Method blanks were analyzed with the moisture analyses and were all non-detect for moisture which is acceptable.

### **4. LCS Results**

LCSs were analyzed with the moisture analyses. The LCS recoveries were within the QC limits.

### **5. Laboratory Duplicates**

Laboratory duplicates were analyzed with the pH and moisture analyses. The RPDs were within QC limits.

### **6. Field Duplicate Results**

There are two field duplicate samples associated with this work order that are identified by a “D” suffix in the sample name.

The field duplicate results were evaluated by calculating the RPDs between the investigative and field duplicate sample results. The RPDs were below 50 which is acceptable.

### **7. Overall Assessment**

The pH and moisture data are acceptable for use as qualified based on the information received.

Data Validation Report  
Pilsen Area Soil Site  
STAT Analysis Corporation  
Laboratory Project #: 13050170

**ATTACHMENT A**  
**SAMPLE LIST**

**Client:** Weston Solutions  
**Project:** Pilsen Soil Site, Pilsen, Chicago, IL  
**Lab Order:** 13050170

**Work Order Sample Summary**

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
13050170-001A	PA-276-01(0-6)-050113		5/1/2013 9:45:00 AM	5/3/2013
13050170-001B	PA-276-01(0-6)-050113	Fine Grained	5/1/2013 9:45:00 AM	5/3/2013
13050170-002A	PA-276-01(0-6)-050113D		5/1/2013 9:50:00 AM	5/3/2013
13050170-002B	PA-276-01(0-6)-050113D	Fine Grained	5/1/2013 9:50:00 AM	5/3/2013
13050170-003A	PA-274-01(0-6)-050113		5/1/2013 11:20:00 AM	5/3/2013
13050170-003B	PA-274-01(0-6)-050113	Fine Grained	5/1/2013 11:20:00 AM	5/3/2013
13050170-004A	PA-274-02(0-6)-050113		5/1/2013 11:25:00 AM	5/3/2013
13050170-004B	PA-274-02(0-6)-050113	Fine Grained	5/1/2013 11:25:00 AM	5/3/2013
13050170-005A	PA-272-01(0-6)-050113		5/1/2013 12:20:00 PM	5/3/2013
13050170-005B	PA-272-01(0-6)-050113	Fine Grained	5/1/2013 12:20:00 PM	5/3/2013
13050170-006A	PA-291-01(0-6)-050113		5/1/2013 2:40:00 PM	5/3/2013
13050170-006B	PA-291-01(0-6)-050113	Fine Grained	5/1/2013 2:40:00 PM	5/3/2013
13050170-007A	PA-291-03(0-6)-050113		5/1/2013 2:45:00 PM	5/3/2013
13050170-007B	PA-291-03(0-6)-050113	Fine Grained	5/1/2013 2:45:00 PM	5/3/2013
13050170-008A	PA-163-01(0-6)-050113		5/1/2013 4:00:00 PM	5/3/2013
13050170-008B	PA-163-01(0-6)-050113	Fine Grained	5/1/2013 4:00:00 PM	5/3/2013
13050170-009A	PA-163-02(0-6)-050113		5/1/2013 4:05:00 PM	5/3/2013
13050170-009B	PA-163-02(0-6)-050113	Fine Grained	5/1/2013 4:05:00 PM	5/3/2013
13050170-010A	PA-163-03(0-6)-050113		5/1/2013 4:10:00 PM	5/3/2013
13050170-010B	PA-163-03(0-6)-050113	Fine Grained	5/1/2013 4:10:00 PM	5/3/2013
13050170-011A	PA-183-01(0-6)-050213		5/2/2013 9:15:00 AM	5/3/2013
13050170-011B	PA-183-01(0-6)-050213	Fine Grained	5/2/2013 9:15:00 AM	5/3/2013
13050170-012A	PA-180-01(0-6)-050213		5/2/2013 10:10:00 AM	5/3/2013
13050170-012B	PA-180-01(0-6)-050213	Fine Grained	5/2/2013 10:10:00 AM	5/3/2013
13050170-013A	PA-180-02(0-6)-050213		5/2/2013 10:15:00 AM	5/3/2013
13050170-013B	PA-180-02(0-6)-050213	Fine Grained	5/2/2013 10:15:00 AM	5/3/2013
13050170-014A	PA-105-01(0-6)-050213		5/2/2013 12:15:00 PM	5/3/2013
13050170-014B	PA-105-01(0-6)-050213	Fine Grained	5/2/2013 12:15:00 PM	5/3/2013
13050170-015A	PA-105-01(0-6)-050213		5/2/2013 12:20:00 PM	5/3/2013
13050170-015B	PA-105-01(0-6)-050213	Fine Grained	5/2/2013 12:20:00 PM	5/3/2013
13050170-016A	PA-105-03(0-6)-050213		5/2/2013 12:25:00 PM	5/3/2013
13050170-017A	PA-105-04(0-6)-050213	Fine Grained	5/2/2013 12:30:00 PM	5/3/2013
13050170-018A	PA-104-01(0-6)-050213		5/2/2013 2:20:00 PM	5/3/2013
13050170-018B	PA-104-01(0-6)-050213	Fine Grained	5/2/2013 2:20:00 PM	5/3/2013
13050170-019A	PA-104-02(0-6)-050213		5/2/2013 2:25:00 PM	5/3/2013
13050170-019B	PA-104-02(0-6)-050213	Fine Grained	5/2/2013 2:25:00 PM	5/3/2013
13050170-020A	PA-186-01(0-6)-050213		5/2/2013 3:50:00 PM	5/3/2013
13050170-020B	PA-186-01(0-6)-050213	Fine Grained	5/2/2013 3:50:00 PM	5/3/2013

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**Client:** Weston Solutions  
**Project:** Pilsen Soil Site, Pilsen, Chicago, IL  
**Lab Order:** 13050170

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## Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
13050170-021A	PA-186-02(0-6)-050213		5/2/2013 3:55:00 PM	5/3/2013
13050170-021B	PA-186-02(0-6)-050213	Fine Grained	5/2/2013 3:55:00 PM	5/3/2013
13050170-022A	PA-104-03(0-6)-050213		5/2/2013 4:00:00 PM	5/3/2013
13050170-023A	PA-104-04(0-6)-050213		5/2/2013 4:05:00 PM	5/3/2013
13050170-024A	PA-191-01(0-6)-050213		5/2/2013 4:35:00 PM	5/3/2013
13050170-024B	PA-191-01(0-6)-050213	Fine Grained	5/2/2013 4:35:00 PM	5/3/2013
13050170-025A	PA-191-01(0-6)-050213D		5/2/2013 4:40:00 PM	5/3/2013
13050170-025B	PA-191-01(0-6)-050213D	Fine Grained	5/2/2013 4:40:00 PM	5/3/2013
13050170-026A	PA-193-01(0-6)-050313		5/3/2013 9:30:00 AM	5/3/2013
13050170-026B	PA-193-01(0-6)-050313	Fine Grained	5/3/2013 9:30:00 AM	5/3/2013
13050170-027A	PA-125-01(0-6)-050313		5/3/2013 12:00:00 PM	5/3/2013
13050170-027B	PA-125-01(0-6)-050313	Fine Grained	5/3/2013 12:00:00 PM	5/3/2013
13050170-028A	PA-125-02(0-6)-050313		5/3/2013 12:05:00 PM	5/3/2013
13050170-028B	PA-125-02(0-6)-050313	Fine Grained	5/3/2013 12:05:00 PM	5/3/2013
13050170-029A	PA-125-03(0-6)-050313		5/3/2013 12:10:00 PM	5/3/2013
13050170-029B	PA-125-03(0-6)-050313	Fine Grained	5/3/2013 12:10:00 PM	5/3/2013
13050170-030A	PA-125-04(0-6)-050313		5/3/2013 12:15:00 PM	5/3/2013
13050170-031A	PA-125-05(0-6)-050313		5/3/2013 12:20:00 PM	5/3/2013
13050170-032A	PA-123-01(0-6)-050313		5/3/2013 12:50:00 PM	5/3/2013
13050170-032B	PA-123-01(0-6)-050313	Fine Grained	5/3/2013 12:50:00 PM	5/3/2013
13050170-033A	PA-127-01(0-6)-050313		5/3/2013 2:40:00 PM	5/3/2013
13050170-033B	PA-127-01(0-6)-050313	Fine Grained	5/3/2013 2:40:00 PM	5/3/2013
13050170-033C	PA-127-01(0-6)-050313	Course Grained	5/3/2013 2:40:00 PM	5/3/2013
13050170-034A	PA-122-01(0-6)-050313		5/3/2013 4:00:00 PM	5/3/2013
13050170-034B	PA-122-01(0-6)-050313	Fine Grained	5/3/2013 4:00:00 PM	5/3/2013
13050170-034C	PA-122-01(0-6)-050313	Course Grained	5/3/2013 4:00:00 PM	5/3/2013
13050170-035A	PA-122-02(0-6)-050313		5/3/2013 4:05:00 PM	5/3/2013
13050170-035B	PA-122-02(0-6)-050313	Fine Grained	5/3/2013 4:05:00 PM	5/3/2013

Data Validation Report  
Pilsen Area Soil Site  
STAT Analysis Corporation  
Laboratory Project #: 13050170

**ATTACHMENT B**

**STAT ANALYSIS CORPORATION  
RESULTS SUMMARY WITH QUALIFIERS**



**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-276-01(0-6)-050113
<b>Lab Order:</b> 13050170	<b>Tag Number:</b>
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 5/1/2013 9:45:00 AM
<b>Lab ID:</b> 13050170-001A	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>					
Mercury	1.2	0.11		mg/Kg-dry	5	Prep Date: 5/9/2013 Analyst: LB 5/9/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>					
Antimony	13 J	2.5		mg/Kg-dry	10	Prep Date: 5/9/2013 Analyst: JG 5/9/2013
Cadmium	17	0.64		mg/Kg-dry	10	5/9/2013
Chromium	49	1.3		mg/Kg-dry	10	5/9/2013
Copper	1600	32		mg/Kg-dry	100	5/9/2013
Lead	2400	0.64		mg/Kg-dry	10	5/9/2013
Tin	200	6.4	*	mg/Kg-dry	10	5/9/2013
Zinc	6300	64		mg/Kg-dry	100	5/9/2013
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>					
Lead	0.48	0.005		mg/L	5	Prep Date: 5/7/2013 Analyst: JG 5/7/2013
<b>pH (25 °C)</b>	<b>SW9045C</b>					
pH	7.4			pH Units	1	Prep Date: 5/10/2013 Analyst: RW 5/10/2013
<b>Percent Moisture</b>	<b>D2974</b>					
Percent Moisture	21.8	0.2	*	wt%	1	Prep Date: 5/9/2013 Analyst: RW 5/10/2013

29  
6/3/13

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-276-01(0-6)-050113
<b>Lab Order:</b> 13050170	<b>Tag Number:</b> Fine Grained
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 5/1/2013 9:45:00 AM
<b>Lab ID:</b> 13050170-001B	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>In Vitro Extractable Metals by ICP/MS</b>	<b>EPA 9200/6020 (SW3005A)</b>				Prep Date: 5/19/2013	Analyst: JG
Lead	21	0.1	*	mg/L	20	5/22/2013
<b>In Vitro Bioaccessibility</b>	<b>EPA 9200/6020</b>				Prep Date: 5/22/2013	Analyst: JG
Lead	95.6	0.01	*	%	1	5/22/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: 5/18/2013	Analyst: BJA
Lead	2200	1		mg/Kg-dry	10	5/18/2013

**Qualifiers:**

ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-276-01(0-6)-050113D
<b>Lab Order:</b> 13050170	<b>Tag Number:</b>
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 5/1/2013 9:50:00 AM
<b>Lab ID:</b> 13050170-002A	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>					
Mercury	1.4	0.12		mg/Kg-dry	5	Prep Date: 5/9/2013 Analyst: LB 5/9/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>					
Antimony	7.7 J	2.7		mg/Kg-dry	10	Prep Date: 5/9/2013 Analyst: JG 5/9/2013
Cadmium	16	0.67		mg/Kg-dry	10	5/9/2013
Chromium	62	1.3		mg/Kg-dry	10	5/9/2013
Copper	1700	34		mg/Kg-dry	100	5/9/2013
Lead	3600	0.67		mg/Kg-dry	10	5/9/2013
Tin	180	6.7	*	mg/Kg-dry	10	5/9/2013
Zinc	6400	67		mg/Kg-dry	100	5/9/2013
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>					
Lead	0.5	0.005		mg/L	5	Prep Date: 5/7/2013 Analyst: JG 5/7/2013
<b>pH (25 °C)</b>	<b>SW9045C</b>					
pH	7.5			pH Units	1	Prep Date: 5/10/2013 Analyst: RW 5/10/2013
<b>Percent Moisture</b>	<b>D2974</b>					
Percent Moisture	25.9	0.2	*	wt%	1	Prep Date: 5/9/2013 Analyst: RW 5/10/2013

29  
6/3/13

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-276-01(0-6)-050113D
<b>Lab Order:</b> 13050170	<b>Tag Number:</b> Fine Grained
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 5/1/2013 9:50:00 AM
<b>Lab ID:</b> 13050170-002B	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>In Vitro Extractable Metals by ICP/MS</b>	<b>EPA 9200/6020 (SW3005A)</b>				Prep Date: 5/19/2013	Analyst: JG
Lead	19	0.1	*	mg/L	20	5/22/2013
<b>In Vitro Bioaccessibility</b>	<b>EPA 9200/6020</b>				Prep Date: 5/22/2013	Analyst: JG
Lead	92.6	0.01	*	%	1	5/22/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: 5/18/2013	Analyst: BJA
Lead	2100	1		mg/Kg-dry	10	5/18/2013

**Qualifiers:**

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 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-274-01(0-6)-050113
<b>Lab Order:</b>	13050170	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date</b>	5/1/2013 11:20:00 AM
<b>Lab ID:</b>	13050170-003A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>					Prep Date: <b>5/9/2013</b> Analyst: <b>LB</b>
Mercury	0.72	0.024		mg/Kg-dry	1	5/9/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>					Prep Date: <b>5/9/2013</b> Analyst: <b>JG</b>
Antimony	3.6 J	2.5		mg/Kg-dry	10	5/9/2013
Cadmium	12	0.61		mg/Kg-dry	10	5/9/2013
Chromium	55	1.2		mg/Kg-dry	10	5/9/2013
Copper	1100	3.1		mg/Kg-dry	10	5/9/2013
Lead	1900	0.61		mg/Kg-dry	10	5/9/2013
Tin	110	6.1	*	mg/Kg-dry	10	5/9/2013
Zinc	4900	61		mg/Kg-dry	100	5/9/2013
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>					Prep Date: <b>5/7/2013</b> Analyst: <b>JG</b>
Lead	0.12	0.005		mg/L	5	5/7/2013
<b>pH (25 °C)</b>	<b>SW9045C</b>					Prep Date: <b>5/10/2013</b> Analyst: <b>RW</b>
pH	6.6			pH Units	1	5/10/2013
<b>Percent Moisture</b>	<b>D2974</b>					Prep Date: <b>5/9/2013</b> Analyst: <b>RW</b>
Percent Moisture	23.4	0.2	*	wt%	1	5/10/2013

20  
6/3/13

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-274-01(0-6)-050113
<b>Lab Order:</b> 13050170	<b>Tag Number:</b> Fine Grained
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 5/1/2013 11:20:00 AM
<b>Lab ID:</b> 13050170-003B	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: <b>5/18/2013</b>	Analyst: <b>BJA</b>
Lead	1500	0.93		mg/Kg-dry	10	5/18/2013

**Qualifiers:**

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- HT - Sample received past holding time
- \* - Non-accredited parameter

- RL - Reporting / Quantitation Limit for the analysis
- S - Spike Recovery outside accepted recovery limits
- R - RPD outside accepted recovery limits
- E - Value above quantitation range
- H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-274-02(0-6)-050113
<b>Lab Order:</b>	13050170	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date</b>	5/1/2013 11:25:00 AM
<b>Lab ID:</b>	13050170-004A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>					
Mercury	0.65	0.025		mg/Kg-dry	1	Prep Date: 5/9/2013 Analyst: LB 5/9/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>					
Antimony	3.5 J	2.6		mg/Kg-dry	10	Prep Date: 5/9/2013 Analyst: JG 5/9/2013
Cadmium	11	0.64		mg/Kg-dry	10	5/9/2013
Chromium	41	1.3		mg/Kg-dry	10	5/9/2013
Copper	960	3.2		mg/Kg-dry	10	5/9/2013
Lead	2000	0.64		mg/Kg-dry	10	5/9/2013
Tin	93	6.4	*	mg/Kg-dry	10	5/9/2013
Zinc	4800	64		mg/Kg-dry	100	5/9/2013
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>					
Lead	0.11	0.005		mg/L	5	Prep Date: 5/7/2013 Analyst: JG 5/7/2013
<b>pH (25 °C)</b>	<b>SW9045C</b>					
pH	6.6			pH Units	1	Prep Date: 5/10/2013 Analyst: RW 5/10/2013
<b>Percent Moisture</b>	<b>D2974</b>					
Percent Moisture	27.4	0.2	*	wt%	1	Prep Date: 5/9/2013 Analyst: RW 5/10/2013

28  
6/3/13

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-274-02(0-6)-050113
<b>Lab Order:</b>	13050170	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	5/1/2013 11:25:00 AM
<b>Lab ID:</b>	13050170-004B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: 5/18/2013	Analyst: BJA
Lead	1700	0.99		mg/Kg-dry	10	5/18/2013

**Qualifiers:**

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- HT - Sample received past holding time
- \* - Non-accredited parameter

- RL - Reporting / Quantitation Limit for the analysis
- S - Spike Recovery outside accepted recovery limits
- R - RPD outside accepted recovery limits
- E - Value above quantitation range
- H - Holding time exceeded



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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-272-01(0-6)-050113
<b>Lab Order:</b> 13050170	<b>Tag Number:</b>
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 5/1/2013 12:20:00 PM
<b>Lab ID:</b> 13050170-005A	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>					
Mercury	0.75	0.023		mg/Kg-dry	1	Prep Date: 5/9/2013 Analyst: LB 5/9/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>					
Antimony	33 J	2.3		mg/Kg-dry	10	Prep Date: 5/9/2013 Analyst: JG 5/9/2013
Cadmium	6.7	0.58		mg/Kg-dry	10	5/9/2013
Chromium	21	1.2		mg/Kg-dry	10	5/9/2013
Copper	520	2.9		mg/Kg-dry	10	5/9/2013
Lead	2000	0.58		mg/Kg-dry	10	5/9/2013
Tin	190	5.8	*	mg/Kg-dry	10	5/9/2013
Zinc	2500	58		mg/Kg-dry	100	5/9/2013
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>					
Lead	0.43	0.005		mg/L	5	Prep Date: 5/7/2013 Analyst: JG 5/7/2013
<b>pH (25 °C)</b>	<b>SW9045C</b>					
pH	7.9			pH Units	1	Prep Date: 5/10/2013 Analyst: RW 5/10/2013
<b>Percent Moisture</b>	<b>D2974</b>					
Percent Moisture	17.7	0.2	*	wt%	1	Prep Date: 5/9/2013 Analyst: RW 5/10/2013

29  
4/3/13

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-272-01(0-6)-050113
<b>Lab Order:</b>	13050170	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	5/1/2013 12:20:00 PM
<b>Lab ID:</b>	13050170-005B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: 5/18/2013	Analyst: BJA
Lead	1700	0.97		mg/Kg-dry	10	5/19/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-291-01(0-6)-050113
<b>Lab Order:</b> 13050170	<b>Tag Number:</b>
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 5/1/2013 2:40:00 PM
<b>Lab ID:</b> 13050170-006A	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>		Prep Date: <b>5/9/2013</b>		Analyst: <b>LB</b>	
Mercury	0.39	0.021		mg/Kg-dry	1	5/9/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>		Prep Date: <b>5/9/2013</b>		Analyst: <b>JG</b>	
Antimony	ND	2.4		mg/Kg-dry	10	5/9/2013
Cadmium	3.1	0.6		mg/Kg-dry	10	5/9/2013
Chromium	24	1.2		mg/Kg-dry	10	5/9/2013
Copper	100	3		mg/Kg-dry	10	5/9/2013
Lead	500	0.6		mg/Kg-dry	10	5/9/2013
Tin	39	6	*	mg/Kg-dry	10	5/9/2013
Zinc	620	6		mg/Kg-dry	10	5/9/2013
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>		Prep Date: <b>5/7/2013</b>		Analyst: <b>JG</b>	
Lead	0.03	0.005		mg/L	5	5/7/2013
<b>pH (25 °C)</b>	<b>SW9045C</b>		Prep Date: <b>5/10/2013</b>		Analyst: <b>RW</b>	
pH	7.7			pH Units	1	5/10/2013
<b>Percent Moisture</b>	<b>D2974</b>		Prep Date: <b>5/9/2013</b>		Analyst: <b>RW</b>	
Percent Moisture	17.4	0.2	*	wt%	1	5/10/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-291-01(0-6)-050113
<b>Lab Order:</b>	13050170	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	5/1/2013 2:40:00 PM
<b>Lab ID:</b>	13050170-006B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: 5/18/2013	Analyst: BJA
Lead	780	0.99		mg/Kg-dry	10	5/19/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-291-03(0-6)-050113
<b>Lab Order:</b> 13050170	<b>Tag Number:</b>
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 5/1/2013 2:45:00 PM
<b>Lab ID:</b> 13050170-007A	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>					
Mercury	0.028	0.022		mg/Kg-dry	1	Prep Date: 5/9/2013 Analyst: LB 5/9/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>					
Antimony	ND	2.3		mg/Kg-dry	10	Prep Date: 5/9/2013 Analyst: JG 5/9/2013
Cadmium	0.61	0.57		mg/Kg-dry	10	5/9/2013
Chromium	19	1.1		mg/Kg-dry	10	5/9/2013
Copper	26	2.9		mg/Kg-dry	10	5/9/2013
Lead	34	0.57		mg/Kg-dry	10	5/9/2013
Tin	ND	5.7	*	mg/Kg-dry	10	5/9/2013
Zinc	100	57		mg/Kg-dry	100	5/9/2013
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>					
Lead	ND	0.005		mg/L	5	Prep Date: 5/7/2013 Analyst: JG 5/7/2013
<b>pH (25 °C)</b>	<b>SW9045C</b>					
pH	7.5			pH Units	1	Prep Date: 5/10/2013 Analyst: RW 5/10/2013
<b>Percent Moisture</b>	<b>D2974</b>					
Percent Moisture	15.4	0.2		wt%	1	Prep Date: 5/9/2013 Analyst: RW 5/10/2013

**Qualifiers:**

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-291-03(0-6)-050113
<b>Lab Order:</b>	13050170	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	5/1/2013 2:45:00 PM
<b>Lab ID:</b>	13050170-007B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: <b>5/18/2013</b>	Analyst: <b>JG</b>
Lead	46		2	mg/Kg-dry	20	5/19/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-163-01(0-6)-050113
<b>Lab Order:</b>	13050170	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date</b>	5/1/2013 4:00:00 PM
<b>Lab ID:</b>	13050170-008A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>					Prep Date: <b>5/9/2013</b> Analyst: <b>LB</b>
Mercury	ND	0.022		mg/Kg-dry	1	5/9/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>					Prep Date: <b>5/9/2013</b> Analyst: <b>JG</b>
Antimony	ND	2.4		mg/Kg-dry	10	5/9/2013
Cadmium	ND	0.6		mg/Kg-dry	10	5/9/2013
Chromium	11	1.2		mg/Kg-dry	10	5/9/2013
Copper	23	3		mg/Kg-dry	10	5/9/2013
Lead	19	0.6		mg/Kg-dry	10	5/9/2013
Tin	ND	6	*	mg/Kg-dry	10	5/9/2013
Zinc	76	6		mg/Kg-dry	10	5/9/2013
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>					Prep Date: <b>5/7/2013</b> Analyst: <b>JG</b>
Lead	ND	0.005		mg/L	5	5/7/2013
<b>pH (25 °C)</b>	<b>SW9045C</b>					Prep Date: <b>5/10/2013</b> Analyst: <b>RW</b>
pH	7.9			pH Units	1	5/10/2013
<b>Percent Moisture</b>	<b>D2974</b>					Prep Date: <b>5/9/2013</b> Analyst: <b>RW</b>
Percent Moisture	18.0	0.2	*	wt%	1	5/10/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-163-01(0-6)-050113
<b>Lab Order:</b>	13050170	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	5/1/2013 4:00:00 PM
<b>Lab ID:</b>	13050170-008B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: <b>5/18/2013</b>	Analyst: <b>JG</b>
Lead	22	2		mg/Kg-dry	20	5/19/2013

**Qualifiers:**

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- \* - Non-accredited parameter

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- E - Value above quantitation range
- H - Holding time exceeded



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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-163-02(0-6)-050113
<b>Lab Order:</b> 13050170	<b>Tag Number:</b>
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 5/1/2013 4:05:00 PM
<b>Lab ID:</b> 13050170-009A	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>				Prep Date: <b>5/9/2013</b>	Analyst: <b>LB</b>
Mercury	0.094	0.024		mg/Kg-dry	1	5/9/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>5/9/2013</b>	Analyst: <b>JG</b>
Antimony	ND	2.4		mg/Kg-dry	10	5/9/2013
Cadmium	0.89	0.6		mg/Kg-dry	10	5/9/2013
Chromium	19	1.2		mg/Kg-dry	10	5/9/2013
Copper	32	3		mg/Kg-dry	10	5/9/2013
Lead	130	0.6		mg/Kg-dry	10	5/9/2013
Tin	13	6	*	mg/Kg-dry	10	5/9/2013
Zinc	130	6		mg/Kg-dry	10	5/9/2013
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>				Prep Date: <b>5/7/2013</b>	Analyst: <b>JG</b>
Lead	0.014	0.005		mg/L	5	5/8/2013
<b>pH (25 °C)</b>	<b>SW9045C</b>				Prep Date: <b>5/10/2013</b>	Analyst: <b>RW</b>
pH	8.1			pH Units	1	5/10/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: <b>5/9/2013</b>	Analyst: <b>RW</b>
Percent Moisture	21.6	0.2	*	wt%	1	5/10/2013

**Qualifiers:**

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 HT - Sample received past holding time  
 \* - Non-accredited parameter

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-163-02(0-6)-050113
<b>Lab Order:</b>	13050170	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	5/1/2013 4:05:00 PM
<b>Lab ID:</b>	13050170-009B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: <b>5/18/2013</b>	Analyst: <b>BJA</b>
Lead	160	0.97		mg/Kg-dry	10	5/19/2013

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- HT - Sample received past holding time
- \* - Non-accredited parameter

- RL - Reporting / Quantitation Limit for the analysis
- S - Spike Recovery outside accepted recovery limits
- R - RPD outside accepted recovery limits
- E - Value above quantitation range
- H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-163-03(0-6)-050113
<b>Lab Order:</b> 13050170	<b>Tag Number:</b>
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 5/1/2013 4:10:00 PM
<b>Lab ID:</b> 13050170-010A	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>					
Mercury	0.058	0.023		mg/Kg-dry	1	Prep Date: 5/9/2013 Analyst: LB 5/9/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>					
Antimony	ND	2.4		mg/Kg-dry	10	Prep Date: 5/9/2013 Analyst: JG 5/9/2013
Cadmium	0.82	0.59		mg/Kg-dry	10	5/9/2013
Chromium	16	1.2		mg/Kg-dry	10	5/9/2013
Copper	29	3		mg/Kg-dry	10	5/9/2013
Lead	130	0.59		mg/Kg-dry	10	5/9/2013
Tin	6.3	5.9	*	mg/Kg-dry	10	5/9/2013
Zinc	140	5.9		mg/Kg-dry	10	5/9/2013
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>					
Lead	ND	0.005		mg/L	5	Prep Date: 5/7/2013 Analyst: JG 5/8/2013
<b>pH (25 °C)</b>	<b>SW9045C</b>					
pH	8.0			pH Units	1	Prep Date: 5/10/2013 Analyst: RW 5/10/2013
<b>Percent Moisture</b>	<b>D2974</b>					
Percent Moisture	18.1	0.2	*	wt%	1	Prep Date: 5/9/2013 Analyst: RW 5/10/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-163-03(0-6)-050113
<b>Lab Order:</b> 13050170	<b>Tag Number:</b> Fine Grained
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 5/1/2013 4:10:00 PM
<b>Lab ID:</b> 13050170-010B	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: 5/18/2013	Analyst: BJA
Lead	220	0.97		mg/Kg-dry	10	5/19/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-183-01(0-6)-050213
<b>Lab Order:</b> 13050170	<b>Tag Number:</b>
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 5/2/2013 9:15:00 AM
<b>Lab ID:</b> 13050170-011A	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>				Prep Date: 5/9/2013	Analyst: LB
Mercury	0.63	0.024		mg/Kg-dry	1	5/9/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: 5/9/2013	Analyst: JG
Antimony	5.3 J	2.5		mg/Kg-dry	10	5/10/2013
Cadmium	8.5	0.64		mg/Kg-dry	10	5/10/2013
Chromium	32	1.3		mg/Kg-dry	10	5/10/2013
Copper	800	3.2		mg/Kg-dry	10	5/10/2013
Lead	1300	0.64		mg/Kg-dry	10	5/10/2013
Tin	82	6.4	*	mg/Kg-dry	10	5/10/2013
Zinc	3600	64		mg/Kg-dry	100	5/9/2013
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>				Prep Date: 5/7/2013	Analyst: JG
Lead	0.2	0.005		mg/L	5	5/8/2013
<b>pH (25 °C)</b>	<b>SW9045C</b>				Prep Date: 5/10/2013	Analyst: RW
pH	7.2			pH Units	1	5/10/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: 5/9/2013	Analyst: RW
Percent Moisture	24.4	0.2	*	wt%	1	5/10/2013

24  
6/3/13

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-183-01(0-6)-050213
<b>Lab Order:</b>	13050170	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	5/2/2013 9:15:00 AM
<b>Lab ID:</b>	13050170-011B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: 5/18/2013	Analyst: BJA
Lead	1200	1		mg/Kg-dry	10	5/19/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-180-01(0-6)-050213
<b>Lab Order:</b>	13050170	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date</b>	5/2/2013 10:10:00 AM
<b>Lab ID:</b>	13050170-012A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>				Prep Date: <b>5/9/2013</b>	Analyst: <b>LB</b>
Mercury	0.36	0.02		mg/Kg-dry	1	5/9/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>5/9/2013</b>	Analyst: <b>JG</b>
Antimony	42 <b>J</b>	2.3		mg/Kg-dry	10	5/10/2013
Cadmium	6	0.58		mg/Kg-dry	10	5/10/2013
Chromium	28	1.2		mg/Kg-dry	10	5/10/2013
Copper	300	2.9		mg/Kg-dry	10	5/10/2013
Lead	810	0.58		mg/Kg-dry	10	5/10/2013
Tin	36	5.8	*	mg/Kg-dry	10	5/10/2013
Zinc	2300	58		mg/Kg-dry	100	5/9/2013
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>				Prep Date: <b>5/7/2013</b>	Analyst: <b>JG</b>
Lead	0.16	0.005		mg/L	5	5/7/2013
<b>pH (25 °C)</b>	<b>SW9045C</b>				Prep Date: <b>5/10/2013</b>	Analyst: <b>RW</b>
pH	7.1			pH Units	1	5/10/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: <b>5/9/2013</b>	Analyst: <b>RW</b>
Percent Moisture	15.2	0.2	*	wt%	1	5/10/2013

29  
6/3/13

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-180-01(0-6)-050213
<b>Lab Order:</b>	13050170	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	5/2/2013 10:10:00 AM
<b>Lab ID:</b>	13050170-012B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: 5/18/2013	Analyst: BJA
Lead	870	1		mg/Kg-dry	10	5/19/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded



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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-180-02(0-6)-050213
<b>Lab Order:</b> 13050170	<b>Tag Number:</b>
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 5/2/2013 10:15:00 AM
<b>Lab ID:</b> 13050170-013A	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>					
Mercury	0.35	0.021		mg/Kg-dry	1	Prep Date: 5/9/2013 Analyst: LB 5/9/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>					
Antimony	ND	2.2		mg/Kg-dry	10	Prep Date: 5/9/2013 Analyst: JG 5/10/2013
Cadmium	6.5	0.55		mg/Kg-dry	10	5/10/2013
Chromium	18	1.1		mg/Kg-dry	10	5/10/2013
Copper	330	2.7		mg/Kg-dry	10	5/10/2013
Lead	3000	0.55		mg/Kg-dry	10	5/10/2013
Tin	140	5.5	*	mg/Kg-dry	10	5/10/2013
Zinc	2800	55		mg/Kg-dry	100	5/9/2013
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>					
Lead	0.66	0.005		mg/L	5	Prep Date: 5/7/2013 Analyst: JG 5/7/2013
<b>pH (25 °C)</b>	<b>SW9045C</b>					
pH	8.0			pH Units	1	Prep Date: 5/10/2013 Analyst: RW 5/10/2013
<b>Percent Moisture</b>	<b>D2974</b>					
Percent Moisture	12.5	0.2	*	wt%	1	Prep Date: 5/9/2013 Analyst: RW 5/10/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-180-02(0-6)-050213
<b>Lab Order:</b> 13050170	<b>Tag Number:</b> Fine Grained
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 5/2/2013 10:15:00 AM
<b>Lab ID:</b> 13050170-013B	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: 5/18/2013	Analyst: BJA
Lead	1500	1		mg/Kg-dry	10	5/19/2013

**Qualifiers:**

ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-105-01(0-6)-050213
<b>Lab Order:</b> 13050170	<b>Tag Number:</b>
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 5/2/2013 12:15:00 PM
<b>Lab ID:</b> 13050170-014A	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>				Prep Date: 5/9/2013	Analyst: LB
Mercury	0.45	0.042		mg/Kg-dry	2	5/9/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: 5/9/2013	Analyst: JG
Antimony	ND JJ	2.2		mg/Kg-dry	10	5/10/2013
Cadmium	2.1	0.56		mg/Kg-dry	10	5/10/2013
Chromium	23	1.1		mg/Kg-dry	10	5/10/2013
Copper	99	2.8		mg/Kg-dry	10	5/10/2013
Lead	640	0.56		mg/Kg-dry	10	5/10/2013
Tin	30 J	5.6	*	mg/Kg-dry	10	5/10/2013
Zinc	930	56		mg/Kg-dry	100	5/9/2013
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>				Prep Date: 5/7/2013	Analyst: JG
Lead	0.23	0.005		mg/L	5	5/7/2013
<b>pH (25 °C)</b>	<b>SW9045C</b>				Prep Date: 5/10/2013	Analyst: RW
pH	7.7			pH Units	1	5/10/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: 5/9/2013	Analyst: RW
Percent Moisture	18.6	0.2	*	wt%	1	5/10/2013

28  
6/3/13

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-105-01(0-6)-050213
<b>Lab Order:</b>	13050170	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	5/2/2013 12:15:00 PM
<b>Lab ID:</b>	13050170-014B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: <b>5/18/2013</b>	Analyst: <b>JG</b>
Lead	650	3.2		mg/Kg	20	5/21/2013

**Qualifiers:**

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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-105-01(0-6)-050213
<b>Lab Order:</b> 13050170	<b>Tag Number:</b>
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 5/2/2013 12:20:00 PM
<b>Lab ID:</b> 13050170-015A	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>					
Mercury	0.48	0.019		mg/Kg-dry	1	Prep Date: 5/9/2013 Analyst: LB 5/9/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>					
Antimony	ND	2.3		mg/Kg-dry	10	Prep Date: 5/9/2013 Analyst: JG 5/10/2013
Cadmium	2.6	0.57		mg/Kg-dry	10	5/10/2013
Chromium	28	11		mg/Kg-dry	100	5/9/2013
Copper	240	28		mg/Kg-dry	100	5/9/2013
Lead	990	0.57		mg/Kg-dry	10	5/10/2013
Tin	21	5.7	*	mg/Kg-dry	10	5/10/2013
Zinc	1100	57		mg/Kg-dry	100	5/9/2013
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>					
Lead	0.25	0.005		mg/L	5	Prep Date: 5/7/2013 Analyst: JG 5/7/2013
<b>pH (25 °C)</b>	<b>SW9045C</b>					
pH	7.5			pH Units	1	Prep Date: 5/10/2013 Analyst: RW 5/10/2013
<b>Percent Moisture</b>	<b>D2974</b>					
Percent Moisture	17.2	0.2	*	wt%	1	Prep Date: 5/9/2013 Analyst: RW 5/10/2013

**Qualifiers:**

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 HT - Sample received past holding time  
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 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-105-01(0-6)-050213
<b>Lab Order:</b>	13050170	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	5/2/2013 12:20:00 PM
<b>Lab ID:</b>	13050170-015B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: 5/18/2013	Analyst: BJA
Lead	2100	0.98		mg/Kg-dry	10	5/19/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
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	HT - Sample received past holding time	E - Value above quantitation range
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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-105-03(0-6)-050213
<b>Lab Order:</b>	13050170	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date</b>	5/2/2013 12:25:00 PM
<b>Lab ID:</b>	13050170-016A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>						
Lead	810	0.59		mg/Kg-dry	10	5/10/2013
<b>Percent Moisture</b>						
Percent Moisture	17.9	0.2		wt%	1	5/10/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-105-04(0-6)-050213
<b>Lab Order:</b>	13050170	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	5/2/2013 12:30:00 PM
<b>Lab ID:</b>	13050170-017A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: 5/9/2013	Analyst: JG
Lead	1500	0.61		mg/Kg-dry	10	5/10/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: 5/9/2013	Analyst: RW
Percent Moisture	20.4	0.2	*	wt%	1	5/10/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded



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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-104-01(0-6)-050213
<b>Lab Order:</b> 13050170	<b>Tag Number:</b>
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 5/2/2013 2:20:00 PM
<b>Lab ID:</b> 13050170-018A	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>					
Mercury	0.55	0.022		mg/Kg-dry	1	Prep Date: 5/9/2013 Analyst: LB 5/9/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>					
Antimony	2.3 J	2.3		mg/Kg-dry	10	Prep Date: 5/9/2013 Analyst: JG 5/10/2013
Cadmium	6	0.57		mg/Kg-dry	10	5/10/2013
Chromium	24	1.1		mg/Kg-dry	10	5/10/2013
Copper	190	2.8		mg/Kg-dry	10	5/10/2013
Lead	930	0.57		mg/Kg-dry	10	5/10/2013
Tin	34	5.7	*	mg/Kg-dry	10	5/10/2013
Zinc	1500	57		mg/Kg-dry	100	5/9/2013
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>					
Lead	0.42	0.005		mg/L	5	Prep Date: 5/7/2013 Analyst: JG 5/7/2013
<b>pH (25 °C)</b>	<b>SW9045C</b>					
pH	7.9			pH Units	1	Prep Date: 5/10/2013 Analyst: RW 5/10/2013
<b>Percent Moisture</b>	<b>D2974</b>					
Percent Moisture	17.2	0.2	*	wt%	1	Prep Date: 5/9/2013 Analyst: RW 5/10/2013

22  
6/3/13

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-104-01(0-6)-050213
<b>Lab Order:</b>	13050170	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	5/2/2013 2:20:00 PM
<b>Lab ID:</b>	13050170-018B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: 5/18/2013	Analyst: BJA
Lead	1100	0.96		mg/Kg-dry	10	5/19/2013

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 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-104-02(0-6)-050213
<b>Lab Order:</b> 13050170	<b>Tag Number:</b>
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 5/2/2013 2:25:00 PM
<b>Lab ID:</b> 13050170-019A	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>					
Mercury	0.57	0.024		mg/Kg-dry	1	Prep Date: 5/9/2013 Analyst: LB 5/9/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>					
Antimony	2.8 J	2.3		mg/Kg-dry	10	Prep Date: 5/9/2013 Analyst: JG 5/10/2013
Cadmium	7.6	0.58		mg/Kg-dry	10	5/10/2013
Chromium	33	1.2		mg/Kg-dry	10	5/10/2013
Copper	340	2.9		mg/Kg-dry	10	5/10/2013
Lead	1400	0.58		mg/Kg-dry	10	5/10/2013
Tin	53	5.8	*	mg/Kg-dry	10	5/10/2013
Zinc	2400	58		mg/Kg-dry	100	5/9/2013
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>					
Lead	0.36	0.005		mg/L	5	Prep Date: 5/7/2013 Analyst: JG 5/7/2013
<b>pH (25 °C)</b>	<b>SW9045C</b>					
pH	6.2			pH Units	1	Prep Date: 5/10/2013 Analyst: RW 5/10/2013
<b>Percent Moisture</b>	<b>D2974</b>					
Percent Moisture	22.4	0.2	*	wt%	1	Prep Date: 5/9/2013 Analyst: RW 5/10/2013

2 g  
6/3/13

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-104-02(0-6)-050213
<b>Lab Order:</b>	13050170	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	5/2/2013 2:25:00 PM
<b>Lab ID:</b>	13050170-019B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: 5/18/2013	Analyst: BJA
Lead	1300	1		mg/Kg-dry	10	5/19/2013

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- \* - Non-accredited parameter

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- R - RPD outside accepted recovery limits
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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-186-01(0-6)-050213
<b>Lab Order:</b> 13050170	<b>Tag Number:</b>
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 5/2/2013 3:50:00 PM
<b>Lab ID:</b> 13050170-020A	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>					
Mercury	0.21	0.022		mg/Kg-dry	1	Prep Date: 5/9/2013 Analyst: LB 5/9/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>					
Antimony	ND	2.2		mg/Kg-dry	10	Prep Date: 5/9/2013 Analyst: JG 5/10/2013
Cadmium	1.9	0.55		mg/Kg-dry	10	5/10/2013
Chromium	23	1.1		mg/Kg-dry	10	5/10/2013
Copper	180	2.7		mg/Kg-dry	10	5/10/2013
Lead	360	0.55		mg/Kg-dry	10	5/10/2013
Tin	19	5.5	*	mg/Kg-dry	10	5/10/2013
Zinc	970	55		mg/Kg-dry	100	5/9/2013
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>					
Lead	0.2	0.005		mg/L	5	Prep Date: 5/7/2013 Analyst: JG 5/7/2013
<b>pH (25 °C)</b>	<b>SW9045C</b>					
pH	8.0			pH Units	1	Prep Date: 5/10/2013 Analyst: RW 5/10/2013
<b>Percent Moisture</b>	<b>D2974</b>					
Percent Moisture	15.1	0.2		wt%	1	Prep Date: 5/9/2013 Analyst: RW 5/10/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-186-01(0-6)-050213
<b>Lab Order:</b>	13050170	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	5/2/2013 3:50:00 PM
<b>Lab ID:</b>	13050170-020B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: 5/18/2013	Analyst: BJA
Lead	600	0.99		mg/Kg-dry	10	5/19/2013

**Qualifiers:**

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-186-02(0-6)-050213
<b>Lab Order:</b> 13050170	<b>Tag Number:</b>
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 5/2/2013 3:55:00 PM
<b>Lab ID:</b> 13050170-021A	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>				Prep Date: <b>5/9/2013</b>	Analyst: <b>LB</b>
Mercury	0.3	0.018		mg/Kg-dry	1	5/9/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>5/9/2013</b>	Analyst: <b>JG</b>
Antimony	ND	2.3		mg/Kg-dry	10	5/10/2013
Cadmium	2	0.57		mg/Kg-dry	10	5/10/2013
Chromium	19	1.1		mg/Kg-dry	10	5/10/2013
Copper	160	2.9		mg/Kg-dry	10	5/10/2013
Lead	320	0.57		mg/Kg-dry	10	5/10/2013
Tin	20	5.7	*	mg/Kg-dry	10	5/10/2013
Zinc	900	57		mg/Kg-dry	100	5/9/2013
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>				Prep Date: <b>5/7/2013</b>	Analyst: <b>JG</b>
Lead	0.056	0.005		mg/L	5	5/7/2013
<b>pH (25 °C)</b>	<b>SW9045C</b>				Prep Date: <b>5/10/2013</b>	Analyst: <b>RW</b>
pH	7.8			pH Units	1	5/10/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: <b>5/9/2013</b>	Analyst: <b>RW</b>
Percent Moisture	16.8	0.2	*	wt%	1	5/10/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-186-02(0-6)-050213
<b>Lab Order:</b>	13050170	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	5/2/2013 3:55:00 PM
<b>Lab ID:</b>	13050170-021B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: 5/19/2013	Analyst: JG
Lead	760	10		mg/Kg-dry	100	5/19/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded



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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-104-03(0-6)-050213
<b>Lab Order:</b>	13050170	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date</b>	5/2/2013 4:00:00 PM
<b>Lab ID:</b>	13050170-022A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>						
Lead	730	0.61		mg/Kg-dry	10	5/10/2013
<b>Percent Moisture</b>						
Percent Moisture	19.4	0.2		wt%	1	5/10/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-104-04(0-6)-050213
<b>Lab Order:</b> 13050170	<b>Tag Number:</b>
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 5/2/2013 4:05:00 PM
<b>Lab ID:</b> 13050170-023A	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>						
Lead	500	0.53		mg/Kg-dry	10	5/10/2013
<b>Percent Moisture</b>						
Percent Moisture	18.6	0.2	*	wt%	1	5/10/2013

**Qualifiers:**

- ND - Not Detected at the Reporting Limit
- J - Analyte detected below quantitation limits
- B - Analyte detected in the associated Method Blank
- HT - Sample received past holding time
- \* - Non-accredited parameter

- RL - Reporting / Quantitation Limit for the analysis
- S - Spike Recovery outside accepted recovery limits
- R - RPD outside accepted recovery limits
- E - Value above quantitation range
- H - Holding time exceeded

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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-191-01(0-6)-050213
<b>Lab Order:</b>	13050170	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date</b>	5/2/2013 4:35:00 PM
<b>Lab ID:</b>	13050170-024A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>					
Mercury	1	0.18		mg/Kg-dry	10	Prep Date: 5/9/2013 Analyst: LB 5/9/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>					
Antimony	39 J	2.4		mg/Kg-dry	10	Prep Date: 5/9/2013 Analyst: JG 5/10/2013
Cadmium	14	0.61		mg/Kg-dry	10	5/10/2013
Chromium	28	1.2		mg/Kg-dry	10	5/10/2013
Copper	1100	3		mg/Kg-dry	10	5/10/2013
Lead	2000	0.61		mg/Kg-dry	10	5/10/2013
Tin	120	6.1	*	mg/Kg-dry	10	5/10/2013
Zinc	7200	61		mg/Kg-dry	100	5/9/2013
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>					
Lead	1.1	0.005		mg/L	5	Prep Date: 5/9/2013 Analyst: JG 5/9/2013
<b>pH (25 °C)</b>	<b>SW9045C</b>					
pH	7.7			pH Units	1	Prep Date: 5/10/2013 Analyst: RW 5/10/2013
<b>Percent Moisture</b>	<b>D2974</b>					
Percent Moisture	18.6	0.2	*	wt%	1	Prep Date: 5/9/2013 Analyst: RW 5/10/2013

24  
6/3/13

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-191-01(0-6)-050213
<b>Lab Order:</b>	13050170	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date</b>	5/2/2013 4:35:00 PM
<b>Lab ID:</b>	13050170-024B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: <b>5/18/2013</b>	Analyst: <b>BJA</b>
Lead	1900	0.96		mg/Kg-dry	10	5/19/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-191-01(0-6)-050213D
<b>Lab Order:</b> 13050170	<b>Tag Number:</b>
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 5/2/2013 4:40:00 PM
<b>Lab ID:</b> 13050170-025A	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>					Prep Date: <b>5/9/2013</b> Analyst: <b>LB</b>
Mercury	1	0.046		mg/Kg-dry	2	5/9/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>					Prep Date: <b>5/9/2013</b> Analyst: <b>JG</b>
Antimony	4.4 J	2.5		mg/Kg-dry	10	5/10/2013
Cadmium	16	0.63		mg/Kg-dry	10	5/10/2013
Chromium	37	1.3		mg/Kg-dry	10	5/10/2013
Copper	1400	31		mg/Kg-dry	100	5/9/2013
Lead	2400	0.63		mg/Kg-dry	10	5/10/2013
Tin	160	6.3	*	mg/Kg-dry	10	5/10/2013
Zinc	6800	63		mg/Kg-dry	100	5/9/2013
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>					Prep Date: <b>5/9/2013</b> Analyst: <b>JG</b>
Lead	1	0.005		mg/L	5	5/9/2013
<b>pH (25 °C)</b>	<b>SW9045C</b>					Prep Date: <b>5/10/2013</b> Analyst: <b>RW</b>
pH	7.6			pH Units	1	5/10/2013
<b>Percent Moisture</b>	<b>D2974</b>					Prep Date: <b>5/9/2013</b> Analyst: <b>RW</b>
Percent Moisture	20.8	0.2	*	wt%	1	5/10/2013

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6/3/13

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-191-01(0-6)-050213D
<b>Lab Order:</b>	13050170	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date</b>	5/2/2013 4:40:00 PM
<b>Lab ID:</b>	13050170-025B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: 5/19/2013	Analyst: JG
Lead	2000	9.8		mg/Kg-dry	100	5/19/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-193-01(0-6)-050313
<b>Lab Order:</b> 13050170	<b>Tag Number:</b>
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 5/3/2013 9:30:00 AM
<b>Lab ID:</b> 13050170-026A	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>					
Mercury	0.092	0.02		mg/Kg-dry	1	Prep Date: 5/9/2013 Analyst: LB 5/9/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>					
Antimony	ND	2.3		mg/Kg-dry	10	Prep Date: 5/9/2013 Analyst: JG 5/10/2013
Cadmium	2.3	0.58		mg/Kg-dry	10	5/10/2013
Chromium	30	1.2		mg/Kg-dry	10	5/10/2013
Copper	210	2.9		mg/Kg-dry	10	5/10/2013
Lead	580	0.58		mg/Kg-dry	10	5/10/2013
Tin	19	5.8	*	mg/Kg-dry	10	5/10/2013
Zinc	1000	58		mg/Kg-dry	100	5/9/2013
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>					
Lead	0.019	0.005		mg/L	5	Prep Date: 5/9/2013 Analyst: JG 5/9/2013
<b>pH (25 °C)</b>	<b>SW9045C</b>					
pH	7.4			pH Units	1	Prep Date: 5/10/2013 Analyst: RW 5/10/2013
<b>Percent Moisture</b>	<b>D2974</b>					
Percent Moisture	20.2	0.2	*	wt%	1	Prep Date: 5/9/2013 Analyst: RW 5/10/2013

**Qualifiers:**

ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-193-01(0-6)-050313
<b>Lab Order:</b>	13050170	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	5/3/2013 9:30:00 AM
<b>Lab ID:</b>	13050170-026B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: 5/19/2013	Analyst: JG
Lead	840	9.7		mg/Kg-dry	100	5/19/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded



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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-125-01(0-6)-050313
<b>Lab Order:</b> 13050170	<b>Tag Number:</b>
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 5/3/2013 12:00:00 PM
<b>Lab ID:</b> 13050170-027A	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>					
Mercury	1.1	0.11		mg/Kg-dry	5	5/9/2013
						Analyst: <b>LB</b>
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>					
Antimony	4.7 J	2.4		mg/Kg-dry	10	5/10/2013
Cadmium	10	0.59		mg/Kg-dry	10	5/10/2013
Chromium	61	1.2		mg/Kg-dry	10	5/10/2013
Copper	410	2.9		mg/Kg-dry	10	5/10/2013
Lead	1500	0.59		mg/Kg-dry	10	5/10/2013
Tin	63	5.9	*	mg/Kg-dry	10	5/10/2013
Zinc	2900	59		mg/Kg-dry	100	5/10/2013
						Analyst: <b>JG</b>
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>					
Lead	0.37	0.005		mg/L	5	5/9/2013
						Analyst: <b>JG</b>
<b>pH (25 °C)</b>	<b>SW9045C</b>					
pH	6.7			pH Units	1	5/10/2013
						Analyst: <b>RW</b>
<b>Percent Moisture</b>	<b>D2974</b>					
Percent Moisture	21.6	0.2	*	wt%	1	5/10/2013
						Analyst: <b>RW</b>

2 J  
6/3/13

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-125-01(0-6)-050313
<b>Lab Order:</b>	13050170	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	5/3/2013 12:00:00 PM
<b>Lab ID:</b>	13050170-027B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: 5/19/2013	Analyst: JG
Lead	1700	10		mg/Kg-dry	100	5/19/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	R - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-125-02(0-6)-050313
<b>Lab Order:</b> 13050170	<b>Tag Number:</b>
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 5/3/2013 12:05:00 PM
<b>Lab ID:</b> 13050170-028A	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>					
Mercury	0.72	0.025		mg/Kg-dry	1	Prep Date: 5/9/2013 Analyst: LB 5/9/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>					
Antimony	3.1 J	2.4		mg/Kg-dry	10	Prep Date: 5/9/2013 Analyst: JG 5/10/2013
Cadmium	7.4	0.6		mg/Kg-dry	10	5/10/2013
Chromium	51	1.2		mg/Kg-dry	10	5/10/2013
Copper	280	3		mg/Kg-dry	10	5/10/2013
Lead	1100	0.6		mg/Kg-dry	10	5/10/2013
Tin	50	6	*	mg/Kg-dry	10	5/10/2013
Zinc	2200	60		mg/Kg-dry	100	5/10/2013
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>					
Lead	0.32	0.005		mg/L	5	Prep Date: 5/9/2013 Analyst: JG 5/9/2013
<b>pH (25 °C)</b>	<b>SW9045C</b>					
pH	8.2			pH Units	1	Prep Date: 5/10/2013 Analyst: RW 5/10/2013
<b>Percent Moisture</b>	<b>D2974</b>					
Percent Moisture	18.5	0.2	*	wt%	1	Prep Date: 5/9/2013 Analyst: RW 5/10/2013

29  
6/3/13

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-125-02(0-6)-050313
<b>Lab Order:</b>	13050170	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	5/3/2013 12:05:00 PM
<b>Lab ID:</b>	13050170-028B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: 5/19/2013	Analyst: JG
Lead	910	9.8		mg/Kg-dry	100	5/19/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-125-03(0-6)-050313
<b>Lab Order:</b> 13050170	<b>Tag Number:</b>
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 5/3/2013 12:10:00 PM
<b>Lab ID:</b> 13050170-029A	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>				Prep Date: 5/9/2013	Analyst: LB
Mercury	0.41	0.028		mg/Kg-dry	1	5/10/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: 5/9/2013	Analyst: JG
Antimony	2.6 J	2.3		mg/Kg-dry	10	5/10/2013
Cadmium	4.8	0.57		mg/Kg-dry	10	5/10/2013
Chromium	29	1.1		mg/Kg-dry	10	5/10/2013
Copper	230	2.9		mg/Kg-dry	10	5/10/2013
Lead	700	0.57		mg/Kg-dry	10	5/10/2013
Tin	31	5.7	*	mg/Kg-dry	10	5/10/2013
Zinc	1500	57		mg/Kg-dry	100	5/10/2013
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>				Prep Date: 5/9/2013	Analyst: JG
Lead	0.09	0.005		mg/L	5	5/9/2013
<b>pH (25 °C)</b>	<b>SW9045C</b>				Prep Date: 5/10/2013	Analyst: RW
pH	7.7			pH Units	1	5/10/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: 5/9/2013	Analyst: RW
Percent Moisture	24.8	0.2	*	wt%	1	5/10/2013

29  
6/3/13

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-125-03(0-6)-050313
<b>Lab Order:</b>	13050170	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	5/3/2013 12:10:00 PM
<b>Lab ID:</b>	13050170-029B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: 5/19/2013	Analyst: JG
Lead	950	10		mg/Kg-dry	100	5/19/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-125-04(0-6)-050313
<b>Lab Order:</b>	13050170	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date</b>	5/3/2013 12:15:00 PM
<b>Lab ID:</b>	13050170-030A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>5/9/2013</b>	Analyst: <b>JG</b>
Lead	1200	0.58		mg/Kg-dry	10	5/10/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: <b>5/9/2013</b>	Analyst: <b>RW</b>
Percent Moisture	19.2	0.2	*	wt%	1	5/10/2013

**Qualifiers:**

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-125-05(0-6)-050313
<b>Lab Order:</b>	13050170	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date</b>	5/3/2013 12:20:00 PM
<b>Lab ID:</b>	13050170-031A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: 5/9/2013	Analyst: JG
Lead	1400	0.62		mg/Kg-dry	10	5/9/2013
<b>Percent Moisture</b>		<b>D2974</b>			Prep Date: 5/9/2013	Analyst: RW
Percent Moisture	22.3	0.2		wt%	1	5/10/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded



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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-123-01(0-6)-050313
<b>Lab Order:</b>	13050170	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date</b>	5/3/2013 12:50:00 PM
<b>Lab ID:</b>	13050170-032A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>					
Mercury	0.86	0.046		mg/Kg-dry	2	Prep Date: 5/9/2013 Analyst: LB 5/9/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>					
Antimony	ND	2.4		mg/Kg-dry	10	Prep Date: 5/9/2013 Analyst: JG 5/9/2013
Cadmium	5.5	0.59		mg/Kg-dry	10	5/9/2013
Chromium	27	1.2		mg/Kg-dry	10	5/9/2013
Copper	320	3		mg/Kg-dry	10	5/9/2013
Lead	1100	0.59		mg/Kg-dry	10	5/9/2013
Tin	46	5.9	*	mg/Kg-dry	10	5/9/2013
Zinc	1900	59		mg/Kg-dry	100	5/10/2013
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>					
Lead	0.16	0.005		mg/L	5	Prep Date: 5/9/2013 Analyst: JG 5/10/2013
<b>pH (25 °C)</b>	<b>SW9045C</b>					
pH	7.8			pH Units	1	Prep Date: 5/10/2013 Analyst: RW 5/10/2013
<b>Percent Moisture</b>	<b>D2974</b>					
Percent Moisture	22.9	0.2	*	wt%	1	Prep Date: 5/9/2013 Analyst: RW 5/10/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-123-01(0-6)-050313
<b>Lab Order:</b>	13050170	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	5/3/2013 12:50:00 PM
<b>Lab ID:</b>	13050170-032B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: 5/19/2013	Analyst: JG
Lead	1400	9.7		mg/Kg-dry	100	5/19/2013

**Qualifiers:**

- ND - Not Detected at the Reporting Limit
- J - Analyte detected below quantitation limits
- B - Analyte detected in the associated Method Blank
- HT - Sample received past holding time
- \* - Non-accredited parameter

- RL - Reporting / Quantitation Limit for the analysis
- S - Spike Recovery outside accepted recovery limits
- R - RPD outside accepted recovery limits
- E - Value above quantitation range
- H - Holding time exceeded

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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-127-01(0-6)-050313
<b>Lab Order:</b> 13050170	<b>Tag Number:</b>
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 5/3/2013 2:40:00 PM
<b>Lab ID:</b> 13050170-033A	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>		Prep Date: <b>5/9/2013</b>		Analyst: <b>LB</b>	
Mercury	2.1	0.25		mg/Kg-dry	10	5/9/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>		Prep Date: <b>5/9/2013</b>		Analyst: <b>JG</b>	
Antimony	2.6 J	2.3		mg/Kg-dry	10	5/9/2013
Cadmium	7.6	0.58		mg/Kg-dry	10	5/9/2013
Chromium	26	1.2		mg/Kg-dry	10	5/9/2013
Copper	520	2.9		mg/Kg-dry	10	5/9/2013
Lead	2500	0.58		mg/Kg-dry	10	5/9/2013
Tin	61	5.8	*	mg/Kg-dry	10	5/9/2013
Zinc	3200	58		mg/Kg-dry	100	5/10/2013
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>		Prep Date: <b>5/9/2013</b>		Analyst: <b>JG</b>	
Lead	0.94	0.005		mg/L	5	5/10/2013
<b>pH (25 °C)</b>	<b>SW9045C</b>		Prep Date: <b>5/10/2013</b>		Analyst: <b>RW</b>	
pH	7.5			pH Units	1	5/10/2013
<b>Percent Moisture</b>	<b>D2974</b>		Prep Date: <b>5/9/2013</b>		Analyst: <b>RW</b>	
Percent Moisture	26.0	0.2	*	wt%	1	5/10/2013

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6/3/13

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-127-01(0-6)-050313
<b>Lab Order:</b> 13050170	<b>Tag Number:</b> Fine Grained
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 5/3/2013 2:40:00 PM
<b>Lab ID:</b> 13050170-033B	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>In Vitro Extractable Metals by ICP/MS</b>	<b>EPA 9200/6020 (SW3005A)</b>				Prep Date: 5/21/2013	Analyst: JG
Lead	21	0.12	*	mg/L	25	5/22/2013
<b>In Vitro Bioaccessibility</b>	<b>EPA 9200/6020</b>				Prep Date: 5/22/2013	Analyst: JG
Lead	73.3	0.01	*	%	1	5/22/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: 5/19/2013	Analyst: JG
Lead	2700	4.9		mg/Kg-dry	100	5/19/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-122-01(0-6)-050313
<b>Lab Order:</b> 13050170	<b>Tag Number:</b>
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 5/3/2013 4:00:00 PM
<b>Lab ID:</b> 13050170-034A	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>				Prep Date: <b>5/9/2013</b>	Analyst: <b>LB</b>
Mercury	0.76	0.023		mg/Kg-dry	1	5/9/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>5/9/2013</b>	Analyst: <b>JG</b>
Antimony	ND	2.3		mg/Kg-dry	10	5/9/2013
Cadmium	6.7	0.58		mg/Kg-dry	10	5/9/2013
Chromium	36	1.2		mg/Kg-dry	10	5/9/2013
Copper	540	2.9		mg/Kg-dry	10	5/9/2013
Lead	1900	0.58		mg/Kg-dry	10	5/9/2013
Tin	57	5.8	*	mg/Kg-dry	10	5/9/2013
Zinc	3000	58		mg/Kg-dry	100	5/10/2013
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>				Prep Date: <b>5/9/2013</b>	Analyst: <b>JG</b>
Lead	0.49	0.005		mg/L	5	5/10/2013
<b>pH (25 °C)</b>	<b>SW9045C</b>				Prep Date: <b>5/10/2013</b>	Analyst: <b>RW</b>
pH	7.0			pH Units	1	5/10/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: <b>5/9/2013</b>	Analyst: <b>RW</b>
Percent Moisture	22.4	0.2	*	wt%	1	5/10/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
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	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-122-01(0-6)-050313
<b>Lab Order:</b> 13050170	<b>Tag Number:</b> Fine Grained
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 5/3/2013 4:00:00 PM
<b>Lab ID:</b> 13050170-034B	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>In Vitro Extractable Metals by ICP/MS</b>	<b>EPA 9200/6020 (SW3005A)</b>				Prep Date: 5/21/2013	Analyst: JG
Lead	14	0.12	*	mg/L	25	5/22/2013
<b>In Vitro Bioaccessibility</b>	<b>EPA 9200/6020</b>				Prep Date: 5/22/2013	Analyst: JG
Lead	50.4	0.01		%	1	5/22/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: 5/19/2013	Analyst: JG
Lead	2700	4.9		mg/Kg-dry	100	5/19/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-122-02(0-6)-050313
<b>Lab Order:</b>	13050170	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date</b>	5/3/2013 4:05:00 PM
<b>Lab ID:</b>	13050170-035A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>					
Mercury	0.59	0.02		mg/Kg-dry	1	Prep Date: 5/9/2013 Analyst: LB 5/9/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>					
Antimony	3 J	2.1		mg/Kg-dry	10	Prep Date: 5/9/2013 Analyst: JG 5/9/2013
Cadmium	4.5	0.52		mg/Kg-dry	10	5/9/2013
Chromium	25	1		mg/Kg-dry	10	5/9/2013
Copper	290	2.6		mg/Kg-dry	10	5/9/2013
Lead	920	0.52		mg/Kg-dry	10	5/9/2013
Tin	38	5.2	*	mg/Kg-dry	10	5/9/2013
Zinc	2400	52		mg/Kg-dry	100	5/10/2013
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>					
Lead	0.47	0.005		mg/L	5	Prep Date: 5/9/2013 Analyst: JG 5/10/2013
<b>pH (25 °C)</b>	<b>SW9045C</b>					
pH	7.4			pH Units	1	Prep Date: 5/10/2013 Analyst: RW 5/10/2013
<b>Percent Moisture</b>	<b>D2974</b>					
Percent Moisture	10.9	0.2	*	wt%	1	Prep Date: 5/8/2013 Analyst: RW 5/10/2013

29  
6/3/13

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
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	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-122-02(0-6)-050313
<b>Lab Order:</b>	13050170	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date</b>	5/3/2013 4:05:00 PM
<b>Lab ID:</b>	13050170-035B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: <b>5/19/2013</b>	Analyst: <b>JG</b>
Lead	1400	9.9		mg/Kg-dry	100	5/19/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded



**PILSEN AREA SOIL SITE  
CHICAGO, ILLINOIS  
DATA VALIDATION REPORT**

**Date:** May 28, 2013

**Laboratory:** STAT Analysis Corporation (STAT), Chicago, Illinois

**Laboratory Project #:** 13050282

**Data Validation Performed By:** Lisa Graczyk, Weston Solutions, Inc. (WESTON<sup>®</sup>) Superfund Technical Assessment and Response Team (START)

**Analytical TDD and Work Order #:** S05-0001-1211-003/20405.016.001.2038.00

This data validation report has been prepared by WESTON START under the START III Region V contract. This report documents the data validation for 33 soil samples collected for the Pilsen Area Soil Site that were analyzed for the following parameters and U.S. Environmental Protection Agency methods:

- Total Metals by SW-846 Methods 6020 and 7471A
- Fine Grained Lead by SW-846 Method 6020
- Bioavailability Lead by EPA Method 9200 and SW-846 Method 6020
- Toxicity Characteristic Leaching Procedure (TCLP) Lead by SW-846 Methods 1311 and 6020
- pH by SW-846 Method 9045C
- Moisture Content by ASTM D2974

A level II data package was requested from STAT. The data validation was conducted in general accordance with the EPA "Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review" dated January 2010. The Attachment contains the results summary sheets with the hand-written qualifiers applied during data validation.

**TOTAL METALS AND FINE GRAINED LEAD BY EPA SW-846 METHODS 6020 AND 7471A  
AND BIOAVAILABLE LEAD BY EPA METHOD 9200 AND SW-846 METHOD 6020**

**1. Samples**

Attachment A summarizes the samples for which this data validation is being conducted. It includes but the laboratory sample identification, the WESTON START sample identification, and the date and time of sample collection.

**2. Holding Times**

The samples were analyzed within the required holding time limit of 28 days for mercury and 180 days from sample collection to analysis for all other metals.

### 3. **Blank Results**

Method blanks were analyzed with the metals analyses. The blanks contained no metals contamination above the reporting limits. There were detections of some metals below the reporting limits in the blanks. However, the sample results were much greater or contained no detections of these metals. No qualifications were required.

### 4. **Laboratory Control Sample (LCS) Results**

The LCS recoveries were within the quality control (QC) limits except for as follows.

In one LCS, antimony was detected high. Detected antimony results associated with this LCS were flagged “J” as estimated.

### 5. **Matrix Spike (MS) and MS Duplicate (MSD) Results**

STAT analyzed several site-specific MS/MSDs. The percent recoveries and relative percent differences (RPD) were within QC limits except for as follows.

In many instances of QC limits not being met, the sample concentration was more than four times the spike amount. In these instances, no qualifications were required.

In the MS and MSD of sample PA-RR14,15,16(0-6)-050613, the antimony recovery was low. The antimony result in this sample was flagged “J” as estimated.

In the MS and MSD of sample PA-351-01(0-6)-050713, the copper recovery was high and the antimony recovery was low. The copper result in this sample was flagged “J” and the quantitation limit for antimony was flagged “UJ” as estimated.

### 6. **Field Duplicate Results**

There are two field duplicate samples associated with this work order that are identified by a “D” suffix in the sample name.

The field duplicate results were evaluated by calculating the RPDs between the investigative and field duplicate sample results. There is no established QC limit for RPD for field duplicates; however, 50 RPD is generally used for evaluation. The RPDs for detected metals were below 50 which is acceptable.

### 7. **Overall Assessment**

The metals data are acceptable for use as qualified based on the information received.

## **TCLP METALS BY EPA SW-846 METHODS 1311 AND 6020**

### **1. Samples**

Attachment A summarizes the samples for which this data validation is being conducted. It includes but the laboratory sample identification, the WESTON START sample identification, and the date and time of sample collection.

### **2. Holding Times**

The samples were analyzed within the required holding time limit of 180 days from sample collection.

### **3. Blank Results**

Method blanks were analyzed with the metals analyses. Some of the blanks contained some minor lead contamination. However, the TCLP lead results were much greater than the blank results and no qualifications were required.

### **4. LCS Results**

The LCS recoveries were within the QC limits.

### **5. MS and MSD Results**

STAT analyzed two site-specific MS/MSD samples. The percent recoveries and RPDs were within QC limits except for as follows.

### **6. Field Duplicate Results**

There are two field duplicate samples associated with this work order that are identified by a "D" suffix in the sample name.

The field duplicate results were evaluated by calculating the RPDs between the investigative and field duplicate sample results. There is no established QC limit for RPD for field duplicates; however, 50 RPD is generally used for evaluation. The RPD for one of the field duplicates was below 50 which is acceptable. The RPD for field duplicate PA-RR01,02(6-24)050613D had a high RPD of 134 indicating sample heterogeneity associated with TCLP lead in this sample.

## 7. **Overall Assessment**

The TCLP lead data are acceptable for use as qualified based on the information received.

### **GENERAL CHEMISTRY PARAMETERS (pH by SW-846 Method 9045C and Moisture Content by ASTM D2974)**

#### 1. **Samples**

Attachment A summarizes the samples for which this data validation is being conducted. It includes but the laboratory sample identification, the WESTON START sample identification, and the date and time of sample collection.

#### 2. **Holding Times**

The holding time for pH is “as soon as possible” and the holding time for moisture is 28 days. The holding time for moisture was met. For pH, the samples were analyzed approximately 6- 7 days from sample collection. No qualifications were applied.

#### 3. **Blank Results**

Method blanks were analyzed with the moisture analyses and were all non-detect for moisture which is acceptable.

#### 4. **LCS Results**

LCSs were analyzed with the moisture analyses. The LCS recoveries were within the QC limits.

#### 5. **Laboratory Duplicates**

Laboratory duplicates were analyzed with the pH and moisture analyses. The RPDs were within QC limits.

#### 6. **Field Duplicate Results**

There are two field duplicate samples associated with this work order that are identified by a “D” suffix in the sample name.

The field duplicate results were evaluated by calculating the RPDs between the investigative and field duplicate sample results. The RPDs were below 50 which is acceptable.

Data Validation Report  
Pilsen Area Soil Site  
STAT Analysis Corporation  
Laboratory Project #: 13050282

7. **Overall Assessment**

The pH and moisture data are acceptable for use as qualified based on the information received.

Data Validation Report  
Pilsen Area Soil Site  
STAT Analysis Corporation  
Laboratory Project #: 13050282

## **ATTACHMENT A**

### **SAMPLE LIST**

**Client:** Weston Solutions  
**Project:** Pilsen Soil Site, Pilsen, Chicago, IL  
**Lab Order:** 13050282

**Work Order Sample Summary**

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
13050282-001A	PA-RR14,15,16(0-6)-050613		5/6/2013 3:40:00 PM	5/7/2013
13050282-001B	PA-RR14,15,16(0-6)-050613	Fine Grained	5/6/2013 3:40:00 PM	5/3/2013
13050282-002A	PA-RR14,15,16(6-24)-050613		5/6/2013 3:50:00 PM	5/7/2013
13050282-002B	PA-RR14,15,16(6-24)-050613	Fine Grained	5/6/2013 3:50:00 PM	5/7/2013
13050282-003A	PA-RR11,13(0-6)-050613		5/6/2013 4:00:00 PM	5/7/2013
13050282-003B	PA-RR11,13(0-6)-050613	Fine Grained	5/6/2013 4:00:00 PM	5/7/2013
13050282-004A	PA-RR11,13(6-24)-050613		5/6/2013 4:05:00 PM	5/7/2013
13050282-004B	PA-RR11,13(6-24)-050613	Fine Grained	5/6/2013 4:05:00 PM	5/7/2013
13050282-005A	PA-RR10,12(0-6)-050613		5/6/2013 4:15:00 PM	5/7/2013
13050282-005B	PA-RR10,12(0-6)-050613	Fine Grained	5/6/2013 4:15:00 PM	5/7/2013
13050282-006A	PA-RR10,12(6-24)-050613		5/6/2013 4:20:00 PM	5/7/2013
13050282-006B	PA-RR10,12(6-24)-050613	Fine Grained	5/6/2013 4:20:00 PM	5/7/2013
13050282-007A	PA-RR07,08(0-6)-050613		5/6/2013 4:30:00 PM	5/7/2013
13050282-007B	PA-RR07,08(0-6)-050613	Fine Grained	5/6/2013 4:30:00 PM	5/7/2013
13050282-008A	PA-RR07,08(6-24)-050613		5/6/2013 4:35:00 PM	5/7/2013
13050282-008B	PA-RR07,08(6-24)-050613	Fine Grained	5/6/2013 4:35:00 PM	5/7/2013
13050282-009A	PA-RR01,02(0-6)-050613		5/6/2013 4:40:00 PM	5/7/2013
13050282-009B	PA-RR01,02(0-6)-050613	Fine Grained	5/6/2013 4:40:00 PM	5/7/2013
13050282-010A	PA-RR01,02(6-24)-050613		5/6/2013 4:45:00 PM	5/7/2013
13050282-010B	PA-RR01,02(6-24)-050613	Fine Grained	5/6/2013 4:45:00 PM	5/7/2013
13050282-011A	PA-RR04,06(0-6)-050613		5/6/2013 4:55:00 PM	5/7/2013
13050282-011B	PA-RR04,06(0-6)-050613	Fine Grained	5/6/2013 4:55:00 PM	5/7/2013
13050282-011C	PA-RR04,06(0-6)-050613	Course Grained	5/6/2013 4:55:00 PM	5/7/2013
13050282-012A	PA-RR04,06(6-24)-050613		5/6/2013 5:00:00 PM	5/7/2013
13050282-012B	PA-RR04,06(6-24)-050613	Fine Grained	5/6/2013 5:00:00 PM	5/7/2013
13050282-013A	PA-RR01,02(6-24)-050613D		5/6/2013 4:50:00 PM	5/7/2013
13050282-013B	PA-RR01,02(6-24)-050613D	Fine Grained	5/6/2013 4:50:00 PM	5/7/2013
13050282-014A	PA-375-01(0-6)-050713D		5/7/2013 9:40:00 AM	5/7/2013
13050282-014B	PA-375-01(0-6)-050713D	Fine Grained	5/7/2013 9:40:00 AM	5/7/2013
13050282-014C	PA-375-01(0-6)-050713D	Course Grained	5/7/2013 9:40:00 AM	5/7/2013
13050282-015A	PA-375-02(0-12)-050713		5/7/2013 9:45:00 AM	5/7/2013
13050282-015B	PA-375-02(0-12)-050713	Fine Grained	5/7/2013 9:45:00 AM	5/7/2013
13050282-016A	PA-370-01(0-6)-050713		5/7/2013 10:45:00 AM	5/7/2013
13050282-016B	PA-370-01(0-6)-050713	Fine Grained	5/7/2013 10:45:00 AM	5/7/2013
13050282-017A	PA-370-01(0-6)-050713D		5/7/2013 10:50:00 AM	5/7/2013
13050282-017B	PA-370-01(0-6)-050713D	Fine Grained	5/7/2013 10:50:00 AM	5/7/2013
13050282-018A	PA-370-02(0-6)-050713		5/7/2013 10:55:00 AM	5/7/2013
13050282-018B	PA-370-02(0-6)-050713	Fine Grained	5/7/2013 10:55:00 AM	5/7/2013

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**Client:** Weston Solutions  
**Project:** Pilsen Soil Site, Pilsen, Chicago, IL  
**Lab Order:** 13050282

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## Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
13050282-019A	PA-370-02(6-12)-050713		5/7/2013 11:00:00 AM	5/7/2013
13050282-019B	PA-370-02(6-12)-050713	Fine Grained	5/7/2013 11:00:00 AM	5/7/2013
13050282-020A	PA-369-01(0-6)-050713		5/7/2013 12:20:00 PM	5/7/2013
13050282-020B	PA-369-01(0-6)-050713	Fine Grained	5/7/2013 12:20:00 PM	5/7/2013
13050282-021A	PA-369-01(0-2)-050713		5/7/2013 12:15:00 PM	5/7/2013
13050282-021B	PA-369-01(0-2)-050713	Fine Grained	5/7/2013 12:15:00 PM	5/7/2013
13050282-022A	PA-369-02(0-12)-050713		5/7/2013 12:25:00 PM	5/7/2013
13050282-022B	PA-369-02(0-12)-050713	Fine Grained	5/7/2013 12:25:00 PM	5/7/2013
13050282-023A	PA-369-03,04(0-6)-050713		5/7/2013 12:30:00 PM	5/7/2013
13050282-023B	PA-369-03,04(0-6)-050713	Fine Grained	5/7/2013 12:30:00 PM	5/7/2013
13050282-024A	PA-371-01(0-6)-050713		5/7/2013 2:15:00 PM	5/7/2013
13050282-024B	PA-371-01(0-6)-050713	Fine Grained	5/7/2013 2:15:00 PM	5/7/2013
13050282-025A	PA-371-02(0-6)-050713		5/7/2013 2:20:00 PM	5/7/2013
13050282-025B	PA-371-02(0-6)-050713	Fine Grained	5/7/2013 2:20:00 PM	5/7/2013
13050282-026A	PA-371-02(0-6)-050713D		5/7/2013 2:25:00 PM	5/7/2013
13050282-026B	PA-371-02(0-6)-050713D	Fine Grained	5/7/2013 2:25:00 PM	5/7/2013
13050282-027A	PA-349-01(0-6)-050713		5/7/2013 3:20:00 PM	5/7/2013
13050282-027B	PA-349-01(0-6)-050713	Fine Grained	5/7/2013 3:20:00 PM	5/7/2013
13050282-028A	PA-349-02(0-12)-050713		5/7/2013 3:25:00 PM	5/7/2013
13050282-028B	PA-349-02(0-12)-050713	Fine Grained	5/7/2013 3:25:00 PM	5/7/2013
13050282-029A	PA-349-03(0-6)-050713		5/7/2013 4:30:00 PM	5/7/2013
13050282-029B	PA-349-03(0-6)-050713	Fine Grained	5/7/2013 4:30:00 PM	5/7/2013
13050282-030A	PA-351-01(0-6)-050713		5/7/2013 3:45:00 PM	5/7/2013
13050282-030B	PA-351-01(0-6)-050713	Fine Grained	5/7/2013 3:45:00 PM	5/7/2013
13050282-031A	PA-141-01(0-6)-050713		5/7/2013 5:40:00 PM	5/7/2013
13050282-031B	PA-141-01(0-6)-050713	Fine Grained	5/7/2013 5:40:00 PM	5/7/2013
13050282-032A	PA-141-02(0-6)-050713		5/7/2013 5:45:00 PM	5/7/2013
13050282-032B	PA-141-02(0-6)-050713	Fine Grained	5/7/2013 5:45:00 PM	5/7/2013
13050282-033A	PA-141-03(0-6)-050713		5/7/2013 5:50:00 PM	5/7/2013
13050282-033B	PA-141-03(0-6)-050713	Fine Grained	5/7/2013 5:50:00 PM	5/7/2013



Data Validation Report  
Pilsen Area Soil Site  
STAT Analysis Corporation  
Laboratory Project #: 13050282

**ATTACHMENT B**

**STAT ANALYSIS CORPORATION  
RESULTS SUMMARY WITH QUALIFIERS**

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-RR14,15,16(0-6)-050613
<b>Lab Order:</b> 13050282	<b>Tag Number:</b>
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 5/6/2013 3:40:00 PM
<b>Lab ID:</b> 13050282-001A	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>					Prep Date: 5/13/2013 Analyst: LB
Mercury	1.2	0.2		mg/Kg-dry	10	5/13/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>					Prep Date: 5/13/2013 Analyst: JG
Antimony	4.7 J	4.3		mg/Kg-dry	20	5/14/2013
Cadmium	9.5	1.1		mg/Kg-dry	20	5/14/2013
Chromium	900	2.2		mg/Kg-dry	20	5/14/2013
Copper	770	5.4		mg/Kg-dry	20	5/14/2013
Lead	1500	1.1		mg/Kg-dry	20	5/14/2013
Tin	130	11	*	mg/Kg-dry	20	5/14/2013
Zinc	5800	54		mg/Kg-dry	100	5/14/2013
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>					Prep Date: 5/12/2013 Analyst: JG
Lead	0.75	0.005		mg/L	5	5/12/2013
<b>pH (25 °C)</b>	<b>SW9045C</b>					Prep Date: 5/14/2013 Analyst: PBG
pH	8.2			pH Units	1	5/14/2013
<b>Percent Moisture</b>	<b>D2974</b>					Prep Date: 5/11/2013 Analyst: RW
Percent Moisture	11.8	0.2	*	wt%	1	5/11/2013

LA  
 5/28/13

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

**STAT Analysis Corporation**

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-RR14,15,16(0-6)-050613
<b>Lab Order:</b> 13050282	<b>Tag Number:</b> Fine Grained
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 5/6/2013 3:40:00 PM
<b>Lab ID:</b> 13050282-001B	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: 5/19/2013	Analyst: JG
Lead	3200	9.9		mg/Kg-dry	100	5/19/2013

**Qualifiers:**

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

# STAT Analysis Corporation

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-RR14,15,16(6-24)-050613
<b>Lab Order:</b> 13050282	<b>Tag Number:</b>
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 5/6/2013 3:50:00 PM
<b>Lab ID:</b> 13050282-002A	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>					
Mercury	0.78	0.04		mg/Kg-dry	2	Prep Date: 5/13/2013 Analyst: LB 5/13/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>					
Antimony	5.2 J	4.5		mg/Kg-dry	20	Prep Date: 5/13/2013 Analyst: JG 5/14/2013
Cadmium	11	1.1		mg/Kg-dry	20	5/14/2013
Chromium	2000	2.3		mg/Kg-dry	20	5/14/2013
Copper	900	5.7		mg/Kg-dry	20	5/14/2013
Lead	2200	1.1		mg/Kg-dry	20	5/14/2013
Tin	120	11	*	mg/Kg-dry	20	5/14/2013
Zinc	4700	57		mg/Kg-dry	100	5/14/2013
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>					
Lead	0.35	0.005		mg/L	5	Prep Date: 5/12/2013 Analyst: JG 5/12/2013
<b>pH (25 °C)</b>	<b>SW9045C</b>					
pH	7.9			pH Units	1	Prep Date: 5/14/2013 Analyst: PBG 5/14/2013
<b>Percent Moisture</b>	<b>D2974</b>					
Percent Moisture	16.6	0.2	*	wt%	1	Prep Date: 5/11/2013 Analyst: RW 5/11/2013

2 J  
5/28/13

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-RR14,15,16(6-24)-050613
<b>Lab Order:</b>	13050282	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date</b>	5/6/2013 3:50:00 PM
<b>Lab ID:</b>	13050282-002B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: 5/19/2013	Analyst: JG
Lead	2200	10		mg/Kg-dry	100	5/19/2013

**Qualifiers:**

ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-RR11,13(0-6)-050613
<b>Lab Order:</b> 13050282	<b>Tag Number:</b>
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 5/6/2013 4:00:00 PM
<b>Lab ID:</b> 13050282-003A	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>					Prep Date: 5/13/2013 Analyst: LB
Mercury	0.55	0.02		mg/Kg-dry	1	5/13/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>					Prep Date: 5/13/2013 Analyst: JG
Antimony	6.4 J	4.6		mg/Kg-dry	20	5/14/2013
Cadmium	9.3	5.7		mg/Kg-dry	100	5/13/2013
Chromium	220	11		mg/Kg-dry	100	5/13/2013
Copper	650	5.7		mg/Kg-dry	20	5/14/2013
Lead	940	11		mg/Kg-dry	100	5/13/2013
Tin	70	11	*	mg/Kg-dry	20	5/14/2013
Zinc	2200	57		mg/Kg-dry	100	5/14/2013
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>					Prep Date: 5/12/2013 Analyst: JG
Lead	0.13	0.005		mg/L	5	5/12/2013
<b>pH (25 °C)</b>	<b>SW9045C</b>					Prep Date: 5/14/2013 Analyst: PBG
pH	7.9			pH Units	1	5/14/2013
<b>Percent Moisture</b>	<b>D2974</b>					Prep Date: 5/11/2013 Analyst: RW
Percent Moisture	13.0	0.2	*	wt%	1	5/11/2013

24  
5/28/13

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

**STAT Analysis Corporation**

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Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-RR11,13(0-6)-050613
<b>Lab Order:</b>	13050282	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	5/6/2013 4:00:00 PM
<b>Lab ID:</b>	13050282-003B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: 5/19/2013	Analyst: JG
Lead	900	9.7		mg/Kg-dry	100	5/19/2013

**Qualifiers:**

- ND - Not Detected at the Reporting Limit
- J - Analyte detected below quantitation limits
- B - Analyte detected in the associated Method Blank
- HT - Sample received past holding time
- \* - Non-accredited parameter

- RL - Reporting / Quantitation Limit for the analysis
- S - Spike Recovery outside accepted recovery limits
- R - RPD outside accepted recovery limits
- E - Value above quantitation range
- H - Holding time exceeded

**STAT Analysis Corporation**

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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-RR11,13(6-24)-050613
<b>Lab Order:</b> 13050282	<b>Tag Number:</b>
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 5/6/2013 4:05:00 PM
<b>Lab ID:</b> 13050282-004A	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>					
Mercury	0.58	0.02		mg/Kg-dry	1	Prep Date: 5/13/2013 Analyst: LB 5/13/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>					
Antimony	8.8 J	4.5		mg/Kg-dry	20	Prep Date: 5/13/2013 Analyst: JG 5/14/2013
Cadmium	8.6	5.6		mg/Kg-dry	100	5/13/2013
Chromium	43	11		mg/Kg-dry	100	5/13/2013
Copper	360	5.6		mg/Kg-dry	20	5/14/2013
Lead	1000	11		mg/Kg-dry	100	5/13/2013
Tin	110	11	*	mg/Kg-dry	20	5/14/2013
Zinc	1100	56		mg/Kg-dry	100	5/14/2013
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>					
Lead	0.022	0.005		mg/L	5	Prep Date: 5/12/2013 Analyst: JG 5/12/2013
<b>pH (25 °C)</b>	<b>SW9045C</b>					
pH	7.9			pH Units	1	Prep Date: 5/14/2013 Analyst: PBG 5/14/2013
<b>Percent Moisture</b>	<b>D2974</b>					
Percent Moisture	15.3	0.2	*	wt%	1	Prep Date: 5/11/2013 Analyst: RW 5/11/2013

24  
5/28/13

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded



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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-RR11,13(6-24)-050613
<b>Lab Order:</b>	13050282	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date</b>	5/6/2013 4:05:00 PM
<b>Lab ID:</b>	13050282-004B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: 5/19/2013	Analyst: JG
Lead	980	9.9		mg/Kg-dry	100	5/19/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
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	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-RR10,12(0-6)-050613
<b>Lab Order:</b> 13050282	<b>Tag Number:</b>
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 5/6/2013 4:15:00 PM
<b>Lab ID:</b> 13050282-005A	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>					Prep Date: 5/13/2013 Analyst: LB
Mercury	1.1	0.22		mg/Kg-dry	10	5/13/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>					Prep Date: 5/13/2013 Analyst: JG
Antimony	14 J	4.5		mg/Kg-dry	20	5/14/2013
Cadmium	17	5.6		mg/Kg-dry	100	5/13/2013
Chromium	53	11		mg/Kg-dry	100	5/13/2013
Copper	1000	5.6		mg/Kg-dry	20	5/14/2013
Lead	1800	11		mg/Kg-dry	100	5/13/2013
Tin	150	11	*	mg/Kg-dry	20	5/14/2013
Zinc	3800	56		mg/Kg-dry	100	5/14/2013
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>					Prep Date: 5/14/2013 Analyst: JG
Lead	0.52	0.005		mg/L	5	5/14/2013
<b>pH (25 °C)</b>	<b>SW9045C</b>					Prep Date: 5/14/2013 Analyst: PBG
pH	8.0			pH Units	1	5/14/2013
<b>Percent Moisture</b>	<b>D2974</b>					Prep Date: 5/11/2013 Analyst: RW
Percent Moisture	15.3	0.2	*	wt%	1	5/11/2013

LM  
5/28/13

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-RR10,12(0-6)-050613
<b>Lab Order:</b>	13050282	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date</b>	5/6/2013 4:15:00 PM
<b>Lab ID:</b>	13050282-005B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: 5/19/2013	Analyst: JG
Lead	2600	9.9		mg/Kg-dry	100	5/19/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-RR10,12(6-24)-050613
<b>Lab Order:</b> 13050282	<b>Tag Number:</b>
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 5/6/2013 4:20:00 PM
<b>Lab ID:</b> 13050282-006A	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>					Prep Date: 5/13/2013 Analyst: LB
Mercury	1.5	0.21		mg/Kg-dry	10	5/13/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>					Prep Date: 5/13/2013 Analyst: JG
Antimony	34 J	4.8		mg/Kg-dry	20	5/14/2013
Cadmium	12	5.9		mg/Kg-dry	100	5/13/2013
Chromium	35	12		mg/Kg-dry	100	5/13/2013
Copper	980	5.9		mg/Kg-dry	20	5/14/2013
Lead	2400	12		mg/Kg-dry	100	5/13/2013
Tin	170	12	*	mg/Kg-dry	20	5/14/2013
Zinc	2200	59		mg/Kg-dry	100	5/14/2013
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>					Prep Date: 5/14/2013 Analyst: JG
Lead	0.68	0.005		mg/L	5	5/15/2013
<b>pH (25 °C)</b>	<b>SW9045C</b>					Prep Date: 5/14/2013 Analyst: PBG
pH	7.9			pH Units	1	5/14/2013
<b>Percent Moisture</b>	<b>D2974</b>					Prep Date: 5/11/2013 Analyst: RW
Percent Moisture	22.2	0.2	*	wt%	1	5/11/2013

ZM  
5/28/13

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-RR10,12(6-24)-050613
<b>Lab Order:</b>	13050282	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date</b>	5/6/2013 4:20:00 PM
<b>Lab ID:</b>	13050282-006B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: 5/19/2013	Analyst: JG
Lead	2300	9.4		mg/Kg-dry	100	5/19/2013

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 \* - Non-accredited parameter

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 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-RR07,08(0-6)-050613
<b>Lab Order:</b> 13050282	<b>Tag Number:</b>
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 5/6/2013 4:30:00 PM
<b>Lab ID:</b> 13050282-007A	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>					
Mercury	0.72	0.022		mg/Kg-dry	1	Prep Date: 5/13/2013 Analyst: LB 5/13/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>					
Antimony	12 J	4.1		mg/Kg-dry	20	Prep Date: 5/13/2013 Analyst: JG 5/14/2013
Cadmium	71	5.1		mg/Kg-dry	100	5/13/2013
Chromium	45	10		mg/Kg-dry	100	5/13/2013
Copper	6500	250		mg/Kg-dry	1000	5/14/2013
Lead	6800	10		mg/Kg-dry	100	5/13/2013
Tin	540	10	*	mg/Kg-dry	20	5/14/2013
Zinc	46000	510		mg/Kg-dry	1000	5/14/2013
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>					
Lead	3.6	0.005		mg/L	5	Prep Date: 5/14/2013 Analyst: JG 5/15/2013
<b>pH (25 °C)</b>	<b>SW9045C</b>					
pH	8.4			pH Units	1	Prep Date: 5/14/2013 Analyst: PBG 5/14/2013
<b>Percent Moisture</b>	<b>D2974</b>					
Percent Moisture	8.9	0.2	*	wt%	1	Prep Date: 5/11/2013 Analyst: RW 5/11/2013

24  
5/28/13

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
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	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-RR07,08(0-6)-050613
<b>Lab Order:</b>	13050282	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date</b>	5/6/2013 4:30:00 PM
<b>Lab ID:</b>	13050282-007B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: 5/19/2013	Analyst: JG
Lead	7900	9.8		mg/Kg-dry	100	5/19/2013

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 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-RR07,08(6-24)-050613
<b>Lab Order:</b> 13050282	<b>Tag Number:</b>
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 5/6/2013 4:35:00 PM
<b>Lab ID:</b> 13050282-008A	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>					Prep Date: 5/13/2013 Analyst: LB
Mercury	0.65	0.02		mg/Kg-dry	1	5/13/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>					Prep Date: 5/13/2013 Analyst: JG
Antimony	9 J	4.5		mg/Kg-dry	20	5/14/2013
Cadmium	49	5.7		mg/Kg-dry	100	5/13/2013
Chromium	43	11		mg/Kg-dry	100	5/13/2013
Copper	3700	280		mg/Kg-dry	1000	5/14/2013
Lead	5500	11		mg/Kg-dry	100	5/13/2013
Tin	450	11	*	mg/Kg-dry	20	5/14/2013
Zinc	24000	570		mg/Kg-dry	1000	5/14/2013
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>					Prep Date: 5/14/2013 Analyst: JG
Lead	13	0.005		mg/L	5	5/15/2013
<b>pH (25 °C)</b>	<b>SW9045C</b>					Prep Date: 5/14/2013 Analyst: PBG
pH	9.1			pH Units	1	5/14/2013
<b>Percent Moisture</b>	<b>D2974</b>					Prep Date: 5/11/2013 Analyst: RW
Percent Moisture	19.0	0.2	*	wt%	1	5/11/2013

ZH  
5/28/13

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	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded



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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-RR07,08(6-24)-050613
<b>Lab Order:</b>	13050282	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	5/6/2013 4:35:00 PM
<b>Lab ID:</b>	13050282-008B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: 5/19/2013	Analyst: JG
Lead	9500	9.9		mg/Kg-dry	100	5/19/2013

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 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-RR01,02(0-6)-050613
<b>Lab Order:</b> 13050282	<b>Tag Number:</b>
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 5/6/2013 4:40:00 PM
<b>Lab ID:</b> 13050282-009A	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>					Prep Date: 5/13/2013 Analyst: LB
Mercury	0.52	0.023		mg/Kg-dry	1	5/13/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>					Prep Date: 5/13/2013 Analyst: JG
Antimony	19 J	3.9		mg/Kg-dry	20	5/14/2013
Cadmium	16	4.9		mg/Kg-dry	100	5/13/2013
Chromium	64	9.8		mg/Kg-dry	100	5/13/2013
Copper	9400	240		mg/Kg-dry	1000	5/14/2013
Lead	4000	9.8		mg/Kg-dry	100	5/13/2013
Tin	1300	9.8	*	mg/Kg-dry	20	5/14/2013
Zinc	26000	490		mg/Kg-dry	1000	5/14/2013
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>					Prep Date: 5/14/2013 Analyst: JG
Lead	0.87	0.005		mg/L	5	5/15/2013
<b>pH (25 °C)</b>	<b>SW9045C</b>					Prep Date: 5/14/2013 Analyst: PBG
pH	8.0			pH Units	1	5/14/2013
<b>Percent Moisture</b>	<b>D2974</b>					Prep Date: 5/11/2013 Analyst: RW
Percent Moisture	14.3	0.2		wt%	1	5/11/2013

2H  
5/28/13

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	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-RR01,02(0-6)-050613
<b>Lab Order:</b>	13050282	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	5/6/2013 4:40:00 PM
<b>Lab ID:</b>	13050282-009B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: 5/19/2013	Analyst: JG
Lead	4100	9.7		mg/Kg-dry	100	5/19/2013

**Qualifiers:**

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 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-RR01,026-24)-050613
<b>Lab Order:</b> 13050282	<b>Tag Number:</b>
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 5/6/2013 4:45:00 PM
<b>Lab ID:</b> 13050282-010A	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>					Prep Date: 5/13/2013 Analyst: LB
Mercury	0.63	0.022		mg/Kg-dry	1	5/13/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>					Prep Date: 5/13/2013 Analyst: JG
Antimony	7.4 J	4.3		mg/Kg-dry	20	5/14/2013
Cadmium	6.1	1.1		mg/Kg-dry	20	5/14/2013
Chromium	34	2.1		mg/Kg-dry	20	5/14/2013
Copper	3700	270		mg/Kg-dry	1000	5/14/2013
Lead	1700	11		mg/Kg-dry	100	5/13/2013
Tin	560	11	*	mg/Kg-dry	20	5/14/2013
Zinc	17000	530		mg/Kg-dry	1000	5/14/2013
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>					Prep Date: 5/14/2013 Analyst: JG
Lead	0.98	0.005		mg/L	5	5/15/2013
<b>pH (25 °C)</b>	<b>SW9045C</b>					Prep Date: 5/14/2013 Analyst: PBG
pH	7.6			pH Units	1	5/14/2013
<b>Percent Moisture</b>	<b>D2974</b>					Prep Date: 5/11/2013 Analyst: RW
Percent Moisture	15.4	0.2	*	wt%	1	5/11/2013

24  
5/28/13

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-RR01,026-24)-050613
<b>Lab Order:</b>	13050282	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date</b>	5/6/2013 4:45:00 PM
<b>Lab ID:</b>	13050282-010B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: 5/19/2013	Analyst: JG
Lead	2200	9.8		mg/Kg-dry	100	5/19/2013

**Qualifiers:**

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 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-RR04,06(0-6)-050613
<b>Lab Order:</b>	13050282	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date</b>	5/6/2013 4:55:00 PM
<b>Lab ID:</b>	13050282-011A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>					Prep Date: 5/13/2013 Analyst: LB
Mercury	0.61	0.02		mg/Kg-dry	1	5/13/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>					Prep Date: 5/13/2013 Analyst: JG
Antimony	18 J	4.4		mg/Kg-dry	20	5/14/2013
Cadmium	140	1.1		mg/Kg-dry	20	5/14/2013
Chromium	56	2.2		mg/Kg-dry	20	5/14/2013
Copper	11000	280		mg/Kg-dry	1000	5/14/2013
Lead	11000	56		mg/Kg-dry	1000	5/14/2013
Tin	980	11	*	mg/Kg-dry	20	5/14/2013
Zinc	78000	560		mg/Kg-dry	1000	5/14/2013
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>					Prep Date: 5/14/2013 Analyst: JG
Lead	12	0.005		mg/L	5	5/15/2013
<b>pH (25 °C)</b>	<b>SW9045C</b>					Prep Date: 5/14/2013 Analyst: PBG
pH	8.1			pH Units	1	5/14/2013
<b>Percent Moisture</b>	<b>D2974</b>					Prep Date: 5/11/2013 Analyst: RW
Percent Moisture	12.8	0.2		wt%	1	5/11/2013

ZH  
5/28/13

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-RR04,06(0-6)-050613
<b>Lab Order:</b> 13050282	<b>Tag Number:</b> Fine Grained
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 5/6/2013 4:55:00 PM
<b>Lab ID:</b> 13050282-011B	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>In Vitro Extractable Metals by ICP/MS</b>	<b>EPA 9200/6020 (SW3005A)</b>				Prep Date: 5/19/2013	Analyst: JG
Lead	180	1	*	mg/L	200	5/22/2013
<b>In Vitro Bioaccessibility</b>	<b>EPA 9200/6020</b>				Prep Date: 5/22/2013	Analyst: JG
Lead	77.2	0.01	*	%	1	5/22/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: 5/19/2013	Analyst: JG
Lead	23000	4.9		mg/Kg-dry	50	5/19/2013

**Qualifiers:**

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 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-RR04,06(6-24)-050613
<b>Lab Order:</b> 13050282	<b>Tag Number:</b>
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 5/6/2013 5:00:00 PM
<b>Lab ID:</b> 13050282-012A	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>				Prep Date: 5/13/2013	Analyst: <b>LB</b>
Mercury	1.6	0.22		mg/Kg-dry	10	5/13/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: 5/13/2013	Analyst: <b>JG</b>
Antimony	ND	4.1		mg/Kg-dry	20	5/14/2013
Cadmium	16	1		mg/Kg-dry	20	5/14/2013
Chromium	27	2		mg/Kg-dry	20	5/14/2013
Copper	1800	250		mg/Kg-dry	1000	5/14/2013
Lead	1700	10		mg/Kg-dry	100	5/13/2013
Tin	240	10	*	mg/Kg-dry	20	5/14/2013
Zinc	9900	510		mg/Kg-dry	1000	5/14/2013
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>				Prep Date: 5/14/2013	Analyst: <b>JG</b>
Lead	0.24	0.005		mg/L	5	5/15/2013
<b>pH (25 °C)</b>	<b>SW9045C</b>				Prep Date: 5/14/2013	Analyst: <b>PBG</b>
pH	8.3			pH Units	1	5/14/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: 5/11/2013	Analyst: <b>RW</b>
Percent Moisture	13.5	0.2		wt%	1	5/11/2013

**Qualifiers:**

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 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded



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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-RR04,06(6-24)-050613
<b>Lab Order:</b>	13050282	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date</b>	5/6/2013 5:00:00 PM
<b>Lab ID:</b>	13050282-012B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: 5/19/2013	Analyst: JG
Lead	2600	10		mg/Kg-dry	100	5/19/2013

**Qualifiers:**

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 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-RR01,02(6-24)-050613D
<b>Lab Order:</b> 13050282	<b>Tag Number:</b>
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 5/6/2013 4:50:00 PM
<b>Lab ID:</b> 13050282-013A	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>					Prep Date: 5/13/2013 Analyst: LB
Mercury	0.59	0.02		mg/Kg-dry	1	5/13/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>					Prep Date: 5/13/2013 Analyst: JG
Antimony	ND	23		mg/Kg-dry	100	5/13/2013
Cadmium	8.6	1.2		mg/Kg-dry	20	5/14/2013
Chromium	35	2.3		mg/Kg-dry	20	5/14/2013
Copper	2500	290		mg/Kg-dry	1000	5/14/2013
Lead	1500	58		mg/Kg-dry	1000	5/14/2013
Tin	600	12	*	mg/Kg-dry	20	5/14/2013
Zinc	14000	580		mg/Kg-dry	1000	5/14/2013
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>					Prep Date: 5/14/2013 Analyst: JG
Lead	5	0.005		mg/L	5	5/15/2013
<b>pH (25 °C)</b>	<b>SW9045C</b>					Prep Date: 5/14/2013 Analyst: PBG
pH	7.7			pH Units	1	5/14/2013
<b>Percent Moisture</b>	<b>D2974</b>					Prep Date: 5/11/2013 Analyst: RW
Percent Moisture	15.7	0.2	*	wt%	1	5/11/2013

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 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-RR01,02(6-24)-050613D
<b>Lab Order:</b>	13050282	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	5/6/2013 4:50:00 PM
<b>Lab ID:</b>	13050282-013B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: 5/19/2013	Analyst: JG
Lead	2200	9.9		mg/Kg-dry	100	5/19/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-375-01(0-6)-050713D
<b>Lab Order:</b> 13050282	<b>Tag Number:</b>
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 5/7/2013 9:40:00 AM
<b>Lab ID:</b> 13050282-014A	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>					
Mercury	1	0.25		mg/Kg-dry	10	Prep Date: 5/13/2013 Analyst: LB 5/13/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>					
Antimony	ND	4.9		mg/Kg-dry	20	Prep Date: 5/13/2013 Analyst: JG 5/14/2013
Cadmium	11	1.2		mg/Kg-dry	20	5/14/2013
Chromium	40	2.5		mg/Kg-dry	20	5/14/2013
Copper	680	31		mg/Kg-dry	100	5/14/2013
Lead	1800	6.2		mg/Kg-dry	100	5/14/2013
Tin	84	12	*	mg/Kg-dry	20	5/14/2013
Zinc	2900	62		mg/Kg-dry	100	5/14/2013
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>					
Lead	0.16	0.005		mg/L	5	Prep Date: 5/14/2013 Analyst: JG 5/15/2013
<b>pH (25 °C)</b>	<b>SW9045C</b>					
pH	7.0			pH Units	1	Prep Date: 5/14/2013 Analyst: PBG 5/14/2013
<b>Percent Moisture</b>	<b>D2974</b>					
Percent Moisture	26.4	0.2	*	wt%	1	Prep Date: 5/11/2013 Analyst: RW 5/11/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-375-01(0-6)-050713D
<b>Lab Order:</b> 13050282	<b>Tag Number:</b> Fine Grained
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 5/7/2013 9:40:00 AM
<b>Lab ID:</b> 13050282-014B	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>In Vitro Extractable Metals by ICP/MS</b>	<b>EPA 9200/6020 (SW3005A)</b>				Prep Date: 5/19/2013	Analyst: JG
Lead	22	0.1	*	mg/L	20	5/22/2013
<b>In Vitro Bioaccessibility</b>	<b>EPA 9200/6020</b>				Prep Date: 5/22/2013	Analyst: JG
Lead	80.9	0.01	*	%	1	5/22/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: 5/19/2013	Analyst: JG
Lead	2700	10		mg/Kg-dry	100	5/19/2013

**Qualifiers:**

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 HT - Sample received past holding time  
 \* - Non-accredited parameter

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 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-375-02(0-12)-050713
<b>Lab Order:</b> 13050282	<b>Tag Number:</b>
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 5/7/2013 9:45:00 AM
<b>Lab ID:</b> 13050282-015A	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>					Prep Date: 5/13/2013 Analyst: LB
Mercury	1.3	0.23		mg/Kg-dry	10	5/13/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>					Prep Date: 5/13/2013 Analyst: JG
Antimony	ND	25		mg/Kg-dry	100	5/13/2013
Cadmium	14	1.2		mg/Kg-dry	20	5/14/2013
Chromium	49	2.5		mg/Kg-dry	20	5/14/2013
Copper	750	31		mg/Kg-dry	100	5/14/2013
Lead	2500	6.2		mg/Kg-dry	100	5/14/2013
Tin	130	12	*	mg/Kg-dry	20	5/14/2013
Zinc	3300	62		mg/Kg-dry	100	5/14/2013
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>					Prep Date: 5/14/2013 Analyst: JG
Lead	0.4	0.005		mg/L	5	5/15/2013
<b>pH (25 °C)</b>	<b>SW9045C</b>					Prep Date: 5/14/2013 Analyst: PBG
pH	7.3			pH Units	1	5/14/2013
<b>Percent Moisture</b>	<b>D2974</b>					Prep Date: 5/11/2013 Analyst: RW
Percent Moisture	24.8	0.2	*	wt%	1	5/11/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-375-02(0-12)-050713
<b>Lab Order:</b>	13050282	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	5/7/2013 9:45:00 AM
<b>Lab ID:</b>	13050282-015B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: 5/19/2013	Analyst: JG
Lead	3000	9.8		mg/Kg-dry	100	5/19/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-370-01(0-6)-050713
<b>Lab Order:</b> 13050282	<b>Tag Number:</b>
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 5/7/2013 10:45:00 AM
<b>Lab ID:</b> 13050282-016A	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>		Prep Date: 5/13/2013		Analyst: LB	
Mercury	0.43	0.021		mg/Kg-dry	1	5/13/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>		Prep Date: 5/13/2013		Analyst: JG	
Antimony	ND	4.6		mg/Kg-dry	20	5/14/2013
Cadmium	6.9	1.1		mg/Kg-dry	20	5/14/2013
Chromium	44	2.3		mg/Kg-dry	20	5/14/2013
Copper	150	29		mg/Kg-dry	100	5/14/2013
Lead	700	5.7		mg/Kg-dry	100	5/14/2013
Tin	28	11	*	mg/Kg-dry	20	5/14/2013
Zinc	1600	57		mg/Kg-dry	100	5/14/2013
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>		Prep Date: 5/14/2013		Analyst: JG	
Lead	0.33	0.005		mg/L	5	5/15/2013
<b>pH (25 °C)</b>	<b>SW9045C</b>		Prep Date: 5/14/2013		Analyst: PBG	
pH	7.7			pH Units	1	5/14/2013
<b>Percent Moisture</b>	<b>D2974</b>		Prep Date: 5/13/2013		Analyst: RW	
Percent Moisture	18.5	0.2	*	wt%	1	5/14/2013

**Qualifiers:**

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- R - RPD outside accepted recovery limits
- E - Value above quantitation range
- H - Holding time exceeded



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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-370-01(0-6)-050713
<b>Lab Order:</b>	13050282	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date</b>	5/7/2013 10:45:00 AM
<b>Lab ID:</b>	13050282-016B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: 5/19/2013	Analyst: JG
Lead	1200	9.8		mg/Kg-dry	100	5/19/2013

**Qualifiers:**

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 \* - Non-accredited parameter

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 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-370-01(0-6)-050713D
<b>Lab Order:</b>	13050282	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date</b>	5/7/2013 10:50:00 AM
<b>Lab ID:</b>	13050282-017A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>				Prep Date: 5/13/2013	Analyst: LB
Mercury	0.48	0.022		mg/Kg-dry	1	5/13/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: 5/13/2013	Analyst: JG
Antimony	ND	4.8		mg/Kg-dry	20	5/14/2013
Cadmium	5.5	1.2		mg/Kg-dry	20	5/14/2013
Chromium	46	12		mg/Kg-dry	100	5/13/2013
Copper	150	30		mg/Kg-dry	100	5/14/2013
Lead	950	1.2		mg/Kg-dry	20	5/14/2013
Tin	25	12	*	mg/Kg-dry	20	5/14/2013
Zinc	1100	60		mg/Kg-dry	100	5/14/2013
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>				Prep Date: 5/14/2013	Analyst: JG
Lead	0.27	0.005		mg/L	5	5/15/2013
<b>pH (25 °C)</b>	<b>SW9045C</b>				Prep Date: 5/14/2013	Analyst: PBG
pH	7.8			pH Units	1	5/14/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: 5/13/2013	Analyst: RW
Percent Moisture	18.5	0.2	*	wt%	1	5/14/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-370-01(0-6)-050713D
<b>Lab Order:</b>	13050282	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	5/7/2013 10:50:00 AM
<b>Lab ID:</b>	13050282-017B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: 5/19/2013	Analyst: JG
Lead	1200	9.9		mg/Kg-dry	100	5/19/2013

**Qualifiers:**

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RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-370-02(0-6)-050713
<b>Lab Order:</b>	13050282	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date</b>	5/7/2013 10:55:00 AM
<b>Lab ID:</b>	13050282-018A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>		Prep Date: <b>5/13/2013</b>		Analyst: <b>LB</b>	
Mercury	0.77	0.042		mg/Kg-dry	2	5/13/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>		Prep Date: <b>5/13/2013</b>		Analyst: <b>JG</b>	
Antimony	ND	5		mg/Kg-dry	20	5/14/2013
Cadmium	6.2	1.3		mg/Kg-dry	20	5/14/2013
Chromium	68	13		mg/Kg-dry	100	5/13/2013
Copper	220	31		mg/Kg-dry	100	5/14/2013
Lead	1700	1.3		mg/Kg-dry	20	5/14/2013
Tin	38	13	*	mg/Kg-dry	20	5/14/2013
Zinc	1600	63		mg/Kg-dry	100	5/14/2013
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>		Prep Date: <b>5/14/2013</b>		Analyst: <b>JG</b>	
Lead	0.4	0.005		mg/L	5	5/15/2013
<b>pH (25 °C)</b>	<b>SW9045C</b>		Prep Date: <b>5/14/2013</b>		Analyst: <b>PBG</b>	
pH	7.7			pH Units	1	5/14/2013
<b>Percent Moisture</b>	<b>D2974</b>		Prep Date: <b>5/13/2013</b>		Analyst: <b>RW</b>	
Percent Moisture	22.1	0.2	*	wt%	1	5/14/2013

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 HT - Sample received past holding time  
 \* - Non-accredited parameter

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 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-370-02(0-6)-050713
<b>Lab Order:</b>	13050282	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date</b>	5/7/2013 10:55:00 AM
<b>Lab ID:</b>	13050282-018B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: 5/19/2013	Analyst: JG
Lead	1000	9.9		mg/Kg-dry	100	5/19/2013

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 R - RPD outside accepted recovery limits  
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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-370-02(6-12)-050713
<b>Lab Order:</b> 13050282	<b>Tag Number:</b>
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 5/7/2013 11:00:00 AM
<b>Lab ID:</b> 13050282-019A	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>					Prep Date: 5/13/2013 Analyst: LB
Mercury	1.7	0.25		mg/Kg-dry	10	5/13/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>					Prep Date: 5/13/2013 Analyst: JG
Antimony	ND	4.5		mg/Kg-dry	20	5/14/2013
Cadmium	8.7	1.1		mg/Kg-dry	20	5/14/2013
Chromium	41	11		mg/Kg-dry	100	5/13/2013
Copper	310	28		mg/Kg-dry	100	5/14/2013
Lead	1700	1.1		mg/Kg-dry	20	5/14/2013
Tin	49	11	*	mg/Kg-dry	20	5/14/2013
Zinc	2300	57		mg/Kg-dry	100	5/14/2013
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>					Prep Date: 5/14/2013 Analyst: JG
Lead	0.36	0.005		mg/L	5	5/15/2013
<b>pH (25 °C)</b>	<b>SW9045C</b>					Prep Date: 5/14/2013 Analyst: PBG
pH	7.7			pH Units	1	5/14/2013
<b>Percent Moisture</b>	<b>D2974</b>					Prep Date: 5/13/2013 Analyst: RW
Percent Moisture	24.6	0.2		wt%	1	5/14/2013

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HT - Sample received past holding time

\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-370-02(6-12)-050713
<b>Lab Order:</b>	13050282	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date</b>	5/7/2013 11:00:00 AM
<b>Lab ID:</b>	13050282-019B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: 5/19/2013	Analyst: JG
Lead	2000	9.7		mg/Kg-dry	100	5/19/2013

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 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-369-01(0-6)-050713
<b>Lab Order:</b>	13050282	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date</b>	5/7/2013 12:20:00 PM
<b>Lab ID:</b>	13050282-020A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>					
Mercury	0.73	0.026		mg/Kg-dry	1	Prep Date: 5/13/2013 Analyst: LB 5/13/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>					
Antimony	ND	5.3		mg/Kg-dry	20	Prep Date: 5/13/2013 Analyst: JG 5/14/2013
Cadmium	7.5	1.3		mg/Kg-dry	20	5/14/2013
Chromium	43	13		mg/Kg-dry	100	5/13/2013
Copper	440	33		mg/Kg-dry	100	5/14/2013
Lead	1500	1.3		mg/Kg-dry	20	5/14/2013
Tin	52	13	*	mg/Kg-dry	20	5/14/2013
Zinc	1700	66		mg/Kg-dry	100	5/14/2013
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>					
Lead	0.26	0.005		mg/L	5	Prep Date: 5/14/2013 Analyst: JG 5/15/2013
<b>pH (25 °C)</b>	<b>SW9045C</b>					
pH	6.7			pH Units	1	Prep Date: 5/14/2013 Analyst: PBG 5/14/2013
<b>Percent Moisture</b>	<b>D2974</b>					
Percent Moisture	27.3	0.2	*	wt%	1	Prep Date: 5/13/2013 Analyst: RW 5/14/2013

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 HT - Sample received past holding time  
 \* - Non-accredited parameter

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 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded.



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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-369-01(0-6)-050713
<b>Lab Order:</b>	13050282	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date</b>	5/7/2013 12:20:00 PM
<b>Lab ID:</b>	13050282-020B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: 5/19/2013	Analyst: JG
Lead	2500	9.9		mg/Kg-dry	100	5/19/2013

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 HT - Sample received past holding time  
 \* - Non-accredited parameter

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 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-369-01(0-2)-050713
<b>Lab Order:</b> 13050282	<b>Tag Number:</b>
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 5/7/2013 12:15:00 PM
<b>Lab ID:</b> 13050282-021A	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>					
Mercury	0.23	0.024		mg/Kg-dry	1	5/13/2013
						Analyst: LB
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>					
Antimony	ND	4.8		mg/Kg-dry	20	5/14/2013
Cadmium	ND	1.2		mg/Kg-dry	20	5/14/2013
Chromium	ND	24		mg/Kg-dry	200	5/14/2013
Copper	100	60		mg/Kg-dry	200	5/14/2013
Lead	480	1.2		mg/Kg-dry	20	5/14/2013
Tin	ND	12	*	mg/Kg-dry	20	5/14/2013
Zinc	560	120		mg/Kg-dry	200	5/14/2013
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>					
Lead	0.05	0.005		mg/L	5	5/15/2013
						Analyst: JG
<b>pH (25 °C)</b>	<b>SW9045C</b>					
pH	6.3			pH Units	1	5/14/2013
						Analyst: PBG
<b>Percent Moisture</b>	<b>D2974</b>					
Percent Moisture	25.8	0.2	*	wt%	1	5/14/2013
						Analyst: RW

**Qualifiers:**

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J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-369-01(0-2)-050713
<b>Lab Order:</b>	13050282	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	5/7/2013 12:15:00 PM
<b>Lab ID:</b>	13050282-021B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: 5/19/2013	Analyst: JG
Lead	890	9.8		mg/Kg-dry	100	5/19/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-369-02(0-12)-050713
<b>Lab Order:</b> 13050282	<b>Tag Number:</b>
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 5/7/2013 12:25:00 PM
<b>Lab ID:</b> 13050282-022A	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>					
Mercury	1	0.052		mg/Kg-dry	2	5/13/2013
						Analyst: LB
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>					
Antimony	ND	4.7		mg/Kg-dry	20	5/14/2013
Cadmium	6.9	1.2		mg/Kg-dry	20	5/14/2013
Chromium	40	24		mg/Kg-dry	200	5/14/2013
Copper	560	59		mg/Kg-dry	200	5/14/2013
Lead	1700	1.2		mg/Kg-dry	20	5/14/2013
Tin	87	12	*	mg/Kg-dry	20	5/14/2013
Zinc	3000	120		mg/Kg-dry	200	5/14/2013
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>					
Lead	0.41	0.005		mg/L	5	5/15/2013
						Analyst: JG
<b>pH (25 °C)</b>	<b>SW9045C</b>					
pH	7.2			pH Units	1	5/14/2013
						Analyst: PBG
<b>Percent Moisture</b>	<b>D2974</b>					
Percent Moisture	27.4	0.2	*	wt%	1	5/14/2013
						Analyst: RW

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 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-369-02(0-12)-050713
<b>Lab Order:</b>	13050282	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date</b>	5/7/2013 12:25:00 PM
<b>Lab ID:</b>	13050282-022B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: 5/19/2013	Analyst: JG
Lead	2100	9.9		mg/Kg-dry	100	5/19/2013

**Qualifiers:**

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 HT - Sample received past holding time  
 \* - Non-accredited parameter

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-369-03,04(0-6)-050713
<b>Lab Order:</b> 13050282	<b>Tag Number:</b>
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 5/7/2013 12:30:00 PM
<b>Lab ID:</b> 13050282-023A	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>						
Mercury	1.1	0.043		mg/Kg-dry	2	5/13/2013
<b>Metals by ICP/MS</b>						
Antimony	ND	4.6		mg/Kg-dry	20	5/14/2013
Cadmium	5.8	1.1		mg/Kg-dry	20	5/14/2013
Chromium	24	23		mg/Kg-dry	200	5/14/2013
Copper	410	57		mg/Kg-dry	200	5/14/2013
Lead	2300	1.1		mg/Kg-dry	20	5/14/2013
Tin	49	11	*	mg/Kg-dry	20	5/14/2013
Zinc	2700	110		mg/Kg-dry	200	5/14/2013
<b>TCLP Metals by ICP/MS</b>						
Lead	1.2	0.005		mg/L	5	5/15/2013
<b>pH (25 °C)</b>						
pH	7.5			pH Units	1	5/14/2013
<b>Percent Moisture</b>						
Percent Moisture	13.5	0.2	*	wt%	1	5/14/2013

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 HT - Sample received past holding time  
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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-369-03,04(0-6)-050713
<b>Lab Order:</b>	13050282	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	5/7/2013 12:30:00 PM
<b>Lab ID:</b>	13050282-023B	<b>Matrix:</b>	Soil

<b>Analyses</b>	<b>Result</b>	<b>RL</b>	<b>Qualifier</b>	<b>Units</b>	<b>DF</b>	<b>Date Analyzed</b>
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: 5/19/2013	Analyst: JG
Lead	3500	9.9		mg/Kg-dry	100	5/19/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-371-01(0-6)-050713
<b>Lab Order:</b>	13050282	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date</b>	5/7/2013 2:15:00 PM
<b>Lab ID:</b>	13050282-024A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>						
Mercury	2	0.25		mg/Kg-dry	10	5/13/2013
<b>Metals by ICP/MS</b>						
Antimony	ND	5.1		mg/Kg-dry	20	5/14/2013
Cadmium	7.7	1.3		mg/Kg-dry	20	5/14/2013
Chromium	40	26		mg/Kg-dry	200	5/14/2013
Copper	450	64		mg/Kg-dry	200	5/14/2013
Lead	1800	1.3		mg/Kg-dry	20	5/14/2013
Tin	49	13	*	mg/Kg-dry	20	5/14/2013
Zinc	2800	130		mg/Kg-dry	200	5/14/2013
<b>TCLP Metals by ICP/MS</b>						
Lead	0.24	0.005		mg/L	5	5/15/2013
<b>pH (25 °C)</b>						
pH	6.4			pH Units	1	5/14/2013
<b>Percent Moisture</b>						
Percent Moisture	27.1	0.2		wt%	1	5/14/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded



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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-371-01(0-6)-050713
<b>Lab Order:</b>	13050282	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	5/7/2013 2:15:00 PM
<b>Lab ID:</b>	13050282-024B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: 5/19/2013	Analyst: JG
Lead	2200	9.6		mg/Kg-dry	100	5/19/2013

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- \* - Non-accredited parameter

- RL - Reporting / Quantitation Limit for the analysis
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- R - RPD outside accepted recovery limits
- E - Value above quantitation range
- H - Holding time exceeded

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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-371-02(0-6)-050713
<b>Lab Order:</b> 13050282	<b>Tag Number:</b>
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 5/7/2013 2:20:00 PM
<b>Lab ID:</b> 13050282-025A	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>		Prep Date: 5/13/2013		Analyst: LB	
Mercury	0.31	0.024		mg/Kg-dry	1	5/13/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>		Prep Date: 5/14/2013		Analyst: JG	
Antimony	ND	5.3		mg/Kg-dry	20	5/14/2013
Cadmium	ND	1.3		mg/Kg-dry	20	5/14/2013
Chromium	14	2.7		mg/Kg-dry	20	5/14/2013
Copper	54	6.6		mg/Kg-dry	20	5/14/2013
Lead	320	13		mg/Kg-dry	200	5/14/2013
Tin	ND	13	*	mg/Kg-dry	20	5/14/2013
Zinc	360	13		mg/Kg-dry	20	5/14/2013
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>		Prep Date: 5/15/2013		Analyst: JG	
Lead	0.024	0.005		mg/L	5	5/15/2013
<b>pH (25 °C)</b>	<b>SW9045C</b>		Prep Date: 5/14/2013		Analyst: PBG	
pH	7.3			pH Units	1	5/14/2013
<b>Percent Moisture</b>	<b>D2974</b>		Prep Date: 5/13/2013		Analyst: RW	
Percent Moisture	28.5	0.2		wt%	1	5/14/2013

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 HT - Sample received past holding time  
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 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-371-02(0-6)-050713
<b>Lab Order:</b>	13050282	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date</b>	5/7/2013 2:20:00 PM
<b>Lab ID:</b>	13050282-025B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: 5/19/2013	Analyst: JG
Lead	450	10		mg/Kg-dry	100	5/19/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-371-02(0-6)-050713D
<b>Lab Order:</b>	13050282	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date</b>	5/7/2013 2:25:00 PM
<b>Lab ID:</b>	13050282-026A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>		Prep Date: <b>5/13/2013</b>		Analyst: <b>LB</b>	
Mercury	0.18	0.025		mg/Kg-dry	1	5/13/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>		Prep Date: <b>5/14/2013</b>		Analyst: <b>JG</b>	
Antimony	ND	5.3		mg/Kg-dry	20	5/14/2013
Cadmium	ND	1.3		mg/Kg-dry	20	5/14/2013
Chromium	14	2.6		mg/Kg-dry	20	5/14/2013
Copper	51	6.6		mg/Kg-dry	20	5/14/2013
Lead	410	13		mg/Kg-dry	200	5/14/2013
Tin	ND	13	*	mg/Kg-dry	20	5/14/2013
Zinc	330	13		mg/Kg-dry	20	5/14/2013
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>		Prep Date: <b>5/15/2013</b>		Analyst: <b>JG</b>	
Lead	0.033	0.005		mg/L	5	5/15/2013
<b>pH (25 °C)</b>	<b>SW9045C</b>		Prep Date: <b>5/14/2013</b>		Analyst: <b>PBG</b>	
pH	7.4			pH Units	1	5/14/2013
<b>Percent Moisture</b>	<b>D2974</b>		Prep Date: <b>5/13/2013</b>		Analyst: <b>RW</b>	
Percent Moisture	27.8	0.2	*	wt%	1	5/14/2013

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 \* - Non-accredited parameter

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 S - Spike Recovery outside accepted recovery limits  
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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-371-02(0-6)-050713D
<b>Lab Order:</b>	13050282	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date</b>	5/7/2013 2:25:00 PM
<b>Lab ID:</b>	13050282-026B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: 5/19/2013	Analyst: JG
Lead	460	10		mg/Kg-dry	100	5/19/2013

**Qualifiers:**

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B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-349-01(0-6)-050713
<b>Lab Order:</b> 13050282	<b>Tag Number:</b>
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 5/7/2013 3:20:00 PM
<b>Lab ID:</b> 13050282-027A	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>					Prep Date: 5/13/2013 Analyst: LB
Mercury	0.46	0.021		mg/Kg-dry	1	5/13/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>					Prep Date: 5/14/2013 Analyst: JG
Antimony	ND	5		mg/Kg-dry	20	5/14/2013
Cadmium	5.4	1.3		mg/Kg-dry	20	5/14/2013
Chromium	29	2.5		mg/Kg-dry	20	5/14/2013
Copper	250	6.3		mg/Kg-dry	20	5/14/2013
Lead	890	13		mg/Kg-dry	200	5/14/2013
Tin	28	13	*	mg/Kg-dry	20	5/14/2013
Zinc	1800	13		mg/Kg-dry	20	5/14/2013
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>					Prep Date: 5/15/2013 Analyst: JG
Lead	0.13	0.005		mg/L	5	5/15/2013
<b>pH (25 °C)</b>	<b>SW9045C</b>					Prep Date: 5/14/2013 Analyst: PBG
pH	7.0			pH Units	1	5/14/2013
<b>Percent Moisture</b>	<b>D2974</b>					Prep Date: 5/13/2013 Analyst: RW
Percent Moisture	25.3	0.2	*	wt%	1	5/14/2013

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	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-349-01(0-6)-050713
<b>Lab Order:</b>	13050282	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date</b>	5/7/2013 3:20:00 PM
<b>Lab ID:</b>	13050282-027B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: 5/19/2013	Analyst: JG
Lead	1400	9.6		mg/Kg-dry	100	5/19/2013

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Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-349-02(0-12)-050713
<b>Lab Order:</b>	13050282	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date</b>	5/7/2013 3:25:00 PM
<b>Lab ID:</b>	13050282-028A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>				Prep Date: 5/13/2013	Analyst: LB
Mercury	0.25	0.025		mg/Kg-dry	1	5/13/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: 5/14/2013	Analyst: JG
Antimony	ND	5.2		mg/Kg-dry	20	5/14/2013
Cadmium	2	1.3		mg/Kg-dry	20	5/14/2013
Chromium	21	2.6		mg/Kg-dry	20	5/14/2013
Copper	100	6.5		mg/Kg-dry	20	5/14/2013
Lead	630	1.3		mg/Kg-dry	20	5/14/2013
Tin	17	13	*	mg/Kg-dry	20	5/14/2013
Zinc	650	13		mg/Kg-dry	20	5/14/2013
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>				Prep Date: 5/15/2013	Analyst: JG
Lead	0.18	0.005		mg/L	5	5/15/2013
<b>pH (25 °C)</b>	<b>SW9045C</b>				Prep Date: 5/14/2013	Analyst: PBG
pH	8.0			pH Units	1	5/14/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: 5/13/2013	Analyst: RW
Percent Moisture	23.7	0.2	*	wt%	1	5/14/2013

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 HT - Sample received past holding time  
 \* - Non-accredited parameter

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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-349-02(0-12)-050713
<b>Lab Order:</b>	13050282	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date</b>	5/7/2013 3:25:00 PM
<b>Lab ID:</b>	13050282-028B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: 5/19/2013	Analyst: JG
Lead	610	4.9		mg/Kg-dry	50	5/19/2013

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 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
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**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-349-03(0-6)-050713
<b>Lab Order:</b> 13050282	<b>Tag Number:</b>
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 5/7/2013 4:30:00 PM
<b>Lab ID:</b> 13050282-029A	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>					
Mercury	0.49	0.022		mg/Kg-dry	1	Prep Date: 5/13/2013 Analyst: LB 5/13/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>					
Antimony	ND	4.2		mg/Kg-dry	20	Prep Date: 5/14/2013 Analyst: JG 5/14/2013
Cadmium	2.5	1.1		mg/Kg-dry	20	5/14/2013
Chromium	27	2.1		mg/Kg-dry	20	5/14/2013
Copper	99	5.3		mg/Kg-dry	20	5/14/2013
Lead	1400	11		mg/Kg-dry	200	5/14/2013
Tin	19	11	*	mg/Kg-dry	20	5/14/2013
Zinc	930	11		mg/Kg-dry	20	5/14/2013
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>					
Lead	0.55	0.005		mg/L	5	Prep Date: 5/15/2013 Analyst: JG 5/15/2013
<b>pH (25 °C)</b>	<b>SW9045C</b>					
pH	7.7			pH Units	1	Prep Date: 5/14/2013 Analyst: PBG 5/14/2013
<b>Percent Moisture</b>	<b>D2974</b>					
Percent Moisture	12.6	0.2	*	wt%	1	Prep Date: 5/13/2013 Analyst: RW 5/14/2013

**Qualifiers:**

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 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

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 S - Spike Recovery outside accepted recovery limits  
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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-349-03(0-6)-050713
<b>Lab Order:</b>	13050282	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	5/7/2013 4:30:00 PM
<b>Lab ID:</b>	13050282-029B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: 5/19/2013	Analyst: JG
Lead	1500	4.9		mg/Kg-dry	50	5/19/2013

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- HT - Sample received past holding time
- \* - Non-accredited parameter

- RL - Reporting / Quantitation Limit for the analysis
- S - Spike Recovery outside accepted recovery limits
- R - RPD outside accepted recovery limits
- E - Value above quantitation range
- H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-351-01(0-6)-050713
<b>Lab Order:</b> 13050282	<b>Tag Number:</b>
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 5/7/2013 3:45:00 PM
<b>Lab ID:</b> 13050282-030A	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>					
Mercury	0.28	0.023		mg/Kg-dry	1	5/13/2013
<b>Mercury</b>						Analyst: LB
						5/13/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>					
Antimony	ND <i>J</i>	4.3		mg/Kg-dry	20	5/14/2013
Cadmium	ND	1.1		mg/Kg-dry	20	5/14/2013
Chromium	14	2.2		mg/Kg-dry	20	5/15/2013
Copper	58 <i>J</i>	54		mg/Kg-dry	200	5/14/2013
Lead	390	1.1		mg/Kg-dry	20	5/14/2013
Tin	ND	11	*	mg/Kg-dry	20	5/14/2013
Zinc	490	110		mg/Kg-dry	200	5/14/2013
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>					
Lead	0.75	0.005		mg/L	5	5/15/2013
<b>pH (25 °C)</b>	<b>SW9045C</b>					
pH	7.8			pH Units	1	5/14/2013
<b>Percent Moisture</b>	<b>D2974</b>					
Percent Moisture	13.5	0.2	*	wt%	1	5/14/2013
						Analyst: RW

*ZM*  
*5/28/13*

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-351-01(0-6)-050713
<b>Lab Order:</b>	13050282	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	5/7/2013 3:45:00 PM
<b>Lab ID:</b>	13050282-030B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: 5/19/2013	Analyst: JG
Lead	580	9.9		mg/Kg-dry	100	5/19/2013

**Qualifiers:**

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 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-141-01(0-6)-050713
<b>Lab Order:</b> 13050282	<b>Tag Number:</b>
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 5/7/2013 5:40:00 PM
<b>Lab ID:</b> 13050282-031A	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>				Prep Date: 5/13/2013	Analyst: LB
Mercury	0.64	0.024		mg/Kg-dry	1	5/13/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: 5/14/2013	Analyst: JG
Antimony	ND	4.7		mg/Kg-dry	20	5/14/2013
Cadmium	3.3	1.2		mg/Kg-dry	20	5/14/2013
Chromium	33	2.4		mg/Kg-dry	20	5/14/2013
Copper	200	5.9		mg/Kg-dry	20	5/14/2013
Lead	860	12		mg/Kg-dry	200	5/14/2013
Tin	39	12	*	mg/Kg-dry	20	5/14/2013
Zinc	700	12		mg/Kg-dry	20	5/14/2013
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>				Prep Date: 5/15/2013	Analyst: JG
Lead	0.22	0.005		mg/L	5	5/15/2013
<b>pH (25 °C)</b>	<b>SW9045C</b>				Prep Date: 5/14/2013	Analyst: PBG
pH	8.1			pH Units	1	5/14/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: 5/13/2013	Analyst: RW
Percent Moisture	17.1	0.2	*	wt%	1	5/14/2013

**Qualifiers:**

ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-141-01(0-6)-050713
<b>Lab Order:</b>	13050282	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date</b>	5/7/2013 5:40:00 PM
<b>Lab ID:</b>	13050282-031B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: 5/19/2013	Analyst: JG
Lead	760	5		mg/Kg-dry	50	5/19/2013

**Qualifiers:**

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 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-141-02(0-6)-050713
<b>Lab Order:</b>	13050282	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date</b>	5/7/2013 5:45:00 PM
<b>Lab ID:</b>	13050282-032A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>		Prep Date: <b>5/13/2013</b>		Analyst: <b>LB</b>	
Mercury	0.95	0.038		mg/Kg-dry	2	5/13/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>		Prep Date: <b>5/14/2013</b>		Analyst: <b>JG</b>	
Antimony	ND	4.6		mg/Kg-dry	20	5/14/2013
Cadmium	3.5	1.1		mg/Kg-dry	20	5/14/2013
Chromium	40	2.3		mg/Kg-dry	20	5/14/2013
Copper	190	5.7		mg/Kg-dry	20	5/14/2013
Lead	1600	11		mg/Kg-dry	200	5/14/2013
Tin	26	11		mg/Kg-dry	20	5/14/2013
Zinc	970	11		mg/Kg-dry	20	5/14/2013
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>		Prep Date: <b>5/15/2013</b>		Analyst: <b>JG</b>	
Lead	0.25	0.005		mg/L	5	5/15/2013
<b>pH (25 °C)</b>	<b>SW9045C</b>		Prep Date: <b>5/14/2013</b>		Analyst: <b>PBG</b>	
pH	7.7			pH Units	1	5/14/2013
<b>Percent Moisture</b>	<b>D2974</b>		Prep Date: <b>5/13/2013</b>		Analyst: <b>RW</b>	
Percent Moisture	16.6	0.2		wt%	1	5/14/2013

**Qualifiers:**

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- B - Analyte detected in the associated Method Blank
- HT - Sample received past holding time
- \* - Non-accredited parameter

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- S - Spike Recovery outside accepted recovery limits
- R - RPD outside accepted recovery limits
- E - Value above quantitation range
- H - Holding time exceeded



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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-141-02(0-6)-050713
<b>Lab Order:</b>	13050282	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	5/7/2013 5:45:00 PM
<b>Lab ID:</b>	13050282-032B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>						
		<b>SW6020 (SW3050B)</b>			Prep Date: 5/19/2013	Analyst: JG
Lead	1200	4.8		mg/Kg-dry	50	5/19/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-141-03(0-6)-050713
<b>Lab Order:</b>	13050282	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date</b>	5/7/2013 5:50:00 PM
<b>Lab ID:</b>	13050282-033A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>				Prep Date: 5/13/2013	Analyst: LB
Mercury	0.56	0.021		mg/Kg-dry	1	5/13/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: 5/14/2013	Analyst: JG
Antimony	ND	4.6		mg/Kg-dry	20	5/14/2013
Cadmium	5.9	1.1		mg/Kg-dry	20	5/14/2013
Chromium	110	2.3		mg/Kg-dry	20	5/14/2013
Copper	220	5.7		mg/Kg-dry	20	5/14/2013
Lead	3300	11		mg/Kg-dry	200	5/14/2013
Tin	43	11	*	mg/Kg-dry	20	5/14/2013
Zinc	1500	11		mg/Kg-dry	20	5/14/2013
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>				Prep Date: 5/15/2013	Analyst: JG
Lead	0.56	0.005		mg/L	5	5/15/2013
<b>pH (25 °C)</b>	<b>SW9045C</b>				Prep Date: 5/14/2013	Analyst: PBG
pH	8.0			pH Units	1	5/14/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: 5/13/2013	Analyst: RW
Percent Moisture	19.6	0.2	*	wt%	1	5/14/2013

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 HT - Sample received past holding time  
 \* - Non-accredited parameter

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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-141-03(0-6)-050713
<b>Lab Order:</b>	13050282	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date</b>	5/7/2013 5:50:00 PM
<b>Lab ID:</b>	13050282-033B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: 5/19/2013	Analyst: JG
Lead	1400	4.9		mg/Kg-dry	50	5/19/2013

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 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

**PILSEN AREA SOIL SITE  
CHICAGO, ILLINOIS  
DATA VALIDATION REPORT**

**Date:** June 3, 2013

**Laboratory:** STAT Analysis Corporation (STAT), Chicago, Illinois

**Laboratory Project #:** 13050358

**Data Validation Performed By:** Lisa Graczyk, Weston Solutions, Inc. (WESTON®) Superfund Technical Assessment and Response Team (START)

**Analytical TDD and Work Order #:** S05-0001-1211-003/20405.016.001.2038.00

This data validation report has been prepared by WESTON START under the START III Region V contract. This report documents the data validation for 28 soil samples collected for the Pilsen Area Soil Site that were analyzed for the following parameters and U.S. Environmental Protection Agency methods:

- Total Metals by SW-846 Methods 6020 and 7471A
- Fine Grained Lead by SW-846 Method 6020
- Bioavailability Lead by EPA Method 9200 and SW-846 Method 6020
- Toxicity Characteristic Leaching Procedure (TCLP) Lead by SW-846 Methods 1311 and 6020
- pH by SW-846 Method 9045C
- Moisture Content by ASTM D2974

A level II data package was requested from STAT. The data validation was conducted in general accordance with the EPA "Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review" dated January 2010. The Attachment contains the results summary sheets with the hand-written qualifiers applied during data validation.

**TOTAL METALS AND FINE GRAINED LEAD BY EPA SW-846 METHODS 6020 AND 7471A  
AND BIOAVAILABLE LEAD BY EPA METHOD 9200 AND SW-846 METHOD 6020**

**1. Samples**

Attachment A summarizes the samples for which this data validation is being conducted. It includes but the laboratory sample identification, the WESTON START sample identification, and the date and time of sample collection.

**2. Holding Times**

The samples were analyzed within the required holding time limit of 28 days for mercury and 180 days from sample collection to analysis for all other metals.

### 3. **Blank Results**

Method blanks were analyzed with the metals analyses. The blanks contained no metals contamination above the reporting limits. There were detections of some metals below the reporting limits in the blanks. However, in most instances the sample results were much greater or contained no detections of these metals. No qualifications were required.

The exception was for the In Vitro Extractable Lead result which was detected at a similar concentration to the method blank result. Therefore, in sample PA-466-01(0-6)-050913, the In Vitro Extractable Lead result was flagged "U" as not detected.

### 4. **Laboratory Control Sample (LCS) Results**

The LCS recoveries were within the quality control (QC) limits except for as follows.

In one LCS, antimony was detected high. Detected antimony results associated with this one LCS were flagged "J" as estimated.

### 5. **Matrix Spike (MS) and MS Duplicate (MSD) Results**

STAT analyzed several site-specific MS/MSDs. The percent recoveries and relative percent differences (RPD) were within QC limits except for as follows.

In many instances of QC limits not being met, the sample concentration was more than four times the spike amount. In these instances, no qualifications were required.

In the MS and MSD of samples PA-304-01(0-6)-050913 and PA-464-01(0-6)-050813, the antimony recovery was low. In these samples, the quantitation limits for non-detected antimony were flagged "UJ" and the detected results were flagged "J" as estimated.

### 6. **Field Duplicate Results**

There are three field duplicate samples associated with this work order that are identified by a "D" suffix in the sample name.

The field duplicate results were evaluated by calculating the RPDs between the investigative and field duplicate sample results. There is no established QC limit for RPD for field duplicates; however, 50 RPD is generally used for evaluation. Most of the RPDs for detected metals were below 50 which is acceptable.

The exception was tin in field duplicate PA-84-02(0-6)-050813D had an RPD of 60 which is high indicating sample heterogeneity associated with tin this sample.

7. **Overall Assessment**

The metals data are acceptable for use as qualified based on the information received.

**TCLP METALS BY EPA SW-846 METHODS 1311 AND 6020**

1. **Samples**

Attachment A summarizes the samples for which this data validation is being conducted. It includes but the laboratory sample identification, the WESTON START sample identification, and the date and time of sample collection.

2. **Holding Times**

The samples were analyzed within the required holding time limit of 180 days from sample collection.

3. **Blank Results**

Method blanks were analyzed with the metals analyses. Some of the blanks contained some minor lead contamination. A couple of the TCLP lead results were flagged "U" as not detected because they were similar to the method blank concentration (less than 5 times the method blank result).

4. **LCS Results**

The LCS recoveries were within the QC limits.

5. **MS and MSD Results**

STAT analyzed two site-specific MS/MSD samples. The percent recoveries and RPDs were within QC limits except for as follows.

6. **Field Duplicate Results**

There are three field duplicate samples associated with this work order that are identified by a "D" suffix in the sample name.

The field duplicate results were evaluated by calculating the RPDs between the investigative and field duplicate sample results. The RPDs were below 50 which is acceptable.

## 7. **Overall Assessment**

The TCLP lead data are acceptable for use based on the information received.

### **GENERAL CHEMISTRY PARAMETERS (pH by SW-846 Method 9045C and Moisture Content by ASTM D2974)**

#### 1. **Samples**

Attachment A summarizes the samples for which this data validation is being conducted. It includes but the laboratory sample identification, the WESTON START sample identification, and the date and time of sample collection.

#### 2. **Holding Times**

The holding time for pH is “as soon as possible” and the holding time for moisture is 28 days. The holding time for moisture was met. For pH, the samples were analyzed approximately 7-8 days from sample collection. No qualifications were applied.

#### 3. **Blank Results**

Method blanks were analyzed with the moisture analyses and were all non-detect for moisture which is acceptable.

#### 4. **LCS Results**

LCSs were analyzed with the moisture analyses. The LCS recoveries were within the QC limits.

#### 5. **Laboratory Duplicates**

Laboratory duplicates were analyzed with the pH and moisture analyses. The RPDs were within QC limits.

#### 6. **Field Duplicate Results**

There are three field duplicate samples associated with this work order that are identified by a “D” suffix in the sample name.

The field duplicate results were evaluated by calculating the RPDs between the investigative and field duplicate sample results. The RPDs were below 50 which is acceptable.

Data Validation Report  
Pilsen Area Soil Site  
STAT Analysis Corporation  
Laboratory Project #: 13050358

7. **Overall Assessment**

The pH and moisture data are acceptable for use as qualified based on the information received.



Data Validation Report  
Pilsen Area Soil Site  
STAT Analysis Corporation  
Laboratory Project #: 13050358

**ATTACHMENT A**  
**SAMPLE LIST**

**Client:** Weston Solutions  
**Project:** Pilsen Soil Site, Pilsen, Chicago, IL  
**Lab Order:** 13050358

**Work Order Sample Summary**

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
13050358-001A	PA-464-01(0-6)-050813		5/8/2013 11:30:00 AM	5/9/2013
13050358-001B	PA-464-01(0-6)-050813	Fine Grained	5/8/2013 11:30:00 AM	5/9/2013
13050358-002A	PA-464-02(0-6)-050813		5/8/2013 11:35:00 AM	5/9/2013
13050358-002B	PA-464-02(0-6)-050813	Fine Grained	5/8/2013 11:35:00 AM	5/9/2013
13050358-003A	PA-464-03(0-12)-050813		5/8/2013 11:40:00 AM	5/9/2013
13050358-003B	PA-464-03(0-12)-050813	Fine Grained	5/8/2013 11:40:00 AM	5/9/2013
13050358-004A	PA-464-04(0-12)-050813		5/8/2013 11:45:00 AM	5/9/2013
13050358-004B	PA-464-04(0-12)-050813	Fine Grained	5/8/2013 11:45:00 AM	5/9/2013
13050358-005A	PA-464-04(0-12)-050813D		5/8/2013 11:50:00 AM	5/9/2013
13050358-005B	PA-464-04(0-12)-050813D	Fine Grained	5/8/2013 11:50:00 AM	5/9/2013
13050358-006A	PA-464-05(0-6)-050813		5/8/2013 11:55:00 AM	5/9/2013
13050358-007A	PA-464-06(0-6)-050813		5/8/2013 12:00:00 PM	5/9/2013
13050358-008A	PA-84-01(0-6)-050813		5/8/2013 2:00:00 PM	5/9/2013
13050358-008B	PA-84-01(0-6)-050813	Fine Grained	5/8/2013 2:00:00 PM	5/9/2013
13050358-009A	PA-84-02(0-6)-050813		5/8/2013 2:05:00 PM	5/9/2013
13050358-009B	PA-84-02(0-6)-050813	Fine Grained	5/8/2013 2:05:00 PM	5/9/2013
13050358-010A	PA-84-02(0-6)-050813D		5/8/2013 2:10:00 PM	5/9/2013
13050358-010B	PA-84-02(0-6)-050813D	Fine Grained	5/8/2013 2:10:00 PM	5/9/2013
13050358-011A	PA-84-04(0-6)-050813		5/8/2013 2:15:00 PM	5/9/2013
13050358-012A	PA-84-05(0-6)-050813		5/8/2013 2:20:00 PM	5/9/2013
13050358-013A	PA-92-01(0-6)-050813		5/8/2013 3:30:00 PM	5/9/2013
13050358-013B	PA-92-01(0-6)-050813	Fine Grained	5/8/2013 3:30:00 PM	5/9/2013
13050358-014A	PA-92-02(0-6)-050813		5/8/2013 3:40:00 PM	5/9/2013
13050358-014B	PA-92-02(0-6)-050813	Fine Grained	5/8/2013 3:40:00 PM	5/9/2013
13050358-015A	PA-14-01(0-6)-050913		5/9/2013 8:50:00 AM	5/9/2013
13050358-015B	PA-14-01(0-6)-050913	Fine Grained	5/9/2013 8:50:00 AM	5/9/2013
13050358-016A	PA-14-02(0-6)-050913		5/9/2013 8:55:00 AM	5/9/2013
13050358-016B	PA-14-02(0-6)-050913	Fine Grained	5/9/2013 8:55:00 AM	5/9/2013
13050358-017A	PA-14-03(0-6)-050913		5/9/2013 9:00:00 AM	5/9/2013
13050358-017B	PA-14-03(0-6)-050913	Fine Grained	5/9/2013 9:00:00 AM	5/9/2013
13050358-018A	PA-304-01(0-6)-050913		5/9/2013 10:00:00 AM	5/9/2013
13050358-018B	PA-304-01(0-6)-050913	Fine Grained	5/9/2013 10:00:00 AM	5/9/2013
13050358-019A	PA-465-01(0-6)-050913		5/9/2013 11:30:00 AM	5/9/2013
13050358-019B	PA-465-01(0-6)-050913	Fine Grained	5/9/2013 11:30:00 AM	5/9/2013
13050358-020A	PA-465-01(0-6)-050913D		5/9/2013 11:35:00 AM	5/9/2013
13050358-020B	PA-465-01(0-6)-050913D	Fine Grained	5/9/2013 11:35:00 AM	5/9/2013
13050358-021A	PA-465-02.03.04(0-12)-050913		5/9/2013 11:40:00 AM	5/9/2013

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**Client:** Weston Solutions  
**Project:** Pilsen Soil Site, Pilsen, Chicago, IL  
**Lab Order:** 13050358

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## Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
13050358-021B	PA-465-02.03.04(0-12)-050913	Fine Grained	5/9/2013 11:40:00 AM	5/9/2013
13050358-022A	PA-466-01(0-6)-050913		5/9/2013 2:15:00 PM	5/9/2013
13050358-022B	PA-466-01(0-6)-050913	Fine Grained	5/9/2013 2:15:00 PM	5/9/2013
13050358-022C	PA-466-01(0-6)-050913	Course Grained	5/9/2013 2:15:00 PM	5/9/2013
13050358-023A	PA-466-02(0-6)-050913		5/9/2013 2:20:00 PM	5/9/2013
13050358-023B	PA-466-02(0-6)-050913	Fine Grained	5/9/2013 2:20:00 PM	5/9/2013
13050358-024A	PA-466-03(0-6)-050913		5/9/2013 2:25:00 PM	5/9/2013
13050358-025A	PA-466-04(0-6)-050913		5/9/2013 2:30:00 PM	5/9/2013
13050358-026A	PA-466-05(0-6)-050913		5/8/2013 2:35:00 PM	5/9/2013
13050358-026B	PA-466-05(0-6)-050913	Fine Grained	5/8/2013 2:35:00 PM	5/9/2013
13050358-027A	PA-467-01(0-6)-050913		5/8/2013 3:00:00 PM	5/9/2013
13050358-027B	PA-467-01(0-6)-050913	Fine Grained	5/8/2013 3:00:00 PM	5/9/2013
13050358-028A	PA-468-01(0-6)-050913		5/8/2013 3:30:00 PM	5/9/2013
13050358-028B	PA-468-01(0-6)-050913	Fine Grained	5/8/2013 3:30:00 PM	5/9/2013

Data Validation Report  
Pilsen Area Soil Site  
STAT Analysis Corporation  
Laboratory Project #: 13050358

**ATTACHMENT B**

**STAT ANALYSIS CORPORATION  
RESULTS SUMMARY WITH QUALIFIERS**

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-464-01(0-6)-050813
<b>Lab Order:</b> 13050358	<b>Tag Number:</b>
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 5/8/2013 11:30:00 AM
<b>Lab ID:</b> 13050358-001A	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>					
Mercury	0.45	0.022		mg/Kg-dry	1	5/15/2013
<b>Mercury</b>	<b>SW6020 (SW3050B)</b>					
Antimony	8.6	4.4		mg/Kg-dry	20	5/16/2013
Cadmium	3.2	1.1		mg/Kg-dry	20	5/16/2013
Chromium	21	2.2		mg/Kg-dry	20	5/16/2013
Copper	170	5.5		mg/Kg-dry	20	5/16/2013
Lead	910	1.1		mg/Kg-dry	20	5/16/2013
Tin	36	11	*	mg/Kg-dry	20	5/16/2013
Zinc	750	11		mg/Kg-dry	20	5/16/2013
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>					
Lead	0.058	0.005		mg/L	5	5/15/2013
<b>pH (25 °C)</b>	<b>SW9045C</b>					
pH	7.1			pH Units	1	5/16/2013
<b>Percent Moisture</b>	<b>D2974</b>					
Percent Moisture	13.0	0.2	*	wt%	1	5/16/2013

21  
6/3/13

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-464-01(0-6)-050813
<b>Lab Order:</b>	13050358	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	5/8/2013 11:30:00 AM
<b>Lab ID:</b>	13050358-001B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: 5/19/2013	Analyst: JG
Lead	1300		5	mg/Kg-dry	50	5/19/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-464-02(0-6)-050813
<b>Lab Order:</b> 13050358	<b>Tag Number:</b>
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 5/8/2013 11:35:00 AM
<b>Lab ID:</b> 13050358-002A	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>		Prep Date: 5/15/2013		Analyst: LB	
Mercury	0.18	0.02		mg/Kg-dry		5/15/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>		Prep Date: 5/15/2013		Analyst: JG	
Antimony	ND	4.3		mg/Kg-dry	20	5/16/2013
Cadmium	1.9	1.1		mg/Kg-dry	20	5/16/2013
Chromium	22	2.1		mg/Kg-dry	20	5/16/2013
Copper	74	5.3		mg/Kg-dry	20	5/16/2013
Lead	240	1.1		mg/Kg-dry	20	5/16/2013
Tin	15	11	*	mg/Kg-dry	20	5/16/2013
Zinc	260	11		mg/Kg-dry	20	5/16/2013
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>		Prep Date: 5/15/2013		Analyst: JG	
Lead	0.016	0.0075		mg/L	5	5/15/2013
<b>pH (25 °C)</b>	<b>SW9045C</b>		Prep Date: 5/16/2013		Analyst: RW	
pH	7.4			pH Units	1	5/16/2013
<b>Percent Moisture</b>	<b>D2974</b>		Prep Date: 5/16/2013		Analyst: RW	
Percent Moisture	9.5	0.2	*	wt%	1	5/16/2013

2/16/13

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-464-02(0-6)-050813
<b>Lab Order:</b>	13050358	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	5/8/2013 11:35:00 AM
<b>Lab ID:</b>	13050358-002B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: <b>5/19/2013</b>	Analyst: <b>JG</b>
Lead	350	5		mg/Kg-dry	50	5/19/2013

**Qualifiers:**

ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded



**STAT Analysis Corporation**

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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-464-03(0-12)-050813
<b>Lab Order:</b>	13050358	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	5/8/2013 11:40:00 AM
<b>Lab ID:</b>	13050358-003A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>					
Mercury	0.45	0.021		mg/Kg-dry	1	Prep Date: 5/15/2013 Analyst: LB 5/15/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>					
Antimony	4.8	4.7		mg/Kg-dry	20	Prep Date: 5/15/2013 Analyst: JG 5/16/2013
Cadmium	9.4	1.2		mg/Kg-dry	20	5/16/2013
Chromium	72	2.4		mg/Kg-dry	20	5/16/2013
Copper	150	5.9		mg/Kg-dry	20	5/16/2013
Lead	670	1.2		mg/Kg-dry	20	5/16/2013
Tin	29	12	*	mg/Kg-dry	20	5/16/2013
Zinc	620	12		mg/Kg-dry	20	5/16/2013
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>					
Lead	0.16	0.005		mg/L	5	Prep Date: 5/15/2013 Analyst: JG 5/15/2013
<b>pH (25 °C)</b>	<b>SW9045C</b>					
pH	7.7			pH Units	1	Prep Date: 5/16/2013 Analyst: RW 5/16/2013
<b>Percent Moisture</b>	<b>D2974</b>					
Percent Moisture	15.2	0.2	*	wt%	1	Prep Date: 5/16/2013 Analyst: RW 5/16/2013

**Qualifiers:**

ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-464-03(0-12)-050813
<b>Lab Order:</b>	13050358	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	5/8/2013 11:40:00 AM
<b>Lab ID:</b>	13050358-003B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: 5/19/2013	Analyst: JG
Lead	990	5		mg/Kg-dry	50	5/19/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

**STAT Analysis Corporation**

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-464-04(0-12)-050813
<b>Lab Order:</b> 13050358	<b>Tag Number:</b>
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 5/8/2013 11:45:00 AM
<b>Lab ID:</b> 13050358-004A	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>					
Mercury	2	0.12		mg/Kg-dry	5	5/15/2013
						Prep Date: 5/15/2013 Analyst: LB
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>					
Antimony	ND	4.8		mg/Kg-dry	20	5/16/2013
Cadmium	38	1.2		mg/Kg-dry	20	5/16/2013
Chromium	340	2.4		mg/Kg-dry	20	5/16/2013
Copper	260	6.1		mg/Kg-dry	20	5/16/2013
Lead	450	1.2		mg/Kg-dry	20	5/16/2013
Tin	38	12	*	mg/Kg-dry	20	5/16/2013
Zinc	940	12		mg/Kg-dry	20	5/16/2013
						Prep Date: 5/15/2013 Analyst: JG
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>					
Lead	0.036	0.005		mg/L	5	5/15/2013
						Prep Date: 5/16/2013 Analyst: RW
<b>pH (25 °C)</b>	<b>SW9045C</b>					
pH	7.8			pH Units	1	5/16/2013
						Prep Date: 5/16/2013 Analyst: RW
<b>Percent Moisture</b>	<b>D2974</b>					
Percent Moisture	21.1	0.2	*	wt%	1	5/16/2013

**Qualifiers:**

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-464-04(0-12)-050813
<b>Lab Order:</b>	13050358	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	5/8/2013 11:45:00 AM
<b>Lab ID:</b>	13050358-004B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS		SW6020 (SW3050B)			Prep Date: 5/20/2013	Analyst: JG
Lead	500	2.5		mg/Kg-dry	50	5/20/2013

**Qualifiers:**

ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-464-04(0-12)-050813D
<b>Lab Order:</b> 13050358	<b>Tag Number:</b>
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 5/8/2013 11:50:00 AM
<b>Lab ID:</b> 13050358-005A	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>					
Mercury	1.5	0.1		mg/Kg-dry	5	Prep Date: 5/15/2013 Analyst: LB 5/15/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>					
Antimony	ND	4.9		mg/Kg-dry	20	Prep Date: 5/15/2013 Analyst: JG 5/16/2013
Cadmium	35	1.2		mg/Kg-dry	20	5/16/2013
Chromium	300	2.4		mg/Kg-dry	20	5/16/2013
Copper	240	6.1		mg/Kg-dry	20	5/16/2013
Lead	390	1.2		mg/Kg-dry	20	5/16/2013
Tin	33	12	*	mg/Kg-dry	20	5/16/2013
Zinc	870	12		mg/Kg-dry	20	5/16/2013
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>					
Lead	0.036	0.005		mg/L	5	Prep Date: 5/15/2013 Analyst: JG 5/15/2013
<b>pH (25 °C)</b>	<b>SW9045C</b>					
pH	7.7			pH Units	1	Prep Date: 5/16/2013 Analyst: RW 5/16/2013
<b>Percent Moisture</b>	<b>D2974</b>					
Percent Moisture	17.7	0.2	*	wt%	1	Prep Date: 5/16/2013 Analyst: RW 5/16/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-464-04(0-12)-050813D
<b>Lab Order:</b> 13050358	<b>Tag Number:</b> Fine Grained
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 5/8/2013 11:50:00 AM
<b>Lab ID:</b> 13050358-005B	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Metals by ICP/MS					Prep Date: 5/19/2013	Analyst: JG
Lead	510	5		mg/Kg-dry	50	5/19/2013

**Qualifiers:**

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 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-464-05(0-6)-050813
<b>Lab Order:</b>	13050358	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date</b>	5/8/2013 11:55:00 AM
<b>Lab ID:</b>	13050358-006A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>					
Lead	1100	1.1		mg/Kg-dry	20	Prep Date: 5/15/2013 Analyst: JG 5/16/2013
<b>Percent Moisture</b>	<b>D2974</b>					
Percent Moisture	14.6	0.2		wt%	1	Prep Date: 5/16/2013 Analyst: RW 5/16/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-464-06(0-6)-050813
<b>Lab Order:</b>	13050358	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	5/8/2013 12:00:00 PM
<b>Lab ID:</b>	13050358-007A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>						
Lead	510	1.1		mg/Kg-dry	20	5/16/2013
<b>Percent Moisture</b>						
Percent Moisture	10.9	0.2	*	wt%	1	5/16/2013

**Qualifiers:**

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 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded



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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-84-01(0-6)-050813
<b>Lab Order:</b> 13050358	<b>Tag Number:</b>
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 5/8/2013 2:00:00 PM
<b>Lab ID:</b> 13050358-008A	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>		Prep Date: 5/15/2013		Analyst: LB	
Mercury	0.48	0.019		mg/Kg-dry	1	5/15/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>		Prep Date: 5/15/2013		Analyst: JG	
Antimony	ND	4.5		mg/Kg-dry	20	5/16/2013
Cadmium	2	1.1		mg/Kg-dry	20	5/16/2013
Chromium	19	2.2		mg/Kg-dry	20	5/16/2013
Copper	56	5.7		mg/Kg-dry	20	5/16/2013
Lead	600	1.1		mg/Kg-dry	20	5/16/2013
Tin	30	11	*	mg/Kg-dry	20	5/16/2013
Zinc	470	11		mg/Kg-dry	20	5/16/2013
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>		Prep Date: 5/15/2013		Analyst: JG	
Lead	0.087	0.005		mg/L	5	5/15/2013
<b>pH (25 °C)</b>	<b>SW9045C</b>		Prep Date: 5/16/2013		Analyst: RW	
pH	8.0			pH Units	1	5/16/2013
<b>Percent Moisture</b>	<b>D2974</b>		Prep Date: 5/16/2013		Analyst: RW	
Percent Moisture	14.0	0.2	*	wt%	1	5/16/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-84-01(0-6)-050813
<b>Lab Order:</b>	13050358	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	5/8/2013 2:00:00 PM
<b>Lab ID:</b>	13050358-008B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: <b>5/19/2013</b>	Analyst: <b>JG</b>
Lead	680	5		mg/Kg-dry	50	5/19/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-84-02(0-6)-050813
<b>Lab Order:</b> 13050358	<b>Tag Number:</b>
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 5/8/2013 2:05:00 PM
<b>Lab ID:</b> 13050358-009A	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>					
Mercury	0.35	0.019		mg/Kg-dry	1	Prep Date: 5/15/2013 Analyst: LB 5/15/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>					
Antimony	ND	4.5		mg/Kg-dry	20	Prep Date: 5/15/2013 Analyst: JG 5/16/2013
Cadmium	4.5	1.1		mg/Kg-dry	20	5/16/2013
Chromium	31	2.2		mg/Kg-dry	20	5/16/2013
Copper	110	5.5		mg/Kg-dry	20	5/16/2013
Lead	1100	1.1		mg/Kg-dry	20	5/16/2013
Tin	26	11	*	mg/Kg-dry	20	5/16/2013
Zinc	880	11		mg/Kg-dry	20	5/16/2013
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>					
Lead	0.15	0.005		mg/L	5	Prep Date: 5/15/2013 Analyst: JG 5/15/2013
<b>pH (25 °C)</b>	<b>SW9045C</b>					
pH	7.7			pH Units	1	Prep Date: 5/16/2013 Analyst: RW 5/16/2013
<b>Percent Moisture</b>	<b>D2974</b>					
Percent Moisture	12.5	0.2	*	wt%	1	Prep Date: 5/16/2013 Analyst: RW 5/16/2013

**Qualifiers:**

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 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-84-02(0-6)-050813
<b>Lab Order:</b> 13050358	<b>Tag Number:</b> Fine Grained
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 5/8/2013 2:05:00 PM
<b>Lab ID:</b> 13050358-009B	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>						
Lead	1100	5		mg/Kg-dry	50	

SW6020 (SW3050B)

Prep Date: 5/19/2013

Analyst: JG

**Qualifiers:**

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 HT - Sample received past holding time  
 \* - Non-accredited parameter

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 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-84-02(0-6)-050813D
<b>Lab Order:</b>	13050358	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date</b>	5/8/2013 2:10:00 PM
<b>Lab ID:</b>	13050358-010A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>					
Mercury	0.27	0.02		mg/Kg-dry	1	Prep Date: 5/15/2013 Analyst: LB 5/15/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>					
Antimony	ND	4.5		mg/Kg-dry	20	Prep Date: 5/15/2013 Analyst: JG 5/16/2013
Cadmium	3.6	1.1		mg/Kg-dry	20	5/16/2013
Chromium	27	2.3		mg/Kg-dry	20	5/16/2013
Copper	82	5.6		mg/Kg-dry	20	5/16/2013
Lead	740	1.1		mg/Kg-dry	20	5/16/2013
Tin	14	11	*	mg/Kg-dry	20	5/16/2013
Zinc	700	11		mg/Kg-dry	20	5/16/2013
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>					
Lead	0.092	0.005		mg/L	5	Prep Date: 5/15/2013 Analyst: JG 5/15/2013
<b>pH (25 °C)</b>	<b>SW9045C</b>					
pH	7.9			pH Units	1	Prep Date: 5/16/2013 Analyst: RW 5/16/2013
<b>Percent Moisture</b>	<b>D2974</b>					
Percent Moisture	11.2	0.2	*	wt%	1	Prep Date: 5/16/2013 Analyst: RW 5/16/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-84-02(0-6)-050813D
<b>Lab Order:</b>	13050358	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date</b>	5/8/2013 2:10:00 PM
<b>Lab ID:</b>	13050358-010B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: <b>5/19/2013</b>	Analyst: <b>JG</b>
Lead	920	5		mg/Kg-dry	50	5/19/2013

**Qualifiers:**

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 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

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 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-84-04(0-6)-050813
<b>Lab Order:</b>	13050358	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date</b>	5/8/2013 2:15:00 PM
<b>Lab ID:</b>	13050358-011A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>						
Lead	530	1.1		mg/Kg-dry	20	5/16/2013
<b>Percent Moisture</b>						
Percent Moisture	13.1	0.2	*	wt%	1	5/16/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-84-05(0-6)-050813
<b>Lab Order:</b> 13050358	<b>Tag Number:</b>
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 5/8/2013 2:20:00 PM
<b>Lab ID:</b> 13050358-012A	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: 5/15/2013	Analyst: JG
Lead	360	1.1		mg/Kg-dry	20	5/16/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: 5/16/2013	Analyst: RW
Percent Moisture	14.9	0.2	*	wt%	1	5/16/2013

**Qualifiers:**

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-92-01(0-6)-050813
<b>Lab Order:</b> 13050358	<b>Tag Number:</b>
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 5/8/2013 3:30:00 PM
<b>Lab ID:</b> 13050358-013A	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>					
Mercury	0.76	0.038		mg/Kg-dry	2	5/15/2013
<b>Mercury</b>						Prep Date: 5/15/2013 Analyst: LB
						5/15/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>					
Antimony	ND	4.5		mg/Kg-dry	20	5/16/2013
Cadmium	4.9	1.1		mg/Kg-dry	20	5/16/2013
Chromium	25	2.3		mg/Kg-dry	20	5/16/2013
Copper	170	5.6		mg/Kg-dry	20	5/16/2013
Lead	880	1.1		mg/Kg-dry	20	5/16/2013
Tin	140	11	*	mg/Kg-dry	20	5/16/2013
Zinc	1300	11		mg/Kg-dry	20	5/16/2013
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>					
Lead	0.12	0.005		mg/L	5	5/15/2013
<b>pH (25 °C)</b>	<b>SW9045C</b>					
pH	7.4			pH Units	1	5/16/2013
<b>Percent Moisture</b>	<b>D2974</b>					
Percent Moisture	13.1	0.2	*	wt%	1	5/16/2013
						Prep Date: 5/16/2013 Analyst: RW
						5/16/2013

**Qualifiers:**

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-92-01(0-6)-050813
<b>Lab Order:</b>	13050358	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date</b>	5/8/2013 3:30:00 PM
<b>Lab ID:</b>	13050358-013B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: <b>5/19/2013</b>	Analyst: <b>JG</b>
Lead	1000	4.9		mg/Kg-dry	50	5/19/2013

**Qualifiers:**

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 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-92-02(0-6)-050813
<b>Lab Order:</b>	13050358	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date</b>	5/8/2013 3:40:00 PM
<b>Lab ID:</b>	13050358-014A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>					
Mercury	0.25	0.025		mg/Kg-dry	1	Prep Date: 5/15/2013 Analyst: LB 5/15/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>					
Antimony	ND	4.8		mg/Kg-dry	20	Prep Date: 5/15/2013 Analyst: JG 5/16/2013
Cadmium	2	1.2		mg/Kg-dry	20	5/16/2013
Chromium	15	2.4		mg/Kg-dry	20	5/16/2013
Copper	83	6.1		mg/Kg-dry	20	5/16/2013
Lead	400	1.2		mg/Kg-dry	20	5/16/2013
Tin	35	12	*	mg/Kg-dry	20	5/16/2013
Zinc	550	12		mg/Kg-dry	20	5/16/2013
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>					
Lead	0.065	0.005		mg/L	5	Prep Date: 5/15/2013 Analyst: JG 5/15/2013
<b>pH (25 °C)</b>	<b>SW9045C</b>					
pH	7.7			pH Units	.1	Prep Date: 5/16/2013 Analyst: RW 5/16/2013
<b>Percent Moisture</b>	<b>D2974</b>					
Percent Moisture	20.7	0.2	*	wt%	1	Prep Date: 5/16/2013 Analyst: RW 5/16/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

**STAT Analysis Corporation**

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Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-92-02(0-6)-050813
<b>Lab Order:</b> 13050358	<b>Tag Number:</b> Fine Grained
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 5/8/2013 3:40:00 PM
<b>Lab ID:</b> 13050358-014B	<b>Matrix:</b> Soil

<b>Analyses</b>	<b>Result</b>	<b>RL</b>	<b>Qualifier</b>	<b>Units</b>	<b>DF</b>	<b>Date Analyzed</b>
<b>Metals by ICP/MS</b>						
Lead	250	4.8		mg/Kg-dry	50	5/19/2013

**Qualifiers:**

ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-14-01(0-6)-050913
<b>Lab Order:</b> 13050358	<b>Tag Number:</b>
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 5/9/2013 8:50:00 AM
<b>Lab ID:</b> 13050358-015A	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>				Prep Date: <b>5/15/2013</b>	Analyst: <b>LB</b>
Mercury	0.093	0.023		mg/Kg-dry	1	5/15/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>5/15/2013</b>	Analyst: <b>JG</b>
Antimony	ND	4.7		mg/Kg-dry	20	5/16/2013
Cadmium	ND	1.2		mg/Kg-dry	20	5/16/2013
Chromium	18	2.3		mg/Kg-dry	20	5/16/2013
Copper	55	5.9		mg/Kg-dry	20	5/16/2013
Lead	140	1.2		mg/Kg-dry	20	5/16/2013
Tin	13	12	*	mg/Kg-dry	20	5/16/2013
Zinc	220	12		mg/Kg-dry	20	5/16/2013
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>				Prep Date: <b>5/15/2013</b>	Analyst: <b>JG</b>
Lead	0.026	0.005		mg/L	5	5/15/2013
<b>pH (25 °C)</b>	<b>SW9045C</b>				Prep Date: <b>5/16/2013</b>	Analyst: <b>RW</b>
pH	7.3			pH Units	1	5/16/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: <b>5/16/2013</b>	Analyst: <b>RW</b>
Percent Moisture	17.2	0.2		wt%	1	5/16/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-14-01(0-6)-050913.
<b>Lab Order:</b>	13050358	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date</b>	5/9/2013 8:50:00 AM
<b>Lab ID:</b>	13050358-015B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: <b>5/19/2013</b>	Analyst: <b>JG</b>
Lead	200	5		mg/Kg-dry	50	5/19/2013

**Qualifiers:**

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 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-14-02(0-6)-050913
<b>Lab Order:</b> 13050358	<b>Tag Number:</b>
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 5/9/2013 8:55:00 AM
<b>Lab ID:</b> 13050358-016A	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>					
Mercury	0.2	0.03		mg/Kg-dry	1	Prep Date: 5/15/2013 Analyst: LB 5/15/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>					
Antimony	ND	5.9		mg/Kg-dry	20	Prep Date: 5/15/2013 Analyst: JG 5/16/2013
Cadmium	ND	1.5		mg/Kg-dry	20	5/16/2013
Chromium	24	3		mg/Kg-dry	20	5/16/2013
Copper	96	7.4		mg/Kg-dry	20	5/16/2013
Lead	480	1.5		mg/Kg-dry	20	5/16/2013
Tin	ND	15	*	mg/Kg-dry	20	5/16/2013
Zinc	520	15		mg/Kg-dry	20	5/16/2013
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>					
Lead	0.074	0.005		mg/L	5	Prep Date: 5/15/2013 Analyst: JG 5/15/2013
<b>pH (25 °C)</b>	<b>SW9045C</b>					
pH	7.4			pH Units	1	Prep Date: 5/16/2013 Analyst: RW 5/16/2013
<b>Percent Moisture</b>	<b>D2974</b>					
Percent Moisture	33.8	0.2	*	wt%	1	Prep Date: 5/16/2013 Analyst: RW 5/16/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-14-02(0-6)-050913
<b>Lab Order:</b> 13050358	<b>Tag Number:</b> Fine Grained
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 5/9/2013 8:55:00 AM
<b>Lab ID:</b> 13050358-016B	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: <b>5/19/2013</b>	Analyst: <b>JG</b>
Lead	560	6		mg/Kg-dry	50	5/19/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded



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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-14-03(0-6)-050913
<b>Lab Order:</b> 13050358	<b>Tag Number:</b>
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 5/9/2013 9:00:00 AM
<b>Lab ID:</b> 13050358-017A	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>					
Mercury	0.2	0.022		mg/Kg-dry	1	5/15/2013
					Prep Date: 5/15/2013	Analyst: LB
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>					
Antimony	ND	5		mg/Kg-dry	20	5/16/2013
Cadmium	1.7	1.2		mg/Kg-dry	20	5/16/2013
Chromium	15	2.4		mg/Kg-dry	20	5/16/2013
Copper	110	6.2		mg/Kg-dry	20	5/16/2013
Lead	710	1.2		mg/Kg-dry	20	5/16/2013
Tin	ND	12	*	mg/Kg-dry	20	5/16/2013
Zinc	530	12		mg/Kg-dry	20	5/16/2013
					Prep Date: 5/15/2013	Analyst: JG
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>					
Lead	0.37	0.005		mg/L	5	5/15/2013
					Prep Date: 5/16/2013	Analyst: RW
<b>pH (25 °C)</b>	<b>SW9045C</b>					
pH	7.4			pH Units	1	5/16/2013
					Prep Date: 5/16/2013	Analyst: RW
<b>Percent Moisture</b>	<b>D2974</b>					
Percent Moisture	22.0	0.2	*	wt%	1	5/16/2013

**Qualifiers:**

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 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-14-03(0-6)-050913
<b>Lab Order:</b>	13050358	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	5/9/2013 9:00:00 AM
<b>Lab ID:</b>	13050358-017B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: <b>5/19/2013</b>	Analyst: <b>JG</b>
Lead	980	4.9		mg/Kg-dry	50	5/19/2013

**Qualifiers:**

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 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-304-01(0-6)-050913
<b>Lab Order:</b> 13050358	<b>Tag Number:</b>
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 5/9/2013 10:00:00 AM
<b>Lab ID:</b> 13050358-018A	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>					
Mercury	0.067	0.018		mg/Kg-dry	1	Prep Date: 5/15/2013 Analyst: LB 5/15/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>					
Antimony	ND	4.2		mg/Kg-dry	20	Prep Date: 5/15/2013 Analyst: JG 5/16/2013
Cadmium	ND	1		mg/Kg-dry	20	5/16/2013
Chromium	13	2.1		mg/Kg-dry	20	5/16/2013
Copper	27	5.2		mg/Kg-dry	20	5/16/2013
Lead	58	1		mg/Kg-dry	20	5/16/2013
Tin	ND	10	*	mg/Kg-dry	20	5/16/2013
Zinc	130	10		mg/Kg-dry	20	5/16/2013
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>					
Lead	0.0092	0.005		mg/L	5	Prep Date: 5/15/2013 Analyst: JG 5/15/2013
<b>pH (25 °C)</b>	<b>SW9045C</b>					
pH	7.6			pH Units	1	Prep Date: 5/16/2013 Analyst: RW 5/16/2013
<b>Percent Moisture</b>	<b>D2974</b>					
Percent Moisture	10.4	0.2		wt%	1	Prep Date: 5/16/2013 Analyst: RW 5/16/2013

29  
6/3/13

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-304-01(0-6)-050913
<b>Lab Order:</b>	13050358	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	5/9/2013 10:00:00 AM
<b>Lab ID:</b>	13050358-018B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: 5/19/2013	Analyst: JG
Lead	77	4.9		mg/Kg-dry	50	5/19/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-465-01(0-6)-050913
<b>Lab Order:</b>	13050358	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date</b>	5/9/2013 11:30:00 AM
<b>Lab ID:</b>	13050358-019A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>				Prep Date: 5/15/2013	Analyst: <b>LB</b>
Mercury	0.38	0.021		mg/Kg-dry	1	5/15/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: 5/15/2013	Analyst: <b>JG</b>
Antimony	ND	4.7		mg/Kg-dry	20	5/16/2013
Cadmium	1.7	1.2		mg/Kg-dry	20	5/16/2013
Chromium	46	2.3		mg/Kg-dry	20	5/16/2013
Copper	84	5.9		mg/Kg-dry	20	5/16/2013
Lead	370	1.2		mg/Kg-dry	20	5/16/2013
Tin	17	12	*	mg/Kg-dry	20	5/16/2013
Zinc	300	12		mg/Kg-dry	20	5/16/2013
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>				Prep Date: 5/15/2013	Analyst: <b>JG</b>
Lead	0.05	0.005		mg/L	5	5/16/2013
<b>pH (25 °C)</b>	<b>SW9045C</b>				Prep Date: 5/16/2013	Analyst: <b>RW</b>
pH	7.8			pH Units	1	5/16/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: 5/16/2013	Analyst: <b>RW</b>
Percent Moisture	14.6	0.2	*	wt%	1	5/16/2013

**Qualifiers:**

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time.

\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-465-01(0-6)-050913
<b>Lab Order:</b>	13050358	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	5/9/2013 11:30:00 AM
<b>Lab ID:</b>	13050358-019B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: <b>5/19/2013</b>	Analyst: <b>JG</b>
Lead	400	5		mg/Kg-dry	50	5/19/2013

**Qualifiers:**

ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-465-01(0-6)-050913D
<b>Lab Order:</b> 13050358	<b>Tag Number:</b>
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 5/9/2013 11:35:00 AM
<b>Lab ID:</b> 13050358-020A	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>					
Mercury	0.45	0.021		mg/Kg-dry	1	Prep Date: 5/15/2013 Analyst: LB 5/15/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>					
Antimony	ND	4.4		mg/Kg-dry	20	Prep Date: 5/15/2013 Analyst: JG 5/16/2013
Cadmium	1.5	1.1		mg/Kg-dry	20	5/16/2013
Chromium	56	2.2		mg/Kg-dry	20	5/16/2013
Copper	87	5.5		mg/Kg-dry	20	5/16/2013
Lead	340	1.1		mg/Kg-dry	20	5/16/2013
Tin	14	11	*	mg/Kg-dry	20	5/16/2013
Zinc	310	11		mg/Kg-dry	20	5/16/2013
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>					
Lead	0.067	0.005		mg/L	5	Prep Date: 5/15/2013 Analyst: JG 5/16/2013
<b>pH (25 °C)</b>	<b>SW9045C</b>					
pH	7.8			pH Units	1	Prep Date: 5/16/2013 Analyst: RW 5/16/2013
<b>Percent Moisture</b>	<b>D2974</b>					
Percent Moisture	14.6	0.2	*	wt%	1	Prep Date: 5/16/2013 Analyst: RW 5/16/2013

**Qualifiers:**

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B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-465-01(0-6)-050913D
<b>Lab Order:</b>	13050358	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	5/9/2013 11:35:00 AM
<b>Lab ID:</b>	13050358-020B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: 5/19/2013	Analyst: JG
Lead	400	5		mg/Kg-dry	50	5/19/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
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	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded



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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-465-02.03.04(0-12)-050913
<b>Lab Order:</b> 13050358	<b>Tag Number:</b>
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 5/9/2013 11:40:00 AM
<b>Lab ID:</b> 13050358-021A	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>				Prep Date: 5/15/2013	Analyst: LB
Mercury	0.33	0.019		mg/Kg-dry	1	5/15/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: 5/15/2013	Analyst: JG
Antimony	ND	4.7		mg/Kg-dry	20	5/16/2013
Cadmium	1.5	1.2		mg/Kg-dry	20	5/16/2013
Chromium	26	2.3		mg/Kg-dry	20	5/16/2013
Copper	53	5.9		mg/Kg-dry	20	5/16/2013
Lead	350	1.2		mg/Kg-dry	20	5/16/2013
Tin	13	12	*	mg/Kg-dry	20	5/16/2013
Zinc	310	12		mg/Kg-dry	20	5/16/2013
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>				Prep Date: 5/15/2013	Analyst: JG
Lead	0.063	0.005		mg/L	5	5/16/2013
<b>pH (25 °C)</b>	<b>SW9045C</b>				Prep Date: 5/16/2013	Analyst: RW
pH	7.7			pH Units	1	5/16/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: 5/16/2013	Analyst: RW
Percent Moisture	16.4	0.2		wt%	1	5/16/2013

**Qualifiers:**  
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 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-465-02.03.04(0-12)-050913
<b>Lab Order:</b> 13050358	<b>Tag Number:</b> Fine Grained
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 5/9/2013 11:40:00 AM
<b>Lab ID:</b> 13050358-021B	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: <b>5/19/2013</b>	Analyst: <b>JG</b>
Lead	400	4.7		mg/Kg-dry	50	5/19/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-466-01(0-6)-050913
<b>Lab Order:</b> 13050358	<b>Tag Number:</b>
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 5/9/2013 2:15:00 PM
<b>Lab ID:</b> 13050358-022A	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>					
Mercury	0.59	0.021		mg/Kg-dry	1	Prep Date: 5/15/2013 Analyst: LB 5/15/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>					
Antimony	ND	4.5		mg/Kg-dry	20	Prep Date: 5/15/2013 Analyst: JG 5/16/2013
Cadmium	3.4	1.1		mg/Kg-dry	20	5/16/2013
Chromium	23	2.2		mg/Kg-dry	20	5/16/2013
Copper	210	5.6		mg/Kg-dry	20	5/16/2013
Lead	730	1.1		mg/Kg-dry	20	5/16/2013
Tin	25	11	*	mg/Kg-dry	20	5/16/2013
Zinc	900	11		mg/Kg-dry	20	5/16/2013
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>					
Lead	0.04	0.005		mg/L	5	Prep Date: 5/15/2013 Analyst: JG 5/16/2013
<b>pH (25 °C)</b>	<b>SW9045C</b>					
pH	7.8			pH Units	1	Prep Date: 5/16/2013 Analyst: RW 5/16/2013
<b>Percent Moisture</b>	<b>D2974</b>					
Percent Moisture	14.9	0.2	*	wt%	1	Prep Date: 5/16/2013 Analyst: RW 5/16/2013

**Qualifiers:**

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J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

RL - Reporting Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-466-01(0-6)-050913
<b>Lab Order:</b> 13050358	<b>Tag Number:</b> Fine Grained
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 5/9/2013 2:15:00 PM
<b>Lab ID:</b> 13050358-022B	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>In Vitro Extractable Metals by ICP/MS</b>	<b>EPA 9200/6020 (SW3005A)</b>				Prep Date: 5/19/2013	Analyst: JG
Lead	5.6	0.1	*	mg/L	20	5/22/2013
<b>In Vitro Bioaccessibility</b>	<b>EPA 9200/6020</b>				Prep Date: 5/22/2013	Analyst: JG
Lead	63.6	0.01	*	%	1	5/22/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: 5/19/2013	Analyst: JG
Lead	870	4.9		mg/Kg-dry	50	5/19/2013

24  
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 HT - Sample received past holding time  
 \* - Non-accredited parameter

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 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-466-02(0-6)-050913
<b>Lab Order:</b> 13050358	<b>Tag Number:</b>
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 5/9/2013 2:20:00 PM
<b>Lab ID:</b> 13050358-023A	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>		Prep Date: <b>5/15/2013</b>		Analyst: <b>LB</b>	
Mercury	0.52	0.023		mg/Kg-dry	1	5/15/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>		Prep Date: <b>5/15/2013</b>		Analyst: <b>JG</b>	
Antimony	ND	4.3		mg/Kg-dry	20	5/16/2013
Cadmium	2.8	1.1		mg/Kg-dry	20	5/16/2013
Chromium	47	2.2		mg/Kg-dry	20	5/16/2013
Copper	120	5.5		mg/Kg-dry	20	5/16/2013
Lead	650	1.1		mg/Kg-dry	20	5/16/2013
Tin	23	11	*	mg/Kg-dry	20	5/16/2013
Zinc	780	11		mg/Kg-dry	20	5/16/2013
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>		Prep Date: <b>5/15/2013</b>		Analyst: <b>JG</b>	
Lead	0.061	0.005		mg/L	5	5/16/2013
<b>pH (25 °C)</b>	<b>SW9045C</b>		Prep Date: <b>5/16/2013</b>		Analyst: <b>RW</b>	
pH	7.9			pH Units	1	5/16/2013
<b>Percent Moisture</b>	<b>D2974</b>		Prep Date: <b>5/16/2013</b>		Analyst: <b>RW</b>	
Percent Moisture	14.6	0.2		wt%	1	5/16/2013

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R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-466-02(0-6)-050913
<b>Lab Order:</b>	13050358	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	5/9/2013 2:20:00 PM
<b>Lab ID:</b>	13050358-023B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: <b>5/19/2013</b>	Analyst: <b>JG</b>
Lead	750	5		mg/Kg-dry	50	5/19/2013

**Qualifiers:**

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- \* - Non-accredited parameter

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- R - RPD outside accepted recovery limits
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- H - Holding time exceeded

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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-466-03(0-6)-050913
<b>Lab Order:</b>	13050358	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date</b>	5/9/2013 2:25:00 PM
<b>Lab ID:</b>	13050358-024A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>						
Lead	700	1.1		mg/Kg-dry	20	5/16/2013
<b>Percent Moisture</b>						
Percent Moisture	16.3	0.2	*	wt%	1	5/16/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-466-04(0-6)-050913
<b>Lab Order:</b> 13050358	<b>Tag Number:</b>
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 5/9/2013 2:30:00 PM
<b>Lab ID:</b> 13050358-025A	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: 5/15/2013	Analyst: JG
Lead	580	1.1		mg/Kg-dry	20	5/16/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: 5/16/2013	Analyst: RW
Percent Moisture	15.3	0.2	*	wt%	1	5/16/2013

**Qualifiers:**

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- \* - Non-accredited parameter

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- R - RPD outside accepted recovery limits
- E - Value above quantitation range
- H - Holding time exceeded



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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-466-05(0-6)-050913
<b>Lab Order:</b>	13050358	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date</b>	5/8/2013 2:35:00 PM
<b>Lab ID:</b>	13050358-026A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>		Prep Date: <b>5/15/2013</b>		Analyst: <b>LB</b>	
Mercury	2.1	0.12		mg/Kg-dry	5	5/15/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>		Prep Date: <b>5/15/2013</b>		Analyst: <b>JG</b>	
Antimony	ND	5		mg/Kg-dry	20	5/16/2013
Cadmium	8.5	1.2		mg/Kg-dry	20	5/16/2013
Chromium	31	2.5		mg/Kg-dry	20	5/16/2013
Copper	460	6.3		mg/Kg-dry	20	5/16/2013
Lead	2400	1.2		mg/Kg-dry	20	5/16/2013
Tin	58	12	*	mg/Kg-dry	20	5/16/2013
Zinc	2400	12		mg/Kg-dry	20	5/16/2013
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>		Prep Date: <b>5/15/2013</b>		Analyst: <b>JG</b>	
Lead	0.78	0.005		mg/L	5	5/16/2013
<b>pH (25 °C)</b>	<b>SW9045C</b>		Prep Date: <b>5/16/2013</b>		Analyst: <b>RW</b>	
pH	7.1			pH Units	1	5/16/2013
<b>Percent Moisture</b>	<b>D2974</b>		Prep Date: <b>5/16/2013</b>		Analyst: <b>RW</b>	
Percent Moisture	23.6	0.2	*	wt%	1	5/16/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-466-05(0-6)-050913
<b>Lab Order:</b> 13050358	<b>Tag Number:</b> Fine Grained
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 5/8/2013 2:35:00 PM
<b>Lab ID:</b> 13050358-026B	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>						
Lead	3100		5	mg/Kg-dry	50	5/21/2013

SW6020 (SW3050B)

Prep Date: 5/21/2013

Analyst: JG

**Qualifiers:**

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 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-467-01(0-6)-050913
<b>Lab Order:</b>	13050358	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date</b>	5/8/2013 3:00:00 PM
<b>Lab ID:</b>	13050358-027A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>					
Mercury	0.62	0.025		mg/Kg-dry	1	5/15/2013
						Analyst: <b>LB</b>
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>					
Antimony	5.2	4.8		mg/Kg-dry	20	5/16/2013
Cadmium	7	1.2		mg/Kg-dry	20	5/16/2013
Chromium	55	2.5		mg/Kg-dry	20	5/16/2013
Copper	250	6.1		mg/Kg-dry	20	5/16/2013
Lead	1400	1.2		mg/Kg-dry	20	5/16/2013
Tin	34	12	*	mg/Kg-dry	20	5/16/2013
Zinc	1600	12		mg/Kg-dry	20	5/16/2013
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>					
Lead	0.097	0.005		mg/L	5	5/16/2013
						Analyst: <b>JG</b>
<b>pH (25 °C)</b>	<b>SW9045C</b>					
pH	6.7			pH Units	1	5/16/2013
						Analyst: <b>RW</b>
<b>Percent Moisture</b>	<b>D2974</b>					
Percent Moisture	22.5	0.2	*	wt%	1	5/16/2013
						Analyst: <b>RW</b>

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<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

**STAT Analysis Corporation**

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-467-01(0-6)-050913
<b>Lab Order:</b>	13050358	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	5/8/2013 3:00:00 PM
<b>Lab ID:</b>	13050358-027B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: 5/21/2013	Analyst: JG
Lead	1600	5		mg/Kg-dry	50	5/21/2013

**Qualifiers:**

ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-468-01(0-6)-050913
<b>Lab Order:</b> 13050358	<b>Tag Number:</b>
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 5/8/2013 3:30:00 PM
<b>Lab ID:</b> 13050358-028A	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>		Prep Date: <b>5/15/2013</b>		Analyst: <b>LB</b>	
Mercury	0.64	0.025		mg/Kg-dry	1	5/15/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>		Prep Date: <b>5/15/2013</b>		Analyst: <b>JG</b>	
Antimony	5.2 J	5.2		mg/Kg-dry	20	5/16/2013
Cadmium	5.9	1.3		mg/Kg-dry	20	5/16/2013
Chromium	36	2.5		mg/Kg-dry	20	5/16/2013
Copper	290	6.5		mg/Kg-dry	20	5/16/2013
Lead	1300	1.3		mg/Kg-dry	20	5/16/2013
Tin	30	13	*	mg/Kg-dry	20	5/16/2013
Zinc	1600	13		mg/Kg-dry	20	5/16/2013
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>		Prep Date: <b>5/15/2013</b>		Analyst: <b>JG</b>	
Lead	0.066	0.005		mg/L	5	5/16/2013
<b>pH (25 °C)</b>	<b>SW9045C</b>		Prep Date: <b>5/16/2013</b>		Analyst: <b>RW</b>	
pH	7.1			pH Units	1	5/16/2013
<b>Percent Moisture</b>	<b>D2974</b>		Prep Date: <b>5/16/2013</b>		Analyst: <b>RW</b>	
Percent Moisture	25.0	0.2	*	wt%	1	5/16/2013

29  
6/3/13

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-468-01(0-6)-050913
<b>Lab Order:</b> 13050358	<b>Tag Number:</b> Fine Grained
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 5/8/2013 3:30:00 PM
<b>Lab ID:</b> 13050358-028B	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: <b>5/20/2013</b>	Analyst: <b>JG</b>
Lead	960	2.5		mg/Kg-dry	50	5/20/2013

**Qualifiers:**

ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

**PILSEN AREA SOIL SITE  
CHICAGO, ILLINOIS  
DATA VALIDATION REPORT**

**Date:** May 28, 2013

**Laboratory:** STAT Analysis Corporation (STAT), Chicago, Illinois

**Laboratory Project #:** 13050411

**Data Validation Performed By:** Lisa Graczyk, Weston Solutions, Inc. (WESTON®) Superfund Technical Assessment and Response Team (START)

**Analytical TDD and Work Order #:** S05-0001-1211-003/20405.016.001.2038.00

This data validation report has been prepared by WESTON START under the START III Region V contract. This report documents the data validation for 7 soil samples collected for the Pilsen Area Soil Site that were analyzed for the following parameters and U.S. Environmental Protection Agency methods:

- Total Metals by SW-846 Methods 6020 and 7471A
- Fine Grained Lead by SW-846 Method 6020
- Bioavailability Lead by EPA Method 9200 and SW-846 Method 6020
- Toxicity Characteristic Leaching Procedure (TCLP) Lead by SW-846 Methods 1311 and 6020
- pH by SW-846 Method 9045C
- Moisture Content by ASTM D2974

A level II data package was requested from STAT. The data validation was conducted in general accordance with the EPA "Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review" dated January 2010. The Attachment contains the results summary sheets with the hand-written qualifiers applied during data validation.

**TOTAL METALS AND FINE GRAINED LEAD BY EPA SW-846 METHODS 6020 AND 7471A  
AND BIOAVAILABLE LEAD BY EPA METHOD 9200 AND SW-846 METHOD 6020**

**1. Samples**

Attachment A summarizes the samples for which this data validation is being conducted. It includes but the laboratory sample identification, the WESTON START sample identification, and the date and time of sample collection.

**2. Holding Times**

The samples were analyzed within the required holding time limit of 28 days for mercury and 180 days from sample collection to analysis for all other metals.

### 3. **Blank Results**

Method blanks were analyzed with the metals analyses. The blanks contained some minor contamination. In most instances, the sample results were much greater or contained no detections of these metals and no qualifications were required. The exception is tin which was detected above the reporting limit at 2.9 milligrams per kilogram. All tin results were at less than ten times the blank result and were flagged “U” as not detected.

### 4. **Laboratory Control Sample (LCS) Results**

The LCS recoveries were within the quality control (QC) limits except for as follows.

In one LCS, antimony and tin were detected high. Because antimony was not detected in the samples, no qualifications were required. The tin results were flagged “J” as estimated.

### 5. **Matrix Spike (MS) and MS Duplicate (MSD) Results**

STAT analyzed several site-specific MS/MSDs. The percent recoveries and relative percent differences (RPD) were within QC limits except for as follows.

In many instances of QC limits not being met, the sample concentration was more than four times the spike amount. In these instances, no qualifications were required.

In the MS and MSD of sample PA-469-02(0-6)-051013, the antimony and tin recoveries were high. Detected results for antimony and tin were flagged “J” as estimated.

In the MS and MSD of sample PA-469-05(0-6)-051013, the antimony and copper were detected low. In this sample, detected results were flagged “J” and the quantitation limit for non-detected results were flagged “UJ” as estimated.

### 6. **Field Duplicate Results**

There are two field duplicate samples associated with this work order that are identified by a “D” suffix in the sample name.

The field duplicate results were evaluated by calculating the RPDs between the investigative and field duplicate sample results. There is no established QC limit for RPD for field duplicates; however, 50 RPD is generally used for evaluation. The RPDs for detected metals were generally below 50 which is acceptable. The chromium RPD in one field duplicate was 57 percent; however, the difference between the two chromium results was minor and no qualifications were deemed necessary.



7. **Overall Assessment**

The metals data are acceptable for use as qualified based on the information received.

**TCLP METALS BY EPA SW-846 METHODS 1311 AND 6020**

1. **Samples**

Attachment A summarizes the samples for which this data validation is being conducted. It includes but the laboratory sample identification, the WESTON START sample identification, and the date and time of sample collection.

2. **Holding Times**

The samples were analyzed within the required holding time limit of 180 days from sample collection.

3. **Blank Results**

Method blanks were analyzed with the metals analyses. Some of the blanks contained some minor lead contamination. In one method blank, TCLP lead was detected below the reporting limit at 0.006 milligrams per liter. Most of the TCLP lead results were detected at less than 5 times this blank amount and were flagged "U" as not detected.

4. **LCS Results**

The LCS recoveries were within the QC limits.

5. **MS and MSD Results**

STAT analyzed a few site-specific MS/MSD samples. The percent recoveries and RPDs were within QC limits.

6. **Field Duplicate Results**

There are two field duplicate samples associated with this work order that are identified by a "D" suffix in the sample name.

The field duplicate results were evaluated by calculating the RPDs between the investigative and field duplicate sample results. The RPDs were below 50 which is acceptable.

7. **Overall Assessment**

The TCLP lead data are acceptable for use as qualified based on the information received.

**GENERAL CHEMISTRY PARAMETERS (pH by SW-846 Method 9045C and Moisture Content by ASTM D2974)**

1. **Samples**

Attachment A summarizes the samples for which this data validation is being conducted. It includes but the laboratory sample identification, the WESTON START sample identification, and the date and time of sample collection.

2. **Holding Times**

The holding time for pH is “as soon as possible” and the holding time for moisture is 28 days. The holding time for moisture was met. For pH, the samples were analyzed approximately 7 days from sample collection. No qualifications were applied.

3. **Blank Results**

Method blanks were analyzed with the moisture analyses and were all non-detect for moisture which is acceptable.

4. **LCS Results**

LCSs were analyzed with the moisture analyses. The LCS recoveries were within the QC limits except for one which was slightly below the QC limit. No qualification was applied for the minor discrepancy.

5. **Laboratory Duplicates**

Laboratory duplicates were analyzed with the pH and moisture analyses. The RPDs were within QC limits.

6. **Field Duplicate Results**

There are two field duplicate samples associated with this work order that are identified by a “D” suffix in the sample name.

The field duplicate results were evaluated by calculating the RPDs between the investigative and field duplicate sample results. The RPDs were below 50 which is acceptable.

Data Validation Report  
Pilsen Area Soil Site  
STAT Analysis Corporation  
Laboratory Project #: 13050411

7. **Overall Assessment**

The pH and moisture data are acceptable for use as qualified based on the information received.

Data Validation Report  
Pilsen Area Soil Site  
STAT Analysis Corporation  
Laboratory Project #: 13050411

**ATTACHMENT A**

**SAMPLE LIST**

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**Client:** Weston Solutions  
**Project:** Pilsen Soil Site, Pilsen, Chicago, IL  
**Lab Order:** 13050411

**Work Order Sample Summary**

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<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Tag Number</b>	<b>Collection Date</b>	<b>Date Received</b>
13050411-001A	PA-469-01(0-6)-051013		5/10/2013 11:30:00 AM	5/10/2013
13050411-001B	PA-469-01(0-6)-051013	Fine Grained	5/10/2013 11:30:00 AM	5/10/2013
13050411-002A	PA-469-01(0-6)-051013D		5/10/2013 11:35:00 AM	5/10/2013
13050411-002B	PA-469-01(0-6)-051013D	Fine Grained	5/10/2013 11:35:00 AM	5/10/2013
13050411-003A	PA-469-02(0-6)-051013		5/10/2013 11:55:00 AM	5/10/2013
13050411-003B	PA-469-02(0-6)-051013	Fine Grained	5/10/2013 11:55:00 AM	5/10/2013
13050411-004A	PA-469-03(0-6)-051013		5/10/2013 12:30:00 PM	5/10/2013
13050411-004B	PA-469-03(0-6)-051013	Fine Grained	5/10/2013 12:30:00 PM	5/10/2013
13050411-005A	PA-469-04(0-6)-051013		5/10/2013 12:50:00 PM	5/10/2013
13050411-005B	PA-469-04(0-6)-051013	Fine Grained	5/10/2013 12:50:00 PM	5/10/2013
13050411-006A	PA-469-04(0-6)-051013D		5/10/2013 12:55:00 PM	5/10/2013
13050411-006B	PA-469-04(0-6)-051013D	Fine Grained	5/10/2013 12:55:00 PM	5/10/2013
13050411-007A	PA-469-05(0-6)-051013		5/10/2013 1:10:00 PM	5/10/2013
13050411-007B	PA-469-05(0-6)-051013	Fine Grained	5/10/2013 1:10:00 PM	5/10/2013

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Data Validation Report  
Pilsen Area Soil Site  
STAT Analysis Corporation  
Laboratory Project #: 13050411

**ATTACHMENT B**

**STAT ANALYSIS CORPORATION  
RESULTS SUMMARY WITH QUALIFIERS**

**STAT Analysis Corporation**

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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-469-01(0-6)-051013
<b>Lab Order:</b>	13050411	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date</b>	5/10/2013 11:30:00 AM
<b>Lab ID:</b>	13050411-001A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>		Prep Date: <b>5/13/2013</b>		Analyst: <b>LB</b>	
Mercury	0.67	0.021		mg/Kg-dry	1	5/13/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>		Prep Date: <b>5/16/2013</b>		Analyst: <b>JG</b>	
Antimony	ND	4.5		mg/Kg-dry	20	5/16/2013
Cadmium	ND	1.1		mg/Kg-dry	20	5/16/2013
Chromium	35	2.3		mg/Kg-dry	20	5/16/2013
Copper	56	5.6		mg/Kg-dry	20	5/16/2013
Lead	130	1.1		mg/Kg-dry	20	5/16/2013
Tin	14 <i>WJ</i>	11	*	mg/Kg-dry	20	5/16/2013
Zinc	180	11		mg/Kg-dry	20	5/16/2013
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>		Prep Date: <b>5/16/2013</b>		Analyst: <b>JG</b>	
Lead	0.019 <i>U</i>	0.0075		mg/L	5	5/17/2013
<b>pH (25 °C)</b>	<b>SW9045C</b>		Prep Date: <b>5/17/2013</b>		Analyst: <b>PBG</b>	
pH	7.8			pH Units	1	5/17/2013
<b>Percent Moisture</b>	<b>D2974</b>		Prep Date: <b>5/16/2013</b>		Analyst: <b>RW</b>	
Percent Moisture	17.8	0.2	*	wt%	1	5/16/2013

*WJ*  
5/28/13

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-469-01(0-6)-051013
<b>Lab Order:</b>	13050411	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	5/10/2013 11:30:00 AM
<b>Lab ID:</b>	13050411-001B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: <b>5/19/2013</b>	Analyst: <b>JG</b>
Lead	160	7.8		mg/Kg-dry	50	5/19/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded



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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-469-01(0-6)-051013D
<b>Lab Order:</b>	13050411	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date</b>	5/10/2013 11:35:00 AM
<b>Lab ID:</b>	13050411-002A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>					Prep Date: 5/13/2013 Analyst: LB
Mercury	0.49	0.022		mg/Kg-dry	1	5/13/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>					Prep Date: 5/16/2013 Analyst: JG
Antimony	ND	4.8		mg/Kg-dry	20	5/16/2013
Cadmium	ND	1.2		mg/Kg-dry	20	5/16/2013
Chromium	23	2.3		mg/Kg-dry	20	5/16/2013
Copper	49	6		mg/Kg-dry	20	5/16/2013
Lead	120	1.2		mg/Kg-dry	20	5/16/2013
Tin	13 <i>UJ</i>	12	*	mg/Kg-dry	20	5/16/2013
Zinc	170	12		mg/Kg-dry	20	5/16/2013
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>					Prep Date: 5/16/2013 Analyst: JG
Lead	0.016 <i>U</i>	0.0075		mg/L	5	5/17/2013
<b>pH (25 °C)</b>	<b>SW9045C</b>					Prep Date: 5/17/2013 Analyst: PBG
pH	7.7			pH Units	1	5/17/2013
<b>Percent Moisture</b>	<b>D2974</b>					Prep Date: 5/16/2013 Analyst: RW
Percent Moisture	17.9	0.2		wt%	1	5/16/2013

*28*  
*5/28/13*

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-469-01(0-6)-051013D
<b>Lab Order:</b>	13050411	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	5/10/2013 11:35:00 AM
<b>Lab ID:</b>	13050411-002B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: 5/19/2013	Analyst: JG
Lead	150	5		mg/Kg-dry	50	5/19/2013

**Qualifiers:**

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-469-02(0-6)-051013
<b>Lab Order:</b> 13050411	<b>Tag Number:</b>
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 5/10/2013 11:55:00 AM
<b>Lab ID:</b> 13050411-003A	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>					Prep Date: 5/13/2013 Analyst: LB
Mercury	0.25	0.025		mg/Kg-dry	1	5/13/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>					Prep Date: 5/16/2013 Analyst: JG
Antimony	ND	4.6		mg/Kg-dry	20	5/17/2013
Cadmium	ND	1.1		mg/Kg-dry	20	5/16/2013
Chromium	17	2.2		mg/Kg-dry	20	5/16/2013
Copper	44	5.7		mg/Kg-dry	20	5/16/2013
Lead	100	1.1		mg/Kg-dry	20	5/17/2013
Tin	13	11	*	mg/Kg-dry	20	5/16/2013
Zinc	170	11		mg/Kg-dry	20	5/16/2013
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>					Prep Date: 5/16/2013 Analyst: JG
Lead	0.012	0.0075		mg/L	5	5/17/2013
<b>pH (25 °C)</b>	<b>SW9045C</b>					Prep Date: 5/17/2013 Analyst: PBG
pH	7.8			pH Units	1	5/17/2013
<b>Percent Moisture</b>	<b>D2974</b>					Prep Date: 5/16/2013 Analyst: RW
Percent Moisture	19.6	0.2	*	wt%	1	5/16/2013

24  
5/28/13

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-469-02(0-6)-051013
<b>Lab Order:</b>	13050411	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	5/10/2013 11:55:00 AM
<b>Lab ID:</b>	13050411-003B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: 5/19/2013	Analyst: JG
Lead	170	5		mg/Kg-dry	50	5/19/2013

**Qualifiers:**

ND - Not Detected at the Reporting Limit  
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 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-469-03(0-6)-051013
<b>Lab Order:</b> 13050411	<b>Tag Number:</b>
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 5/10/2013 12:30:00 PM
<b>Lab ID:</b> 13050411-004A	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>					
Mercury	0.2	0.022		mg/Kg-dry	1	5/13/2013
						Analyst: <b>LB</b>
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>					
Antimony	ND	4.9		mg/Kg-dry	20	5/16/2013
Cadmium	ND	1.2		mg/Kg-dry	20	5/16/2013
Chromium	19	2.5		mg/Kg-dry	20	5/16/2013
Copper	50	6.2		mg/Kg-dry	20	5/16/2013
Lead	120	1.2		mg/Kg-dry	20	5/16/2013
Tin	17	12	*	mg/Kg-dry	20	5/16/2013
Zinc	160	12		mg/Kg-dry	20	5/16/2013
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>					
Lead	0.012	0.005		mg/L	5	5/17/2013
						Analyst: <b>JG</b>
<b>pH (25 °C)</b>	<b>SW9045C</b>					
pH	7.5			pH Units	1	5/17/2013
						Analyst: <b>PBG</b>
<b>Percent Moisture</b>	<b>D2974</b>					
Percent Moisture	21.2	0.2	*	wt%	1	5/16/2013
						Analyst: <b>RW</b>

24  
5/28/13

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-469-03(0-6)-051013
<b>Lab Order:</b>	13050411	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date</b>	5/10/2013 12:30:00 PM
<b>Lab ID:</b>	13050411-004B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: 5/19/2013	Analyst: JG
Lead	180	5		mg/Kg-dry	50	5/19/2013

**Qualifiers:**

ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-469-04(0-6)-051013
<b>Lab Order:</b> 13050411	<b>Tag Number:</b>
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 5/10/2013 12:50:00 PM
<b>Lab ID:</b> 13050411-005A	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>					Prep Date: 5/13/2013 Analyst: LB
Mercury	0.17	0.023		mg/Kg-dry	1	5/13/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>					Prep Date: 5/16/2013 Analyst: JG
Antimony	ND	4.8		mg/Kg-dry	20	5/16/2013
Cadmium	ND	1.2		mg/Kg-dry	20	5/16/2013
Chromium	34	2.5		mg/Kg-dry	20	5/16/2013
Copper	59	6.1		mg/Kg-dry	20	5/16/2013
Lead	110	1.2		mg/Kg-dry	20	5/16/2013
Tin	12 <i>UJ</i>	12	*	mg/Kg-dry	20	5/16/2013
Zinc	190	12		mg/Kg-dry	20	5/16/2013
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>					Prep Date: 5/16/2013 Analyst: JG
Lead	0.0082 <i>J</i>	0.005		mg/L	5	5/17/2013
<b>pH (25 °C)</b>	<b>SW9045C</b>					Prep Date: 5/17/2013 Analyst: PBG
pH	7.6			pH Units	1	5/17/2013
<b>Percent Moisture</b>	<b>D2974</b>					Prep Date: 5/16/2013 Analyst: RW
Percent Moisture	23.2	0.2	*	wt%	1	5/16/2013

*24*  
*5/28/13*

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-469-04(0-6)-051013
<b>Lab Order:</b>	13050411	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date</b>	5/10/2013 12:50:00 PM
<b>Lab ID:</b>	13050411-005B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: 5/19/2013	Analyst: JG
Lead	120	5		mg/Kg-dry	50	5/19/2013

**Qualifiers:**

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 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded



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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-469-04(0-6)-051013D
<b>Lab Order:</b>	13050411	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date</b>	5/10/2013 12:55:00 PM
<b>Lab ID:</b>	13050411-006A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>					
Mercury	0.13	0.024		mg/Kg-dry	1	Prep Date: 5/14/2013 Analyst: LB 5/14/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>					
Antimony	ND	5.1		mg/Kg-dry	20	Prep Date: 5/16/2013 Analyst: JG 5/16/2013
Cadmium	ND	1.3		mg/Kg-dry	20	5/16/2013
Chromium	19	2.6		mg/Kg-dry	20	5/16/2013
Copper	41	6.4		mg/Kg-dry	20	5/16/2013
Lead	80	1.3		mg/Kg-dry	20	5/16/2013
Tin	ND	13	*	mg/Kg-dry	20	5/16/2013
Zinc	150	13		mg/Kg-dry	20	5/16/2013
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>					
Lead	0.0095	0.005		mg/L	5	Prep Date: 5/16/2013 Analyst: JG 5/17/2013
<b>pH (25 °C)</b>	<b>SW9045C</b>					
pH	7.6			pH Units	1	Prep Date: 5/17/2013 Analyst: PBG 5/17/2013
<b>Percent Moisture</b>	<b>D2974</b>					
Percent Moisture	21.7	0.2	*	wt%	1	Prep Date: 5/16/2013 Analyst: RW 5/16/2013

**Qualifiers:**

ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-469-04(0-6)-051013D
<b>Lab Order:</b>	13050411	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date</b>	5/10/2013 12:55:00 PM
<b>Lab ID:</b>	13050411-006B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: <b>5/19/2013</b>	Analyst: <b>JG</b>
Lead	110	4.9		mg/Kg-dry	50	5/19/2013

**Qualifiers:**

ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-469-05(0-6)-051013
<b>Lab Order:</b> 13050411	<b>Tag Number:</b>
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 5/10/2013 1:10:00 PM
<b>Lab ID:</b> 13050411-007A	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>					Prep Date: 5/14/2013 Analyst: <b>LB</b>
Mercury	0.28	0.024		mg/Kg-dry	1	5/14/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>					Prep Date: 5/16/2013 Analyst: <b>JG</b>
Antimony	ND <i>JS</i>	5.1		mg/Kg-dry	20	5/17/2013
Cadmium	ND	1.3		mg/Kg-dry	20	5/17/2013
Chromium	12	2.5		mg/Kg-dry	20	5/17/2013
Copper	94 <i>J</i>	6.4		mg/Kg-dry	20	5/17/2013
Lead	340	1.3		mg/Kg-dry	20	5/17/2013
Tin	22 <i>JS</i>	13	*	mg/Kg-dry	20	5/17/2013
Zinc	360	13		mg/Kg-dry	20	5/17/2013
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020 (SW3005A)</b>					Prep Date: 5/16/2013 Analyst: <b>JG</b>
Lead	0.57	0.005		mg/L	5	5/17/2013
<b>pH (25 °C)</b>	<b>SW9045C</b>					Prep Date: 5/17/2013 Analyst: <b>PBG</b>
pH	8.0			pH Units	1	5/17/2013
<b>Percent Moisture</b>	<b>D2974</b>					Prep Date: 5/16/2013 Analyst: <b>RW</b>
Percent Moisture	26.4	0.2	*	wt%	1	5/16/2013

*2J*  
*5/28/13*

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

**STAT Analysis Corporation**

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: May 23, 2013

Print Date: May 23, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-469-05(0-6)-051013
<b>Lab Order:</b> 13050411	<b>Tag Number:</b> Fine Grained
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 5/10/2013 1:10:00 PM
<b>Lab ID:</b> 13050411-007B	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>In Vitro Extractable Metals by ICP/MS</b>	<b>EPA 9200/6020 (SW3005A)</b>				Prep Date: 5/19/2013	Analyst: JG
Lead	1.8	0.1	*	mg/L	20	5/22/2013
<b>In Vitro Bioaccessibility</b>	<b>EPA 9200/6020</b>				Prep Date: 5/22/2013	Analyst: JG
Lead	54.3	0.01	*	%	1	5/22/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: 5/19/2013	Analyst: JG
Lead	330	5		mg/Kg-dry	50	5/19/2013

**Qualifiers:**

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

**PILSEN AREA SOIL SITE  
CHICAGO, ILLINOIS  
DATA VALIDATION REPORT**

**Date:** July 31, 2013

**Laboratory:** STAT Analysis Corporation (STAT), Chicago, Illinois

**Laboratory Project #:** 13070526

**Data Validation Performed By:** Lisa Graczyk, Weston Solutions, Inc. (WESTON<sup>®</sup>) Superfund Technical Assessment and Response Team (START)

**Analytical TDD and Work Order #:** S05-0001-1211-003/20405.016.001.2038.00

This data validation report has been prepared by WESTON START under the START III Region V contract. This report documents the data validation for 5 solid samples collected for the Pilsen Area Soil Site. The samples are source samples from a baghouse and have been held under custody by NEIC/USGS/EPA since collection in Colorado. The chain-of-custody for the samples state that the samples are less than 75 microns in particle size. The samples were analyzed for the following parameters and U.S. Environmental Protection Agency methods:

- Total Metals by SW-846 Methods 6020 and 7471A
- Moisture Content by ASTM D2974

A level II data package was requested from STAT. The data validation was conducted in general accordance with the EPA “Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review” dated January 2010. The Attachment contains the results summary sheets with the hand-written qualifiers applied during data validation.

## TOTAL METALS BY EPA SW-846 METHODS 6020 AND 7471A

### 1. Samples

The following table summarizes the samples for which this data validation is being conducted.

<b>Samples</b>	<b>Lab ID</b>	<b>Matrix</b>	<b>Date Collected</b>	<b>Date Analyzed</b>
BH-1 N105006-05 Split B	13070526-001	Solid	Unknown	7/17/2013
BH-2 N105006-06 Split B	13070526-002	Solid	Unknown	7/17/2013
BH-4 N105006-08 Split B	13070526-003	Solid	Unknown	7/17/2013
BH-4 N105006-09 Split B	13070526-004	Solid	Unknown	7/17/2013
BH-5 N105006-07 Split B	13070526-005	Solid	Unknown	7/17/2013

### 2. Holding Times

The collection dates of the samples are unknown. However, the holding times for metals are 28 days for mercury and 180 days from sample collection to analysis for all other metals. Due to the long holding times for these analyses, it is assumed that they were likely not exceeded and no qualifications are necessary.

### 3. Blank Results

Method blanks were analyzed with the metals analyses. The blanks contained no metals contamination above the reporting limits. There were detections of lead, tin, and mercury below the reporting limits in the blanks. However, the sample results were much greater or contained no detections of these metals. No qualifications were required.

### 4. Laboratory Control Sample (LCS) Results

The LCS recoveries were within the quality control (QC) limits.

### 5. Matrix Spike (MS) and MS Duplicate (MSD) Results

STAT did not analyze a site-specific MS/MSD. Therefore matrix interferences could not be evaluated. No qualifications were applied.

### 6. Overall Assessment

The metals data are acceptable for use as qualified based on the information received.

## GENERAL CHEMISTRY PARAMETERS (Moisture Content by ASTM D2974)

### 1. Samples

The following table summarizes the samples for which this data validation is being conducted.

<b>Samples</b>	<b>Lab ID</b>	<b>Matrix</b>	<b>Date Collected</b>	<b>Date Analyzed</b>
BH-1 N105006-05 Split B	13070526-001	Solid	Unknown	7/15/2013
BH-2 N105006-06 Split B	13070526-002	Solid	Unknown	7/15/2013
BH-4 N105006-08 Split B	13070526-003	Solid	Unknown	7/15/2013
BH-4 N105006-09 Split B	13070526-004	Solid	Unknown	7/15/2013
BH-5 N105006-07 Split B	13070526-005	Solid	Unknown	7/15/2013

### 2. Holding Times

The holding time for moisture is 28 days. The collection dates of the samples are unknown. Due to the long holding time for this analysis, it is assumed that they were likely not exceeded and no qualifications are necessary.

### 3. Blank Results

The method blank was non-detect for moisture which is acceptable.

### 4. LCS Results

The LCS recoveries were within the QC limits.

### 5. Laboratory Duplicates

The RPD was within QC limits for the laboratory duplicate.

### 6. Overall Assessment

The moisture data are acceptable for use based on the information received.

Data Validation Report  
Pilsen Area Soil Site  
STAT Analysis Corporation  
Laboratory Project #: 13070526

**ATTACHMENT**

**STAT ANALYSIS CORPORATION  
RESULTS SUMMARY WITH QUALIFIERS**



**STAT** Analysis Corporation

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Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

July 24, 2013

Weston Solutions  
750 E. Bunker Court  
Suite 500  
Vernon Hills, IL 60061  
Telephone: (847) 918-4094  
Fax: (847) 918-4055

RE: VP1049, Pilsen Superfund

STAT Project No 13070526

Dear Tonya Balla:

STAT Analysis received 5 samples for the referenced project on 7/10/2013 9:37:00 AM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Thomas M. Bauer

General Manager

*The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This analytical report shall become property of the Customer upon payment in full. Otherwise, STAT will be under no obligation to support, defend or discuss the analytical report.*

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**Client:** Weston Solutions  
**Project:** VP1049, Pilsen Superfund  
**Lab Order:** 13070526

**Work Order Sample Summary**

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<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Tag Number</b>	<b>Collection Date</b>	<b>Date Received</b>
13070526-001A	BH-1 N105006-05	Split B		7/10/2013
13070526-002A	BH-2 N105006-06	Split B		7/10/2013
13070526-003A	BH-3 N105006-08	Split B		7/10/2013
13070526-004A	BH-4 N105006-09	Split B		7/10/2013
13070526-005A	BH-5 N105006-07	Split B		7/10/2013

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: July 24, 2013

Print Date: July 24, 2013

Client: Weston Solutions  
 Lab Order: 13070526  
 Project: VP1049, Pilsen Superfund  
 Lab ID: 13070526-001A

Client Sample ID: BH-1 N105006-05 Split B  
 Tag Number:  
 Collection Date  
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>				Prep Date: <b>7/17/2013</b>	Analyst: <b>LB</b>
Mercury	2.6	0.16		mg/Kg-dry	10	7/17/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>7/16/2013</b>	Analyst: <b>JG</b>
Antimony	75	36		mg/Kg-dry	100	7/17/2013
Cadmium	1500	8.9		mg/Kg-dry	100	7/17/2013
Chromium	44	18		mg/Kg-dry	100	7/17/2013
Copper	12000	45		mg/Kg-dry	100	7/17/2013
Lead	51000	890		mg/Kg-dry	10000	7/17/2013
Tin	5800	89	*	mg/Kg-dry	100	7/17/2013
Zinc	600000	8900		mg/Kg-dry	10000	7/17/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: <b>7/15/2013</b>	Analyst: <b>SDA</b>
Percent Moisture	0.3	0.2	*	wt%	1	7/15/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: July 24, 2013

Print Date: July 24, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	BH-2 N105006-06 Split B
<b>Lab Order:</b>	13070526	<b>Tag Number:</b>	
<b>Project:</b>	VP1049, Pilsen Superfund	<b>Collection Date:</b>	
<b>Lab ID:</b>	13070526-002A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>				Prep Date: <b>7/17/2013</b>	Analyst: <b>LB</b>
Mercury	0.52	0.018		mg/Kg-dry	1	7/17/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>7/16/2013</b>	Analyst: <b>JG</b>
Antimony	68	39		mg/Kg-dry	100	7/17/2013
Cadmium	1100	9.7		mg/Kg-dry	100	7/17/2013
Chromium	90	19		mg/Kg-dry	100	7/17/2013
Copper	12000	48		mg/Kg-dry	100	7/17/2013
Lead	42000	970		mg/Kg-dry	10000	7/17/2013
Tin	11000	97	*	mg/Kg-dry	100	7/17/2013
Zinc	550000	9700		mg/Kg-dry	10000	7/17/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: <b>7/15/2013</b>	Analyst: <b>SDA</b>
Percent Moisture	0.3	0.2	*	wt%	1	7/15/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
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	HT - Sample received past holding time	E - Value above quantitation range
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Report Date: July 24, 2013

Print Date: July 24, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	BH-3 N105006-08 Split B
<b>Lab Order:</b>	13070526	<b>Tag Number:</b>	
<b>Project:</b>	VP1049, Pilsen Superfund	<b>Collection Date:</b>	
<b>Lab ID:</b>	13070526-003A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>				Prep Date: <b>7/17/2013</b>	Analyst: <b>LB</b>
Mercury	3.2	0.21		mg/Kg-dry	10	7/17/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>7/16/2013</b>	Analyst: <b>JG</b>
Antimony	180	40		mg/Kg-dry	100	7/17/2013
Cadmium	510	9.9		mg/Kg-dry	100	7/17/2013
Chromium	92	20		mg/Kg-dry	100	7/17/2013
Copper	62000	5000		mg/Kg-dry	10000	7/17/2013
Lead	12000	990		mg/Kg-dry	10000	7/17/2013
Tin	5800	99	*	mg/Kg-dry	100	7/17/2013
Zinc	400000	9900		mg/Kg-dry	10000	7/17/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: <b>7/15/2013</b>	Analyst: <b>SDA</b>
Percent Moisture	0.9	0.2	*	wt%	1	7/15/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
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	* - Non-accredited parameter	H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: July 24, 2013

Print Date: July 24, 2013

Client: Weston Solutions  
 Lab Order: 13070526  
 Project: VP1049, Pilsen Superfund  
 Lab ID: 13070526-004A

Client Sample ID: BH-4 N105006-09 Split B  
 Tag Number:  
 Collection Date  
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>				Prep Date: <b>7/17/2013</b>	Analyst: <b>LB</b>
Mercury	1.8	0.18		mg/Kg-dry	10	7/17/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>7/16/2013</b>	Analyst: <b>JG</b>
Antimony	140	39		mg/Kg-dry	100	7/17/2013
Cadmium	500	9.7		mg/Kg-dry	100	7/17/2013
Chromium	71	19		mg/Kg-dry	100	7/17/2013
Copper	61000	4800		mg/Kg-dry	10000	7/17/2013
Lead	13000	970		mg/Kg-dry	10000	7/17/2013
Tin	5100	97	*	mg/Kg-dry	100	7/17/2013
Zinc	480000	9700		mg/Kg-dry	10000	7/17/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: <b>7/15/2013</b>	Analyst: <b>SDA</b>
Percent Moisture	0.9	0.2	*	wt%	1	7/15/2013

**Qualifiers:** ND - Not Detected at the Reporting Limit  
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 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: July 24, 2013

Print Date: July 24, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> BH-5 N105006-07 Split B
<b>Lab Order:</b> 13070526	<b>Tag Number:</b>
<b>Project:</b> VP1049, Pilsen Superfund	<b>Collection Date:</b>
<b>Lab ID:</b> 13070526-005A	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>				Prep Date: <b>7/17/2013</b>	Analyst: <b>LB</b>
Mercury	5.2	0.17		mg/Kg-dry	10	7/17/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>7/16/2013</b>	Analyst: <b>JG</b>
Antimony	49	35		mg/Kg-dry	100	7/17/2013
Cadmium	700	8.8		mg/Kg-dry	100	7/17/2013
Chromium	ND	18		mg/Kg-dry	100	7/17/2013
Copper	ND	4400		mg/Kg-dry	10000	7/17/2013
Lead	34000	880		mg/Kg-dry	10000	7/17/2013
Tin	6300	88	*	mg/Kg-dry	100	7/17/2013
Zinc	650000	8800		mg/Kg-dry	10000	7/17/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: <b>7/15/2013</b>	Analyst: <b>SDA</b>
Percent Moisture	0.3	0.2	*	wt%	1	7/15/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
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	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded





Sample Receipt Checklist

Client Name EPA

Date and Time Received: 7/10/2013 9:37:00 AM

Work Order Number 13070526

Received by: TJW

Checklist completed by: T. W. [Signature] 7/11/13  
Signature Date

Reviewed by: [Signature] 7/11/13  
Signature Date

Matrix: Carrier name FedEx

- Shipping container/cooler in good condition? Yes  No  Not Present
- Custody seals intact on shipping container/cooler? Yes  No  Not Present
- Custody seals intact on sample bottles? Yes  No  Not Present
- Chain of custody present? Yes  No
- Chain of custody signed when relinquished and received? Yes  No
- Chain of custody agrees with sample labels/containers? Yes  No
- Samples in proper container/bottle? Yes  No
- Sample containers intact? Yes  No
- Sufficient sample volume for indicated test? Yes  No
- All samples received within holding time? Yes  No
- Container or Temp Blank temperature in compliance? Yes  No  Temperature Ambient °C
- Water - VOA vials have zero headspace? Yes  No  No VOA vials submitted  Yes  No
- Water - Samples pH checked? Yes  No  Checked by: \_\_\_\_\_
- Water - Samples properly preserved? Yes  No  pH Adjusted? \_\_\_\_\_

Any No response must be detailed in the comments section below.

\_\_\_\_\_

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Client / Person contacted: \_\_\_\_\_ Date contacted: \_\_\_\_\_ Contacted by: \_\_\_\_\_

Response: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Prep Start Date: 7/16/2013 9:50:24 A  
 Prep End Date: 7/16/2013 1:05:00 P

Prep Factor Units:  
 mL / g

Prep Batch 70581 Prep Code: M\_S\_PREP Technician: VA

Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
IMBS2 7/16/13			1	0	0	50	50.000	7/16/2013	7/16/2013
ILCSS2 7/16/13			1	0	0	50	50.000	7/16/2013	7/16/2013
13070622-022A	Soil		1.075	0	0	50	46.512	7/16/2013	7/16/2013
13070622-023A	Soil		1.071	0	0	50	46.685	7/16/2013	7/16/2013
13070622-024A	Soil		1.108	0	0	50	45.126	7/16/2013	7/16/2013
13070622-025A	Soil		1.185	0	0	50	42.194	7/16/2013	7/16/2013
13070622-026A	Soil		1.024	0	0	50	48.828	7/16/2013	7/16/2013
13070622-027A	Soil		1.012	0	0	50	49.407	7/16/2013	7/16/2013
13070622-028A	Soil		1.093	0	0	50	45.746	7/16/2013	7/16/2013
13070622-029A	Soil		1.063	0	0	50	47.037	7/16/2013	7/16/2013
13070622-030A	Soil		1.048	0	0	50	47.710	7/16/2013	7/16/2013
13070622-031A	Soil		1.045	0	0	50	47.847	7/16/2013	7/16/2013
13070622-031AMS	Soil		1.039	0	0	50	48.123	7/16/2013	7/16/2013
13070622-031AMSD	Soil		1.047	0	0	50	47.755	7/16/2013	7/16/2013
13070622-032A	Soil		1.042	0	0	50	47.985	7/16/2013	7/16/2013
13070622-033A	Soil		1.115	0	0	50	44.843	7/16/2013	7/16/2013
13070622-034A	Soil		1.058	0	0	50	47.259	7/16/2013	7/16/2013
13070622-035A	Soil		1.194	0	0	50	41.876	7/16/2013	7/16/2013
13070526-001A	Soil		0.562	0	0	50	88.968	7/16/2013	7/16/2013
13070526-002A	Soil		0.519	0	0	50	96.339	7/16/2013	7/16/2013
13070526-003A	Soil		0.507	0	0	50	98.619	7/16/2013	7/16/2013
13070526-004A	Soil		0.521	0	0	50	95.969	7/16/2013	7/16/2013
13070526-005A	Soil		0.571	0	0	50	87.566	7/16/2013	7/16/2013
13070622-021A	Soil		1.111	0	0	50	45.005	7/16/2013	7/16/2013

# ANALYTICAL QC SUMMARY REPORT

**CLIENT:** Weston Solutions  
**Work Order:** 13070526  
**Project:** VP1049, Pilsen Superfund

**BatchID:** 70581

Sample ID: <b>IMBS2 7/16/13</b>	SampType: <b>MBLK</b>	TestCode: <b>M_ICPMS_S</b>	Units: <b>mg/Kg</b>	Prep Date: <b>7/16/2013</b>	Run ID: <b>ICPMS_130717A</b>						
Client ID: <b>ZZZZ</b>	Batch ID: <b>70581</b>	TestNo: <b>SW6020</b>		Analysis Date: <b>7/17/2013</b>	SeqNo: <b>2463021</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	ND	1.0									
Cadmium	ND	0.25									
Chromium	ND	0.50									
Copper	ND	1.2									
Lead	0.0925	0.25									J
Tin	1.639	2.5									J*
Zinc	ND	2.5									

Sample ID: <b>ILCSS2 7/16/13</b>	SampType: <b>LCS</b>	TestCode: <b>M_ICPMS_S</b>	Units: <b>mg/Kg</b>	Prep Date: <b>7/16/2013</b>	Run ID: <b>ICPMS_130717A</b>						
Client ID: <b>ZZZZ</b>	Batch ID: <b>70581</b>	TestNo: <b>SW6020</b>		Analysis Date: <b>7/17/2013</b>	SeqNo: <b>2463022</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	14.68	1.0	12.5	0	117	80	120	0	0		
Cadmium	24.96	0.25	25	0	99.8	80	120	0	0		
Chromium	26.78	0.50	25	0	107	80	120	0	0		
Copper	27.12	1.2	25	0	108	80	120	0	0		
Lead	26.34	0.25	25	0.0925	105	80	120	0	0		*
Tin	14.98	2.5	12.5	1.639	107	80	120	0	0		
Zinc	23.39	2.5	25	0	93.6	80	120	0	0		

Sample ID: <b>13070622-031AMS</b>	SampType: <b>MS</b>	TestCode: <b>M_ICPMS_S</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>7/16/2013</b>	Run ID: <b>ICPMS-2_130718A</b>						
Client ID: <b>ZZZZ</b>	Batch ID: <b>70581</b>	TestNo: <b>SW6020</b>		Analysis Date: <b>7/18/2013</b>	SeqNo: <b>2464940</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Zinc	3123	110	28.58	3106	58.8	75	125	0	0		S

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 R - RPD outside accepted recovery limits  
 H/HT - Holding Time Exceeded  
 B - Analyte detected in the associated Method Blank  
 E - Value above quantitation range

# ANALYTICAL QC SUMMARY REPORT

**CLIENT:** Weston Solutions  
**Work Order:** 13070526  
**Project:** VP1049, Pilsen Superfund

**BatchID: 70581**

Sample ID: <b>13070622-031AMS</b>	SampType: <b>MS</b>	TestCode: <b>M_ICPMS_S</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>7/16/2013</b>	Run ID: <b>ICPMS-2_130718A</b>
Client ID: <b>ZZZZ</b>	Batch ID: <b>70581</b>	TestNo: <b>SW6020</b>		Analysis Date: <b>7/18/2013</b>	SeqNo: <b>2464993</b>

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	11.36	4.6	14.29	9.899	10.2	75	125	0	0	0	S
Cadmium	48.68	1.1	28.58	20.88	97.3	75	125	0	0	0	S
Lead	4565	1.1	28.58	4337	798	75	125	0	0	0	S
Tin	119	11	14.29	183.9	-455	75	125	0	0	0	S*

Sample ID: <b>13070622-031AMS</b>	SampType: <b>MS</b>	TestCode: <b>M_ICPMS_S</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>7/16/2013</b>	Run ID: <b>ICPMS-2_130719A</b>
Client ID: <b>ZZZZ</b>	Batch ID: <b>70581</b>	TestNo: <b>SW6020</b>		Analysis Date: <b>7/19/2013</b>	SeqNo: <b>2466317</b>

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	114.2	2.3	28.58	91.32	80	75	125	0	0	0	S
Copper	539.5	5.7	28.58	584.7	-158	75	125	0	0	0	S

Sample ID: <b>13070622-031AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>M_ICPMS_S</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>7/16/2013</b>	Run ID: <b>ICPMS-2_130718A</b>
Client ID: <b>ZZZZ</b>	Batch ID: <b>70581</b>	TestNo: <b>SW6020</b>		Analysis Date: <b>7/18/2013</b>	SeqNo: <b>2464941</b>

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Zinc	4577	110	28.36	3106	5190	75	125	2758	49.6	20	SR

Sample ID: <b>13070622-031AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>M_ICPMS_S</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>7/16/2013</b>	Run ID: <b>ICPMS-2_130718A</b>
Client ID: <b>ZZZZ</b>	Batch ID: <b>70581</b>	TestNo: <b>SW6020</b>		Analysis Date: <b>7/18/2013</b>	SeqNo: <b>2464994</b>

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	10.07	4.5	14.18	9.899	1.19	75	125	11.36	12.1	20	S
Cadmium	59.16	1.1	28.36	20.88	135	75	125	48.68	19.4	20	S
Lead	5219	1.1	28.36	4337	3110	75	125	4565	13.4	20	S
Tin	182.1	11	14.18	183.9	-12.9	75	125	119	41.9	20	SR*

**Qualifiers:** ND - Not Detected at the Reporting Limit  
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 \* - Non Accredited Parameter  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 H/HT - Holding Time Exceeded  
 B - Analyte detected in the associated Method Blank  
 E - Value above quantitation range

**CLIENT:** Weston Solutions  
**Work Order:** 13070526  
**Project:** VP1049, Pilsen Superfund

# ANALYTICAL QC SUMMARY REPORT

**BatchID:** 70581

Sample ID: <b>13070622-031AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>M_ICPMS_S</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>7/16/2013</b>	Run ID: <b>ICPMS-2_130719A</b>
Client ID: <b>ZZZZ</b>	Batch ID: <b>70581</b>	TestNo: <b>SW6020</b>		Analysis Date: <b>7/19/2013</b>	SeqNo: <b>2466320</b>

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	126.6	2.3	28.36	91.32	125	75	125	114.2	10.3	20	
Copper	678.9	5.7	28.36	584.7	332	75	125	539.5	22.9	20	SR

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 \* - Non Accredited Parameter

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 H/HT - Holding Time Exceeded

B - Analyte detected in the associated Method Blank  
 E - Value above quantitation range

Prep Start Date: 7/17/2013 12:45:00  
 Prep End Date: 7/17/2013 1:24:00 P

Prep Factor Units:  
 mL / g

Prep Batch 70598 Prep Code: M\_HG\_S\_PRE Technician: LB

Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
HGMS2 7/16/13			0.3	0	0	30	100.000	7/16/2013	7/16/2013
HGLCSS2 7/16/13			0.3	0	0	30	100.000	7/16/2013	7/16/2013
13070701-001B	Soil		0.349	0	0	30	85.960	7/16/2013	7/16/2013
13070512-001B	Soil		0.357	0	0	30	84.034	7/16/2013	7/16/2013
13070512-002B	Soil		0.329	0	0	30	91.185	7/16/2013	7/16/2013
13070512-002BMS	Soil		0.331	0	0	30	90.634	7/16/2013	7/16/2013
13070512-002BMSD	Soil		0.328	0	0	30	91.463	7/16/2013	7/16/2013
13070477-001B	Soil		0.372	0	0	30	80.645	7/17/2013	7/17/2013
13070477-002B	Soil		0.371	0	0	30	80.863	7/17/2013	7/17/2013
13070477-003B	Soil		0.333	0	0	30	90.090	7/17/2013	7/17/2013
13070477-004B	Soil		0.313	0	0	30	95.847	7/17/2013	7/17/2013
13070477-005B	Soil		0.363	0	0	30	82.645	7/17/2013	7/17/2013
13070477-006B	Soil		0.335	0	0	30	89.552	7/17/2013	7/17/2013
13070477-007B	Soil		0.32	0	0	30	93.750	7/17/2013	7/17/2013
13070477-008B	Soil		0.384	0	0	30	78.125	7/17/2013	7/17/2013
13070477-009B	Soil		0.36	0	0	30	83.333	7/17/2013	7/17/2013
13070477-010B	Soil		0.32	0	0	30	93.750	7/17/2013	7/17/2013
13070477-011B	Soil		0.357	0	0	30	84.034	7/17/2013	7/17/2013
13070478-001B	Soil		0.372	0	0	30	80.645	7/17/2013	7/17/2013
13070526-001A	Soil		0.384	0	0	30	78.125	7/17/2013	7/17/2013
13070526-002A	Soil		0.339	0	0	30	88.496	7/17/2013	7/17/2013
13070526-003A	Soil		0.283	0	0	30	106.007	7/17/2013	7/17/2013
13070526-004A	Soil		0.34	0	0	30	88.235	7/17/2013	7/17/2013
13070526-005A	Soil		0.359	0	0	30	83.565	7/17/2013	7/17/2013

# ANALYTICAL QC SUMMARY REPORT

**CLIENT:** Weston Solutions  
**Work Order:** 13070526  
**Project:** VP1049, Pilsen Superfund

**BatchID:** 70598

Sample ID: <b>HGMBS2 7/16/13</b>	SampType: <b>MBLK</b>	TestCode: <b>M_HG_SOLID</b>	Units: <b>mg/Kg</b>	Prep Date: <b>7/16/2013</b>	Run ID: <b>CETAC_130716B</b>						
Client ID: <b>ZZZZ</b>	Batch ID: <b>70598</b>	TestNo: <b>SW7471A</b>		Analysis Date: <b>7/16/2013</b>	SeqNo: <b>2461593</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.002	0.020	0.020	0.002	94.8	80	120	0	0		J

Sample ID: <b>HGLCSS2 7/16/13</b>	SampType: <b>LCS</b>	TestCode: <b>M_HG_SOLID</b>	Units: <b>mg/Kg</b>	Prep Date: <b>7/16/2013</b>	Run ID: <b>CETAC_130716B</b>						
Client ID: <b>ZZZZ</b>	Batch ID: <b>70598</b>	TestNo: <b>SW7471A</b>		Analysis Date: <b>7/16/2013</b>	SeqNo: <b>2461594</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.239	0.020	0.25	0.002	94.8	80	120	0	0		

Sample ID: <b>13070512-002BMS</b>	SampType: <b>MS</b>	TestCode: <b>M_HG_SOLID</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>7/16/2013</b>	Run ID: <b>CETAC_130716B</b>						
Client ID: <b>ZZZZ</b>	Batch ID: <b>70598</b>	TestNo: <b>SW7471A</b>		Analysis Date: <b>7/16/2013</b>	SeqNo: <b>2461598</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.2931	0.025	0.3066	0.01111	92	75	125	0	0		

Sample ID: <b>13070512-002BMSD</b>	SampType: <b>MSD</b>	TestCode: <b>M_HG_SOLID</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>7/16/2013</b>	Run ID: <b>CETAC_130716B</b>						
Client ID: <b>ZZZZ</b>	Batch ID: <b>70598</b>	TestNo: <b>SW7471A</b>		Analysis Date: <b>7/16/2013</b>	SeqNo: <b>2461599</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.3069	0.025	0.3094	0.01111	95.6	75	125	0.2931	4.61	20	

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 \* - Non Accredited Parameter

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 H/HT - Holding Time Exceeded

B - Analyte detected in the associated Method Blank  
 E - Value above quantitation range

# ANALYTICAL QC SUMMARY REPORT

**CLIENT:** Weston Solutions  
**Work Order:** 13070526  
**Project:** VP1049, Pilsen Superfund

**BatchID: R91092**

Sample ID: <b>PMMBK 1 7/15/13</b>	SampType: <b>MBLK</b>	TestCode: <b>PMOIST</b>	Units: <b>wt%</b>	Prep Date: <b>7/15/2013</b>	Run ID: <b>BALANCE_130715B</b>						
Client ID: <b>ZZZZ</b>	Batch ID: <b>R91092</b>	TestNo: <b>D2974</b>		Analysis Date: <b>7/15/2013</b>	SeqNo: <b>2460796</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	ND	0.200									*

Sample ID: <b>PMLCS-S 1 7/15/13</b>	SampType: <b>LCS</b>	TestCode: <b>PMOIST</b>	Units: <b>wt%</b>	Prep Date: <b>7/15/2013</b>	Run ID: <b>BALANCE_130715B</b>						
Client ID: <b>ZZZZ</b>	Batch ID: <b>R91092</b>	TestNo: <b>D2974</b>		Analysis Date: <b>7/15/2013</b>	SeqNo: <b>2460797</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	4.4	0.200	5	0	88	80	120	0	0	0	*

Sample ID: <b>PMLCS-W 1 7/15/13</b>	SampType: <b>LCS</b>	TestCode: <b>PMOIST</b>	Units: <b>wt%</b>	Prep Date: <b>7/15/2013</b>	Run ID: <b>BALANCE_130715B</b>						
Client ID: <b>ZZZZ</b>	Batch ID: <b>R91092</b>	TestNo: <b>D2974</b>		Analysis Date: <b>7/15/2013</b>	SeqNo: <b>2460798</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	99.84	0.200	99.8	0	100	80	120	0	0	0	*

Sample ID: <b>13070617-008B DUP</b>	SampType: <b>DUP</b>	TestCode: <b>PMOIST</b>	Units: <b>wt%</b>	Prep Date: <b>7/15/2013</b>	Run ID: <b>BALANCE_130715B</b>						
Client ID: <b>ZZZZ</b>	Batch ID: <b>R91092</b>	TestNo: <b>D2974</b>		Analysis Date: <b>7/15/2013</b>	SeqNo: <b>2460816</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	13.86	0.200	0	0	0	0	0	14.94	7.50	20	*

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 \* - Non Accredited Parameter  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 H/HT - Holding Time Exceeded  
 B - Analyte detected in the associated Method Blank  
 E - Value above quantitation range



**PILSEN AREA SOIL SITE  
CHICAGO, ILLINOIS  
DATA VALIDATION REPORT**

**Date:** August 8, 2013

**Laboratory:** STAT Analysis Corporation (STAT), Chicago, Illinois

**Laboratory Project #:** 13070622

**Data Validation Performed By:** Lisa Graczyk, Weston Solutions, Inc. (WESTON®) Superfund Technical Assessment and Response Team (START)

**Analytical TDD and Work Order #:** S05-0001-1211-003/20405.016.001.2038.00

This data validation report has been prepared by WESTON START under the START III Region V contract. This report documents the data validation for 35 soil samples collected for the Pilsen Area Soil Site that were analyzed for the following parameters and U.S. Environmental Protection Agency methods:

- Total Metals by SW-846 Methods 6020 and 7471A
- Fine Grained Lead by SW-846 Method 6020
- Moisture Content by ASTM D2974

A level II data package was requested from STAT. The data validation was conducted in general accordance with the EPA "Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review" dated January 2010. The Attachment contains the results summary sheets with the hand-written qualifiers applied during data validation.

**TOTAL METALS AND FINE GRAINED LEAD BY EPA SW-846 METHODS 6020 AND 7471A**

**1. Samples**

Attachment A summarizes the samples for which this data validation is being conducted. It includes the laboratory sample identification, the WESTON START sample identification, and the date and time of sample collection.

**2. Holding Times**

The samples were analyzed within the required holding time limit of 28 days for mercury and 180 days from sample collection to analysis for all other metals.

### 3. **Blank Results**

Method blanks were analyzed with the metals analyses. The blanks contained no metals contamination above the reporting limits. There were detections of some metals below the reporting limits in the blanks. However, the sample results were much greater or contained no detections of these metals. No qualifications were required.

### 4. **Laboratory Control Sample (LCS) Results**

The LCS recoveries were within the quality control (QC) limits except for as follows.

In two LCSs, antimony was detected high. Detected antimony results were flagged “J” as estimated.

### 5. **Matrix Spike (MS) and MS Duplicate (MSD) Results**

STAT analyzed several site-specific MS/MSDs. The percent recoveries and relative percent differences (RPD) were within QC limits except for as follows.

In many instances of QC limits not being met, the sample concentration was more than four times the spike amount. In these instances, no qualifications were required.

In the MS and MSD of sample PA-484-01(6-18)-071213, cadmium had a high recovery and antimony had a low recovery. In the MS/MSD of sample PA-474-02(0-6)-071013, the antimony and mercury recovery was low. In these samples, the quantitation limits for non-detected results were flagged “UJ” and the detected results were flagged “J” as estimated.

### 6. **Field Duplicate Results**

There are four field duplicate samples associated with this work order that are identified by a “D” suffix in the sample name.

The field duplicate results were evaluated by calculating the RPDs between the investigative and field duplicate sample results. There is no established QC limit for RPD for field duplicates; however, 50 RPD is generally used for evaluation. Most of the RPDs for detected metals were below 50 which is acceptable.

The exceptions were tin in field duplicate PA-472-01(0-6)-070913D had an RPD of 102 and lead in field duplicate PA-469-03(6-15)-071113D which had an RPD of 77. These two higher RPDs indicate minor sample heterogeneity. However, in general the field duplicate results agreed well with the investigative sample results.

7. **Overall Assessment**

The metals data are acceptable for use as qualified based on the information received.

**GENERAL CHEMISTRY PARAMETER (Moisture Content by ASTM D2974)**

1. **Samples**

Attachment A summarizes the samples for which this data validation is being conducted. It includes the laboratory sample identification, the WESTON START sample identification, and the date and time of sample collection.

2. **Holding Times**

The holding time for moisture is 28 days. The holding time for moisture was met.

3. **Blank Results**

Method blanks were analyzed with the moisture analyses and were all non-detect for moisture which is acceptable.

4. **LCS Results**

LCSs were analyzed with the moisture analyses. The LCS recoveries were within the QC limits.

5. **Laboratory Duplicates**

Laboratory duplicates were analyzed with the moisture analyses. The RPDs were within QC limits.

6. **Field Duplicate Results**

There are three field duplicate samples associated with this work order that are identified by a "D" suffix in the sample name.

The field duplicate results were evaluated by calculating the RPDs between the investigative and field duplicate sample results. The RPDs were below 50 which is acceptable.

7. **Overall Assessment**

The moisture data are acceptable for use based on the information received.

Data Validation Report  
Pilsen Area Soil Site  
STAT Analysis Corporation  
Laboratory Project #: 13070622

**ATTACHMENT A**  
**SAMPLE LIST**

**Client:** Weston Solutions  
**Project:** Pilsen Soil Site, Pilsen, Chicago, IL  
**Lab Order:** 13070622

**Work Order Sample Summary**

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
13070622-001A	PA-92-01(6-12)-070913		7/9/2013 10:15:00 AM	7/12/2013
13070622-001B	PA-92-01(6-12)-070913	Fine Grained	7/9/2013 10:15:00 AM	7/12/2013
13070622-002A	PA-92-01(12-24)-070913		7/9/2013 11:40:00 AM	7/12/2013
13070622-002B	PA-92-01(12-24)-070913	Fine Grained	7/9/2013 11:40:00 AM	7/12/2013
13070622-003A	PA-470-01(0-6)-070913		7/9/2013 11:45:00 AM	7/12/2013
13070622-003B	PA-470-01(0-6)-070913	Fine Grained	7/9/2013 11:45:00 AM	7/12/2013
13070622-004A	PA-471-01(0-6)-070913		7/9/2013 1:30:00 PM	7/12/2013
13070622-004B	PA-471-01(0-6)-070913	Fine Grained	7/9/2013 1:30:00 PM	7/12/2013
13070622-005A	PA-472-01(0-6)-070913		7/9/2013 2:45:00 PM	7/12/2013
13070622-005B	PA-472-01(0-6)-070913	Fine Grained	7/9/2013 2:45:00 PM	7/12/2013
13070622-006A	PA-472-01(0-6)-070913D		7/9/2013 2:50:00 PM	7/12/2013
13070622-006B	PA-472-01(0-6)-070913D	Fine Grained	7/9/2013 2:50:00 PM	7/12/2013
13070622-007A	PA-473-01(0-6)-070913		7/9/2013 3:45:00 PM	7/12/2013
13070622-007B	PA-473-01(0-6)-070913	Fine Grained	7/9/2013 3:45:00 PM	7/12/2013
13070622-008A	PA-473-01(6-18)-070913		7/9/2013 3:50:00 PM	7/12/2013
13070622-008B	PA-473-01(6-18)-070913	Fine Grained	7/9/2013 3:50:00 PM	7/12/2013
13070622-009A	PA-473-01(18-24)-070913		7/9/2013 3:55:00 PM	7/12/2013
13070622-009B	PA-473-01(18-24)-070913	Fine Grained	7/9/2013 3:55:00 PM	7/12/2013
13070622-010A	PA-474-01(0-6)-071013		7/10/2013 10:45:00 AM	7/12/2013
13070622-010B	PA-474-01(0-6)-071013	Fine Grained	7/10/2013 10:45:00 AM	7/12/2013
13070622-011A	PA-474-01(6-18)-071013		7/10/2013 10:50:00 AM	7/12/2013
13070622-011B	PA-474-01(6-18)-071013	Fine Grained	7/10/2013 10:50:00 AM	7/12/2013
13070622-012A	PA-474-02(0-6)-071013		7/10/2013 10:55:00 AM	7/12/2013
13070622-012B	PA-474-02(0-6)-071013	Fine Grained	7/10/2013 10:55:00 AM	7/12/2013
13070622-013A	PA-475-01(0-6)-071013		7/10/2013 11:45:00 AM	7/12/2013
13070622-013B	PA-475-01(0-6)-071013	Fine Grained	7/10/2013 11:45:00 AM	7/12/2013
13070622-014A	PA-476-01(0-6)-071013		7/10/2013 2:30:00 PM	7/12/2013
13070622-014B	PA-476-01(0-6)-071013	Fine Grained	7/10/2013 2:30:00 PM	7/12/2013
13070622-015A	PA-477-01(0-6)-071013		7/10/2013 4:00:00 PM	7/12/2013
13070622-015B	PA-477-01(0-6)-071013	Fine Grained	7/10/2013 4:00:00 PM	7/12/2013
13070622-016A	PA-477-01(6-18)-071013		7/10/2013 4:05:00 PM	7/12/2013
13070622-016B	PA-477-01(6-18)-071013	Fine Grained	7/10/2013 4:05:00 PM	7/12/2013
13070622-017A	PA-478-01(0-6)-071013		7/10/2013 5:25:00 PM	7/12/2013
13070622-017B	PA-478-01(0-6)-071013	Fine Grained	7/10/2013 5:25:00 PM	7/12/2013
13070622-018A	PA-478-01(0-6)-071013D		7/10/2013 5:30:00 PM	7/12/2013
13070622-018B	PA-478-01(0-6)-071013D	Fine Grained	7/10/2013 5:30:00 PM	7/12/2013
13070622-019A	PA-479-01(0-6)-071113		7/11/2013 10:40:00 AM	7/12/2013
13070622-019B	PA-479-01(0-6)-071113	Fine Grained	7/11/2013 10:40:00 AM	7/12/2013

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**Client:** Weston Solutions  
**Project:** Pilsen Soil Site, Pilsen, Chicago, IL  
**Lab Order:** 13070622

## Work Order Sample Summary

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Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
13070622-020A	PA-480-01(0-6)-071113		7/11/2013 10:45:00 AM	7/12/2013
13070622-020B	PA-480-01(0-6)-071113	Fine Grained	7/11/2013 10:45:00 AM	7/12/2013
13070622-021A	PA-481-01(0-6)-071113		7/11/2013 11:50:00 AM	7/12/2013
13070622-021B	PA-481-01(0-6)-071113	Fine Grained	7/11/2013 11:50:00 AM	7/12/2013
13070622-022A	PA-482-01(0-6)-071113		7/11/2013 2:30:00 PM	7/12/2013
13070622-022B	PA-482-01(0-6)-071113	Fine Grained	7/11/2013 2:30:00 PM	7/12/2013
13070622-023A	PA-482-01(6-18)-071113		7/11/2013 2:35:00 PM	7/12/2013
13070622-023B	PA-482-01(6-18)-071113	Fine Grained	7/11/2013 2:35:00 PM	7/12/2013
13070622-024A	PA-469-01(6-15)-071113		7/11/2013 4:50:00 PM	7/12/2013
13070622-024B	PA-469-01(6-15)-071113	Fine Grained	7/11/2013 4:50:00 PM	7/12/2013
13070622-025A	PA-469-02(6-15)-071113		7/11/2013 4:55:00 PM	7/12/2013
13070622-025B	PA-469-02(6-15)-071113	Fine Grained	7/11/2013 4:55:00 PM	7/12/2013
13070622-026A	PA-469-03(6-15)-071113		7/11/2013 5:00:00 PM	7/12/2013
13070622-026B	PA-469-03(6-15)-071113	Fine Grained	7/11/2013 5:00:00 PM	7/12/2013
13070622-027A	PA-469-03(6-15)-071113D		7/11/2013 5:05:00 PM	7/12/2013
13070622-027B	PA-469-03(6-15)-071113D	Fine Grained	7/11/2013 5:05:00 PM	7/12/2013
13070622-028A	PA-483-01(0-6)-071213		7/12/2013 9:55:00 AM	7/12/2013
13070622-028B	PA-483-01(0-6)-071213	Fine Grained	7/12/2013 9:55:00 AM	7/12/2013
13070622-029A	PA-483-01(6-24)-071213		7/12/2013 10:00:00 AM	7/12/2013
13070622-029B	PA-483-01(6-24)-071213	Fine Grained	7/12/2013 10:00:00 AM	7/12/2013
13070622-030A	PA-484-01(0-6)-071213		7/12/2013 11:40:00 AM	7/12/2013
13070622-030B	PA-484-01(0-6)-071213	Fine Grained	7/12/2013 11:40:00 AM	7/12/2013
13070622-031A	PA-484-01(6-18)-071213		7/12/2013 11:45:00 AM	7/12/2013
13070622-031B	PA-484-01(6-18)-071213	Fine Grained	7/12/2013 11:45:00 AM	7/12/2013
13070622-032A	PA-485-01(0-6)-071213		7/12/2013 1:30:00 PM	7/12/2013
13070622-032B	PA-485-01(0-6)-071213	Fine Grained	7/12/2013 1:30:00 PM	7/12/2013
13070622-033A	PA-486-01(0-6)-071213		7/12/2013 2:40:00 PM	7/12/2013
13070622-033B	PA-486-01(0-6)-071213	Fine Grained	7/12/2013 2:40:00 PM	7/12/2013
13070622-034A	PA-486-01(6-24)-071213		7/12/2013 2:45:00 PM	7/12/2013
13070622-034B	PA-486-01(6-24)-071213	Fine Grained	7/12/2013 2:45:00 PM	7/12/2013
13070622-035A	PA-48601(6-24)-071213D		7/12/2013 2:50:00 PM	7/12/2013
13070622-035B	PA-48601(6-24)-071213D	Fine Grained	7/12/2013 2:50:00 PM	7/12/2013

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Data Validation Report  
Pilsen Area Soil Site  
STAT Analysis Corporation  
Laboratory Project #: 13070622

**ATTACHMENT B**

**STAT ANALYSIS CORPORATION  
RESULTS SUMMARY WITH QUALIFIERS**

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Report Date: August 02, 2013

Print Date: August 02, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-92-01(6-12)-070913
<b>Lab Order:</b>	13070622	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	7/9/2013 10:15:00 AM
<b>Lab ID:</b>	13070622-001A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>				Prep Date: <b>7/18/2013</b>	Analyst: <b>LB</b>
Mercury	1.4	0.12		mg/Kg-dry	5	7/18/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>7/16/2013</b>	Analyst: <b>JG</b>
Antimony	ND	4.7		mg/Kg-dry	20	7/18/2013
Cadmium	2.3	1.2		mg/Kg-dry	20	7/18/2013
Chromium	18	2.3		mg/Kg-dry	20	7/18/2013
Copper	88	5.8		mg/Kg-dry	20	7/18/2013
Lead	550	1.2		mg/Kg-dry	20	7/18/2013
Tin	22	12	*	mg/Kg-dry	20	7/18/2013
Zinc	650	12		mg/Kg-dry	20	7/18/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: <b>7/16/2013</b>	Analyst: <b>SDA</b>
Percent Moisture	20.1	0.2	*	wt%	1	7/17/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded



**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Report Date: August 02, 2013

Print Date: August 02, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-92-01(6-12)-070913
<b>Lab Order:</b>	13070622	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	7/9/2013 10:15:00 AM
<b>Lab ID:</b>	13070622-001B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: <b>7/25/2013</b>	Analyst: <b>JG</b>
Lead	920	5		mg/Kg-dry	100	7/25/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Report Date: August 02, 2013

Print Date: August 02, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-92-01(12-24)-070913
<b>Lab Order:</b>	13070622	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	7/9/2013 11:40:00 AM
<b>Lab ID:</b>	13070622-002A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>				Prep Date: <b>7/18/2013</b>	Analyst: <b>LB</b>
Mercury	2.5	0.22		mg/Kg-dry	10	7/18/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>7/16/2013</b>	Analyst: <b>JG</b>
Antimony	ND	4.3		mg/Kg-dry	20	7/18/2013
Cadmium	3.2	1.1		mg/Kg-dry	20	7/18/2013
Chromium	23	2.2		mg/Kg-dry	20	7/18/2013
Copper	140	5.4		mg/Kg-dry	20	7/18/2013
Lead	890	1.1		mg/Kg-dry	20	7/18/2013
Tin	35	11	*	mg/Kg-dry	20	7/18/2013
Zinc	1000	11		mg/Kg-dry	20	7/18/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: <b>7/16/2013</b>	Analyst: <b>SDA</b>
Percent Moisture	18.3	0.2	*	wt%	1	7/17/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Report Date: August 02, 2013

Print Date: August 02, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-92-01(12-24)-070913
<b>Lab Order:</b>	13070622	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	7/9/2013 11:40:00 AM
<b>Lab ID:</b>	13070622-002B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: <b>7/25/2013</b>	Analyst: <b>JG</b>
Lead	850	5		mg/Kg-dry	100	7/25/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
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Report Date: August 02, 2013

Print Date: August 02, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-470-01(0-6)-070913
<b>Lab Order:</b>	13070622	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	7/9/2013 11:45:00 AM
<b>Lab ID:</b>	13070622-003A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>				Prep Date: <b>7/18/2013</b>	Analyst: <b>LB</b>
Mercury	1.2	0.23		mg/Kg-dry	10	7/18/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>7/16/2013</b>	Analyst: <b>JG</b>
Antimony	ND	5.2		mg/Kg-dry	20	7/18/2013
Cadmium	12	1.3		mg/Kg-dry	20	7/18/2013
Chromium	39	2.6		mg/Kg-dry	20	7/18/2013
Copper	430	6.4		mg/Kg-dry	20	7/18/2013
Lead	3200	1.3		mg/Kg-dry	20	7/18/2013
Tin	120	13	*	mg/Kg-dry	20	7/18/2013
Zinc	3500	130		mg/Kg-dry	200	7/18/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: <b>7/16/2013</b>	Analyst: <b>SDA</b>
Percent Moisture	26.9	0.2	*	wt%	1	7/17/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: August 02, 2013

Print Date: August 02, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-470-01(0-6)-070913
<b>Lab Order:</b>	13070622	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	7/9/2013 11:45:00 AM
<b>Lab ID:</b>	13070622-003B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: <b>7/25/2013</b>	Analyst: <b>JG</b>
Lead	3300	4.8		mg/Kg-dry	100	7/25/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: August 02, 2013

Print Date: August 02, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-471-01(0-6)-070913
<b>Lab Order:</b>	13070622	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	7/9/2013 1:30:00 PM
<b>Lab ID:</b>	13070622-004A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>				Prep Date: <b>7/18/2013</b>	Analyst: <b>LB</b>
Mercury	1	0.11		mg/Kg-dry	5	7/18/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>7/16/2013</b>	Analyst: <b>JG</b>
Antimony	ND	5.4		mg/Kg-dry	20	7/18/2013
Cadmium	7.2	1.4		mg/Kg-dry	20	7/18/2013
Chromium	46	2.7		mg/Kg-dry	20	7/18/2013
Copper	230	6.8		mg/Kg-dry	20	7/18/2013
Lead	1900	1.4		mg/Kg-dry	20	7/18/2013
Tin	40	14	*	mg/Kg-dry	20	7/18/2013
Zinc	2000	14		mg/Kg-dry	20	7/18/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: <b>7/16/2013</b>	Analyst: <b>SDA</b>
Percent Moisture	30.1	0.2	*	wt%	1	7/17/2013

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 \* - Non-accredited parameter

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 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Report Date: August 02, 2013

Print Date: August 02, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-471-01(0-6)-070913
<b>Lab Order:</b>	13070622	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	7/9/2013 1:30:00 PM
<b>Lab ID:</b>	13070622-004B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>7/25/2013</b>	Analyst: <b>JG</b>
Lead	1800	4.5		mg/Kg-dry	100	7/25/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: August 02, 2013

Print Date: August 02, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-472-01(0-6)-070913
<b>Lab Order:</b>	13070622	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	7/9/2013 2:45:00 PM
<b>Lab ID:</b>	13070622-005A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>		Prep Date: <b>7/18/2013</b>		Analyst: <b>LB</b>	
Mercury	0.67	0.02		mg/Kg-dry	1	7/18/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>		Prep Date: <b>7/16/2013</b>		Analyst: <b>JG</b>	
Antimony	ND	4.6		mg/Kg-dry	20	7/19/2013
Cadmium	5.6	1.2		mg/Kg-dry	20	7/19/2013
Chromium	45	2.3		mg/Kg-dry	20	7/19/2013
Copper	130	5.8		mg/Kg-dry	20	7/19/2013
Lead	940	1.2		mg/Kg-dry	20	7/19/2013
Tin	52	12	*	mg/Kg-dry	20	7/19/2013
Zinc	1100	12		mg/Kg-dry	20	7/19/2013
<b>Percent Moisture</b>	<b>D2974</b>		Prep Date: <b>7/16/2013</b>		Analyst: <b>SDA</b>	
Percent Moisture	19.5	0.2	*	wt%	1	7/17/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded



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Report Date: August 02, 2013

Print Date: August 02, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-472-01(0-6)-070913
<b>Lab Order:</b>	13070622	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	7/9/2013 2:45:00 PM
<b>Lab ID:</b>	13070622-005B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: 7/25/2013	Analyst: JG
Lead	1100	4.4		mg/Kg-dry	100	7/25/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: August 02, 2013

Print Date: August 02, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-472-01(0-6)-070913D
<b>Lab Order:</b>	13070622	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	7/9/2013 2:50:00 PM
<b>Lab ID:</b>	13070622-006A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>				Prep Date: <b>7/18/2013</b>	Analyst: <b>LB</b>
Mercury	0.68	0.021		mg/Kg-dry	1	7/18/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>7/16/2013</b>	Analyst: <b>JG</b>
Antimony	ND	4.9		mg/Kg-dry	20	7/19/2013
Cadmium	4.7	1.2		mg/Kg-dry	20	7/19/2013
Chromium	49	2.5		mg/Kg-dry	20	7/19/2013
Copper	140	6.1		mg/Kg-dry	20	7/19/2013
Lead	1200	1.2		mg/Kg-dry	20	7/19/2013
Tin	160	12	*	mg/Kg-dry	20	7/19/2013
Zinc	730	12		mg/Kg-dry	20	7/19/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: <b>7/16/2013</b>	Analyst: <b>SDA</b>
Percent Moisture	19.5	0.2	*	wt%	1	7/17/2013

**Qualifiers:**  
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 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Report Date: August 02, 2013

Print Date: August 02, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-472-01(0-6)-070913D
<b>Lab Order:</b>	13070622	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	7/9/2013 2:50:00 PM
<b>Lab ID:</b>	13070622-006B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: <b>7/25/2013</b>	Analyst: <b>JG</b>
Lead	1000	4.8		mg/Kg-dry	100	7/25/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: August 02, 2013

Print Date: August 02, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-473-01(0-6)-070913
<b>Lab Order:</b>	13070622	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	7/9/2013 3:45:00 PM
<b>Lab ID:</b>	13070622-007A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>				Prep Date: <b>7/18/2013</b>	Analyst: <b>LB</b>
Mercury	1.1	0.13		mg/Kg-dry	5	7/18/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>7/16/2013</b>	Analyst: <b>JG</b>
Antimony	ND	5.2		mg/Kg-dry	20	7/19/2013
Cadmium	9.1	1.3		mg/Kg-dry	20	7/19/2013
Chromium	87	2.6		mg/Kg-dry	20	7/19/2013
Copper	160	6.5		mg/Kg-dry	20	7/19/2013
Lead	1700	1.3		mg/Kg-dry	20	7/19/2013
Tin	43	13	*	mg/Kg-dry	20	7/19/2013
Zinc	970	13		mg/Kg-dry	20	7/19/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: <b>7/16/2013</b>	Analyst: <b>SDA</b>
Percent Moisture	26.6	0.2	*	wt%	1	7/17/2013

**Qualifiers:**  
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 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
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Report Date: August 02, 2013

Print Date: August 02, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-473-01(0-6)-070913
<b>Lab Order:</b>	13070622	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	7/9/2013 3:45:00 PM
<b>Lab ID:</b>	13070622-007B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: 7/25/2013	Analyst: JG
Lead	1600	4.8		mg/Kg-dry	100	7/25/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Report Date: August 02, 2013

Print Date: August 02, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-473-01(6-18)-070913
<b>Lab Order:</b>	13070622	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	7/9/2013 3:50:00 PM
<b>Lab ID:</b>	13070622-008A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>				Prep Date: <b>7/18/2013</b>	Analyst: <b>LB</b>
Mercury	1.4	0.12		mg/Kg-dry	5	7/18/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>7/16/2013</b>	Analyst: <b>JG</b>
Antimony	ND	4.9		mg/Kg-dry	20	7/19/2013
Cadmium	5.8	1.2		mg/Kg-dry	20	7/19/2013
Chromium	47	2.5		mg/Kg-dry	20	7/19/2013
Copper	150	6.2		mg/Kg-dry	20	7/19/2013
Lead	1600	1.2		mg/Kg-dry	20	7/19/2013
Tin	39	12	*	mg/Kg-dry	20	7/19/2013
Zinc	880	12		mg/Kg-dry	20	7/19/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: <b>7/16/2013</b>	Analyst: <b>SDA</b>
Percent Moisture	21.2	0.2	*	wt%	1	7/17/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

**STAT Analysis Corporation**

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Report Date: August 02, 2013

Print Date: August 02, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-473-01(6-18)-070913
<b>Lab Order:</b>	13070622	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	7/9/2013 3:50:00 PM
<b>Lab ID:</b>	13070622-008B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: 7/25/2013	Analyst: JG
Lead	1300	4.6		mg/Kg-dry	100	7/25/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
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Report Date: August 02, 2013

Print Date: August 02, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-473-01(18-24)-070913
<b>Lab Order:</b>	13070622	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	7/9/2013 3:55:00 PM
<b>Lab ID:</b>	13070622-009A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>		Prep Date: <b>7/18/2013</b>		Analyst: <b>LB</b>	
Mercury	0.99	0.1		mg/Kg-dry	5	7/18/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>		Prep Date: <b>7/16/2013</b>		Analyst: <b>JG</b>	
Antimony	ND	4.3		mg/Kg-dry	20	7/19/2013
Cadmium	ND	1.1		mg/Kg-dry	20	7/19/2013
Chromium	19	2.2		mg/Kg-dry	20	7/19/2013
Copper	37	5.4		mg/Kg-dry	20	7/19/2013
Lead	140	1.1		mg/Kg-dry	20	7/19/2013
Tin	ND	11	*	mg/Kg-dry	20	7/19/2013
Zinc	150	11		mg/Kg-dry	20	7/19/2013
<b>Percent Moisture</b>	<b>D2974</b>		Prep Date: <b>7/16/2013</b>		Analyst: <b>SDA</b>	
Percent Moisture	19.6	0.2	*	wt%	1	7/17/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
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	HT - Sample received past holding time	E - Value above quantitation range
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Report Date: August 02, 2013

Print Date: August 02, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-473-01(18-24)-070913
<b>Lab Order:</b>	13070622	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	7/9/2013 3:55:00 PM
<b>Lab ID:</b>	13070622-009B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: <b>7/25/2013</b>	Analyst: <b>JG</b>
Lead	170	8.7		mg/Kg-dry	100	7/25/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
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Report Date: August 02, 2013

Print Date: August 02, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-474-01(0-6)-071013
<b>Lab Order:</b>	13070622	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	7/10/2013 10:45:00 AM
<b>Lab ID:</b>	13070622-010A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>				Prep Date: <b>7/18/2013</b>	Analyst: <b>LB</b>
Mercury	0.6	0.022		mg/Kg-dry	1	7/18/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>7/16/2013</b>	Analyst: <b>JG</b>
Antimony	ND	5.1		mg/Kg-dry	20	7/19/2013
Cadmium	3.5	1.3		mg/Kg-dry	20	7/19/2013
Chromium	34	2.5		mg/Kg-dry	20	7/19/2013
Copper	130	6.4		mg/Kg-dry	20	7/19/2013
Lead	2600	1.3		mg/Kg-dry	20	7/19/2013
Tin	180	13	*	mg/Kg-dry	20	7/19/2013
Zinc	870	13		mg/Kg-dry	20	7/19/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: <b>7/16/2013</b>	Analyst: <b>SDA</b>
Percent Moisture	23.9	0.2	*	wt%	1	7/17/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: August 02, 2013

Print Date: August 02, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-474-01(0-6)-071013
<b>Lab Order:</b>	13070622	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	7/10/2013 10:45:00 AM
<b>Lab ID:</b>	13070622-010B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: <b>7/25/2013</b>	Analyst: <b>JG</b>
Lead	2000	6		mg/Kg-dry	100	7/25/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: August 02, 2013

Print Date: August 02, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-474-01(6-18)-071013
<b>Lab Order:</b>	13070622	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	7/10/2013 10:50:00 AM
<b>Lab ID:</b>	13070622-011A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>		Prep Date: <b>7/18/2013</b>		Analyst: <b>LB</b>	
Mercury	1.2	0.23		mg/Kg-dry	10	7/18/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>		Prep Date: <b>7/16/2013</b>		Analyst: <b>JG</b>	
Antimony	ND	5.3		mg/Kg-dry	20	7/19/2013
Cadmium	4.2	1.3		mg/Kg-dry	20	7/19/2013
Chromium	32	2.6		mg/Kg-dry	20	7/19/2013
Copper	170	6.6		mg/Kg-dry	20	7/19/2013
Lead	2300	1.3		mg/Kg-dry	20	7/19/2013
Tin	130	13	*	mg/Kg-dry	20	7/19/2013
Zinc	1200	13		mg/Kg-dry	20	7/19/2013
<b>Percent Moisture</b>	<b>D2974</b>		Prep Date: <b>7/16/2013</b>		Analyst: <b>SDA</b>	
Percent Moisture	24.6	0.2	*	wt%	1	7/17/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
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Report Date: August 02, 2013

Print Date: August 02, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-474-01(6-18)-071013
<b>Lab Order:</b>	13070622	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	7/10/2013 10:50:00 AM
<b>Lab ID:</b>	13070622-011B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>7/25/2013</b>	Analyst: <b>JG</b>
Lead	2400	6.7		mg/Kg-dry	100	7/25/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
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Report Date: August 02, 2013

Print Date: August 02, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-474-02(0-6)-071013
<b>Lab Order:</b> 13070622	<b>Tag Number:</b>
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 7/10/2013 10:55:00 AM
<b>Lab ID:</b> 13070622-012A	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>					
Mercury	0.79 <i>J</i>	0.048		mg/Kg-dry	2	7/18/2013
						Prep Date: 7/18/2013 Analyst: LB
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>					
Antimony	ND <i>UJ</i>	4.9		mg/Kg-dry	20	7/18/2013
Cadmium	3.1	1.2		mg/Kg-dry	20	7/18/2013
Chromium	26	2.4		mg/Kg-dry	20	7/18/2013
Copper	95	6.1		mg/Kg-dry	20	7/18/2013
Lead	2200	1.2		mg/Kg-dry	20	7/18/2013
Tin	24	12	*	mg/Kg-dry	20	7/18/2013
Zinc	740	12		mg/Kg-dry	20	7/18/2013
						Prep Date: 7/16/2013 Analyst: JG
<b>Percent Moisture</b>	<b>D2974</b>					
Percent Moisture	19.8	0.2	*	wt%	1	7/17/2013
						Prep Date: 7/16/2013 Analyst: SDA

*LD*  
8/8/13

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: August 02, 2013

Print Date: August 02, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-474-02(0-6)-071013
<b>Lab Order:</b>	13070622	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	7/10/2013 10:55:00 AM
<b>Lab ID:</b>	13070622-012B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>7/25/2013</b>	Analyst: <b>JG</b>
Lead	3300	4.8		mg/Kg-dry	100	7/25/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
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	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: August 02, 2013

Print Date: August 02, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-475-01(0-6)-071013
<b>Lab Order:</b>	13070622	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	7/10/2013 11:45:00 AM
<b>Lab ID:</b>	13070622-013A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>				Prep Date: <b>7/18/2013</b>	Analyst: <b>LB</b>
Mercury	0.76	0.024		mg/Kg-dry	1	7/18/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>7/16/2013</b>	Analyst: <b>JG</b>
Antimony	ND	5		mg/Kg-dry	20	7/19/2013
Cadmium	6.6	1.2		mg/Kg-dry	20	7/19/2013
Chromium	53	2.5		mg/Kg-dry	20	7/19/2013
Copper	160	6.2		mg/Kg-dry	20	7/19/2013
Lead	3700	1.2		mg/Kg-dry	20	7/19/2013
Tin	55	12	*	mg/Kg-dry	20	7/19/2013
Zinc	1700	12		mg/Kg-dry	20	7/19/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: <b>7/16/2013</b>	Analyst: <b>SDA</b>
Percent Moisture	21.7	0.2	*	wt%	1	7/17/2013

**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded



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Report Date: August 02, 2013

Print Date: August 02, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-475-01(0-6)-071013
<b>Lab Order:</b>	13070622	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	7/10/2013 11:45:00 AM
<b>Lab ID:</b>	13070622-013B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: <b>7/25/2013</b>	Analyst: <b>JG</b>
Lead	3100	5.1		mg/Kg-dry	100	7/25/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: August 02, 2013

Print Date: August 02, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-476-01(0-6)-071013
<b>Lab Order:</b>	13070622	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	7/10/2013 2:30:00 PM
<b>Lab ID:</b>	13070622-014A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>				Prep Date: <b>7/18/2013</b>	Analyst: <b>LB</b>
Mercury	0.92	0.077		mg/Kg-dry	3	7/18/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>7/16/2013</b>	Analyst: <b>JG</b>
Antimony	ND	5		mg/Kg-dry	20	7/19/2013
Cadmium	8.5	1.3		mg/Kg-dry	20	7/19/2013
Chromium	34	2.5		mg/Kg-dry	20	7/19/2013
Copper	170	6.3		mg/Kg-dry	20	7/19/2013
Lead	2000	1.3		mg/Kg-dry	20	7/19/2013
Tin	32	13	*	mg/Kg-dry	20	7/19/2013
Zinc	1800	13		mg/Kg-dry	20	7/19/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: <b>7/16/2013</b>	Analyst: <b>SDA</b>
Percent Moisture	25.2	0.2	*	wt%	1	7/17/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-476-01(0-6)-071013
<b>Lab Order:</b>	13070622	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	7/10/2013 2:30:00 PM
<b>Lab ID:</b>	13070622-014B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: 7/25/2013	Analyst: JG
Lead	1900	5		mg/Kg-dry	100	7/25/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

**STAT Analysis Corporation**

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Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Report Date: August 02, 2013

Print Date: August 02, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-477-01(0-6)-071013
<b>Lab Order:</b>	13070622	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	7/10/2013 4:00:00 PM
<b>Lab ID:</b>	13070622-015A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>				Prep Date: <b>7/18/2013</b>	Analyst: <b>LB</b>
Mercury	0.69	0.025		mg/Kg-dry	1	7/18/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>7/16/2013</b>	Analyst: <b>JG</b>
Antimony	ND	5.1		mg/Kg-dry	20	7/19/2013
Cadmium	4.1	1.3		mg/Kg-dry	20	7/19/2013
Chromium	42	2.5		mg/Kg-dry	20	7/19/2013
Copper	98	6.3		mg/Kg-dry	20	7/19/2013
Lead	1700	1.3		mg/Kg-dry	20	7/19/2013
Tin	26	13	*	mg/Kg-dry	20	7/19/2013
Zinc	720	13		mg/Kg-dry	20	7/19/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: <b>7/16/2013</b>	Analyst: <b>SDA</b>
Percent Moisture	22.4	0.2	*	wt%	1	7/17/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: August 02, 2013

Print Date: August 02, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-477-01(0-6)-071013
<b>Lab Order:</b>	13070622	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	7/10/2013 4:00:00 PM
<b>Lab ID:</b>	13070622-015B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>7/25/2013</b>	Analyst: <b>JG</b>
Lead	980	4.8		mg/Kg-dry	100	7/25/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: August 02, 2013

Print Date: August 02, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-477-01(6-18)-071013
<b>Lab Order:</b>	13070622	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	7/10/2013 4:05:00 PM
<b>Lab ID:</b>	13070622-016A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>				Prep Date: 7/18/2013	Analyst: <b>LB</b>
Mercury	0.62	0.022		mg/Kg-dry	1	7/18/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: 7/16/2013	Analyst: <b>JG</b>
Antimony	ND	5		mg/Kg-dry	20	7/19/2013
Cadmium	4.1	1.2		mg/Kg-dry	20	7/19/2013
Chromium	32	2.5		mg/Kg-dry	20	7/19/2013
Copper	100	6.2		mg/Kg-dry	20	7/19/2013
Lead	1100	1.2		mg/Kg-dry	20	7/19/2013
Tin	24	12	*	mg/Kg-dry	20	7/19/2013
Zinc	810	12		mg/Kg-dry	20	7/19/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: 7/16/2013	Analyst: <b>SDA</b>
Percent Moisture	19.4	0.2	*	wt%	1	7/17/2013

**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Report Date: August 02, 2013

Print Date: August 02, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-477-01(6-18)-071013
<b>Lab Order:</b>	13070622	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	7/10/2013 4:05:00 PM
<b>Lab ID:</b>	13070622-016B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: <b>7/25/2013</b>	Analyst: <b>JG</b>
Lead	1300	4.7		mg/Kg-dry	100	7/25/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: August 02, 2013

Print Date: August 02, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-478-01(0-6)-071013
<b>Lab Order:</b>	13070622	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	7/10/2013 5:25:00 PM
<b>Lab ID:</b>	13070622-017A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>				Prep Date: <b>7/18/2013</b>	Analyst: <b>LB</b>
Mercury	2	0.25		mg/Kg-dry	10	7/18/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>7/16/2013</b>	Analyst: <b>JG</b>
Antimony	ND	4.3		mg/Kg-dry	20	7/19/2013
Cadmium	17	1.1		mg/Kg-dry	20	7/19/2013
Chromium	220	2.2		mg/Kg-dry	20	7/19/2013
Copper	230	5.4		mg/Kg-dry	20	7/19/2013
Lead	1400	1.1		mg/Kg-dry	20	7/19/2013
Tin	42	11	*	mg/Kg-dry	20	7/19/2013
Zinc	1400	11		mg/Kg-dry	20	7/19/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: <b>7/16/2013</b>	Analyst: <b>SDA</b>
Percent Moisture	22.9	0.2	*	wt%	1	7/17/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded



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Report Date: August 02, 2013

Print Date: August 02, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-478-01(0-6)-071013
<b>Lab Order:</b>	13070622	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	7/10/2013 5:25:00 PM
<b>Lab ID:</b>	13070622-017B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: <b>7/25/2013</b>	Analyst: <b>JG</b>
Lead	1500	4.8		mg/Kg-dry	100	7/25/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: August 02, 2013

Print Date: August 02, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-478-01(0-6)-071013D
<b>Lab Order:</b>	13070622	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	7/10/2013 5:30:00 PM
<b>Lab ID:</b>	13070622-018A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>		Prep Date: <b>7/18/2013</b>		Analyst: <b>LB</b>	
Mercury	1.7	0.25		mg/Kg-dry	10	7/18/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>		Prep Date: <b>7/16/2013</b>		Analyst: <b>JG</b>	
Antimony	ND	4.9		mg/Kg-dry	20	7/19/2013
Cadmium	19	1.2		mg/Kg-dry	20	7/19/2013
Chromium	190	2.5		mg/Kg-dry	20	7/19/2013
Copper	260	6.2		mg/Kg-dry	20	7/19/2013
Lead	1700	1.2		mg/Kg-dry	20	7/19/2013
Tin	55	12	*	mg/Kg-dry	20	7/19/2013
Zinc	1800	12		mg/Kg-dry	20	7/19/2013
<b>Percent Moisture</b>	<b>D2974</b>		Prep Date: <b>7/16/2013</b>		Analyst: <b>SDA</b>	
Percent Moisture	22.4	0.2	*	wt%	1	7/17/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: August 02, 2013

Print Date: August 02, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-478-01(0-6)-071013D
<b>Lab Order:</b>	13070622	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	7/10/2013 5:30:00 PM
<b>Lab ID:</b>	13070622-018B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: <b>7/25/2013</b>	Analyst: <b>JG</b>
Lead	1500	4.7		mg/Kg-dry	100	7/25/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: August 02, 2013

Print Date: August 02, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-479-01(0-6)-071113
<b>Lab Order:</b>	13070622	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	7/11/2013 10:40:00 AM
<b>Lab ID:</b>	13070622-019A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>				Prep Date: <b>7/18/2013</b>	Analyst: <b>LB</b>
Mercury	0.54	0.021		mg/Kg-dry	1	7/18/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>7/16/2013</b>	Analyst: <b>JG</b>
Antimony	ND	4.3		mg/Kg-dry	20	7/19/2013
Cadmium	5.3	1.1		mg/Kg-dry	20	7/19/2013
Chromium	53	2.1		mg/Kg-dry	20	7/19/2013
Copper	140	5.3		mg/Kg-dry	20	7/19/2013
Lead	1200	1.1		mg/Kg-dry	20	7/19/2013
Tin	33	11	*	mg/Kg-dry	20	7/19/2013
Zinc	970	11		mg/Kg-dry	20	7/19/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: <b>7/16/2013</b>	Analyst: <b>SDA</b>
Percent Moisture	11.8	0.2	*	wt%	1	7/17/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: August 02, 2013

Print Date: August 02, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-479-01(0-6)-071113
<b>Lab Order:</b>	13070622	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	7/11/2013 10:40:00 AM
<b>Lab ID:</b>	13070622-019B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: <b>7/25/2013</b>	Analyst: <b>JG</b>
Lead	1600	4.7		mg/Kg-dry	100	7/25/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: August 02, 2013

Print Date: August 02, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-480-01(0-6)-071113
<b>Lab Order:</b>	13070622	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	7/11/2013 10:45:00 AM
<b>Lab ID:</b>	13070622-020A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>				Prep Date: <b>7/18/2013</b>	Analyst: <b>LB</b>
Mercury	0.62	0.021		mg/Kg-dry	1	7/18/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>7/16/2013</b>	Analyst: <b>JG</b>
Antimony	ND	4.8		mg/Kg-dry	20	7/19/2013
Cadmium	4.9	1.2		mg/Kg-dry	20	7/19/2013
Chromium	58	2.4		mg/Kg-dry	20	7/19/2013
Copper	180	6		mg/Kg-dry	20	7/19/2013
Lead	3200	1.2		mg/Kg-dry	20	7/19/2013
Tin	37	12	*	mg/Kg-dry	20	7/19/2013
Zinc	1300	12		mg/Kg-dry	20	7/19/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: <b>7/16/2013</b>	Analyst: <b>SDA</b>
Percent Moisture	20.4	0.2	*	wt%	1	7/17/2013

**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Report Date: August 02, 2013

Print Date: August 02, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-480-01(0-6)-071113
<b>Lab Order:</b>	13070622	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	7/11/2013 10:45:00 AM
<b>Lab ID:</b>	13070622-020B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: <b>7/25/2013</b>	Analyst: <b>JG</b>
Lead	3600	4.7		mg/Kg-dry	100	7/25/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: August 02, 2013

Print Date: August 02, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-481-01(0-6)-071113
<b>Lab Order:</b>	13070622	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	7/11/2013 11:50:00 AM
<b>Lab ID:</b>	13070622-021A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>		Prep Date: <b>7/18/2013</b>		Analyst: <b>LB</b>	
Mercury	2.1	0.25		mg/Kg-dry	10	7/19/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>		Prep Date: <b>7/16/2013</b>		Analyst: <b>JG</b>	
Antimony	ND	4.5		mg/Kg-dry	20	7/18/2013
Cadmium	5.4	1.1		mg/Kg-dry	20	7/18/2013
Chromium	30	2.3		mg/Kg-dry	20	7/18/2013
Copper	120	5.6		mg/Kg-dry	20	7/18/2013
Lead	1600	1.1		mg/Kg-dry	20	7/18/2013
Tin	36	11	*	mg/Kg-dry	20	7/18/2013
Zinc	1300	11		mg/Kg-dry	20	7/18/2013
<b>Percent Moisture</b>	<b>D2974</b>		Prep Date: <b>7/16/2013</b>		Analyst: <b>SDA</b>	
Percent Moisture	20.0	0.2	*	wt%	1	7/17/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded



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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Report Date: August 02, 2013

Print Date: August 02, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-481-01(0-6)-071113
<b>Lab Order:</b>	13070622	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	7/11/2013 11:50:00 AM
<b>Lab ID:</b>	13070622-021B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: 7/25/2013	Analyst: JG
Lead	2000	4.7		mg/Kg-dry	100	7/25/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
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	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: August 02, 2013

Print Date: August 02, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-482-01(0-6)-071113
<b>Lab Order:</b>	13070622	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	7/11/2013 2:30:00 PM
<b>Lab ID:</b>	13070622-022A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>				Prep Date: <b>7/18/2013</b>	Analyst: <b>LB</b>
Mercury	0.094	0.022		mg/Kg-dry	1	7/19/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>7/16/2013</b>	Analyst: <b>JG</b>
Antimony	ND	4.5		mg/Kg-dry	20	7/18/2013
Cadmium	3.7	1.1		mg/Kg-dry	20	7/18/2013
Chromium	24	2.2		mg/Kg-dry	20	7/18/2013
Copper	66	5.6		mg/Kg-dry	20	7/18/2013
Lead	210	1.1		mg/Kg-dry	20	7/18/2013
Tin	13	11	*	mg/Kg-dry	20	7/18/2013
Zinc	380	11		mg/Kg-dry	20	7/18/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: <b>7/16/2013</b>	Analyst: <b>SDA</b>
Percent Moisture	17.3	0.2	*	wt%	1	7/17/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: August 02, 2013

Print Date: August 02, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-482-01(0-6)-071113
<b>Lab Order:</b>	13070622	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	7/11/2013 2:30:00 PM
<b>Lab ID:</b>	13070622-022B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: 7/25/2013	Analyst: JG
Lead	200	4.6		mg/Kg-dry	100	7/25/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
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Report Date: August 02, 2013

Print Date: August 02, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-482-01(6-18)-071113
<b>Lab Order:</b>	13070622	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	7/11/2013 2:35:00 PM
<b>Lab ID:</b>	13070622-023A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>				Prep Date: <b>7/18/2013</b>	Analyst: <b>LB</b>
Mercury	0.12	0.019		mg/Kg-dry	1	7/19/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>7/16/2013</b>	Analyst: <b>JG</b>
Antimony	ND	4.4		mg/Kg-dry	20	7/18/2013
Cadmium	5.2	1.1		mg/Kg-dry	20	7/18/2013
Chromium	21	2.2		mg/Kg-dry	20	7/18/2013
Copper	53	5.5		mg/Kg-dry	20	7/18/2013
Lead	250	1.1		mg/Kg-dry	20	7/18/2013
Tin	ND	11	*	mg/Kg-dry	20	7/18/2013
Zinc	300	11		mg/Kg-dry	20	7/18/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: <b>7/16/2013</b>	Analyst: <b>SDA</b>
Percent Moisture	15.6	0.2	*	wt%	1	7/17/2013

**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Report Date: August 02, 2013

Print Date: August 02, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-482-01(6-18)-071113
<b>Lab Order:</b>	13070622	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	7/11/2013 2:35:00 PM
<b>Lab ID:</b>	13070622-023B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: <b>7/25/2013</b>	Analyst: <b>JG</b>
Lead	320	4.8		mg/Kg-dry	100	7/25/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: August 02, 2013

Print Date: August 02, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-469-01(6-15)-071113
<b>Lab Order:</b>	13070622	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	7/11/2013 4:50:00 PM
<b>Lab ID:</b>	13070622-024A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>		Prep Date: <b>7/18/2013</b>		Analyst: <b>LB</b>	
Mercury	0.68	0.021		mg/Kg-dry	1	7/19/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>		Prep Date: <b>7/16/2013</b>		Analyst: <b>JG</b>	
Antimony	ND	3.9		mg/Kg-dry	20	7/18/2013
Cadmium	1.1	0.99		mg/Kg-dry	20	7/18/2013
Chromium	20	2		mg/Kg-dry	20	7/18/2013
Copper	93	4.9		mg/Kg-dry	20	7/18/2013
Lead	340	0.99		mg/Kg-dry	20	7/18/2013
Tin	36	9.9	*	mg/Kg-dry	20	7/18/2013
Zinc	270	9.9		mg/Kg-dry	20	7/18/2013
<b>Percent Moisture</b>	<b>D2974</b>		Prep Date: <b>7/16/2013</b>		Analyst: <b>SDA</b>	
Percent Moisture	8.6	0.2	*	wt%	1	7/17/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: August 02, 2013

Print Date: August 02, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-469-01(6-15)-071113
<b>Lab Order:</b>	13070622	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	7/11/2013 4:50:00 PM
<b>Lab ID:</b>	13070622-024B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>7/25/2013</b>	Analyst: <b>JG</b>
Lead	380	4.8		mg/Kg-dry	100	7/25/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: August 02, 2013

Print Date: August 02, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-469-02(6-15)-071113
<b>Lab Order:</b> 13070622	<b>Tag Number:</b>
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 7/11/2013 4:55:00 PM
<b>Lab ID:</b> 13070622-025A	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>				Prep Date: 7/18/2013	Analyst: LB
Mercury	1.2	0.19		mg/Kg-dry	10	7/19/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: 7/16/2013	Analyst: JG
Antimony	4.1	3.8	J	mg/Kg-dry	20	7/18/2013
Cadmium	1.2	0.95		mg/Kg-dry	20	7/18/2013
Chromium	14	1.9		mg/Kg-dry	20	7/18/2013
Copper	190	4.7		mg/Kg-dry	20	7/18/2013
Lead	330	0.95		mg/Kg-dry	20	7/18/2013
Tin	40	9.5	*	mg/Kg-dry	20	7/18/2013
Zinc	250	9.5		mg/Kg-dry	20	7/18/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: 7/16/2013	Analyst: SDA
Percent Moisture	11.0	0.2	*	wt%	1	7/17/2013

JG  
8/8/13

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded



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Report Date: August 02, 2013

Print Date: August 02, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-469-02(6-15)-071113
<b>Lab Order:</b>	13070622	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	7/11/2013 4:55:00 PM
<b>Lab ID:</b>	13070622-025B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>7/25/2013</b>	Analyst: <b>JG</b>
Lead	480	4.8		mg/Kg-dry	100	7/25/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: August 02, 2013

Print Date: August 02, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-469-03(6-15)-071113
<b>Lab Order:</b>	13070622	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	7/11/2013 5:00:00 PM
<b>Lab ID:</b>	13070622-026A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>				Prep Date: 7/18/2013	Analyst: <b>LB</b>
Mercury	0.5	0.022		mg/Kg-dry	1	7/19/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: 7/16/2013	Analyst: <b>JG</b>
Antimony	ND	4.4		mg/Kg-dry	20	7/18/2013
Cadmium	1.1	1.1		mg/Kg-dry	20	7/18/2013
Chromium	15	2.2		mg/Kg-dry	20	7/18/2013
Copper	90	5.5		mg/Kg-dry	20	7/18/2013
Lead	560	1.1		mg/Kg-dry	20	7/18/2013
Tin	24	11	*	mg/Kg-dry	20	7/18/2013
Zinc	270	11		mg/Kg-dry	20	7/18/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: 7/16/2013	Analyst: <b>SDA</b>
Percent Moisture	11.9	0.2	*	wt%	1	7/17/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: August 02, 2013

Print Date: August 02, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-469-03(6-15)-071113
<b>Lab Order:</b>	13070622	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	7/11/2013 5:00:00 PM
<b>Lab ID:</b>	13070622-026B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: 7/25/2013	Analyst: JG
Lead	340	4.8		mg/Kg-dry	100	7/25/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: August 02, 2013

Print Date: August 02, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-469-03(6-15)-071113D
<b>Lab Order:</b>	13070622	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	7/11/2013 5:05:00 PM
<b>Lab ID:</b>	13070622-027A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>		Prep Date: <b>7/18/2013</b>		Analyst: <b>LB</b>	
Mercury	0.57	0.021		mg/Kg-dry	1	7/19/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>		Prep Date: <b>7/16/2013</b>		Analyst: <b>JG</b>	
Antimony	ND	4.4		mg/Kg-dry	20	7/18/2013
Cadmium	1.2	1.1		mg/Kg-dry	20	7/18/2013
Chromium	16	2.2		mg/Kg-dry	20	7/18/2013
Copper	86	5.5		mg/Kg-dry	20	7/18/2013
Lead	250	1.1		mg/Kg-dry	20	7/18/2013
Tin	26	11	*	mg/Kg-dry	20	7/18/2013
Zinc	290	11		mg/Kg-dry	20	7/18/2013
<b>Percent Moisture</b>	<b>D2974</b>		Prep Date: <b>7/16/2013</b>		Analyst: <b>SDA</b>	
Percent Moisture	10.6	0.2	*	wt%	1	7/17/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: August 02, 2013

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<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-469-03(6-15)-071113D
<b>Lab Order:</b>	13070622	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	7/11/2013 5:05:00 PM
<b>Lab ID:</b>	13070622-027B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: <b>7/25/2013</b>	Analyst: <b>JG</b>
Lead	370	4.8		mg/Kg-dry	100	7/25/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: August 02, 2013

Print Date: August 02, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-483-01(0-6)-071213
<b>Lab Order:</b>	13070622	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	7/12/2013 9:55:00 AM
<b>Lab ID:</b>	13070622-028A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>				Prep Date: <b>7/18/2013</b>	Analyst: <b>LB</b>
Mercury	0.074	0.021		mg/Kg-dry	1	7/19/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>7/16/2013</b>	Analyst: <b>JG</b>
Antimony	ND	4.1		mg/Kg-dry	20	7/18/2013
Cadmium	1.2	1		mg/Kg-dry	20	7/18/2013
Chromium	17	2		mg/Kg-dry	20	7/18/2013
Copper	35	5.1		mg/Kg-dry	20	7/18/2013
Lead	200	1		mg/Kg-dry	20	7/18/2013
Tin	ND	10	*	mg/Kg-dry	20	7/18/2013
Zinc	180	10		mg/Kg-dry	20	7/18/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: <b>7/16/2013</b>	Analyst: <b>SDA</b>
Percent Moisture	9.7	0.2	*	wt%	1	7/17/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Report Date: August 02, 2013

Print Date: August 02, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-483-01(0-6)-071213
<b>Lab Order:</b>	13070622	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	7/12/2013 9:55:00 AM
<b>Lab ID:</b>	13070622-028B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: 7/25/2013	Analyst: JG
Lead	320	5		mg/Kg-dry	100	7/25/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
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Report Date: August 02, 2013

Print Date: August 02, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-483-01(6-24)-071213
<b>Lab Order:</b>	13070622	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	7/12/2013 10:00:00 AM
<b>Lab ID:</b>	13070622-029A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>				Prep Date: <b>7/18/2013</b>	Analyst: <b>LB</b>
Mercury	0.061	0.02		mg/Kg-dry	1	7/19/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>7/16/2013</b>	Analyst: <b>JG</b>
Antimony	ND	4		mg/Kg-dry	20	7/18/2013
Cadmium	ND	1		mg/Kg-dry	20	7/18/2013
Chromium	11	2		mg/Kg-dry	20	7/18/2013
Copper	17	5		mg/Kg-dry	20	7/18/2013
Lead	140	1		mg/Kg-dry	20	7/18/2013
Tin	ND	10	*	mg/Kg-dry	20	7/18/2013
Zinc	120	10		mg/Kg-dry	20	7/18/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: <b>7/16/2013</b>	Analyst: <b>SDA</b>
Percent Moisture	6.6	0.2	*	wt%	1	7/17/2013

**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
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Report Date: August 02, 2013

Print Date: August 02, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-483-01(6-24)-071213
<b>Lab Order:</b>	13070622	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	7/12/2013 10:00:00 AM
<b>Lab ID:</b>	13070622-029B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: 7/25/2013	Analyst: JG
Lead	220	4.8		mg/Kg-dry	100	7/25/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
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Report Date: August 02, 2013

Print Date: August 02, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-484-01(0-6)-071213
<b>Lab Order:</b> 13070622	<b>Tag Number:</b>
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 7/12/2013 11:40:00 AM
<b>Lab ID:</b> 13070622-030A	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>					Prep Date: 7/18/2013 Analyst: LB
Mercury	4.6	0.23		mg/Kg-dry	10	7/19/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>					Prep Date: 7/16/2013 Analyst: JG
Antimony	5.4 J	4.8		mg/Kg-dry	20	7/18/2013
Cadmium	75	1.2		mg/Kg-dry	20	7/18/2013
Chromium	770	2.4		mg/Kg-dry	20	7/18/2013
Copper	740	6		mg/Kg-dry	20	7/18/2013
Lead	1700	1.2		mg/Kg-dry	20	7/18/2013
Tin	110	12	*	mg/Kg-dry	20	7/18/2013
Zinc	2300	12		mg/Kg-dry	20	7/18/2013
<b>Percent Moisture</b>	<b>D2974</b>					Prep Date: 7/16/2013 Analyst: SDA
Percent Moisture	20.3	0.2	*	wt%	1	7/17/2013

29  
8/8/13

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: August 02, 2013

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<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-484-01(0-6)-071213
<b>Lab Order:</b>	13070622	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	7/12/2013 11:40:00 AM
<b>Lab ID:</b>	13070622-030B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: 7/25/2013	Analyst: JG
Lead	2500	5		mg/Kg-dry	100	7/25/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
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Report Date: August 02, 2013

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<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-484-01(6-18)-071213
<b>Lab Order:</b>	13070622	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	7/12/2013 11:45:00 AM
<b>Lab ID:</b>	13070622-031A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>				Prep Date: 7/18/2013	Analyst: LB
Mercury	1.6	0.21		mg/Kg-dry	10	7/19/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: 7/16/2013	Analyst: JG
Antimony	9.9 J	4.5		mg/Kg-dry	20	7/18/2013
Cadmium	21 J	1.1		mg/Kg-dry	20	7/18/2013
Chromium	91	2.3		mg/Kg-dry	20	7/19/2013
Copper	580	5.7		mg/Kg-dry	20	7/19/2013
Lead	4300	1.1		mg/Kg-dry	20	7/18/2013
Tin	180	11	*	mg/Kg-dry	20	7/18/2013
Zinc	3700	110		mg/Kg-dry	200	7/18/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: 7/16/2013	Analyst: SDA
Percent Moisture	15.8	0.2	*	wt%	1	7/17/2013

23  
8/8/13

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: August 02, 2013

Print Date: August 02, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-484-01(6-18)-071213
<b>Lab Order:</b>	13070622	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	7/12/2013 11:45:00 AM
<b>Lab ID:</b>	13070622-031B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>7/25/2013</b>	Analyst: <b>JG</b>
Lead	5500	4.7		mg/Kg-dry	100	7/25/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
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<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-485-01(0-6)-071213
<b>Lab Order:</b>	13070622	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	7/12/2013 1:30:00 PM
<b>Lab ID:</b>	13070622-032A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>				Prep Date: <b>7/18/2013</b>	Analyst: <b>LB</b>
Mercury	0.29	0.022		mg/Kg-dry	1	7/19/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>7/16/2013</b>	Analyst: <b>JG</b>
Antimony	ND	4.8		mg/Kg-dry	20	7/18/2013
Cadmium	1.8	1.2		mg/Kg-dry	20	7/18/2013
Chromium	21	2.4		mg/Kg-dry	20	7/18/2013
Copper	100	6		mg/Kg-dry	20	7/18/2013
Lead	510	1.2		mg/Kg-dry	20	7/18/2013
Tin	ND	12	*	mg/Kg-dry	20	7/18/2013
Zinc	390	12		mg/Kg-dry	20	7/18/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: <b>7/16/2013</b>	Analyst: <b>SDA</b>
Percent Moisture	20.2	0.2	*	wt%	1	7/17/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: August 02, 2013

Print Date: August 02, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-485-01(0-6)-071213
<b>Lab Order:</b>	13070622	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	7/12/2013 1:30:00 PM
<b>Lab ID:</b>	13070622-032B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: 7/25/2013	Analyst: JG
Lead	650	4.7		mg/Kg-dry	100	7/25/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: August 02, 2013

Print Date: August 02, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-486-01(0-6)-071213
<b>Lab Order:</b>	13070622	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	7/12/2013 2:40:00 PM
<b>Lab ID:</b>	13070622-033A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>				Prep Date: <b>7/18/2013</b>	Analyst: <b>LB</b>
Mercury	0.37	0.023		mg/Kg-dry	1	7/19/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>7/16/2013</b>	Analyst: <b>JG</b>
Antimony	ND	4.7		mg/Kg-dry	20	7/18/2013
Cadmium	4.4	1.2		mg/Kg-dry	20	7/18/2013
Chromium	32	2.4		mg/Kg-dry	20	7/18/2013
Copper	130	5.9		mg/Kg-dry	20	7/18/2013
Lead	880	1.2		mg/Kg-dry	20	7/18/2013
Tin	26	12	*	mg/Kg-dry	20	7/18/2013
Zinc	840	12		mg/Kg-dry	20	7/18/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: <b>7/16/2013</b>	Analyst: <b>SDA</b>
Percent Moisture	24.4	0.2	*	wt%	1	7/17/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded



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Report Date: August 02, 2013

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<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-486-01(0-6)-071213
<b>Lab Order:</b>	13070622	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	7/12/2013 2:40:00 PM
<b>Lab ID:</b>	13070622-033B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: 7/25/2013	Analyst: JG
Lead	1100	5.4		mg/Kg-dry	100	7/25/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: August 02, 2013

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<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-486-01(6-24)-071213
<b>Lab Order:</b>	13070622	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	7/12/2013 2:45:00 PM
<b>Lab ID:</b>	13070622-034A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>		Prep Date: <b>7/18/2013</b>		Analyst: <b>LB</b>	
Mercury	0.59	0.025		mg/Kg-dry	1	7/19/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>		Prep Date: <b>7/16/2013</b>		Analyst: <b>JG</b>	
Antimony	ND	5.2		mg/Kg-dry	20	7/18/2013
Cadmium	5.3	1.3		mg/Kg-dry	20	7/18/2013
Chromium	31	2.6		mg/Kg-dry	20	7/18/2013
Copper	160	6.5		mg/Kg-dry	20	7/18/2013
Lead	1100	1.3		mg/Kg-dry	20	7/18/2013
Tin	33	13	*	mg/Kg-dry	20	7/18/2013
Zinc	1000	13		mg/Kg-dry	20	7/18/2013
<b>Percent Moisture</b>	<b>D2974</b>		Prep Date: <b>7/16/2013</b>		Analyst: <b>SDA</b>	
Percent Moisture	27.4	0.2	*	wt%	1	7/17/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
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<b>Lab Order:</b>	13070622	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	7/12/2013 2:45:00 PM
<b>Lab ID:</b>	13070622-034B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: <b>7/25/2013</b>	Analyst: <b>JG</b>
Lead	1200	11		mg/Kg-dry	100	7/25/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

**STAT Analysis Corporation**

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Report Date: August 02, 2013

Print Date: August 02, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-48601(6-24)-071213D
<b>Lab Order:</b>	13070622	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	7/12/2013 2:50:00 PM
<b>Lab ID:</b>	13070622-035A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>				Prep Date: <b>7/18/2013</b>	Analyst: <b>LB</b>
Mercury	0.4	0.022		mg/Kg-dry	1	7/19/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>7/16/2013</b>	Analyst: <b>JG</b>
Antimony	ND	4.5		mg/Kg-dry	20	7/18/2013
Cadmium	5.2	1.1		mg/Kg-dry	20	7/18/2013
Chromium	28	2.3		mg/Kg-dry	20	7/18/2013
Copper	160	5.6		mg/Kg-dry	20	7/18/2013
Lead	960	1.1		mg/Kg-dry	20	7/18/2013
Tin	29	11	*	mg/Kg-dry	20	7/18/2013
Zinc	1000	11		mg/Kg-dry	20	7/18/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: <b>7/16/2013</b>	Analyst: <b>SDA</b>
Percent Moisture	25.8	0.2	*	wt%	1	7/17/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: August 02, 2013

Print Date: August 02, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-48601(6-24)-071213D
<b>Lab Order:</b>	13070622	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	7/12/2013 2:50:00 PM
<b>Lab ID:</b>	13070622-035B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: <b>7/25/2013</b>	Analyst: <b>JG</b>
Lead	1100	9.5		mg/Kg-dry	100	7/25/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

**PILSEN AREA SOIL SITE  
CHICAGO, ILLINOIS  
DATA VALIDATION REPORT**

**Date:** August 8, 2013

**Laboratory:** STAT Analysis Corporation (STAT), Chicago, Illinois

**Laboratory Project #:** 13070839

**Data Validation Performed By:** Lisa Graczyk, Weston Solutions, Inc. (WESTON<sup>®</sup>) Superfund Technical Assessment and Response Team (START)

**Analytical TDD and Work Order #:** S05-0001-1211-003/20405.016.001.2038.00

This data validation report has been prepared by WESTON START under the START III Region V contract. This report documents the data validation for 11 soil samples collected for the Pilsen Area Soil Site that were analyzed for the following parameters and U.S. Environmental Protection Agency methods:

- Total Metals by SW-846 Methods 6020 and 7471A
- Fine Grained Lead by SW-846 Method 6020
- Moisture Content by ASTM D2974

A level II data package was requested from STAT. The data validation was conducted in general accordance with the EPA "Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review" dated January 2010. The Attachment contains the results summary sheets with the hand-written qualifiers applied during data validation.

**TOTAL METALS AND FINE GRAINED LEAD BY EPA SW-846 METHODS 6020 AND 7471A**

**1. Samples**

Attachment A summarizes the samples for which this data validation is being conducted. It includes the laboratory sample identification, the WESTON START sample identification, and the date and time of sample collection.

**2. Holding Times**

The samples were analyzed within the required holding time limit of 28 days for mercury and 180 days from sample collection to analysis for all other metals.

### 3. **Blank Results**

Method blanks were analyzed with the metals analyses. The blanks contained no metals contamination above the reporting limits. There were detections of some metals below the reporting limits in the blanks. However, the sample results were much greater or contained no detections of these metals. No qualifications were required.

### 4. **Laboratory Control Sample (LCS) Results**

The LCS recoveries were within the quality control (QC) limits except for as follows.

In one LCS, antimony was detected high. Detected antimony results were flagged “J” as estimated.

### 5. **Matrix Spike (MS) and MS Duplicate (MSD) Results**

STAT analyzed several site-specific MS/MSDs. The percent recoveries and relative percent differences (RPD) were within QC limits except for as follows.

In many instances of QC limits not being met, the sample concentration was more than four times the spike amount. In these instances, no qualifications were required.

In the MS and MSD of sample PA-127-01(6-21)-0711613, antimony had a low recovery. In this sample, the quantitation limit was flagged “UJ” as estimated.

### 6. **Field Duplicate Results**

There is one field duplicate sample associated with this work order that is identified by a “D” suffix in the sample name.

The field duplicate results were evaluated by calculating the RPDs between the investigative and field duplicate sample results. There is no established QC limit for RPD for field duplicates; however, 50 RPD is generally used for evaluation. Most of the RPDs for detected metals were below 50 which is acceptable.

The exceptions were cadmium and lead in field duplicate PA-122-01(18-24)-071513D which had RPDs of 54 and 61, respectively. These two higher RPDs indicate minor sample heterogeneity. However, in general the field duplicate results agreed well with the investigative sample results.

7. **Overall Assessment**

The metals data are acceptable for use as qualified based on the information received.

**GENERAL CHEMISTRY PARAMETER (Moisture Content by ASTM D2974)**

1. **Samples**

Attachment A summarizes the samples for which this data validation is being conducted. It includes the laboratory sample identification, the WESTON START sample identification, and the date and time of sample collection.

2. **Holding Times**

The holding time for moisture is 28 days. The holding time for moisture was met.

3. **Blank Results**

Method blanks were analyzed with the moisture analyses and were all non-detect for moisture which is acceptable.

4. **LCS Results**

LCSs were analyzed with the moisture analyses. The LCS recoveries were within the QC limits.

5. **Laboratory Duplicates**

Laboratory duplicates were analyzed with the moisture analyses. The RPDs were within QC limits.

6. **Field Duplicate Results**

There are three field duplicate samples associated with this work order that are identified by a "D" suffix in the sample name.

The field duplicate results were evaluated by calculating the RPDs between the investigative and field duplicate sample results. The RPDs were below 50 which is acceptable.

7. **Overall Assessment**

The moisture data are acceptable for use based on the information received.



Data Validation Report  
Pilsen Area Soil Site  
STAT Analysis Corporation  
Laboratory Project #: 13070839

**ATTACHMENT A**  
**SAMPLE LIST**

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**Client:** Weston Solutions  
**Project:** Pilsen Soil Site, Pilsen, Chicago, IL  
**Lab Order:** 13070839

**Work Order Sample Summary**

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Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
13070839-001A	PA-276-01(6-18)-071513		7/15/2013 10:00:00 AM	7/16/2013
13070839-001B	PA-276-01(6-18)-071513	Fine Grained	7/15/2013 10:00:00 AM	7/16/2013
13070839-002A	PA-276-01(18-24)-071513		7/15/2013 10:05:00 AM	7/16/2013
13070839-002B	PA-276-01(18-24)-071513	Fine Grained	7/15/2013 10:05:00 AM	7/16/2013
13070839-003A	PA-487-01(0-6)-071513		7/15/2013 11:50:00 AM	7/16/2013
13070839-003B	PA-487-01(0-6)-071513	Fine Grained	7/15/2013 11:50:00 AM	7/16/2013
13070839-004A	PA-488-01(0-6)-071513		7/15/2013 2:00:00 PM	7/16/2013
13070839-004B	PA-488-01(0-6)-071513	Fine Grained	7/15/2013 2:00:00 PM	7/16/2013
13070839-005A	PA-122-01(6-18)-071513		7/15/2013 3:25:00 PM	7/16/2013
13070839-005B	PA-122-01(6-18)-071513	Fine Grained	7/15/2013 3:25:00 PM	7/16/2013
13070839-006A	PA-122-01(18-24)-071513		7/15/2013 3:30:00 PM	7/16/2013
13070839-006B	PA-122-01(18-24)-071513	Fine Grained	7/15/2013 3:30:00 PM	7/16/2013
13070839-007A	PA-122-01(18-24)-071513D		7/15/2013 3:35:00 PM	7/16/2013
13070839-007B	PA-122-01(18-24)-071513D	Fine Grained	7/15/2013 3:35:00 PM	7/16/2013
13070839-008A	PA-104-01(6-12)-071613		7/16/2013 9:00:00 AM	7/16/2013
13070839-008B	PA-104-01(6-12)-071613	Fine Grained	7/16/2013 9:00:00 AM	7/16/2013
13070839-009A	PA-104-01(12-24)-071613		7/16/2013 9:05:00 AM	7/16/2013
13070839-009B	PA-104-01(12-24)-071613	Fine Grained	7/16/2013 9:05:00 AM	7/16/2013
13070839-010A	PA-349-03(6-14)-071613		7/16/2013 10:10:00 AM	7/16/2013
13070839-010B	PA-349-03(6-14)-071613	Fine Grained	7/16/2013 10:10:00 AM	7/16/2013
13070839-011A	PA-127-01(6-21)-071613		7/16/2013 2:30:00 PM	7/16/2013
13070839-011B	PA-127-01(6-21)-071613	Fine Grained	7/16/2013 2:30:00 PM	7/16/2013

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Data Validation Report  
Pilsen Area Soil Site  
STAT Analysis Corporation  
Laboratory Project #: 13070839

**ATTACHMENT B**

**STAT ANALYSIS CORPORATION  
RESULTS SUMMARY WITH QUALIFIERS**

**STAT Analysis Corporation**

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Report Date: August 01, 2013

Print Date: August 01, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-276-01(6-18)-071513
<b>Lab Order:</b> 13070839	<b>Tag Number:</b>
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 7/15/2013 10:00:00 AM
<b>Lab ID:</b> 13070839-001A	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>					Prep Date: 7/22/2013 Analyst: LB
Mercury	0.72	0.022		mg/Kg-dry	1	7/22/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>					Prep Date: 7/26/2013 Analyst: JG
Antimony	6.6 J	5.2		mg/Kg-dry	20	7/26/2013
Cadmium	13	1.3		mg/Kg-dry	20	7/26/2013
Chromium	ND	26		mg/Kg-dry	200	7/26/2013
Copper	1100	6.6		mg/Kg-dry	20	7/26/2013
Lead	1700	1.3		mg/Kg-dry	20	7/26/2013
Tin	130	13	*	mg/Kg-dry	20	7/26/2013
Zinc	4700	130		mg/Kg-dry	200	7/26/2013
<b>Percent Moisture</b>	<b>D2974</b>					Prep Date: 7/22/2013 Analyst: RW
Percent Moisture	24.0	0.2	*	wt%	1	7/23/2013

24  
8/8/13

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Report Date: August 01, 2013

Print Date: August 01, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-276-01(6-18)-071513
<b>Lab Order:</b>	13070839	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	7/15/2013 10:00:00 AM
<b>Lab ID:</b>	13070839-001B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: <b>8/1/2013</b>	Analyst: <b>JG</b>
Lead	2000	4.9		mg/Kg-dry	100	8/1/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Report Date: August 01, 2013

Print Date: August 01, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-276-01(18-24)-071513
<b>Lab Order:</b> 13070839	<b>Tag Number:</b>
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 7/15/2013 10:05:00 AM
<b>Lab ID:</b> 13070839-002A	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>				Prep Date: 7/22/2013	Analyst: LB
Mercury	0.33	0.026		mg/Kg-dry	1	7/22/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: 7/26/2013	Analyst: JG
Antimony	5.5 J	4.9		mg/Kg-dry	20	7/26/2013
Cadmium	4.3	1.2		mg/Kg-dry	20	7/26/2013
Chromium	ND	24		mg/Kg-dry	200	7/26/2013
Copper	370	6.1		mg/Kg-dry	20	7/26/2013
Lead	550	1.2		mg/Kg-dry	20	7/26/2013
Tin	440	12	*	mg/Kg-dry	20	7/26/2013
Zinc	1600	120		mg/Kg-dry	200	7/26/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: 7/22/2013	Analyst: RW
Percent Moisture	23.3	0.2	*	wt%	1	7/23/2013

28  
8/8/13

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: August 01, 2013

Print Date: August 01, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-276-01(18-24)-071513
<b>Lab Order:</b>	13070839	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	7/15/2013 10:05:00 AM
<b>Lab ID:</b>	13070839-002B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>8/1/2013</b>	Analyst: <b>JG</b>
Lead	480	5.3		mg/Kg-dry	100	8/1/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Report Date: August 01, 2013

Print Date: August 01, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-487-01(0-6)-071513
<b>Lab Order:</b>	13070839	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	7/15/2013 11:50:00 AM
<b>Lab ID:</b>	13070839-003A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>				Prep Date: <b>7/22/2013</b>	Analyst: <b>LB</b>
Mercury	0.58	0.022		mg/Kg-dry	1	7/22/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>7/26/2013</b>	Analyst: <b>JG</b>
Antimony	ND	5		mg/Kg-dry	20	7/26/2013
Cadmium	3.1	1.3		mg/Kg-dry	20	7/26/2013
Chromium	ND	25		mg/Kg-dry	200	7/26/2013
Copper	140	6.3		mg/Kg-dry	20	7/26/2013
Lead	1400	1.3		mg/Kg-dry	20	7/26/2013
Tin	65	13	*	mg/Kg-dry	20	7/26/2013
Zinc	600	130		mg/Kg-dry	200	7/26/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: <b>7/22/2013</b>	Analyst: <b>RW</b>
Percent Moisture	25.1	0.2	*	wt%	1	7/23/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded



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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Report Date: August 01, 2013

Print Date: August 01, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-487-01(0-6)-071513
<b>Lab Order:</b>	13070839	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	7/15/2013 11:50:00 AM
<b>Lab ID:</b>	13070839-003B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>8/1/2013</b>	Analyst: <b>JG</b>
Lead	770	4.7		mg/Kg-dry	100	8/1/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Report Date: August 01, 2013

Print Date: August 01, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-488-01(0-6)-071513
<b>Lab Order:</b>	13070839	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	7/15/2013 2:00:00 PM
<b>Lab ID:</b>	13070839-004A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>				Prep Date: <b>7/22/2013</b>	Analyst: <b>LB</b>
Mercury	0.27	0.02		mg/Kg-dry	1	7/22/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>7/26/2013</b>	Analyst: <b>JG</b>
Antimony	ND	4.7		mg/Kg-dry	20	7/26/2013
Cadmium	1.7	1.2		mg/Kg-dry	20	7/26/2013
Chromium	ND	24		mg/Kg-dry	200	7/26/2013
Copper	56	5.9		mg/Kg-dry	20	7/26/2013
Lead	410	1.2		mg/Kg-dry	20	7/26/2013
Tin	17	12	*	mg/Kg-dry	20	7/26/2013
Zinc	390	120		mg/Kg-dry	200	7/26/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: <b>7/22/2013</b>	Analyst: <b>RW</b>
Percent Moisture	15.2	0.2	*	wt%	1	7/23/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

**STAT Analysis Corporation**

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Report Date: August 01, 2013

Print Date: August 01, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-488-01(0-6)-071513
<b>Lab Order:</b>	13070839	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	7/15/2013 2:00:00 PM
<b>Lab ID:</b>	13070839-004B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>8/1/2013</b>	Analyst: <b>JG</b>
Lead	790	4.8		mg/Kg-dry	100	8/1/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: August 01, 2013

Print Date: August 01, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-122-01(6-18)-071513
<b>Lab Order:</b>	13070839	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	7/15/2013 3:25:00 PM
<b>Lab ID:</b>	13070839-005A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>				Prep Date: <b>7/22/2013</b>	Analyst: <b>LB</b>
Mercury	1.4	0.13		mg/Kg-dry	5	7/22/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>7/26/2013</b>	Analyst: <b>JG</b>
Antimony	ND	4.9		mg/Kg-dry	20	7/26/2013
Cadmium	9.2	1.2		mg/Kg-dry	20	7/26/2013
Chromium	ND	25		mg/Kg-dry	200	7/26/2013
Copper	590	6.2		mg/Kg-dry	20	7/26/2013
Lead	1900	1.2		mg/Kg-dry	20	7/26/2013
Tin	130	12	*	mg/Kg-dry	20	7/26/2013
Zinc	2600	120		mg/Kg-dry	200	7/26/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: <b>7/22/2013</b>	Analyst: <b>RW</b>
Percent Moisture	24.2	0.2	*	wt%	1	7/23/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: August 01, 2013

Print Date: August 01, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-122-01(6-18)-071513
<b>Lab Order:</b>	13070839	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	7/15/2013 3:25:00 PM
<b>Lab ID:</b>	13070839-005B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: <b>8/1/2013</b>	Analyst: <b>JG</b>
Lead	1600	4.8		mg/Kg-dry	100	8/1/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
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	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: August 01, 2013

Print Date: August 01, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-122-01(18-24)-071513
<b>Lab Order:</b>	13070839	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	7/15/2013 3:30:00 PM
<b>Lab ID:</b>	13070839-006A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>				Prep Date: <b>7/22/2013</b>	Analyst: <b>LB</b>
Mercury	1.3	0.24		mg/Kg-dry	10	7/22/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>7/26/2013</b>	Analyst: <b>JG</b>
Antimony	ND	5		mg/Kg-dry	20	7/26/2013
Cadmium	2.6	1.2		mg/Kg-dry	20	7/26/2013
Chromium	ND	25		mg/Kg-dry	200	7/26/2013
Copper	110	6.2		mg/Kg-dry	20	7/26/2013
Lead	470	1.2		mg/Kg-dry	20	7/26/2013
Tin	32	12	*	mg/Kg-dry	20	7/26/2013
Zinc	710	120		mg/Kg-dry	200	7/26/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: <b>7/22/2013</b>	Analyst: <b>RW</b>
Percent Moisture	20.4	0.2	*	wt%	1	7/23/2013

**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Report Date: August 01, 2013

Print Date: August 01, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-122-01(18-24)-071513
<b>Lab Order:</b>	13070839	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	7/15/2013 3:30:00 PM
<b>Lab ID:</b>	13070839-006B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: <b>8/1/2013</b>	Analyst: <b>JG</b>
Lead	420	6.9		mg/Kg-dry	100	8/1/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: August 01, 2013

Print Date: August 01, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-122-01(18-24)-071513D
<b>Lab Order:</b>	13070839	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	7/15/2013 3:35:00 PM
<b>Lab ID:</b>	13070839-007A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>				Prep Date: <b>7/22/2013</b>	Analyst: <b>LB</b>
Mercury	0.86	0.1		mg/Kg-dry	5	7/22/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>7/26/2013</b>	Analyst: <b>JG</b>
Antimony	ND	4.6		mg/Kg-dry	20	7/26/2013
Cadmium	1.5	1.1		mg/Kg-dry	20	7/26/2013
Chromium	ND	23		mg/Kg-dry	200	7/26/2013
Copper	75	5.7		mg/Kg-dry	20	7/26/2013
Lead	250	1.1		mg/Kg-dry	20	7/26/2013
Tin	22	11	*	mg/Kg-dry	20	7/26/2013
Zinc	430	110		mg/Kg-dry	200	7/26/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: <b>7/22/2013</b>	Analyst: <b>RW</b>
Percent Moisture	19.9	0.2	*	wt%	1	7/23/2013

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 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded



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Report Date: August 01, 2013

Print Date: August 01, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-122-01(18-24)-071513D
<b>Lab Order:</b>	13070839	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	7/15/2013 3:35:00 PM
<b>Lab ID:</b>	13070839-007B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: <b>8/1/2013</b>	Analyst: <b>JG</b>
Lead	440	5.3		mg/Kg-dry	100	8/1/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: August 01, 2013

Print Date: August 01, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-104-01(6-12)-071613
<b>Lab Order:</b>	13070839	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	7/16/2013 9:00:00 AM
<b>Lab ID:</b>	13070839-008A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>				Prep Date: <b>7/22/2013</b>	Analyst: <b>LB</b>
Mercury	0.9	0.1		mg/Kg-dry	5	7/22/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>7/26/2013</b>	Analyst: <b>JG</b>
Antimony	ND	4.6		mg/Kg-dry	20	7/26/2013
Cadmium	5.8	1.1		mg/Kg-dry	20	7/26/2013
Chromium	ND	23		mg/Kg-dry	200	7/26/2013
Copper	190	5.7		mg/Kg-dry	20	7/26/2013
Lead	1200	1.1		mg/Kg-dry	20	7/26/2013
Tin	68	11	*	mg/Kg-dry	20	7/26/2013
Zinc	1100	110		mg/Kg-dry	200	7/26/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: <b>7/22/2013</b>	Analyst: <b>RW</b>
Percent Moisture	18.1	0.2	*	wt%	1	7/23/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: August 01, 2013

Print Date: August 01, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-104-01(6-12)-071613
<b>Lab Order:</b>	13070839	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	7/16/2013 9:00:00 AM
<b>Lab ID:</b>	13070839-008B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>8/1/2013</b>	Analyst: <b>JG</b>
Lead	890	4.8		mg/Kg-dry	100	8/1/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: August 01, 2013

Print Date: August 01, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-104-01(12-24)-071613
<b>Lab Order:</b>	13070839	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	7/16/2013 9:05:00 AM
<b>Lab ID:</b>	13070839-009A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>		Prep Date: <b>7/22/2013</b>		Analyst: <b>LB</b>	
Mercury	0.31	0.019		mg/Kg-dry	1	7/22/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>		Prep Date: <b>7/26/2013</b>		Analyst: <b>JG</b>	
Antimony	ND	4.7		mg/Kg-dry	20	7/26/2013
Cadmium	4.9	1.2		mg/Kg-dry	20	7/26/2013
Chromium	ND	24		mg/Kg-dry	200	7/26/2013
Copper	67	5.9		mg/Kg-dry	20	7/26/2013
Lead	500	1.2		mg/Kg-dry	20	7/26/2013
Tin	17	12	*	mg/Kg-dry	20	7/26/2013
Zinc	630	120		mg/Kg-dry	200	7/26/2013
<b>Percent Moisture</b>	<b>D2974</b>		Prep Date: <b>7/22/2013</b>		Analyst: <b>RW</b>	
Percent Moisture	16.7	0.2	*	wt%	1	7/23/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: August 01, 2013

Print Date: August 01, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-104-01(12-24)-071613
<b>Lab Order:</b>	13070839	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	7/16/2013 9:05:00 AM
<b>Lab ID:</b>	13070839-009B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>8/1/2013</b>	Analyst: <b>JG</b>
Lead	470	6.6		mg/Kg-dry	100	8/1/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: August 01, 2013

Print Date: August 01, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-349-03(6-14)-071613
<b>Lab Order:</b>	13070839	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	7/16/2013 10:10:00 AM
<b>Lab ID:</b>	13070839-010A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>				Prep Date: <b>7/22/2013</b>	Analyst: <b>LB</b>
Mercury	0.31	0.017		mg/Kg-dry	1	7/22/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>7/26/2013</b>	Analyst: <b>JG</b>
Antimony	ND	4.1		mg/Kg-dry	20	7/26/2013
Cadmium	2	1		mg/Kg-dry	20	7/26/2013
Chromium	ND	20		mg/Kg-dry	200	7/26/2013
Copper	63	5.1		mg/Kg-dry	20	7/26/2013
Lead	680	1		mg/Kg-dry	20	7/26/2013
Tin	14	10	*	mg/Kg-dry	20	7/26/2013
Zinc	390	100		mg/Kg-dry	200	7/26/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: <b>7/22/2013</b>	Analyst: <b>RW</b>
Percent Moisture	8.6	0.2	*	wt%	1	7/23/2013

**Qualifiers:**

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 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Report Date: August 01, 2013

Print Date: August 01, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-349-03(6-14)-071613
<b>Lab Order:</b>	13070839	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	7/16/2013 10:10:00 AM
<b>Lab ID:</b>	13070839-010B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>8/1/2013</b>	Analyst: <b>JG</b>
Lead	990	4.8		mg/Kg-dry	100	8/1/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: August 01, 2013

Print Date: August 01, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-127-01(6-21)-071613
<b>Lab Order:</b> 13070839	<b>Tag Number:</b>
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 7/16/2013 2:30:00 PM
<b>Lab ID:</b> 13070839-011A	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>					Prep Date: 7/22/2013 Analyst: LB
Mercury	2.6	0.24		mg/Kg-dry	10	7/22/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>					Prep Date: 7/26/2013 Analyst: JG
Antimony	ND	4.4	UJ	mg/Kg-dry	20	7/26/2013
Cadmium	7.9	1.1		mg/Kg-dry	20	7/26/2013
Chromium	21	2.2		mg/Kg-dry	20	7/26/2013
Copper	420	5.5		mg/Kg-dry	20	7/26/2013
Lead	2500	1.1		mg/Kg-dry	20	7/26/2013
Tin	67	11	*	mg/Kg-dry	20	7/26/2013
Zinc	2700	110		mg/Kg-dry	200	7/26/2013
<b>Percent Moisture</b>	<b>D2974</b>					Prep Date: 7/22/2013 Analyst: RW
Percent Moisture	16.3	0.2	*	wt%	1	7/23/2013

  
 8/8/13

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded



**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Report Date: August 01, 2013

Print Date: August 01, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-127-01(6-21)-071613
<b>Lab Order:</b>	13070839	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	7/16/2013 2:30:00 PM
<b>Lab ID:</b>	13070839-011B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: <b>8/1/2013</b>	Analyst: <b>JG</b>
Lead	4200	4.9		mg/Kg-dry	100	8/1/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

**PILSEN AREA SOIL SITE  
CHICAGO, ILLINOIS  
DATA VALIDATION REPORT**

**Date:** September 4, 2013

**Laboratory:** STAT Analysis Corporation (STAT), Chicago, Illinois

**Laboratory Project #:** 13080639

**Data Validation Performed By:** Lisa Graczyk, Weston Solutions, Inc. (WESTON®) Superfund Technical Assessment and Response Team (START)

**Analytical TDD and Work Order #:** S05-0001-1211-003/20405.016.001.2038.00

This data validation report has been prepared by WESTON START under the START III Region V contract. This report documents the data validation for 43 soil samples collected for the Pilsen Area Soil Site that were analyzed for the following parameters and U.S. Environmental Protection Agency methods:

- Total Metals by SW-846 Methods 6020 and 7471A
- Fine Grained Lead by SW-846 Method 6020
- Moisture Content by ASTM D2974

A level II data package was requested from STAT. The data validation was conducted in general accordance with the EPA "Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review" dated January 2010. The Attachment contains the results summary sheets with the hand-written qualifiers applied during data validation.

**TOTAL METALS AND FINE GRAINED LEAD BY EPA SW-846 METHODS 6020 AND 7471A**

**1. Samples**

Attachment A summarizes the samples for which this data validation is being conducted. It includes the laboratory sample identification, the WESTON START sample identification, and the date and time of sample collection.

**2. Holding Times**

The samples were analyzed within the required holding time limit of 28 days for mercury and 180 days from sample collection to analysis for all other metals.

### 3. **Blank Results**

Method blanks were analyzed with the metals analyses. The blanks contained no metals contamination above the reporting limits. There were detections of metals below the reporting limits in the blanks. However, the sample results were much greater or contained no detections of these metals. No qualifications were required.

### 4. **Laboratory Control Sample (LCS) Results**

The LCS recoveries were within the quality control (QC) limits except for as follows.

In one LCS, antimony was detected high. Detected antimony results were flagged “J” as estimated.

### 5. **Matrix Spike (MS) and MS Duplicate (MSD) Results**

STAT analyzed several site-specific MS/MSDs. The percent recoveries and relative percent differences (RPD) were within QC limits except for as follows.

In many instances of QC limits not being met, the sample concentration was more than four times the spike amount. In these instances, no qualifications were required.

In the MS and/or MSD of sample PA-499-01(0-6)-081413, antimony, tin, and mercury had low recoveries. In this sample, the mercury and tin results were flagged “J” and the quantitation limit for antimony was flagged “UJ” as estimated due to potential matrix interference.

In the MS and MSD of sample PA-515-01(0-6)-081613, antimony and mercury had low recoveries and tin had a high recovery. In this sample, the antimony, mercury and tin results were flagged “J” as estimated due to potential matrix interference.

In the MS and MSD of sample PA-516-01(6-18)-081613, antimony had a low recovery and tin had a high recovery. In this sample, the quantitation limit for antimony was flagged “UJ” as estimated due to potential matrix interference. Note that tin did not required qualification because it was not detected in the sample and the high MS/MSD recoveries indicate a high bias.

### 6. **Field Duplicate Results**

There are five field duplicate samples associated with this work order that is identified by a “D” suffix in the sample name.

The field duplicate results were evaluated by calculating the RPDs between the investigative and field duplicate sample results. There is no established QC limit for RPD for field duplicates;

however, 50 RPD is generally used for evaluation. Most of the RPDs for detected metals were below 50 which is acceptable.

There were only two instances where the RPD exceeded 50; chromium in sample PA-491-01(6-18)-081213D and mercury in sample PA-516-01(0-6)-081613D. These two discrepancies are minor and in general the field duplicate results agreed well with the investigative sample results.

## 7. **Overall Assessment**

The metals data are acceptable for use as qualified based on the information received.

### **GENERAL CHEMISTRY PARAMETER (Moisture Content by ASTM D2974)**

#### 1. **Samples**

Attachment A summarizes the samples for which this data validation is being conducted. It includes the laboratory sample identification, the WESTON START sample identification, and the date and time of sample collection.

#### 2. **Holding Times**

The holding time for moisture is 28 days. The holding time for moisture was met.

#### 3. **Blank Results**

Method blanks were analyzed with the moisture analyses and were all non-detect for moisture which is acceptable.

#### 4. **LCS Results**

LCSs were analyzed with the moisture analyses. The LCS recoveries were within the QC limits.

#### 5. **Laboratory Duplicates**

Laboratory duplicates were analyzed with the moisture analyses. The RPDs were within QC limits.

#### 6. **Field Duplicate Results**

There are five field duplicate samples associated with this work order that are identified by a "D" suffix in the sample name.

Data Validation Report  
Pilsen Area Soil Site  
STAT Analysis Corporation  
Laboratory Project #: 13070839

The field duplicate results were evaluated by calculating the RPDs between the investigative and field duplicate sample results. The RPDs were below 50 which is acceptable.

7. **Overall Assessment**

The moisture data are acceptable for use based on the information received.

Data Validation Report  
Pilsen Area Soil Site  
STAT Analysis Corporation  
Laboratory Project #: 13070839

**ATTACHMENT A**  
**SAMPLE LIST**

**Client:** Weston Solutions  
**Project:** Pilsen Soil Site, Pilsen, Chicago, IL  
**Lab Order:** 13080639

**Work Order Sample Summary**

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
13080639-001A	PA-489-01(0-6)-081213		8/12/2013 2:40:00 PM	8/17/2013
13080639-001B	PA-489-01(0-6)-081213	Fine Grained	8/12/2013 2:40:00 PM	8/17/2013
13080639-002A	PA-489-01(6-18)-081213		8/12/2013 2:45:00 PM	8/17/2013
13080639-002B	PA-489-01(6-18)-081213	Fine Grained	8/12/2013 2:45:00 PM	8/17/2013
13080639-003A	PA-490-01(0-6)-081213		8/12/2013 3:30:00 PM	8/17/2013
13080639-003B	PA-490-01(0-6)-081213	Fine Grained	8/12/2013 3:30:00 PM	8/17/2013
13080639-004A	PA-491-01(0-6)-081213		8/12/2013 4:20:00 PM	8/17/2013
13080639-004B	PA-491-01(0-6)-081213	Fine Grained	8/12/2013 4:20:00 PM	8/17/2013
13080639-005A	PA-491-01(6-18)-081213		8/12/2013 4:25:00 PM	8/17/2013
13080639-005B	PA-491-01(6-18)-081213	Fine Grained	8/12/2013 4:25:00 PM	8/17/2013
13080639-006A	PA-491-01(6-18)-081213D		8/12/2013 4:30:00 PM	8/17/2013
13080639-006B	PA-491-01(6-18)-081213D	Fine Grained	8/12/2013 4:30:00 PM	8/17/2013
13080639-007A	PA-492-01(0-6)-081313		8/13/2013 10:00:00 AM	8/17/2013
13080639-007B	PA-492-01(0-6)-081313	Fine Grained	8/13/2013 10:00:00 AM	8/17/2013
13080639-008A	PA-493-01(0-6)-081313		8/13/2013 10:45:00 AM	8/17/2013
13080639-008B	PA-493-01(0-6)-081313	Fine Grained	8/13/2013 10:45:00 AM	8/17/2013
13080639-009A	PA-494-01(0-6)-081313		8/13/2013 12:00:00 PM	8/17/2013
13080639-009B	PA-494-01(0-6)-081313	Fine Grained	8/13/2013 12:00:00 PM	8/17/2013
13080639-010A	PA-495-01(0-6)-081313		8/13/2013 2:00:00 PM	8/17/2013
13080639-010B	PA-495-01(0-6)-081313	Fine Grained	8/13/2013 2:00:00 PM	8/17/2013
13080639-011A	PA-495-01(6-24)-081313		8/13/2013 2:05:00 PM	8/17/2013
13080639-011B	PA-495-01(6-24)-081313	Fine Grained	8/13/2013 2:05:00 PM	8/17/2013
13080639-012A	PA-496-01(0-6)-081313		8/13/2013 3:00:00 PM	8/17/2013
13080639-012B	PA-496-01(0-6)-081313	Fine Grained	8/13/2013 3:00:00 PM	8/17/2013
13080639-013A	PA-497-01(0-6)-081313		8/13/2013 3:50:00 PM	8/17/2013
13080639-013B	PA-497-01(0-6)-081313	Fine Grained	8/13/2013 3:50:00 PM	8/17/2013
13080639-014A	PA-498-01(0-6)-081313		8/13/2013 4:50:00 PM	8/17/2013
13080639-014B	PA-498-01(0-6)-081313	Fine Grained	8/13/2013 4:50:00 PM	8/17/2013
13080639-015A	PA-498-01(0-6)-081313D		8/13/2013 4:55:00 PM	8/17/2013
13080639-015B	PA-498-01(0-6)-081313D	Fine Grained	8/13/2013 4:55:00 PM	8/17/2013
13080639-016A	PA-498-01(6-15)-081313		8/13/2013 5:00:00 PM	8/17/2013
13080639-016B	PA-498-01(6-15)-081313	Fine Grained	8/13/2013 5:00:00 PM	8/17/2013
13080639-017A	PA-499-01(0-6)-081413		8/14/2013 9:45:00 AM	8/17/2013
13080639-017B	PA-499-01(0-6)-081413	Fine Grained	8/14/2013 9:45:00 AM	8/17/2013
13080639-018A	PA-500-01(0-6)-081413		8/14/2013 11:00:00 AM	8/17/2013
13080639-018B	PA-500-01(0-6)-081413	Fine Grained	8/14/2013 11:00:00 AM	8/17/2013
13080639-019A	PA-500-01(6-24)-081413		8/14/2013 11:05:00 AM	8/17/2013
13080639-019B	PA-500-01(6-24)-081413	Fine Grained	8/14/2013 11:05:00 AM	8/17/2013

**Client:** Weston Solutions  
**Project:** Pilsen Soil Site, Pilsen, Chicago, IL  
**Lab Order:** 13080639

## Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
13080639-020A	PA-501-01(0-6)-081413		8/14/2013 12:00:00 PM	8/17/2013
13080639-020B	PA-501-01(0-6)-081413	Fine Grained	8/14/2013 12:00:00 PM	8/17/2013
13080639-021A	PA-502-01(0-6)-081413		8/14/2013 2:00:00 PM	8/17/2013
13080639-021B	PA-502-01(0-6)-081413	Fine Grained	8/14/2013 2:00:00 PM	8/17/2013
13080639-022A	PA-502-01(6-24)-081413		8/14/2013 2:05:00 PM	8/17/2013
13080639-022B	PA-502-01(6-24)-081413	Fine Grained	8/14/2013 2:05:00 PM	8/17/2013
13080639-023A	PA-503-01(0-6)-081413		8/14/2013 3:15:00 PM	8/17/2013
13080639-023B	PA-503-01(0-6)-081413	Fine Grained	8/14/2013 3:15:00 PM	8/17/2013
13080639-024A	PA-503-01(6-24)-081413		8/14/2013 3:20:00 PM	8/17/2013
13080639-024B	PA-503-01(6-24)-081413	Fine Grained	8/14/2013 3:20:00 PM	8/17/2013
13080639-025A	PA-504-01(0-6)-081513		8/15/2013 9:15:00 AM	8/17/2013
13080639-025B	PA-504-01(0-6)-081513	Fine Grained	8/15/2013 9:15:00 AM	8/17/2013
13080639-026A	PA-505-01(0-6)-081513		8/15/2013 10:25:00 AM	8/17/2013
13080639-026B	PA-505-01(0-6)-081513	Fine Grained	8/15/2013 10:25:00 AM	8/17/2013
13080639-027A	PA-505-01(0-6)-081513D		8/15/2013 10:30:00 AM	8/17/2013
13080639-027B	PA-505-01(0-6)-081513D	Fine Grained	8/15/2013 10:30:00 AM	8/17/2013
13080639-028A	PA-506-01(0-6)-081513		8/15/2013 11:40:00 AM	8/17/2013
13080639-028B	PA-506-01(0-6)-081513	Fine Grained	8/15/2013 11:40:00 AM	8/17/2013
13080639-029A	PA-507-01(0-6)-081513		8/15/2013 1:30:00 PM	8/17/2013
13080639-029B	PA-507-01(0-6)-081513	Fine Grained	8/15/2013 1:30:00 PM	8/17/2013
13080639-030A	PA-508-01(0-6)-081513		8/15/2013 2:45:00 PM	8/17/2013
13080639-030B	PA-508-01(0-6)-081513	Fine Grained	8/15/2013 2:45:00 PM	8/17/2013
13080639-031A	PA-508-01(6-24)-081513		8/15/2013 2:50:00 PM	8/17/2013
13080639-031B	PA-508-01(6-24)-081513	Fine Grained	8/15/2013 2:50:00 PM	8/17/2013
13080639-032A	PA-509-01(0-6)-081513		8/15/2013 4:00:00 PM	8/17/2013
13080639-032B	PA-509-01(0-6)-081513	Fine Grained	8/15/2013 4:00:00 PM	8/17/2013
13080639-033A	PA-510-01(0-6)-081513		8/15/2013 4:50:00 PM	8/17/2013
13080639-033B	PA-510-01(0-6)-081513	Fine Grained	8/15/2013 4:50:00 PM	8/17/2013
13080639-034A	PA-511-01(0-6)-081613		8/16/2013 8:30:00 AM	8/17/2013
13080639-034B	PA-511-01(0-6)-081613	Fine Grained	8/16/2013 8:30:00 AM	8/17/2013
13080639-035A	PA-512-01(0-6)-081613		8/16/2013 9:20:00 AM	8/17/2013
13080639-035B	PA-512-01(0-6)-081613	Fine Grained	8/16/2013 9:20:00 AM	8/17/2013
13080639-036A	PA-513-01(0-6)-081613		8/16/2013 9:50:00 AM	8/17/2013
13080639-036B	PA-513-01(0-6)-081613	Fine Grained	8/16/2013 9:50:00 AM	8/17/2013
13080639-037A	PA-513-01(0-6)-081613D		8/16/2013 9:55:00 AM	8/17/2013
13080639-037B	PA-513-01(0-6)-081613D	Fine Grained	8/16/2013 9:55:00 AM	8/17/2013
13080639-038A	PA-514-01(0-6)-081613		8/16/2013 11:25:00 AM	8/17/2013
13080639-038B	PA-514-01(0-6)-081613	Fine Grained	8/16/2013 11:25:00 AM	8/17/2013
13080639-039A	PA-514-01(6-24)-081613		8/16/2013 11:30:00 AM	8/17/2013
13080639-039B	PA-514-01(6-24)-081613	Fine Grained	8/16/2013 11:30:00 AM	8/17/2013



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**Client:** Weston Solutions  
**Project:** Pilsen Soil Site, Pilsen, Chicago, IL  
**Lab Order:** 13080639

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## Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
13080639-040A	PA-515-01(0-6)-081613		8/16/2013 1:30:00 PM	8/17/2013
13080639-040B	PA-515-01(0-6)-081613	Fine Grained	8/16/2013 1:30:00 PM	8/17/2013
13080639-041A	PA-516-01(0-6)-081613		8/16/2013 2:50:00 PM	8/17/2013
13080639-041B	PA-516-01(0-6)-081613	Fine Grained	8/16/2013 2:50:00 PM	8/17/2013
13080639-042A	PA-516-01(0-6)-081613D		8/16/2013 2:55:00 PM	8/17/2013
13080639-042B	PA-516-01(0-6)-081613D	Fine Grained	8/16/2013 2:55:00 PM	8/17/2013
13080639-043A	PA-516-01(6-18)-081613		8/16/2013 3:00:00 PM	8/17/2013
13080639-043B	PA-516-01(6-18)-081613	Fine Grained	8/16/2013 3:00:00 PM	8/17/2013

Data Validation Report  
Pilsen Area Soil Site  
STAT Analysis Corporation  
Laboratory Project #: 13070839

**ATTACHMENT B**

**STAT ANALYSIS CORPORATION  
RESULTS SUMMARY WITH QUALIFIERS**

**STAT** Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

August 26, 2013

Weston Solutions  
750 E. Bunker Court  
Suite 500  
Vernon Hills, IL 60061  
Telephone: (847) 918-4094  
Fax: (847) 918-4055

RE: Pilsen Soil Site, Pilsen, Chicago, IL

STAT Project No: 13080639

Dear Tonya Balla:

STAT Analysis received 43 samples for the referenced project on 8/16/2013 4:42:00 PM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Catia Giannini  
Project Manager

*The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This analytical report shall become property of the Customer upon payment in full. Otherwise, STAT will be under no obligation to support, defend or discuss the analytical report.*

**Client:** Weston Solutions  
**Project:** Pilsen Soil Site, Pilsen, Chicago, IL  
**Lab Order:** 13080639

**Work Order Sample Summary**

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
13080639-001A	PA-489-01(0-6)-081213		8/12/2013 2:40:00 PM	8/17/2013
13080639-001B	PA-489-01(0-6)-081213	Fine Grained	8/12/2013 2:40:00 PM	8/17/2013
13080639-002A	PA-489-01(6-18)-081213		8/12/2013 2:45:00 PM	8/17/2013
13080639-002B	PA-489-01(6-18)-081213	Fine Grained	8/12/2013 2:45:00 PM	8/17/2013
13080639-003A	PA-490-01(0-6)-081213		8/12/2013 3:30:00 PM	8/17/2013
13080639-003B	PA-490-01(0-6)-081213	Fine Grained	8/12/2013 3:30:00 PM	8/17/2013
13080639-004A	PA-491-01(0-6)-081213		8/12/2013 4:20:00 PM	8/17/2013
13080639-004B	PA-491-01(0-6)-081213	Fine Grained	8/12/2013 4:20:00 PM	8/17/2013
13080639-005A	PA-491-01(6-18)-081213		8/12/2013 4:25:00 PM	8/17/2013
13080639-005B	PA-491-01(6-18)-081213	Fine Grained	8/12/2013 4:25:00 PM	8/17/2013
13080639-006A	PA-491-01(6-18)-081213D		8/12/2013 4:30:00 PM	8/17/2013
13080639-006B	PA-491-01(6-18)-081213D	Fine Grained	8/12/2013 4:30:00 PM	8/17/2013
13080639-007A	PA-492-01(0-6)-081313		8/13/2013 10:00:00 AM	8/17/2013
13080639-007B	PA-492-01(0-6)-081313	Fine Grained	8/13/2013 10:00:00 AM	8/17/2013
13080639-008A	PA-493-01(0-6)-081313		8/13/2013 10:45:00 AM	8/17/2013
13080639-008B	PA-493-01(0-6)-081313	Fine Grained	8/13/2013 10:45:00 AM	8/17/2013
13080639-009A	PA-494-01(0-6)-081313		8/13/2013 12:00:00 PM	8/17/2013
13080639-009B	PA-494-01(0-6)-081313	Fine Grained	8/13/2013 12:00:00 PM	8/17/2013
13080639-010A	PA-495-01(0-6)-081313		8/13/2013 2:00:00 PM	8/17/2013
13080639-010B	PA-495-01(0-6)-081313	Fine Grained	8/13/2013 2:00:00 PM	8/17/2013
13080639-011A	PA-495-01(6-24)-081313		8/13/2013 2:05:00 PM	8/17/2013
13080639-011B	PA-495-01(6-24)-081313	Fine Grained	8/13/2013 2:05:00 PM	8/17/2013
13080639-012A	PA-496-01(0-6)-081313		8/13/2013 3:00:00 PM	8/17/2013
13080639-012B	PA-496-01(0-6)-081313	Fine Grained	8/13/2013 3:00:00 PM	8/17/2013
13080639-013A	PA-497-01(0-6)-081313		8/13/2013 3:50:00 PM	8/17/2013
13080639-013B	PA-497-01(0-6)-081313	Fine Grained	8/13/2013 3:50:00 PM	8/17/2013
13080639-014A	PA-498-01(0-6)-081313		8/13/2013 4:50:00 PM	8/17/2013
13080639-014B	PA-498-01(0-6)-081313	Fine Grained	8/13/2013 4:50:00 PM	8/17/2013
13080639-015A	PA-498-01(0-6)-081313D		8/13/2013 4:55:00 PM	8/17/2013
13080639-015B	PA-498-01(0-6)-081313D	Fine Grained	8/13/2013 4:55:00 PM	8/17/2013
13080639-016A	PA-498-01(6-15)-081313		8/13/2013 5:00:00 PM	8/17/2013
13080639-016B	PA-498-01(6-15)-081313	Fine Grained	8/13/2013 5:00:00 PM	8/17/2013
13080639-017A	PA-499-01(0-6)-081413		8/14/2013 9:45:00 AM	8/17/2013
13080639-017B	PA-499-01(0-6)-081413	Fine Grained	8/14/2013 9:45:00 AM	8/17/2013
13080639-018A	PA-500-01(0-6)-081413		8/14/2013 11:00:00 AM	8/17/2013
13080639-018B	PA-500-01(0-6)-081413	Fine Grained	8/14/2013 11:00:00 AM	8/17/2013
13080639-019A	PA-500-01(6-24)-081413		8/14/2013 11:05:00 AM	8/17/2013
13080639-019B	PA-500-01(6-24)-081413	Fine Grained	8/14/2013 11:05:00 AM	8/17/2013

**Client:** Weston Solutions  
**Project:** Pilsen Soil Site, Pilsen, Chicago, IL  
**Lab Order:** 13080639

## Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
13080639-020A	PA-501-01(0-6)-081413		8/14/2013 12:00:00 PM	8/17/2013
13080639-020B	PA-501-01(0-6)-081413	Fine Grained	8/14/2013 12:00:00 PM	8/17/2013
13080639-021A	PA-502-01(0-6)-081413		8/14/2013 2:00:00 PM	8/17/2013
13080639-021B	PA-502-01(0-6)-081413	Fine Grained	8/14/2013 2:00:00 PM	8/17/2013
13080639-022A	PA-502-01(6-24)-081413		8/14/2013 2:05:00 PM	8/17/2013
13080639-022B	PA-502-01(6-24)-081413	Fine Grained	8/14/2013 2:05:00 PM	8/17/2013
13080639-023A	PA-503-01(0-6)-081413		8/14/2013 3:15:00 PM	8/17/2013
13080639-023B	PA-503-01(0-6)-081413	Fine Grained	8/14/2013 3:15:00 PM	8/17/2013
13080639-024A	PA-503-01(6-24)-081413		8/14/2013 3:20:00 PM	8/17/2013
13080639-024B	PA-503-01(6-24)-081413	Fine Grained	8/14/2013 3:20:00 PM	8/17/2013
13080639-025A	PA-504-01(0-6)-081513		8/15/2013 9:15:00 AM	8/17/2013
13080639-025B	PA-504-01(0-6)-081513	Fine Grained	8/15/2013 9:15:00 AM	8/17/2013
13080639-026A	PA-505-01(0-6)-081513		8/15/2013 10:25:00 AM	8/17/2013
13080639-026B	PA-505-01(0-6)-081513	Fine Grained	8/15/2013 10:25:00 AM	8/17/2013
13080639-027A	PA-505-01(0-6)-081513D		8/15/2013 10:30:00 AM	8/17/2013
13080639-027B	PA-505-01(0-6)-081513D	Fine Grained	8/15/2013 10:30:00 AM	8/17/2013
13080639-028A	PA-506-01(0-6)-081513		8/15/2013 11:40:00 AM	8/17/2013
13080639-028B	PA-506-01(0-6)-081513	Fine Grained	8/15/2013 11:40:00 AM	8/17/2013
13080639-029A	PA-507-01(0-6)-081513		8/15/2013 1:30:00 PM	8/17/2013
13080639-029B	PA-507-01(0-6)-081513	Fine Grained	8/15/2013 1:30:00 PM	8/17/2013
13080639-030A	PA-508-01(0-6)-081513		8/15/2013 2:45:00 PM	8/17/2013
13080639-030B	PA-508-01(0-6)-081513	Fine Grained	8/15/2013 2:45:00 PM	8/17/2013
13080639-031A	PA-508-01(6-24)-081513		8/15/2013 2:50:00 PM	8/17/2013
13080639-031B	PA-508-01(6-24)-081513	Fine Grained	8/15/2013 2:50:00 PM	8/17/2013
13080639-032A	PA-509-01(0-6)-081513		8/15/2013 4:00:00 PM	8/17/2013
13080639-032B	PA-509-01(0-6)-081513	Fine Grained	8/15/2013 4:00:00 PM	8/17/2013
13080639-033A	PA-510-01(0-6)-081513		8/15/2013 4:50:00 PM	8/17/2013
13080639-033B	PA-510-01(0-6)-081513	Fine Grained	8/15/2013 4:50:00 PM	8/17/2013
13080639-034A	PA-511-01(0-6)-081613		8/16/2013 8:30:00 AM	8/17/2013
13080639-034B	PA-511-01(0-6)-081613	Fine Grained	8/16/2013 8:30:00 AM	8/17/2013
13080639-035A	PA-512-01(0-6)-081613		8/16/2013 9:20:00 AM	8/17/2013
13080639-035B	PA-512-01(0-6)-081613	Fine Grained	8/16/2013 9:20:00 AM	8/17/2013
13080639-036A	PA-513-01(0-6)-081613		8/16/2013 9:50:00 AM	8/17/2013
13080639-036B	PA-513-01(0-6)-081613	Fine Grained	8/16/2013 9:50:00 AM	8/17/2013
13080639-037A	PA-513-01(0-6)-081613D		8/16/2013 9:55:00 AM	8/17/2013
13080639-037B	PA-513-01(0-6)-081613D	Fine Grained	8/16/2013 9:55:00 AM	8/17/2013
13080639-038A	PA-514-01(0-6)-081613		8/16/2013 11:25:00 AM	8/17/2013
13080639-038B	PA-514-01(0-6)-081613	Fine Grained	8/16/2013 11:25:00 AM	8/17/2013
13080639-039A	PA-514-01(6-24)-081613		8/16/2013 11:30:00 AM	8/17/2013
13080639-039B	PA-514-01(6-24)-081613	Fine Grained	8/16/2013 11:30:00 AM	8/17/2013

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**Client:** Weston Solutions  
**Project:** Pilsen Soil Site, Pilsen, Chicago, IL  
**Lab Order:** 13080639

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## Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
13080639-040A	PA-515-01(0-6)-081613		8/16/2013 1:30:00 PM	8/17/2013
13080639-040B	PA-515-01(0-6)-081613	Fine Grained	8/16/2013 1:30:00 PM	8/17/2013
13080639-041A	PA-516-01(0-6)-081613		8/16/2013 2:50:00 PM	8/17/2013
13080639-041B	PA-516-01(0-6)-081613	Fine Grained	8/16/2013 2:50:00 PM	8/17/2013
13080639-042A	PA-516-01(0-6)-081613D		8/16/2013 2:55:00 PM	8/17/2013
13080639-042B	PA-516-01(0-6)-081613D	Fine Grained	8/16/2013 2:55:00 PM	8/17/2013
13080639-043A	PA-516-01(6-18)-081613		8/16/2013 3:00:00 PM	8/17/2013
13080639-043B	PA-516-01(6-18)-081613	Fine Grained	8/16/2013 3:00:00 PM	8/17/2013

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**CLIENT:** Weston Solutions  
**Project:** Pilsen Soil Site, Pilsen, Chicago, IL  
**Lab Order:** 13080639

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**CASE NARRATIVE**

Sample report lists:

Fraction A: Results on "as received" basis that the results are corrected for percent moisture.

Fraction B: Fine Grained (less than 250  $\mu\text{m}$  sieve size)

The soils were air dried and sieved for particle size.

The total metals Matrix Spike/Matrix Spike Duplicate (MS/MSD) prepared from sample PA-515-01(0-6)-081613 (13080639-040) (Prep Batch 71453) had recoveries outside control limits. The sample, MS and MSD were redigested in batch 71524. Results are still outside control limits and reported from batch 71524.

Please refer to Analytical QC Summary Report for other QC outliers.

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Report Date: August 26, 2013

Print Date: August 26, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-489-01(0-6)-081213
<b>Lab Order:</b>	13080639	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	8/12/2013 2:40:00 PM
<b>Lab ID:</b>	13080639-001A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>				Prep Date: <b>8/19/2013</b>	Analyst: <b>LB</b>
Mercury	0.14	0.022		mg/Kg-dry	1	8/20/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>8/20/2013</b>	Analyst: <b>JG</b>
Antimony	ND	4.2		mg/Kg-dry	20	8/22/2013
Cadmium	1.4	1		mg/Kg-dry	20	8/22/2013
Chromium	17	2.1		mg/Kg-dry	20	8/22/2013
Copper	30	5.2		mg/Kg-dry	20	8/22/2013
Lead	160	1		mg/Kg-dry	20	8/22/2013
Tin	ND	10	*	mg/Kg-dry	20	8/22/2013
Zinc	140	10		mg/Kg-dry	20	8/22/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: <b>8/20/2013</b>	Analyst: <b>SDA</b>
Percent Moisture	15.3	0.2	*	wt%	1	8/20/2013

**Qualifiers:**  
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 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded



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Report Date: August 26, 2013

Print Date: August 26, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-489-01(0-6)-081213
<b>Lab Order:</b>	13080639	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	8/12/2013 2:40:00 PM
<b>Lab ID:</b>	13080639-001B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: <b>8/22/2013</b>	Analyst: <b>JG</b>
Lead	160	4.7		mg/Kg-dry	100	8/22/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: August 26, 2013

Print Date: August 26, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-489-01(6-18)-081213
<b>Lab Order:</b>	13080639	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	8/12/2013 2:45:00 PM
<b>Lab ID:</b>	13080639-002A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>				Prep Date: <b>8/19/2013</b>	Analyst: <b>LB</b>
Mercury	0.13	0.022		mg/Kg-dry	1	8/20/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>8/20/2013</b>	Analyst: <b>JG</b>
Antimony	ND	4.4		mg/Kg-dry	20	8/22/2013
Cadmium	1.4	1.1		mg/Kg-dry	20	8/22/2013
Chromium	18	2.2		mg/Kg-dry	20	8/22/2013
Copper	28	5.5		mg/Kg-dry	20	8/22/2013
Lead	92	1.1		mg/Kg-dry	20	8/22/2013
Tin	ND	11	*	mg/Kg-dry	20	8/22/2013
Zinc	120	11		mg/Kg-dry	20	8/22/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: <b>8/20/2013</b>	Analyst: <b>SDA</b>
Percent Moisture	16.5	0.2	*	wt%	1	8/20/2013

**Qualifiers:**  
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 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Report Date: August 26, 2013

Print Date: August 26, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-489-01(6-18)-081213
<b>Lab Order:</b>	13080639	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	8/12/2013 2:45:00 PM
<b>Lab ID:</b>	13080639-002B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>8/22/2013</b>	Analyst: <b>JG</b>
Lead	150	4.6		mg/Kg-dry	100	8/22/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: August 26, 2013

Print Date: August 26, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-490-01(0-6)-081213
<b>Lab Order:</b>	13080639	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	8/12/2013 3:30:00 PM
<b>Lab ID:</b>	13080639-003A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>				Prep Date: <b>8/19/2013</b>	Analyst: <b>LB</b>
Mercury	0.29	0.019		mg/Kg-dry	1	8/20/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>8/20/2013</b>	Analyst: <b>JG</b>
Antimony	ND	4.4		mg/Kg-dry	20	8/22/2013
Cadmium	1.6	1.1		mg/Kg-dry	20	8/22/2013
Chromium	19	2.2		mg/Kg-dry	20	8/22/2013
Copper	33	5.6		mg/Kg-dry	20	8/22/2013
Lead	220	1.1		mg/Kg-dry	20	8/22/2013
Tin	ND	11	*	mg/Kg-dry	20	8/22/2013
Zinc	150	11		mg/Kg-dry	20	8/22/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: <b>8/20/2013</b>	Analyst: <b>SDA</b>
Percent Moisture	16.7	0.2	*	wt%	1	8/20/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: August 26, 2013

Print Date: August 26, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-490-01(0-6)-081213
<b>Lab Order:</b>	13080639	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	8/12/2013 3:30:00 PM
<b>Lab ID:</b>	13080639-003B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: <b>8/22/2013</b>	Analyst: <b>JG</b>
Lead	230	4.7		mg/Kg-dry	100	8/22/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: August 26, 2013

Print Date: August 26, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-491-01(0-6)-081213
<b>Lab Order:</b>	13080639	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	8/12/2013 4:20:00 PM
<b>Lab ID:</b>	13080639-004A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>				Prep Date: <b>8/19/2013</b>	Analyst: <b>LB</b>
Mercury	0.42	0.024		mg/Kg-dry	1	8/20/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>8/20/2013</b>	Analyst: <b>JG</b>
Antimony	ND	4.8		mg/Kg-dry	20	8/22/2013
Cadmium	1.8	1.2		mg/Kg-dry	20	8/22/2013
Chromium	21	2.4		mg/Kg-dry	20	8/22/2013
Copper	68	6		mg/Kg-dry	20	8/22/2013
Lead	260	1.2		mg/Kg-dry	20	8/22/2013
Tin	16	12	*	mg/Kg-dry	20	8/22/2013
Zinc	270	12		mg/Kg-dry	20	8/22/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: <b>8/20/2013</b>	Analyst: <b>SDA</b>
Percent Moisture	17.4	0.2	*	wt%	1	8/20/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Report Date: August 26, 2013

Print Date: August 26, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-491-01(0-6)-081213
<b>Lab Order:</b>	13080639	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	8/12/2013 4:20:00 PM
<b>Lab ID:</b>	13080639-004B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>8/22/2013</b>	Analyst: <b>JG</b>
Lead	280	4.9		mg/Kg-dry	100	8/22/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: August 26, 2013

Print Date: August 26, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-491-01(6-18)-081213
<b>Lab Order:</b>	13080639	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	8/12/2013 4:25:00 PM
<b>Lab ID:</b>	13080639-005A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>				Prep Date: <b>8/19/2013</b>	Analyst: <b>LB</b>
Mercury	0.6	0.022		mg/Kg-dry	1	8/20/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>8/20/2013</b>	Analyst: <b>JG</b>
Antimony	ND	4.5		mg/Kg-dry	20	8/22/2013
Cadmium	1.6	1.1		mg/Kg-dry	20	8/22/2013
Chromium	36	2.2		mg/Kg-dry	20	8/22/2013
Copper	71	5.6		mg/Kg-dry	20	8/22/2013
Lead	270	1.1		mg/Kg-dry	20	8/22/2013
Tin	15	11	*	mg/Kg-dry	20	8/22/2013
Zinc	250	11		mg/Kg-dry	20	8/22/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: <b>8/20/2013</b>	Analyst: <b>SDA</b>
Percent Moisture	13.8	0.2	*	wt%	1	8/20/2013

**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded



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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Report Date: August 26, 2013

Print Date: August 26, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-491-01(6-18)-081213
<b>Lab Order:</b>	13080639	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	8/12/2013 4:25:00 PM
<b>Lab ID:</b>	13080639-005B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: <b>8/22/2013</b>	Analyst: <b>JG</b>
Lead	400	4.7		mg/Kg-dry	100	8/22/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: August 26, 2013

Print Date: August 26, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-491-01(6-18)-081213D
<b>Lab Order:</b>	13080639	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	8/12/2013 4:30:00 PM
<b>Lab ID:</b>	13080639-006A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>				Prep Date: <b>8/19/2013</b>	Analyst: <b>LB</b>
Mercury	0.66	0.02		mg/Kg-dry	1	8/20/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>8/20/2013</b>	Analyst: <b>JG</b>
Antimony	ND	4.1		mg/Kg-dry	20	8/22/2013
Cadmium	1.5	1		mg/Kg-dry	20	8/22/2013
Chromium	17	2		mg/Kg-dry	20	8/22/2013
Copper	65	5.1		mg/Kg-dry	20	8/22/2013
Lead	260	1		mg/Kg-dry	20	8/22/2013
Tin	16	10	*	mg/Kg-dry	20	8/22/2013
Zinc	230	10		mg/Kg-dry	20	8/22/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: <b>8/20/2013</b>	Analyst: <b>SDA</b>
Percent Moisture	12.2	0.2	*	wt%	1	8/20/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: August 26, 2013

Print Date: August 26, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-491-01(6-18)-081213D
<b>Lab Order:</b>	13080639	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	8/12/2013 4:30:00 PM
<b>Lab ID:</b>	13080639-006B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: <b>8/22/2013</b>	Analyst: <b>JG</b>
Lead	390	4.8		mg/Kg-dry	100	8/22/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: August 26, 2013

Print Date: August 26, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-492-01(0-6)-081313
<b>Lab Order:</b>	13080639	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	8/13/2013 10:00:00 AM
<b>Lab ID:</b>	13080639-007A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>				Prep Date: <b>8/19/2013</b>	Analyst: <b>LB</b>
Mercury	0.33	0.02		mg/Kg-dry	1	8/20/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>8/20/2013</b>	Analyst: <b>JG</b>
Antimony	ND	4.4		mg/Kg-dry	20	8/22/2013
Cadmium	2.7	1.1		mg/Kg-dry	20	8/22/2013
Chromium	24	2.2		mg/Kg-dry	20	8/22/2013
Copper	66	5.5		mg/Kg-dry	20	8/22/2013
Lead	260	1.1		mg/Kg-dry	20	8/22/2013
Tin	13	11	*	mg/Kg-dry	20	8/22/2013
Zinc	210	11		mg/Kg-dry	20	8/22/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: <b>8/20/2013</b>	Analyst: <b>SDA</b>
Percent Moisture	17.7	0.2	*	wt%	1	8/20/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: August 26, 2013

Print Date: August 26, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-492-01(0-6)-081313
<b>Lab Order:</b>	13080639	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	8/13/2013 10:00:00 AM
<b>Lab ID:</b>	13080639-007B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>8/22/2013</b>	Analyst: <b>JG</b>
Lead	210	4.8		mg/Kg-dry	100	8/22/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: August 26, 2013

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<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-493-01(0-6)-081313
<b>Lab Order:</b>	13080639	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	8/13/2013 10:45:00 AM
<b>Lab ID:</b>	13080639-008A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>		Prep Date: <b>8/19/2013</b>		Analyst: <b>LB</b>	
Mercury	0.39	0.022		mg/Kg-dry	1	8/20/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>		Prep Date: <b>8/20/2013</b>		Analyst: <b>JG</b>	
Antimony	ND	4.3		mg/Kg-dry	20	8/22/2013
Cadmium	1.8	1.1		mg/Kg-dry	20	8/22/2013
Chromium	16	2.2		mg/Kg-dry	20	8/22/2013
Copper	45	5.4		mg/Kg-dry	20	8/22/2013
Lead	190	1.1		mg/Kg-dry	20	8/22/2013
Tin	ND	11	*	mg/Kg-dry	20	8/22/2013
Zinc	170	11		mg/Kg-dry	20	8/22/2013
<b>Percent Moisture</b>	<b>D2974</b>		Prep Date: <b>8/20/2013</b>		Analyst: <b>SDA</b>	
Percent Moisture	18.5	0.2	*	wt%	1	8/20/2013

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Report Date: August 26, 2013

Print Date: August 26, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-493-01(0-6)-081313
<b>Lab Order:</b>	13080639	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	8/13/2013 10:45:00 AM
<b>Lab ID:</b>	13080639-008B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: <b>8/22/2013</b>	Analyst: <b>JG</b>
Lead	210	4.8		mg/Kg-dry	100	8/22/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
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Report Date: August 26, 2013

Print Date: August 26, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-494-01(0-6)-081313
<b>Lab Order:</b>	13080639	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	8/13/2013 12:00:00 PM
<b>Lab ID:</b>	13080639-009A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>				Prep Date: <b>8/19/2013</b>	Analyst: <b>LB</b>
Mercury	0.17	0.023		mg/Kg-dry	1	8/20/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>8/20/2013</b>	Analyst: <b>JG</b>
Antimony	ND	4.6		mg/Kg-dry	20	8/22/2013
Cadmium	2	1.2		mg/Kg-dry	20	8/22/2013
Chromium	33	2.3		mg/Kg-dry	20	8/22/2013
Copper	46	5.8		mg/Kg-dry	20	8/22/2013
Lead	120	1.2		mg/Kg-dry	20	8/22/2013
Tin	ND	12	*	mg/Kg-dry	20	8/22/2013
Zinc	170	12		mg/Kg-dry	20	8/22/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: <b>8/20/2013</b>	Analyst: <b>SDA</b>
Percent Moisture	17.9	0.2	*	wt%	1	8/20/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded



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Report Date: August 26, 2013

Print Date: August 26, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-494-01(0-6)-081313
<b>Lab Order:</b>	13080639	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	8/13/2013 12:00:00 PM
<b>Lab ID:</b>	13080639-009B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: <b>8/22/2013</b>	Analyst: <b>JG</b>
Lead	110	4.9		mg/Kg-dry	100	8/22/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: August 26, 2013

Print Date: August 26, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-495-01(0-6)-081313
<b>Lab Order:</b>	13080639	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	8/13/2013 2:00:00 PM
<b>Lab ID:</b>	13080639-010A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>				Prep Date: <b>8/20/2013</b>	Analyst: <b>LB</b>
Mercury	0.31	0.022		mg/Kg-dry	1	8/21/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>8/20/2013</b>	Analyst: <b>JG</b>
Antimony	ND	3.8		mg/Kg-dry	20	8/22/2013
Cadmium	2.6	0.95		mg/Kg-dry	20	8/22/2013
Chromium	25	1.9		mg/Kg-dry	20	8/22/2013
Copper	56	4.8		mg/Kg-dry	20	8/22/2013
Lead	930	0.95		mg/Kg-dry	20	8/22/2013
Tin	16	9.5	*	mg/Kg-dry	20	8/22/2013
Zinc	430	9.5		mg/Kg-dry	20	8/22/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: <b>8/20/2013</b>	Analyst: <b>SDA</b>
Percent Moisture	13.8	0.2	*	wt%	1	8/20/2013

**Qualifiers:**  
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 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Report Date: August 26, 2013

Print Date: August 26, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-495-01(0-6)-081313
<b>Lab Order:</b>	13080639	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	8/13/2013 2:00:00 PM
<b>Lab ID:</b>	13080639-010B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: <b>8/22/2013</b>	Analyst: <b>JG</b>
Lead	1000	4.8		mg/Kg-dry	100	8/22/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: August 26, 2013

Print Date: August 26, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-495-01(6-24)-081313
<b>Lab Order:</b>	13080639	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	8/13/2013 2:05:00 PM
<b>Lab ID:</b>	13080639-011A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>				Prep Date: <b>8/20/2013</b>	Analyst: <b>LB</b>
Mercury	0.49	0.019		mg/Kg-dry	1	8/21/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>8/20/2013</b>	Analyst: <b>JG</b>
Antimony	ND	4		mg/Kg-dry	20	8/22/2013
Cadmium	3.6	1		mg/Kg-dry	20	8/22/2013
Chromium	21	2		mg/Kg-dry	20	8/22/2013
Copper	180	5.1		mg/Kg-dry	20	8/22/2013
Lead	1800	1		mg/Kg-dry	20	8/22/2013
Tin	50	10	*	mg/Kg-dry	20	8/22/2013
Zinc	720	10		mg/Kg-dry	20	8/22/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: <b>8/20/2013</b>	Analyst: <b>SDA</b>
Percent Moisture	15.6	0.2	*	wt%	1	8/20/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: August 26, 2013

Print Date: August 26, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-495-01(6-24)-081313
<b>Lab Order:</b>	13080639	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	8/13/2013 2:05:00 PM
<b>Lab ID:</b>	13080639-011B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: <b>8/22/2013</b>	Analyst: <b>JG</b>
Lead	1800	5		mg/Kg-dry	100	8/22/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

**STAT Analysis Corporation**

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Report Date: August 26, 2013

Print Date: August 26, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-496-01(0-6)-081313
<b>Lab Order:</b>	13080639	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	8/13/2013 3:00:00 PM
<b>Lab ID:</b>	13080639-012A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>				Prep Date: <b>8/20/2013</b>	Analyst: <b>LB</b>
Mercury	0.12	0.021		mg/Kg-dry	1	8/21/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>8/20/2013</b>	Analyst: <b>JG</b>
Antimony	ND	4.4		mg/Kg-dry	20	8/22/2013
Cadmium	2.8	1.1		mg/Kg-dry	20	8/22/2013
Chromium	19	2.2		mg/Kg-dry	20	8/22/2013
Copper	64	5.5		mg/Kg-dry	20	8/22/2013
Lead	230	1.1		mg/Kg-dry	20	8/22/2013
Tin	11	11	*	mg/Kg-dry	20	8/22/2013
Zinc	380	11		mg/Kg-dry	20	8/22/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: <b>8/20/2013</b>	Analyst: <b>SDA</b>
Percent Moisture	11.9	0.2	*	wt%	1	8/20/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: August 26, 2013

Print Date: August 26, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-496-01(0-6)-081313
<b>Lab Order:</b>	13080639	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	8/13/2013 3:00:00 PM
<b>Lab ID:</b>	13080639-012B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: <b>8/22/2013</b>	Analyst: <b>JG</b>
Lead	360	4.6		mg/Kg-dry	100	8/22/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
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Report Date: August 26, 2013

Print Date: August 26, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-497-01(0-6)-081313
<b>Lab Order:</b>	13080639	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	8/13/2013 3:50:00 PM
<b>Lab ID:</b>	13080639-013A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>		Prep Date: <b>8/20/2013</b>		Analyst: <b>LB</b>	
Mercury	0.4	0.024		mg/Kg-dry	1	8/21/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>		Prep Date: <b>8/20/2013</b>		Analyst: <b>JG</b>	
Antimony	ND	4.4		mg/Kg-dry	20	8/22/2013
Cadmium	2.2	1.1		mg/Kg-dry	20	8/22/2013
Chromium	18	2.2		mg/Kg-dry	20	8/22/2013
Copper	53	5.5		mg/Kg-dry	20	8/22/2013
Lead	460	1.1		mg/Kg-dry	20	8/22/2013
Tin	15	11	*	mg/Kg-dry	20	8/22/2013
Zinc	350	11		mg/Kg-dry	20	8/22/2013
<b>Percent Moisture</b>	<b>D2974</b>		Prep Date: <b>8/20/2013</b>		Analyst: <b>SDA</b>	
Percent Moisture	19.6	0.2	*	wt%	1	8/20/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded



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Report Date: August 26, 2013

Print Date: August 26, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-497-01(0-6)-081313
<b>Lab Order:</b>	13080639	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	8/13/2013 3:50:00 PM
<b>Lab ID:</b>	13080639-013B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: <b>8/22/2013</b>	Analyst: <b>JG</b>
Lead	460	4.9		mg/Kg-dry	100	8/22/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: August 26, 2013

Print Date: August 26, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-498-01(0-6)-081313
<b>Lab Order:</b>	13080639	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	8/13/2013 4:50:00 PM
<b>Lab ID:</b>	13080639-014A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>		Prep Date: <b>8/20/2013</b>		Analyst: <b>LB</b>	
Mercury	0.17	0.02		mg/Kg-dry	1	8/21/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>		Prep Date: <b>8/20/2013</b>		Analyst: <b>JG</b>	
Antimony	ND	3.9		mg/Kg-dry	20	8/22/2013
Cadmium	1.5	0.97		mg/Kg-dry	20	8/22/2013
Chromium	16	1.9		mg/Kg-dry	20	8/22/2013
Copper	38	4.8		mg/Kg-dry	20	8/22/2013
Lead	270	0.97		mg/Kg-dry	20	8/22/2013
Tin	ND	9.7	*	mg/Kg-dry	20	8/22/2013
Zinc	200	9.7		mg/Kg-dry	20	8/22/2013
<b>Percent Moisture</b>	<b>D2974</b>		Prep Date: <b>8/20/2013</b>		Analyst: <b>SDA</b>	
Percent Moisture	13.8	0.2	*	wt%	1	8/20/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: August 26, 2013

Print Date: August 26, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-498-01(0-6)-081313
<b>Lab Order:</b>	13080639	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	8/13/2013 4:50:00 PM
<b>Lab ID:</b>	13080639-014B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: <b>8/22/2013</b>	Analyst: <b>JG</b>
Lead	340	4.6		mg/Kg-dry	100	8/22/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: August 26, 2013

Print Date: August 26, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-498-01(0-6)-081313D
<b>Lab Order:</b>	13080639	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	8/13/2013 4:55:00 PM
<b>Lab ID:</b>	13080639-015A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>				Prep Date: <b>8/20/2013</b>	Analyst: <b>LB</b>
Mercury	0.17	0.02		mg/Kg-dry	1	8/21/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>8/20/2013</b>	Analyst: <b>JG</b>
Antimony	ND	4.3		mg/Kg-dry	20	8/22/2013
Cadmium	1.5	1.1		mg/Kg-dry	20	8/22/2013
Chromium	14	2.2		mg/Kg-dry	20	8/22/2013
Copper	36	5.4		mg/Kg-dry	20	8/22/2013
Lead	280	1.1		mg/Kg-dry	20	8/22/2013
Tin	ND	11	*	mg/Kg-dry	20	8/22/2013
Zinc	200	11		mg/Kg-dry	20	8/22/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: <b>8/20/2013</b>	Analyst: <b>SDA</b>
Percent Moisture	14.0	0.2	*	wt%	1	8/20/2013

**Qualifiers:**  
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 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Report Date: August 26, 2013

Print Date: August 26, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-498-01(0-6)-081313D
<b>Lab Order:</b>	13080639	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	8/13/2013 4:55:00 PM
<b>Lab ID:</b>	13080639-015B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>8/22/2013</b>	Analyst: <b>JG</b>
Lead	330	4.8		mg/Kg-dry	100	8/22/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: August 26, 2013

Print Date: August 26, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-498-01(6-15)-081313
<b>Lab Order:</b>	13080639	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	8/13/2013 5:00:00 PM
<b>Lab ID:</b>	13080639-016A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>				Prep Date: <b>8/20/2013</b>	Analyst: <b>LB</b>
Mercury	0.31	0.019		mg/Kg-dry	1	8/21/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>8/20/2013</b>	Analyst: <b>JG</b>
Antimony	ND	4.4		mg/Kg-dry	20	8/22/2013
Cadmium	1.9	1.1		mg/Kg-dry	20	8/22/2013
Chromium	14	2.2		mg/Kg-dry	20	8/22/2013
Copper	41	5.5		mg/Kg-dry	20	8/22/2013
Lead	550	1.1		mg/Kg-dry	20	8/22/2013
Tin	14	11	*	mg/Kg-dry	20	8/22/2013
Zinc	380	11		mg/Kg-dry	20	8/22/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: <b>8/20/2013</b>	Analyst: <b>SDA</b>
Percent Moisture	9.9	0.2	*	wt%	1	8/20/2013

**Qualifiers:**  
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 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Report Date: August 26, 2013

Print Date: August 26, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-498-01(6-15)-081313
<b>Lab Order:</b>	13080639	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	8/13/2013 5:00:00 PM
<b>Lab ID:</b>	13080639-016B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: <b>8/22/2013</b>	Analyst: <b>JG</b>
Lead	640	4.8		mg/Kg-dry	100	8/22/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: August 26, 2013

Print Date: August 26, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-499-01(0-6)-081413
<b>Lab Order:</b>	13080639	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	8/14/2013 9:45:00 AM
<b>Lab ID:</b>	13080639-017A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>					Prep Date: 8/20/2013 Analyst: <b>LB</b>
Mercury	0.65 <i>J</i>	0.042		mg/Kg-dry	2	8/21/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>					Prep Date: 8/20/2013 Analyst: <b>JG</b>
Antimony	ND <i>J</i>	4.5 <i>J</i>		mg/Kg-dry	20	8/22/2013
Cadmium	2.5	1.1		mg/Kg-dry	20	8/22/2013
Chromium	14	2.3		mg/Kg-dry	20	8/22/2013
Copper	86	14		mg/Kg-dry	50	8/21/2013
Lead	1200	1.1		mg/Kg-dry	20	8/22/2013
Tin	26 <i>J</i>	11	*	mg/Kg-dry	20	8/22/2013
Zinc	500	11		mg/Kg-dry	20	8/22/2013
<b>Percent Moisture</b>	<b>D2974</b>					Prep Date: 8/20/2013 Analyst: <b>SDA</b>
Percent Moisture	14.3	0.2	*	wt%	1	8/20/2013

*LB*  
9/4/13

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded



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Report Date: August 26, 2013

Print Date: August 26, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-499-01(0-6)-081413
<b>Lab Order:</b>	13080639	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	8/14/2013 9:45:00 AM
<b>Lab ID:</b>	13080639-017B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: <b>8/22/2013</b>	Analyst: <b>JG</b>
Lead	1100	5		mg/Kg-dry	100	8/22/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
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Report Date: August 26, 2013

Print Date: August 26, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-500-01(0-6)-081413
<b>Lab Order:</b>	13080639	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	8/14/2013 11:00:00 AM
<b>Lab ID:</b>	13080639-018A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>				Prep Date: <b>8/20/2013</b>	Analyst: <b>LB</b>
Mercury	0.88	0.065		mg/Kg-dry	3	8/21/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>8/20/2013</b>	Analyst: <b>JG</b>
Antimony	ND	4.4		mg/Kg-dry	20	8/22/2013
Cadmium	3.4	1.1		mg/Kg-dry	20	8/22/2013
Chromium	26	2.2		mg/Kg-dry	20	8/22/2013
Copper	72	5.5		mg/Kg-dry	20	8/22/2013
Lead	760	1.1		mg/Kg-dry	20	8/22/2013
Tin	27	11	*	mg/Kg-dry	20	8/22/2013
Zinc	620	11		mg/Kg-dry	20	8/22/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: <b>8/20/2013</b>	Analyst: <b>SDA</b>
Percent Moisture	13.4	0.2	*	wt%	1	8/20/2013

**Qualifiers:**  
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 \* - Non-accredited parameter

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 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Report Date: August 26, 2013

Print Date: August 26, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-500-01(0-6)-081413
<b>Lab Order:</b>	13080639	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	8/14/2013 11:00:00 AM
<b>Lab ID:</b>	13080639-018B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: <b>8/22/2013</b>	Analyst: <b>JG</b>
Lead	1300	4.8		mg/Kg-dry	100	8/22/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: August 26, 2013

Print Date: August 26, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-500-01(6-24)-081413
<b>Lab Order:</b>	13080639	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	8/14/2013 11:05:00 AM
<b>Lab ID:</b>	13080639-019A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>				Prep Date: <b>8/20/2013</b>	Analyst: <b>LB</b>
Mercury	1.7	0.2		mg/Kg-dry	10	8/21/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>8/20/2013</b>	Analyst: <b>JG</b>
Antimony	ND	3.9		mg/Kg-dry	20	8/22/2013
Cadmium	3.1	0.97		mg/Kg-dry	20	8/22/2013
Chromium	22	1.9		mg/Kg-dry	20	8/22/2013
Copper	88	4.8		mg/Kg-dry	20	8/22/2013
Lead	930	0.97		mg/Kg-dry	20	8/22/2013
Tin	28	9.7	*	mg/Kg-dry	20	8/22/2013
Zinc	690	9.7		mg/Kg-dry	20	8/22/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: <b>8/20/2013</b>	Analyst: <b>SDA</b>
Percent Moisture	12.9	0.2	*	wt%	1	8/20/2013

**Qualifiers:**  
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 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Report Date: August 26, 2013

Print Date: August 26, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-500-01(6-24)-081413
<b>Lab Order:</b>	13080639	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	8/14/2013 11:05:00 AM
<b>Lab ID:</b>	13080639-019B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>8/22/2013</b>	Analyst: <b>JG</b>
Lead	1400	5		mg/Kg-dry	100	8/22/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: August 26, 2013

Print Date: August 26, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-501-01(0-6)-081413
<b>Lab Order:</b>	13080639	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	8/14/2013 12:00:00 PM
<b>Lab ID:</b>	13080639-020A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>		Prep Date: <b>8/20/2013</b>		Analyst: <b>LB</b>	
Mercury	0.081	0.026		mg/Kg-dry	1	8/21/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>		Prep Date: <b>8/20/2013</b>		Analyst: <b>JG</b>	
Antimony	ND	5.2		mg/Kg-dry	20	8/22/2013
Cadmium	1.4	1.3		mg/Kg-dry	20	8/22/2013
Chromium	22	2.6		mg/Kg-dry	20	8/22/2013
Copper	28	6.5		mg/Kg-dry	20	8/22/2013
Lead	66	1.3		mg/Kg-dry	20	8/22/2013
Tin	ND	13	*	mg/Kg-dry	20	8/22/2013
Zinc	150	13		mg/Kg-dry	20	8/22/2013
<b>Percent Moisture</b>	<b>D2974</b>		Prep Date: <b>8/20/2013</b>		Analyst: <b>SDA</b>	
Percent Moisture	30.7	0.2	*	wt%	1	8/20/2013

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Report Date: August 26, 2013

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<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-501-01(0-6)-081413
<b>Lab Order:</b>	13080639	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	8/14/2013 12:00:00 PM
<b>Lab ID:</b>	13080639-020B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: <b>8/22/2013</b>	Analyst: <b>JG</b>
Lead	66	6.5		mg/Kg-dry	100	8/22/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: August 26, 2013

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<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-502-01(0-6)-081413
<b>Lab Order:</b>	13080639	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	8/14/2013 2:00:00 PM
<b>Lab ID:</b>	13080639-021A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>				Prep Date: 8/20/2013	Analyst: <b>LB</b>
Mercury	1	0.22		mg/Kg-dry	10	8/21/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: 8/21/2013	Analyst: <b>JG</b>
Antimony	ND	4.8		mg/Kg-dry	20	8/22/2013
Cadmium	7.3	1.2		mg/Kg-dry	20	8/22/2013
Chromium	60	2.4		mg/Kg-dry	20	8/22/2013
Copper	300	6		mg/Kg-dry	20	8/22/2013
Lead	780	1.2		mg/Kg-dry	20	8/22/2013
Tin	20	12	*	mg/Kg-dry	20	8/22/2013
Zinc	610	12		mg/Kg-dry	20	8/22/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: 8/20/2013	Analyst: <b>SDA</b>
Percent Moisture	23.1	0.2	*	wt%	1	8/20/2013

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<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-502-01(0-6)-081413
<b>Lab Order:</b>	13080639	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	8/14/2013 2:00:00 PM
<b>Lab ID:</b>	13080639-021B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: <b>8/22/2013</b>	Analyst: <b>JG</b>
Lead	620	5.5		mg/Kg-dry	100	8/22/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: August 26, 2013

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<b>Lab Order:</b>	13080639	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	8/14/2013 2:05:00 PM
<b>Lab ID:</b>	13080639-022A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>				Prep Date: <b>8/20/2013</b>	Analyst: <b>LB</b>
Mercury	1.2	0.25		mg/Kg-dry	10	8/21/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>8/21/2013</b>	Analyst: <b>JG</b>
Antimony	ND	4.5		mg/Kg-dry	20	8/22/2013
Cadmium	4.9	1.1		mg/Kg-dry	20	8/22/2013
Chromium	38	2.3		mg/Kg-dry	20	8/22/2013
Copper	91	5.6		mg/Kg-dry	20	8/22/2013
Lead	580	1.1		mg/Kg-dry	20	8/22/2013
Tin	26	11	*	mg/Kg-dry	20	8/22/2013
Zinc	490	11		mg/Kg-dry	20	8/22/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: <b>8/20/2013</b>	Analyst: <b>SDA</b>
Percent Moisture	22.1	0.2	*	wt%	1	8/20/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-502-01(6-24)-081413
<b>Lab Order:</b>	13080639	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	8/14/2013 2:05:00 PM
<b>Lab ID:</b>	13080639-022B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: <b>8/22/2013</b>	Analyst: <b>JG</b>
Lead	770	5.7		mg/Kg-dry	100	8/22/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: August 26, 2013

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<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-503-01(0-6)-081413
<b>Lab Order:</b>	13080639	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	8/14/2013 3:15:00 PM
<b>Lab ID:</b>	13080639-023A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>				Prep Date: <b>8/20/2013</b>	Analyst: <b>LB</b>
Mercury	0.64	0.024		mg/Kg-dry	1	8/21/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>8/21/2013</b>	Analyst: <b>JG</b>
Antimony	ND	4.7		mg/Kg-dry	20	8/22/2013
Cadmium	6.1	1.2		mg/Kg-dry	20	8/22/2013
Chromium	25	2.4		mg/Kg-dry	20	8/22/2013
Copper	130	5.9		mg/Kg-dry	20	8/22/2013
Lead	1400	1.2		mg/Kg-dry	20	8/22/2013
Tin	21	12	*	mg/Kg-dry	20	8/22/2013
Zinc	830	12		mg/Kg-dry	20	8/22/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: <b>8/20/2013</b>	Analyst: <b>SDA</b>
Percent Moisture	17.1	0.2	*	wt%	1	8/20/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-503-01(0-6)-081413
<b>Lab Order:</b>	13080639	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	8/14/2013 3:15:00 PM
<b>Lab ID:</b>	13080639-023B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: <b>8/22/2013</b>	Analyst: <b>JG</b>
Lead	1700	5.8		mg/Kg-dry	100	8/22/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-503-01(6-24)-081413
<b>Lab Order:</b>	13080639	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	8/14/2013 3:20:00 PM
<b>Lab ID:</b>	13080639-024A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>				Prep Date: <b>8/20/2013</b>	Analyst: <b>LB</b>
Mercury	0.74	0.062		mg/Kg-dry	3	8/21/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>8/21/2013</b>	Analyst: <b>JG</b>
Antimony	ND	4.1		mg/Kg-dry	20	8/22/2013
Cadmium	5.1	1		mg/Kg-dry	20	8/22/2013
Chromium	23	2.1		mg/Kg-dry	20	8/22/2013
Copper	140	5.2		mg/Kg-dry	20	8/22/2013
Lead	840	1		mg/Kg-dry	20	8/22/2013
Tin	110	10	*	mg/Kg-dry	20	8/22/2013
Zinc	800	10		mg/Kg-dry	20	8/22/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: <b>8/20/2013</b>	Analyst: <b>SDA</b>
Percent Moisture	12.9	0.2	*	wt%	1	8/20/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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<b>Lab Order:</b>	13080639	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	8/14/2013 3:20:00 PM
<b>Lab ID:</b>	13080639-024B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: <b>8/22/2013</b>	Analyst: <b>JG</b>
Lead	1200	4.8		mg/Kg-dry	100	8/22/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: August 26, 2013

Print Date: August 26, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-504-01(0-6)-081513
<b>Lab Order:</b>	13080639	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	8/15/2013 9:15:00 AM
<b>Lab ID:</b>	13080639-025A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>				Prep Date: <b>8/20/2013</b>	Analyst: <b>LB</b>
Mercury	0.19	0.025		mg/Kg-dry	1	8/21/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>8/21/2013</b>	Analyst: <b>JG</b>
Antimony	ND	4.8		mg/Kg-dry	20	8/22/2013
Cadmium	1.8	1.2		mg/Kg-dry	20	8/22/2013
Chromium	21	2.4		mg/Kg-dry	20	8/22/2013
Copper	41	6.1		mg/Kg-dry	20	8/22/2013
Lead	390	1.2		mg/Kg-dry	20	8/22/2013
Tin	26	12	*	mg/Kg-dry	20	8/22/2013
Zinc	240	12		mg/Kg-dry	20	8/22/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: <b>8/20/2013</b>	Analyst: <b>SDA</b>
Percent Moisture	20.2	0.2	*	wt%	1	8/20/2013

**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
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 HT - Sample received past holding time  
 \* - Non-accredited parameter

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 S - Spike Recovery outside accepted recovery limits  
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 H - Holding time exceeded



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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Report Date: August 26, 2013

Print Date: August 26, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-504-01(0-6)-081513
<b>Lab Order:</b>	13080639	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	8/15/2013 9:15:00 AM
<b>Lab ID:</b>	13080639-025B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>8/22/2013</b>	Analyst: <b>JG</b>
Lead	330	5.1		mg/Kg-dry	100	8/22/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
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	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: August 26, 2013

Print Date: August 26, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-505-01(0-6)-081513
<b>Lab Order:</b>	13080639	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	8/15/2013 10:25:00 AM
<b>Lab ID:</b>	13080639-026A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>		Prep Date: <b>8/20/2013</b>		Analyst: <b>LB</b>	
Mercury	0.97	0.077		mg/Kg-dry	3	8/21/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>		Prep Date: <b>8/21/2013</b>		Analyst: <b>JG</b>	
Antimony	ND	5.3		mg/Kg-dry	20	8/22/2013
Cadmium	5.5	1.3		mg/Kg-dry	20	8/22/2013
Chromium	53	2.6		mg/Kg-dry	20	8/22/2013
Copper	170	6.6		mg/Kg-dry	20	8/22/2013
Lead	1300	1.3		mg/Kg-dry	20	8/22/2013
Tin	33	13	*	mg/Kg-dry	20	8/22/2013
Zinc	1300	13		mg/Kg-dry	20	8/22/2013
<b>Percent Moisture</b>	<b>D2974</b>		Prep Date: <b>8/20/2013</b>		Analyst: <b>SDA</b>	
Percent Moisture	25.4	0.2	*	wt%	1	8/20/2013

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Report Date: August 26, 2013

Print Date: August 26, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-505-01(0-6)-081513
<b>Lab Order:</b>	13080639	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	8/15/2013 10:25:00 AM
<b>Lab ID:</b>	13080639-026B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: <b>8/22/2013</b>	Analyst: <b>JG</b>
Lead	1900	5.1		mg/Kg-dry	100	8/22/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: August 26, 2013

Print Date: August 26, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-505-01(0-6)-081513D
<b>Lab Order:</b>	13080639	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	8/15/2013 10:30:00 AM
<b>Lab ID:</b>	13080639-027A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>				Prep Date: <b>8/20/2013</b>	Analyst: <b>LB</b>
Mercury	0.87	0.027		mg/Kg-dry	1	8/21/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>8/21/2013</b>	Analyst: <b>JG</b>
Antimony	ND	4.5		mg/Kg-dry	20	8/22/2013
Cadmium	6	1.1		mg/Kg-dry	20	8/22/2013
Chromium	35	2.2		mg/Kg-dry	20	8/22/2013
Copper	180	5.6		mg/Kg-dry	20	8/22/2013
Lead	1400	1.1		mg/Kg-dry	20	8/22/2013
Tin	30	11	*	mg/Kg-dry	20	8/22/2013
Zinc	1300	11		mg/Kg-dry	20	8/22/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: <b>8/20/2013</b>	Analyst: <b>SDA</b>
Percent Moisture	24.9	0.2	*	wt%	1	8/20/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
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	HT - Sample received past holding time	E - Value above quantitation range
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<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-505-01(0-6)-081513D
<b>Lab Order:</b>	13080639	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	8/15/2013 10:30:00 AM
<b>Lab ID:</b>	13080639-027B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: <b>8/22/2013</b>	Analyst: <b>JG</b>
Lead	1600	5.3		mg/Kg-dry	100	8/22/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
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	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: August 26, 2013

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<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-506-01(0-6)-081513
<b>Lab Order:</b>	13080639	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	8/15/2013 11:40:00 AM
<b>Lab ID:</b>	13080639-028A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>		Prep Date: <b>8/20/2013</b>		Analyst: <b>LB</b>	
Mercury	0.99	0.063		mg/Kg-dry	3	8/21/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>		Prep Date: <b>8/21/2013</b>		Analyst: <b>JG</b>	
Antimony	ND	4.6		mg/Kg-dry	20	8/22/2013
Cadmium	4.1	1.1		mg/Kg-dry	20	8/22/2013
Chromium	28	2.3		mg/Kg-dry	20	8/22/2013
Copper	94	5.7		mg/Kg-dry	20	8/22/2013
Lead	940	1.1		mg/Kg-dry	20	8/22/2013
Tin	17	11	*	mg/Kg-dry	20	8/22/2013
Zinc	780	11		mg/Kg-dry	20	8/22/2013
<b>Percent Moisture</b>	<b>D2974</b>		Prep Date: <b>8/20/2013</b>		Analyst: <b>SDA</b>	
Percent Moisture	12.7	0.2	*	wt%	1	8/20/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-506-01(0-6)-081513
<b>Lab Order:</b>	13080639	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	8/15/2013 11:40:00 AM
<b>Lab ID:</b>	13080639-028B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: <b>8/22/2013</b>	Analyst: <b>JG</b>
Lead	1400	4.8		mg/Kg-dry	100	8/22/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
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Report Date: August 26, 2013

Print Date: August 26, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-507-01(0-6)-081513
<b>Lab Order:</b>	13080639	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	8/15/2013 1:30:00 PM
<b>Lab ID:</b>	13080639-029A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>				Prep Date: <b>8/20/2013</b>	Analyst: <b>LB</b>
Mercury	0.25	0.02		mg/Kg-dry	1	8/21/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>8/21/2013</b>	Analyst: <b>JG</b>
Antimony	ND	4		mg/Kg-dry	20	8/22/2013
Cadmium	3.2	0.99		mg/Kg-dry	20	8/22/2013
Chromium	15	2		mg/Kg-dry	20	8/22/2013
Copper	48	4.9		mg/Kg-dry	20	8/22/2013
Lead	270	0.99		mg/Kg-dry	20	8/22/2013
Tin	ND	9.9	*	mg/Kg-dry	20	8/22/2013
Zinc	280	9.9		mg/Kg-dry	20	8/22/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: <b>8/20/2013</b>	Analyst: <b>SDA</b>
Percent Moisture	11.3	0.2	*	wt%	1	8/20/2013

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	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded



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Report Date: August 26, 2013

Print Date: August 26, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-507-01(0-6)-081513
<b>Lab Order:</b>	13080639	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	8/15/2013 1:30:00 PM
<b>Lab ID:</b>	13080639-029B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: <b>8/22/2013</b>	Analyst: <b>JG</b>
Lead	630	4.7		mg/Kg-dry	100	8/22/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-508-01(0-6)-081513
<b>Lab Order:</b>	13080639	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	8/15/2013 2:45:00 PM
<b>Lab ID:</b>	13080639-030A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>				Prep Date: <b>8/20/2013</b>	Analyst: <b>LB</b>
Mercury	0.48	0.02		mg/Kg-dry	1	8/21/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>8/21/2013</b>	Analyst: <b>JG</b>
Antimony	ND	4.4		mg/Kg-dry	20	8/22/2013
Cadmium	2.7	1.1		mg/Kg-dry	20	8/22/2013
Chromium	26	2.2		mg/Kg-dry	20	8/22/2013
Copper	52	5.5		mg/Kg-dry	20	8/22/2013
Lead	580	1.1		mg/Kg-dry	20	8/22/2013
Tin	ND	11	*	mg/Kg-dry	20	8/22/2013
Zinc	400	11		mg/Kg-dry	20	8/22/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: <b>8/20/2013</b>	Analyst: <b>SDA</b>
Percent Moisture	15.2	0.2	*	wt%	1	8/20/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-508-01(0-6)-081513
<b>Lab Order:</b>	13080639	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	8/15/2013 2:45:00 PM
<b>Lab ID:</b>	13080639-030B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: <b>8/22/2013</b>	Analyst: <b>JG</b>
Lead	290	4.8		mg/Kg-dry	100	8/22/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: August 26, 2013

Print Date: August 26, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-508-01(6-24)-081513
<b>Lab Order:</b>	13080639	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	8/15/2013 2:50:00 PM
<b>Lab ID:</b>	13080639-031A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>				Prep Date: <b>8/20/2013</b>	Analyst: <b>LB</b>
Mercury	0.34	0.023		mg/Kg-dry	1	8/21/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>8/21/2013</b>	Analyst: <b>JG</b>
Antimony	ND	4.1		mg/Kg-dry	20	8/22/2013
Cadmium	1.8	1		mg/Kg-dry	20	8/22/2013
Chromium	9	2.1		mg/Kg-dry	20	8/22/2013
Copper	25	5.2		mg/Kg-dry	20	8/22/2013
Lead	140	1		mg/Kg-dry	20	8/22/2013
Tin	12	10	*	mg/Kg-dry	20	8/22/2013
Zinc	210	10		mg/Kg-dry	20	8/22/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: <b>8/20/2013</b>	Analyst: <b>SDA</b>
Percent Moisture	19.2	0.2	*	wt%	1	8/20/2013

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 HT - Sample received past holding time  
 \* - Non-accredited parameter

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Print Date: August 26, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-508-01(6-24)-081513
<b>Lab Order:</b>	13080639	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	8/15/2013 2:50:00 PM
<b>Lab ID:</b>	13080639-031B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: <b>8/22/2013</b>	Analyst: <b>JG</b>
Lead	110	4.4		mg/Kg-dry	100	8/22/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

**STAT Analysis Corporation**

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Report Date: August 26, 2013

Print Date: August 26, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-509-01(0-6)-081513
<b>Lab Order:</b>	13080639	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	8/15/2013 4:00:00 PM
<b>Lab ID:</b>	13080639-032A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>				Prep Date: <b>8/20/2013</b>	Analyst: <b>LB</b>
Mercury	1.2	0.076		mg/Kg-dry	3	8/21/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>8/21/2013</b>	Analyst: <b>JG</b>
Antimony	ND	5		mg/Kg-dry	20	8/22/2013
Cadmium	4.7	1.2		mg/Kg-dry	20	8/22/2013
Chromium	40	2.5		mg/Kg-dry	20	8/22/2013
Copper	120	6.2		mg/Kg-dry	20	8/22/2013
Lead	1400	1.2		mg/Kg-dry	20	8/22/2013
Tin	53	12	*	mg/Kg-dry	20	8/22/2013
Zinc	830	12		mg/Kg-dry	20	8/22/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: <b>8/20/2013</b>	Analyst: <b>SDA</b>
Percent Moisture	21.3	0.2	*	wt%	1	8/20/2013

**Qualifiers:**  
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 HT - Sample received past holding time  
 \* - Non-accredited parameter

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 R - RPD outside accepted recovery limits  
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Report Date: August 26, 2013

Print Date: August 26, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-509-01(0-6)-081513
<b>Lab Order:</b>	13080639	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	8/15/2013 4:00:00 PM
<b>Lab ID:</b>	13080639-032B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: <b>8/22/2013</b>	Analyst: <b>JG</b>
Lead	1400	4.9		mg/Kg-dry	100	8/22/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: August 26, 2013

Print Date: August 26, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-510-01(0-6)-081513
<b>Lab Order:</b>	13080639	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	8/15/2013 4:50:00 PM
<b>Lab ID:</b>	13080639-033A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>				Prep Date: <b>8/20/2013</b>	Analyst: <b>LB</b>
Mercury	0.99	0.07		mg/Kg-dry	3	8/21/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>8/21/2013</b>	Analyst: <b>JG</b>
Antimony	ND	4.3		mg/Kg-dry	20	8/22/2013
Cadmium	4.1	1.1		mg/Kg-dry	20	8/22/2013
Chromium	28	2.1		mg/Kg-dry	20	8/22/2013
Copper	100	5.4		mg/Kg-dry	20	8/22/2013
Lead	1700	1.1		mg/Kg-dry	20	8/22/2013
Tin	25	11	*	mg/Kg-dry	20	8/22/2013
Zinc	790	11		mg/Kg-dry	20	8/22/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: <b>8/20/2013</b>	Analyst: <b>SDA</b>
Percent Moisture	16.0	0.2	*	wt%	1	8/20/2013

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Report Date: August 26, 2013

Print Date: August 26, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-510-01(0-6)-081513
<b>Lab Order:</b>	13080639	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	8/15/2013 4:50:00 PM
<b>Lab ID:</b>	13080639-033B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: <b>8/22/2013</b>	Analyst: <b>JG</b>
Lead	2200	4.8		mg/Kg-dry	100	8/22/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: August 26, 2013

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<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-511-01(0-6)-081613
<b>Lab Order:</b>	13080639	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	8/16/2013 8:30:00 AM
<b>Lab ID:</b>	13080639-034A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>				Prep Date: <b>8/20/2013</b>	Analyst: <b>LB</b>
Mercury	0.2	0.021		mg/Kg-dry	1	8/21/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>8/21/2013</b>	Analyst: <b>JG</b>
Antimony	ND	4.4		mg/Kg-dry	20	8/22/2013
Cadmium	1.7	1.1		mg/Kg-dry	20	8/22/2013
Chromium	21	2.2		mg/Kg-dry	20	8/22/2013
Copper	40	5.6		mg/Kg-dry	20	8/22/2013
Lead	210	1.1		mg/Kg-dry	20	8/22/2013
Tin	ND	11	*	mg/Kg-dry	20	8/22/2013
Zinc	170	11		mg/Kg-dry	20	8/22/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: <b>8/20/2013</b>	Analyst: <b>SDA</b>
Percent Moisture	15.1	0.2	*	wt%	1	8/20/2013

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 E - Value above quantitation range  
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Report Date: August 26, 2013

Print Date: August 26, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-511-01(0-6)-081613
<b>Lab Order:</b>	13080639	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	8/16/2013 8:30:00 AM
<b>Lab ID:</b>	13080639-034B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: <b>8/22/2013</b>	Analyst: <b>JG</b>
Lead	370	4.6		mg/Kg-dry	100	8/22/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: August 26, 2013

Print Date: August 26, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-512-01(0-6)-081613
<b>Lab Order:</b>	13080639	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	8/16/2013 9:20:00 AM
<b>Lab ID:</b>	13080639-035A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>				Prep Date: <b>8/20/2013</b>	Analyst: <b>LB</b>
Mercury	0.27	0.02		mg/Kg-dry	1	8/21/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>8/21/2013</b>	Analyst: <b>JG</b>
Antimony	ND	4.7		mg/Kg-dry	20	8/22/2013
Cadmium	1.7	1.2		mg/Kg-dry	20	8/22/2013
Chromium	19	2.3		mg/Kg-dry	20	8/22/2013
Copper	37	5.9		mg/Kg-dry	20	8/22/2013
Lead	320	1.2		mg/Kg-dry	20	8/22/2013
Tin	ND	12	*	mg/Kg-dry	20	8/22/2013
Zinc	230	12		mg/Kg-dry	20	8/22/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: <b>8/20/2013</b>	Analyst: <b>SDA</b>
Percent Moisture	16.2	0.2	*	wt%	1	8/20/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: August 26, 2013

Print Date: August 26, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-512-01(0-6)-081613
<b>Lab Order:</b>	13080639	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	8/16/2013 9:20:00 AM
<b>Lab ID:</b>	13080639-035B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>8/22/2013</b>	Analyst: <b>JG</b>
Lead	520	4.6		mg/Kg-dry	100	8/22/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
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Report Date: August 26, 2013

Print Date: August 26, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-513-01(0-6)-081613
<b>Lab Order:</b>	13080639	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	8/16/2013 9:50:00 AM
<b>Lab ID:</b>	13080639-036A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>				Prep Date: <b>8/20/2013</b>	Analyst: <b>LB</b>
Mercury	0.2	0.022		mg/Kg-dry	1	8/21/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>8/21/2013</b>	Analyst: <b>JG</b>
Antimony	ND	4.2		mg/Kg-dry	20	8/22/2013
Cadmium	1.4	1		mg/Kg-dry	20	8/22/2013
Chromium	31	2.1		mg/Kg-dry	20	8/22/2013
Copper	45	5.2		mg/Kg-dry	20	8/22/2013
Lead	170	1		mg/Kg-dry	20	8/22/2013
Tin	ND	10	*	mg/Kg-dry	20	8/22/2013
Zinc	200	10		mg/Kg-dry	20	8/22/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: <b>8/20/2013</b>	Analyst: <b>SDA</b>
Percent Moisture	19.7	0.2	*	wt%	1	8/20/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: August 26, 2013

Print Date: August 26, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-513-01(0-6)-081613
<b>Lab Order:</b>	13080639	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	8/16/2013 9:50:00 AM
<b>Lab ID:</b>	13080639-036B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: <b>8/22/2013</b>	Analyst: <b>JG</b>
Lead	230	4.7		mg/Kg-dry	100	8/22/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: August 26, 2013

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<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-513-01(0-6)-081613D
<b>Lab Order:</b>	13080639	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	8/16/2013 9:55:00 AM
<b>Lab ID:</b>	13080639-037A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>				Prep Date: <b>8/20/2013</b>	Analyst: <b>LB</b>
Mercury	0.28	0.025		mg/Kg-dry	1	8/21/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>8/21/2013</b>	Analyst: <b>JG</b>
Antimony	ND	4.2		mg/Kg-dry	20	8/22/2013
Cadmium	1.3	1		mg/Kg-dry	20	8/22/2013
Chromium	23	2.1		mg/Kg-dry	20	8/22/2013
Copper	42	5.2		mg/Kg-dry	20	8/22/2013
Lead	140	1		mg/Kg-dry	20	8/22/2013
Tin	ND	10	*	mg/Kg-dry	20	8/22/2013
Zinc	200	10		mg/Kg-dry	20	8/22/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: <b>8/20/2013</b>	Analyst: <b>SDA</b>
Percent Moisture	20.6	0.2	*	wt%	1	8/20/2013

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 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

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 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded



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Print Date: August 26, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-513-01(0-6)-081613D
<b>Lab Order:</b>	13080639	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	8/16/2013 9:55:00 AM
<b>Lab ID:</b>	13080639-037B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>8/22/2013</b>	Analyst: <b>JG</b>
Lead	210	4.8		mg/Kg-dry	100	8/22/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
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<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-514-01(0-6)-081613
<b>Lab Order:</b>	13080639	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	8/16/2013 11:25:00 AM
<b>Lab ID:</b>	13080639-038A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>				Prep Date: <b>8/20/2013</b>	Analyst: <b>LB</b>
Mercury	0.28	0.024		mg/Kg-dry	1	8/21/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>8/21/2013</b>	Analyst: <b>JG</b>
Antimony	ND	4.3		mg/Kg-dry	20	8/22/2013
Cadmium	2.1	1.1		mg/Kg-dry	20	8/22/2013
Chromium	23	2.1		mg/Kg-dry	20	8/22/2013
Copper	59	5.4		mg/Kg-dry	20	8/22/2013
Lead	410	1.1		mg/Kg-dry	20	8/22/2013
Tin	ND	11	*	mg/Kg-dry	20	8/22/2013
Zinc	370	11		mg/Kg-dry	20	8/22/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: <b>8/20/2013</b>	Analyst: <b>SDA</b>
Percent Moisture	18.2	0.2	*	wt%	1	8/20/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Report Date: August 26, 2013

Print Date: August 26, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-514-01(0-6)-081613
<b>Lab Order:</b>	13080639	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	8/16/2013 11:25:00 AM
<b>Lab ID:</b>	13080639-038B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: <b>8/22/2013</b>	Analyst: <b>JG</b>
Lead	430	5		mg/Kg-dry	100	8/22/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: August 26, 2013

Print Date: August 26, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-514-01(6-24)-081613
<b>Lab Order:</b>	13080639	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	8/16/2013 11:30:00 AM
<b>Lab ID:</b>	13080639-039A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>				Prep Date: <b>8/20/2013</b>	Analyst: <b>LB</b>
Mercury	0.63	0.019		mg/Kg-dry	1	8/21/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>8/21/2013</b>	Analyst: <b>JG</b>
Antimony	ND	4.7		mg/Kg-dry	20	8/22/2013
Cadmium	3.7	1.2		mg/Kg-dry	20	8/22/2013
Chromium	24	2.3		mg/Kg-dry	20	8/22/2013
Copper	92	5.9		mg/Kg-dry	20	8/22/2013
Lead	760	1.2		mg/Kg-dry	20	8/22/2013
Tin	31	12	*	mg/Kg-dry	20	8/22/2013
Zinc	1700	12		mg/Kg-dry	20	8/22/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: <b>8/20/2013</b>	Analyst: <b>SDA</b>
Percent Moisture	17.9	0.2	*	wt%	1	8/20/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Report Date: August 26, 2013

Print Date: August 26, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-514-01(6-24)-081613
<b>Lab Order:</b>	13080639	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	8/16/2013 11:30:00 AM
<b>Lab ID:</b>	13080639-039B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>8/22/2013</b>	Analyst: <b>JG</b>
Lead	830	4.7		mg/Kg-dry	100	8/22/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Report Date: August 26, 2013

Print Date: August 26, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-515-01(0-6)-081613
<b>Lab Order:</b> 13080639	<b>Tag Number:</b>
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 8/16/2013 1:30:00 PM
<b>Lab ID:</b> 13080639-040A	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>		Prep Date: 8/20/2013		Analyst: LB	
Mercury	0.89 J	0.096		mg/Kg-dry	5	8/21/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>		Prep Date: 8/23/2013		Analyst: JG	
Antimony	9.2 J	4.8		mg/Kg-dry	20	8/23/2013
Cadmium	7.4	1.2		mg/Kg-dry	20	8/23/2013
Chromium	22	2.4		mg/Kg-dry	20	8/23/2013
Copper	140	6		mg/Kg-dry	20	8/23/2013
Lead	1600	1.2		mg/Kg-dry	20	8/23/2013
Tin	29 J	12	*	mg/Kg-dry	20	8/23/2013
Zinc	1100	12		mg/Kg-dry	20	8/23/2013
<b>Percent Moisture</b>	<b>D2974</b>		Prep Date: 8/20/2013		Analyst: SDA	
Percent Moisture	19.1	0.2	*	wt%	1	8/20/2013

21  
9/4/13

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Report Date: August 26, 2013

Print Date: August 26, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-515-01(0-6)-081613
<b>Lab Order:</b>	13080639	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	8/16/2013 1:30:00 PM
<b>Lab ID:</b>	13080639-040B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: 8/22/2013	Analyst: JG
Lead	1600	4.9		mg/Kg-dry	100	8/22/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Report Date: August 26, 2013

Print Date: August 26, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-516-01(0-6)-081613
<b>Lab Order:</b>	13080639	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	8/16/2013 2:50:00 PM
<b>Lab ID:</b>	13080639-041A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>				Prep Date: <b>8/20/2013</b>	Analyst: <b>LB</b>
Mercury	0.31	0.026		mg/Kg-dry	1	8/21/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>8/21/2013</b>	Analyst: <b>JG</b>
Antimony	ND	4.8		mg/Kg-dry	20	8/22/2013
Cadmium	5.3	1.2		mg/Kg-dry	20	8/22/2013
Chromium	32	2.4		mg/Kg-dry	20	8/22/2013
Copper	70	6		mg/Kg-dry	20	8/22/2013
Lead	520	1.2		mg/Kg-dry	20	8/22/2013
Tin	ND	12	*	mg/Kg-dry	20	8/22/2013
Zinc	500	12		mg/Kg-dry	20	8/22/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: <b>8/20/2013</b>	Analyst: <b>SDA</b>
Percent Moisture	23.3	0.2	*	wt%	1	8/20/2013

**Qualifiers:**  
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 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded



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Report Date: August 26, 2013

Print Date: August 26, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-516-01(0-6)-081613
<b>Lab Order:</b>	13080639	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	8/16/2013 2:50:00 PM
<b>Lab ID:</b>	13080639-041B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: <b>8/22/2013</b>	Analyst: <b>JG</b>
Lead	450	4.9		mg/Kg-dry	100	8/22/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Report Date: August 26, 2013

Print Date: August 26, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-516-01(0-6)-081613D
<b>Lab Order:</b>	13080639	<b>Tag Number:</b>	
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	8/16/2013 2:55:00 PM
<b>Lab ID:</b>	13080639-042A	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>				Prep Date: <b>8/20/2013</b>	Analyst: <b>LB</b>
Mercury	0.62	0.022		mg/Kg-dry	1	8/21/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>8/21/2013</b>	Analyst: <b>JG</b>
Antimony	ND	5.1		mg/Kg-dry	20	8/22/2013
Cadmium	4.2	1.3		mg/Kg-dry	20	8/22/2013
Chromium	33	2.5		mg/Kg-dry	20	8/22/2013
Copper	67	6.3		mg/Kg-dry	20	8/22/2013
Lead	560	1.3		mg/Kg-dry	20	8/22/2013
Tin	ND	13	*	mg/Kg-dry	20	8/22/2013
Zinc	470	13		mg/Kg-dry	20	8/22/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: <b>8/20/2013</b>	Analyst: <b>SDA</b>
Percent Moisture	24.0	0.2	*	wt%	1	8/20/2013

**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Report Date: August 26, 2013

Print Date: August 26, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-516-01(0-6)-081613D
<b>Lab Order:</b>	13080639	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	8/16/2013 2:55:00 PM
<b>Lab ID:</b>	13080639-042B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: <b>8/22/2013</b>	Analyst: <b>JG</b>
Lead	470	5		mg/Kg-dry	100	8/22/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Report Date: August 26, 2013

Print Date: August 26, 2013

<b>Client:</b> Weston Solutions	<b>Client Sample ID:</b> PA-516-01(6-18)-081613
<b>Lab Order:</b> 13080639	<b>Tag Number:</b>
<b>Project:</b> Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b> 8/16/2013 3:00:00 PM
<b>Lab ID:</b> 13080639-043A	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>				Prep Date: 8/20/2013	Analyst: LB
Mercury	0.5	0.022		mg/Kg-dry	1	8/21/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: 8/21/2013	Analyst: JG
Antimony	ND	4.8	J	mg/Kg-dry	20	8/22/2013
Cadmium	3.2	1.2		mg/Kg-dry	20	8/22/2013
Chromium	24	2.4		mg/Kg-dry	20	8/22/2013
Copper	64	6		mg/Kg-dry	20	8/22/2013
Lead	550	1.2		mg/Kg-dry	20	8/22/2013
Tin	ND	12	*	mg/Kg-dry	20	8/22/2013
Zinc	610	12		mg/Kg-dry	20	8/22/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: 8/20/2013	Analyst: SDA
Percent Moisture	20.9	0.2	*	wt%	1	8/20/2013

2  
9/4/13

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Report Date: August 26, 2013

Print Date: August 26, 2013

<b>Client:</b>	Weston Solutions	<b>Client Sample ID:</b>	PA-516-01(6-18)-081613
<b>Lab Order:</b>	13080639	<b>Tag Number:</b>	Fine Grained
<b>Project:</b>	Pilsen Soil Site, Pilsen, Chicago, IL	<b>Collection Date:</b>	8/16/2013 3:00:00 PM
<b>Lab ID:</b>	13080639-043B	<b>Matrix:</b>	Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>		<b>SW6020 (SW3050B)</b>			Prep Date: <b>8/22/2013</b>	Analyst: <b>JG</b>
Lead	740	5		mg/Kg-dry	100	8/22/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

Company: Weston Solutions, Inc.  
 Project Number: \_\_\_\_\_  
 Project Name: Pilsen Soil Site  
 Project Location: Pilsen, Chicago, IL  
 Sampler(s): D. Sena & W. Budd  
 Report To: Tanya Balla Phone: 847-918-4094  
 Fax: \_\_\_\_\_  
 e-mail: Tanya.Balla@westonsolutions.com

P.O. No.: \_\_\_\_\_  
 Quote No.: \_\_\_\_\_

Select metals graded

Client Sample Number/Description:	Date Taken	Time Taken	Matrix	Comp	Grb	Presrv	No. of Containers
PA-489-01(06)-081213	8-12-13	1440	Soil	X	A		1
PA-489-01(06)-081213	8-12-13	1445					
PA-490-01(06)-081213	8-12-13	1530					
PA-491-01(06)-081213	8-12-13	1620					
PA-491-01(06)-081213	8-12-13	1625					
PA-491-01(06)-081213D	8-12-13	1630					
PA-492-01(06)-081213	8-12-13	1000					
PA-493-01(06)-081213	8-12-13	1045					
PA-494-01(06)-081213	8-12-13	1200					
PA-495-01(06)-081213	8-12-13	1400					
PA-495-01(06)-081213	8-12-13	1405					
PA-496-01(06)-081213	8-12-13	1500					
PA-497-01(06)-081213	8-12-13	1550					
PA-498-01(06)-081213	8-12-13	1650					
PA-498-01(06)-081213D	8-12-13	1655					
PA-499-01(06)-081213	8-12-13	1700					
PA-500-01(06)-081213	8-12-13	945					
PA-500-01(06)-081213	8-14-13	1100					
PA-500-01(06)-081213	8-14-13	1105					
PA-501-01(06)-081213	8-14-13	1200					

Relinquished by: (Signature) [Signature] Date/Time: 8-16-13/1642  
 Received by: (Signature) [Signature] Date/Time: 8/16/13/1642  
 Relinquished by: (Signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received by: (Signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Relinquished by: (Signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received by: (Signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments: Select metals = Pb, Zn, Cu, Hg  
Ca, Sn, Sb, Cr  
 Preservation Code: A = None B = HNO<sub>3</sub> C = NaOH  
 D = H<sub>2</sub>SO<sub>4</sub> E = HCl F = 50335/EnCore G = Other

Laboratory Work Order No.: 13080639  
 Received On: (Year) (Month) (Day) 2013 08 16  
 Completed: 21.9

Remarks	Lab No.	Turn Around	Results Needed
	001	Standard	
	002		
	003		
	004		
	005		
	006		
	007		
	008		
	009		
	010		
	011		
	012		
	013		
	014		
	015		
	016		
	017		
	018		
	019		
	020		

Stat

**CHAIN OF CUSTODY RECORD**

Company: Watson Solutions, Inc.  
 Project Number: \_\_\_\_\_ Client Tracking No.: \_\_\_\_\_  
 Project Name: Pison Soil Site  
 Project Location: Pison, Chicago, IL  
 Sampler(s): Dave Seng & William Budd  
 Report To: Kevin Bogler Phone: 847-918-4094  
 Fax: \_\_\_\_\_

P.O. No.: \_\_\_\_\_  
 Quote No.: \_\_\_\_\_

Turn Around: \_\_\_\_\_

Results Needed: \_\_\_\_\_

Remarks: \_\_\_\_\_

Lab No.: \_\_\_\_\_

QC Level	1	2	3	4	Client Sample Number/Description	Date Taken	Time Taken	Matrix	Comp	Gr	Pregr	No. of Containers
					PA-502-01(06)-081413	8-14-13	1400	Soil	X		A	1
					PA-502-01(06-24)-081413	8-14-13	1405					
					PA-503-01(06-06)-081413	8-14-13	1515					
					PA-503-01(06-24)-081413	8-14-13	1520					
					PA-504-01(06-06)-081513	8-15-13	915					
					PA-505-01(06-06)-081513	8-15-13	1025					
					PA-505-01(06-06)-081513 D	8-15-13	1030					
					PA-506-01(06-06)-081513	8-15-13	1140					
					PA-507-01(06-06)-081513	8-15-13	1330					
					PA-508-01(06-06)-081513	8-15-13	1445					
					PA-508-01(06-24)-081513	8-15-13	1456					
					PA-509-01(06-06)-081513	8-15-13	1600					
					PA-510-01(06-06)-081613	8-16-13	830					
					PA-511-01(06-06)-081613	8-16-13	920					
					PA-512-01(06-06)-081613	8-16-13	930					
					PA-513-01(06-06)-081613 D	8-16-13	955					
					PA-514-01(06-06)-081613	8-16-13	1125					
					PA-514-01(06-24)-081613	8-16-13	1130					
					PA-515-01(06-06)-081613	8-16-13	1330					

Relinquished by: (Signature) \_\_\_\_\_ Date/Time: 8-16-13/6143  
 Received by: (Signature) \_\_\_\_\_ Date/Time: 8/16/13/1643  
 Relinquished by: (Signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received by: (Signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Relinquished by: (Signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received by: (Signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments:  
 Select metals = Pb, Zn, Cu, Cr, Hg,  
 Cd, Sn, Sb

Preservation Code: A = Niue B = HNO<sub>3</sub> C = NaOH  
 D = H<sub>2</sub>SO<sub>4</sub> E = HCl F = 3035/EnCore G = Other

Received on box:  No   
 Laboratory Work Order No.: 13080639  
 Temperature: 44 °C





**Sample Receipt Checklist**

Client Name WESTON VERNON HILLS

Date and Time Received: 8/16/2013 4:42:00 PM

Work Order Number 13080639

Received by: DO

Checklist completed by:

*[Signature]* Date 8/17/13

Reviewed by:

*[Signature]* Date 8/20/13

Matrix: Carrier name Client Delivered

- Shipping container/cooler in good condition? Yes  No  Not Present
- Custody seals intact on shipping container/cooler? Yes  No  Not Present
- Custody seals intact on sample bottles? Yes  No  Not Present
- Chain of custody present? Yes  No
- Chain of custody signed when relinquished and received? Yes  No
- Chain of custody agrees with sample labels/containers? Yes  No
- Samples in proper container/bottle? Yes  No
- Sample containers intact? Yes  No
- Sufficient sample volume for indicated test? Yes  No
- All samples received within holding time? Yes  No
- Container or Temp Blank temperature in compliance? Yes  No  Temperature: 4.5 °C
- Water - VOA vials have zero headspace? No VOA vials submitted  Yes  No
- Water - Samples pH checked? Yes  No  Checked by: \_\_\_\_\_
- Water - Samples properly preserved? Yes  No  pH Adjusted? \_\_\_\_\_

Any No response must be detailed in the comments section below.

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Client / Person contacted: \_\_\_\_\_ Date contacted: \_\_\_\_\_ Contacted by: \_\_\_\_\_

Response: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Prep Start Date: 8/23/2013 11:45:47  
 Prep End Date: 8/23/2013 2:30:00 P

Prep Factor Units:  
 mL / g

Prep Batch 71524 Prep Code: M\_S\_PREP Technician: VA

Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
IMBS2 8/23/13			1	0	0	50	50.000	8/23/2013	8/23/2013
ILCSS2 8/23/13			1	0	0	50	50.000	8/23/2013	8/23/2013
13080662-001B	Soil		1.05	0	0	50	47.619	8/23/2013	8/23/2013
13080701-001B	Soil		1.065	0	0	50	46.948	8/23/2013	8/23/2013
13080701-002B	Soil		1.121	0	0	50	44.603	8/23/2013	8/23/2013
13080701-003B	Soil		1.054	0	0	50	47.438	8/23/2013	8/23/2013
13080701-003BMS	Soil		1.053	0	0	50	47.483	8/23/2013	8/23/2013
13080701-003BMSD	Soil		1.052	0	0	50	47.529	8/23/2013	8/23/2013
13080701-004B	Soil		1.024	0	0	50	48.828	8/23/2013	8/23/2013
13080701-005B	Soil		1.034	0	0	50	48.356	8/23/2013	8/23/2013
13080701-006B	Soil		1.048	0	0	50	47.710	8/23/2013	8/23/2013
13080701-007B	Soil		1.04	0	0	50	48.077	8/23/2013	8/23/2013
13080701-008B	Soil		1.029	0	0	50	48.591	8/23/2013	8/23/2013
13080807-001A	Soil		1.048	0	0	50	47.710	8/23/2013	8/23/2013
13080807-002A	Soil		1.141	0	0	50	43.821	8/23/2013	8/23/2013
13080807-003A	Soil		1.078	0	0	50	46.382	8/23/2013	8/23/2013
13080768-001B	Soil		1.09	0	0	50	45.872	8/23/2013	8/23/2013
13080768-003B	Soil		1.071	0	0	50	46.685	8/23/2013	8/23/2013
13080768-004B	Soil		1.02	0	0	50	49.020	8/23/2013	8/23/2013
13080768-006B	Soil		1.02	0	0	50	49.020	8/23/2013	8/23/2013
13080768-008B	Soil		1.081	0	0	50	46.253	8/23/2013	8/23/2013
13080639-040A	Soil		1.031	0	0	50	48.497	8/23/2013	8/23/2013
13080639-040AMS	Soil		1.04	0	0	50	48.077	8/23/2013	8/23/2013
13080639-040AMSD	Soil		1.036	0	0	50	48.263	8/23/2013	8/23/2013

**CLIENT:** Weston Solutions  
**Work Order:** 13080639  
**Project:** Pilsen Soil Site, Pilsen, Chicago, IL

# ANALYTICAL QC SUMMARY REPORT

**BatchID: 71524**

Sample ID	IMBS2 8/23/13	SampType:	MBLK	TestCode:	M_ICPMS_S	Units:	mg/Kg	Prep Date:	8/23/2013	Run ID:	ICPMS_130823A		
Client ID:	ZZZZZ	Batch ID:	71524	TestNo:	SW6020			Analysis Date:	8/23/2013	SeqNo:	2500386		
Analyte		Result		PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Antimony	ND			1.0									
Cadmium	0.135			0.25									J
Chromium	0.137			0.50									J
Copper	ND			1.2									J
Lead	0.224			0.25									J*
Tin	1.592			2.5									
Zinc	ND			2.5									

Sample ID	ILCSS2 8/23/13	SampType:	LCS	TestCode:	M_ICPMS_S	Units:	mg/Kg	Prep Date:	8/23/2013	Run ID:	ICPMS_130823A		
Client ID:	ZZZZZ	Batch ID:	71524	TestNo:	SW6020			Analysis Date:	8/23/2013	SeqNo:	2500387		
Analyte		Result		PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Antimony	14.95			1.0	12.5	0	120	80	120	0	0	
Cadmium	24.66			0.25	25	0.135	98.1	80	120	0	0	
Chromium	25.41			0.50	25	0.137	101	80	120	0	0	
Copper	25.3			1.2	25	0	101	80	120	0	0	
Lead	25.23			0.25	25	0.224	100	80	120	0	0	
Tin	14.32			2.5	12.5	1.592	102	80	120	0	0	*
Zinc	23.55			2.5	25	0	94.2	80	120	0	0	

Sample ID	13080639-040AMS	SampType:	MS	TestCode:	M_ICPMS_S	Units:	mg/Kg-dry	Prep Date:	8/23/2013	Run ID:	ICPMS-2_130823A		
Client ID:	PA-515-01(0-6)-0816	Batch ID:	71524	TestNo:	SW6020			Analysis Date:	8/23/2013	SeqNo:	2500330		
Analyte		Result		PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Antimony	21.14			4.8	14.86	9.154	80.7	75	125	0	0	
Cadmium	36.08			1.2	29.71	7.403	96.5	75	125	0	0	
Chromium	53.16			2.4	29.71	22.17	104	75	125	0	0	
Copper	179.1			5.9	29.71	136.9	142	75	125	0	0	S
Lead	1751			1.2	29.71	1558	649	75	125	0	0	S
Zinc	1031			12	29.71	1052	-70.6	75	125	0	0	S

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 \* - Non Accredited Parameter  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 H/HT - Holding Time Exceeded  
 B - Analyte detected in the associated Method Blank  
 E - Value above quantitation range

# ANALYTICAL QC SUMMARY REPORT

**CLIENT:** Weston Solutions  
**Work Order:** 13080639  
**Project:** Pilsen Soil Site, Pilsen, Chicago, IL

**BatchID: 71524**

Sample ID	13080639-040AMS	SampType:	MS	TestCode:	M_ICPMS_S	Units:	mg/Kg-dry	Prep Date:	8/23/2013	Run ID:	ICPMS_130823A		
Client ID:	PA-515-01(0-6)-0816	Batch ID:	71524	TestNo:	SW6020			Analysis Date:	8/23/2013	SeqNo:	2500421		
Analyte		Result		PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Tin		68.52		12	14.86	28.9	267	75	125	0	0		S*

Sample ID	13080639-040AMSD	SampType:	MSD	TestCode:	M_ICPMS_S	Units:	mg/Kg-dry	Prep Date:	8/23/2013	Run ID:	ICPMS-2_130823A		
Client ID:	PA-515-01(0-6)-0816	Batch ID:	71524	TestNo:	SW6020			Analysis Date:	8/23/2013	SeqNo:	2500332		
Analyte		Result		PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony		20.46		4.8	14.91	9.154	75.8	75	125	21.14	3.31	20	
Cadmium		38.45		1.2	29.83	7.403	104	75	125	36.08	6.36	20	
Chromium		56.9		2.4	29.83	22.17	116	75	125	53.16	6.80	20	
Copper		199.7		6.0	29.83	136.9	211	75	125	179.1	10.9	20	S
Lead		2347		1.2	29.83	1558	2640	75	125	1751	29.1	20	SR
Zinc		1139		12	29.83	1052	291	75	125	1031	9.93	20	S

Sample ID	13080639-040AMSD	SampType:	MSD	TestCode:	M_ICPMS_S	Units:	mg/Kg-dry	Prep Date:	8/23/2013	Run ID:	ICPMS_130823A		
Client ID:	PA-515-01(0-6)-0816	Batch ID:	71524	TestNo:	SW6020			Analysis Date:	8/23/2013	SeqNo:	2500422		
Analyte		Result		PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Tin		41.16		12	14.91	28.9	82.2	75	125	68.52	49.9	20	R*

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 R - RPD outside accepted recovery limits  
 H/HT - Holding Time Exceeded  
 B - Analyte detected in the associated Method Blank  
 E - Value above quantitation range

Prep Start Date: 8/21/2013 9:40:03 A

Prep End Date: 8/21/2013 4:50:00 P

Prep Batch 71436 Prep Code: M\_S\_PREP Technician: VA

Prep Factor Units:  
mL / g

Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
IMBS3 8/20/13			1	0	0	50	50.000	8/20/2013	8/20/2013
ILCSS3 8/20/13			1	0	0	50	50.000	8/20/2013	8/20/2013
13080637-001B	Soil		1.094	0	0	50	45.704	8/20/2013	8/20/2013
13080637-001BMS	Soil		1.074	0	0	50	46.555	8/20/2013	8/20/2013
13080637-001BMDS	Soil		1.076	0	0	50	46.468	8/20/2013	8/20/2013
13080598-001A	Solid		1.029	0	0	50	48.591	8/20/2013	8/20/2013
13080598-002A	Solid		1.004	0	0	50	49.801	8/20/2013	8/20/2013
13080598-003A	Solid		0.516	0	0	50	96.899	8/20/2013	8/20/2013
13080598-004A	Solid		0.992	0	0	50	50.403	8/20/2013	8/20/2013
13080681-001B	Soil		1.071	0	0	50	46.685	8/20/2013	8/20/2013
13080682-001A	Soil		1.13	0	0	50	44.248	8/20/2013	8/20/2013
13080692-001A	Soil		1.075	0	0	50	46.512	8/20/2013	8/20/2013
13080639-041A	Soil		1.079	0	0	50	46.339	8/21/2013	8/21/2013
13080639-042A	Soil		1.041	0	0	50	48.031	8/21/2013	8/21/2013
13080639-043A	Soil		1.033	0	0	50	48.403	8/21/2013	8/21/2013
13080639-043AMS	Soil		1.034	0	0	50	48.356	8/21/2013	8/21/2013
13080639-043AMSD	Soil		1.031	0	0	50	48.497	8/21/2013	8/21/2013

**CLIENT:** Weston Solutions  
**Work Order:** 13080639

**Project:** Pilsen Soil Site, Pilsen, Chicago, IL

# ANALYTICAL QC SUMMARY REPORT

**BatchID:** 71436

Sample ID	IMBS3 8/20/13	SampType:	MBLK	TestCode:	M_ICPMS_S	Units:	mg/Kg	Prep Date:	8/20/2013	Run ID:	ICPMS_130821B		
Client ID:	ZZZZZ	Batch ID:	71436	TestNo:	SW6020			Analysis Date:	8/21/2013	SeqNo:	2498757		
Analyte		Result		PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Antimony		ND		1.0									J
Cadmium		0.142		0.25									J
Chromium		0.2965		0.50									J
Copper		0.196		1.2									J
Lead		0.184		0.25									J
Tin		1.526		2.5									J*
Zinc		ND		2.5									

Sample ID	ILCSS3 8/20/13	SampType:	LCS	TestCode:	M_ICPMS_S	Units:	mg/Kg	Prep Date:	8/20/2013	Run ID:	ICPMS_130821B		
Client ID:	ZZZZZ	Batch ID:	71436	TestNo:	SW6020			Analysis Date:	8/21/2013	SeqNo:	2498758		
Analyte		Result		PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Antimony		14.4		1.0	12.5	0	115	80	120	0	0		
Cadmium		23.73		0.25	25	0.142	94.4	80	120	0	0		
Chromium		24.58		0.50	25	0.2965	97.2	80	120	0	0		
Copper		25.04		1.2	25	0.196	99.4	80	120	0	0		
Lead		24.8		0.25	25	0.184	98.5	80	120	0	0		*
Tin		13.63		2.5	12.5	1.526	96.8	80	120	0	0		
Zinc		23.28		2.5	25	0	93.1	80	120	0	0		

Sample ID	13080637-001BMS	SampType:	MS	TestCode:	M_ICPMS_S	Units:	mg/Kg-dry	Prep Date:	8/20/2013	Run ID:	ICPMS_130821B		
Client ID:	ZZZZZ	Batch ID:	71436	TestNo:	SW6020			Analysis Date:	8/21/2013	SeqNo:	2498764		
Analyte		Result		PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Antimony		2.31		2.2	13.89	0	16.6	75	125	0	0		S
Cadmium		26.78		0.56	27.78	0.7205	93.8	75	125	0	0		
Chromium		42.98		1.1	27.78	18.55	88	75	125	0	0		
Copper		44.62		2.8	27.78	23.38	76.5	75	125	0	0		
Lead		40.41		0.56	27.78	15.27	90.5	75	125	0	0		*
Tin		12.73		5.6	13.89	0	91.6	75	125	0	0		
Zinc		73.05		5.6	27.78	50.26	82.1	75	125	0	0		

**Qualifiers:** ND - Not Detected at the Reporting Limit  
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 \* - Non Accredited Parameter  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 B - Analyte detected in the associated Method Blank  
 E - Value above quantitation range  
 H/HT - Holding Time Exceeded

**CLIENT:** Weston Solutions  
**Work Order:** 13080639  
**Project:** Pilsen Soil Site, Pilsen, Chicago, IL

# ANALYTICAL QC SUMMARY REPORT

**BatchID: 71436**

Sample ID	13080639-043AMS	SampType:	MS	TestCode: M_ICPMS_S	Units: mg/Kg-dry	Prep Date:	8/21/2013	Run ID:	ICPMS-2_130822A		
Client ID:	PA-516-01(6-18)-081	Batch ID:	71436	TestNo: SW6020		Analysis Date:	8/22/2013	SeqNo:	2499197		
Analyte	Result	PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	9.087	4.8	14.91	0	61	75	125	0	0	0	S
Cadmium	32.69	1.2	29.81	3.232	98.8	75	125	0	0	0	
Chromium	51.27	2.4	29.81	23.6	92.8	75	125	0	0	0	
Copper	94.39	6.0	29.81	63.68	103	75	125	0	0	0	
Lead	729.8	1.2	29.81	547	613	75	125	0	0	0	S
Tin	28.33	12	14.91	9.573	126	75	125	0	0	0	S*
Zinc	650.5	12	29.81	607	146	75	125	0	0	0	S

Sample ID	13080637-001BMSD	SampType:	MSD	TestCode: M_ICPMS_S	Units: mg/Kg-dry	Prep Date:	8/20/2013	Run ID:	ICPMS_130821B		
Client ID:	ZZZZZ	Batch ID:	71436	TestNo: SW6020		Analysis Date:	8/21/2013	SeqNo:	2498765		
Analyte	Result	PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	2.339	2.2	13.86	0	16.9	75	125	2.31	1.25	20	S
Cadmium	27.2	0.55	27.73	0.7205	95.5	75	125	26.78	1.54	20	
Chromium	43.71	1.1	27.73	18.55	90.7	75	125	42.98	1.67	20	
Copper	47.42	2.8	27.73	23.38	86.7	75	125	44.62	6.09	20	
Lead	42.39	0.55	27.73	15.27	97.8	75	125	40.41	4.79	20	*
Tin	13.19	5.5	13.86	0	95.1	75	125	12.73	3.54	20	
Zinc	77.35	5.5	27.73	50.26	97.7	75	125	73.05	5.72	20	

Sample ID	13080639-043AMS	SampType:	MSD	TestCode: M_ICPMS_S	Units: mg/Kg-dry	Prep Date:	8/21/2013	Run ID:	ICPMS-2_130822A		
Client ID:	PA-516-01(6-18)-081	Batch ID:	71436	TestNo: SW6020		Analysis Date:	8/22/2013	SeqNo:	2499198		
Analyte	Result	PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	8.234	4.8	14.95	0	55.1	75	125	9.087	9.84	20	S
Cadmium	33.04	1.2	29.9	3.232	99.7	75	125	32.69	1.05	20	
Chromium	54.42	2.4	29.9	23.6	103	75	125	51.27	5.95	20	
Copper	101.6	6.0	29.9	63.68	127	75	125	94.39	7.36	20	S
Lead	690.1	1.2	29.9	547	479	75	125	729.8	5.60	20	S
Tin	32.28	12	14.95	9.573	152	75	125	28.33	13.0	20	S*
Zinc	654.2	12	29.9	607	158	75	125	650.5	0.565	20	S

**Qualifiers:** ND - Not Detected at the Reporting Limit  
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 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 B - Analyte detected in the associated Method Blank  
 H/HT - Holding Time Exceeded  
 E - Value above quantitation range

Prep Start Date: 8/20/2013 4:30:20 P  
 Prep End Date: 8/20/2013 7:10:00 P

Prep Factor Units:  
 mL / g

Prep Batch 71437 Prep Code: M\_S\_PREP Technician: VA

Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
IMBS4 8/20/13			1	0	0	50	50.000	8/20/2013	8/20/2013
ILCSS4 8/20/13			1	0	0	50	50.000	8/20/2013	8/20/2013
13080639-001A	Soil		1.125	0	0	50	44.444	8/20/2013	8/20/2013
13080639-002A	Soil		1.083	0	0	50	46.168	8/20/2013	8/20/2013
13080639-003A	Soil		1.081	0	0	50	46.253	8/20/2013	8/20/2013
13080639-004A	Soil		1.011	0	0	50	49.456	8/20/2013	8/20/2013
13080639-005A	Soil		1.035	0	0	50	48.309	8/20/2013	8/20/2013
13080639-006A	Soil		1.12	0	0	50	44.643	8/20/2013	8/20/2013
13080639-007A	Soil		1.111	0	0	50	45.005	8/20/2013	8/20/2013
13080639-008A	Soil		1.134	0	0	50	44.092	8/20/2013	8/20/2013
13080639-009A	Soil		1.048	0	0	50	47.710	8/20/2013	8/20/2013
13080639-010A	Soil		1.215	0	0	50	41.152	8/20/2013	8/20/2013
13080639-011A	Soil		1.172	0	0	50	42.662	8/20/2013	8/20/2013
13080639-012A	Soil		1.038	0	0	50	48.170	8/20/2013	8/20/2013
13080639-013A	Soil		1.129	0	0	50	44.287	8/20/2013	8/20/2013
13080639-014A	Soil		1.202	0	0	50	41.597	8/20/2013	8/20/2013
13080639-015A	Soil		1.07	0	0	50	46.729	8/20/2013	8/20/2013
13080639-016A	Soil		1.013	0	0	50	49.358	8/20/2013	8/20/2013
13080639-017A	Soil		1.035	0	0	50	48.309	8/20/2013	8/20/2013
13080639-017AMS	Soil		1.035	0	0	50	48.309	8/20/2013	8/20/2013
13080639-017AMSD	Soil		1.034	0	0	50	48.356	8/20/2013	8/20/2013
13080639-018A	Soil		1.055	0	0	50	47.393	8/20/2013	8/20/2013
13080639-019A	Soil		1.185	0	0	50	42.194	8/20/2013	8/20/2013
13080639-020A	Soil		1.114	0	0	50	44.883	8/20/2013	8/20/2013



# ANALYTICAL QC SUMMARY REPORT

**CLIENT:** Weston Solutions  
**Work Order:** 13080639  
**Project:** Pilsen Soil Site, Pilsen, Chicago, IL

**BatchID: 71437**

Sample ID	IMBS4 8/20/13	SampType:	MBLK	TestCode:	M_ICPMS_S	Units:	mg/Kg	Prep Date:	8/20/2013	Run ID:	ICPMS_130820A
Client ID:	ZZZZZ	Batch ID:	71437	TestNo:	SW6020			Analysis Date:	8/21/2013	SeqNo:	2497284
Analyte	Result	PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Antimony	ND	1.0									
Cadmium	ND	0.25									
Chromium	0.081	0.50									J
Copper	ND	1.2									
Lead	ND	0.25									
Tin	2.052	2.5									J*
Zinc	ND	2.5									

Sample ID	ILCSS4 8/20/13	SampType:	LCS	TestCode:	M_ICPMS_S	Units:	mg/Kg	Prep Date:	8/20/2013	Run ID:	ICPMS_130821A
Client ID:	ZZZZZ	Batch ID:	71437	TestNo:	SW6020			Analysis Date:	8/21/2013	SeqNo:	2498116
Analyte	Result	PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Antimony	14.32	1.0	12.5	0	115	80	120	0	0		
Cadmium	23.43	0.25	25	0	93.7	80	120	0	0		
Chromium	24.32	0.50	25	0.081	97	80	120	0	0		
Copper	24.28	1.2	25	0	97.1	80	120	0	0		
Lead	24.38	0.25	25	0	97.5	80	120	0	0		
Tin	13.38	2.5	12.5	2.052	90.6	80	120	0	0		*
Zinc	22.8	2.5	25	0	91.2	80	120	0	0		

Sample ID	13080639-017AMS	SampType:	MS	TestCode:	M_ICPMS_S	Units:	mg/Kg-dry	Prep Date:	8/20/2013	Run ID:	ICPMS_130820A
Client ID:	PA-499-01(0-6)-0814	Batch ID:	71437	TestNo:	SW6020			Analysis Date:	8/21/2013	SeqNo:	2497290
Analyte	Result	PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Copper	108.1	14	28.19	85.57	80	75	125	0	0		
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Sample ID	13080639-017AMS	SampType:	MS	TestCode:	M_ICPMS_S	Units:	mg/Kg-dry	Prep Date:	8/20/2013	Run ID:	ICPMS-2_130822A
Client ID:	PA-499-01(0-6)-0814	Batch ID:	71437	TestNo:	SW6020			Analysis Date:	8/22/2013	SeqNo:	2499206
Analyte	Result	PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Antimony	10.25	4.5	14.09	2.141	57.6	75	125	0	0		S
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**Qualifiers:** ND - Not Detected at the Reporting Limit  
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 \* - Non Accredited Parameter  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 B - Analyte detected in the associated Method Blank  
 E - Value above quantitation range  
 H/HT - Holding Time Exceeded

**CLIENT:** Weston Solutions  
**Work Order:** 13080639  
**Project:** Pilsen Soil Site, Pilsen, Chicago, IL

# ANALYTICAL QC SUMMARY REPORT

**BatchID:** 71437

Sample ID	13080639-017AMS	SampType:	MS	TestCode:	M_ICPMS_S	Units:	mg/Kg-dry	Prep Date:	8/20/2013	Run ID:	ICPMS-2_130822A
Client ID:	PA-499-01(0-6)-0814	Batch ID:	71437	TestNo:	SW6020			Analysis Date:	8/22/2013	SeqNo:	2499206
Analyte	Result	PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	31.6	1.1	28.19	2.488	103	75	125	0	0		
Chromium	39.58	2.3	28.19	14.41	89.3	75	125	0	0		
Lead	940.8	1.1	28.19	1153	-754	75	125	0	0		S
Tin	40.64	11	14.09	25.54	107	75	125	0	0		*
Zinc	640.9	11	28.19	497.4	509	75	125	0	0		S

Sample ID	13080639-017AMS	SampType:	MSD	TestCode:	M_ICPMS_S	Units:	mg/Kg-dry	Prep Date:	8/20/2013	Run ID:	ICPMS_130820A
Client ID:	PA-499-01(0-6)-0814	Batch ID:	71437	TestNo:	SW6020			Analysis Date:	8/21/2013	SeqNo:	2497291
Analyte	Result	PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	112.3	14	28.21	85.57	94.9	75	125	108.1	3.83	20	

Sample ID	13080639-017AMS	SampType:	MSD	TestCode:	M_ICPMS_S	Units:	mg/Kg-dry	Prep Date:	8/20/2013	Run ID:	ICPMS-2_130822A
Client ID:	PA-499-01(0-6)-0814	Batch ID:	71437	TestNo:	SW6020			Analysis Date:	8/22/2013	SeqNo:	2499208
Analyte	Result	PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	10.8	4.5	14.11	2.141	61.4	75	125	10.25	5.19	20	S
Cadmium	30.87	1.1	28.21	2.488	101	75	125	31.6	2.32	20	
Chromium	41.12	2.3	28.21	14.41	94.6	75	125	39.58	3.81	20	
Lead	988	1.1	28.21	1153	-586	75	125	940.8	4.89	20	S
Tin	32.57	11	14.11	25.54	49.9	75	125	40.64	22.0	20	SR*
Zinc	564.2	11	28.21	497.4	237	75	125	640.9	12.7	20	S

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 R - RPD outside accepted recovery limits  
 H/HT - Holding Time Exceeded  
 B - Analyte detected in the associated Method Blank  
 E - Value above quantitation range

Prep Start Date: 8/21/2013 9:40:45 A  
 Prep End Date: 8/21/2013 12:55:00

Prep Factor Units:  
 mL / g

Prep Batch 71453 Prep Code: M\_S\_PREP Technician: VA

Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
IMBS1 8/21/13			1	0	0	50	50.000	8/21/2013	8/21/2013
ILCSS1 8/21/13			1	0	0	50	50.000	8/21/2013	8/21/2013
13080639-021A	Soil		1.091	0	0	50	45.830	8/21/2013	8/21/2013
13080639-022A	Soil		1.137	0	0	50	43.975	8/21/2013	8/21/2013
13080639-023A	Soil		1.02	0	0	50	49.020	8/21/2013	8/21/2013
13080639-024A	Soil		1.112	0	0	50	44.964	8/21/2013	8/21/2013
13080639-025A	Soil		1.035	0	0	50	48.309	8/21/2013	8/21/2013
13080639-026A	Soil		1.016	0	0	50	49.213	8/21/2013	8/21/2013
13080639-027A	Soil		1.195	0	0	50	41.841	8/21/2013	8/21/2013
13080639-028A	Soil		1.005	0	0	50	49.751	8/21/2013	8/21/2013
13080639-029A	Soil		1.14	0	0	50	43.860	8/21/2013	8/21/2013
13080639-030A	Soil		1.066	0	0	50	46.904	8/21/2013	8/21/2013
13080639-031A	Soil		1.197	0	0	50	41.771	8/21/2013	8/21/2013
13080639-032A	Soil		1.021	0	0	50	48.972	8/21/2013	8/21/2013
13080639-033A	Soil		1.111	0	0	50	45.005	8/21/2013	8/21/2013
13080639-034A	Soil		1.06	0	0	50	47.170	8/21/2013	8/21/2013
13080639-035A	Soil		1.018	0	0	50	49.116	8/21/2013	8/21/2013
13080639-036A	Soil		1.19	0	0	50	42.017	8/21/2013	8/21/2013
13080639-037A	Soil		1.205	0	0	50	41.494	8/21/2013	8/21/2013
13080639-038A	Soil		1.139	0	0	50	43.898	8/21/2013	8/21/2013
13080639-039A	Soil		1.041	0	0	50	48.031	8/21/2013	8/21/2013
13080639-040A	Soil		1.184	0	0	50	42.230	8/21/2013	8/21/2013
13080639-040AMS	Soil		1.182	0	0	50	42.301	8/21/2013	8/21/2013
13080639-040AMSD	Soil		1.187	0	0	50	42.123	8/21/2013	8/21/2013

**CLIENT:** Weston Solutions  
**Work Order:** 13080639  
**Project:** Pilsen Soil Site, Pilsen, Chicago, IL

# ANALYTICAL QC SUMMARY REPORT

**BatchID: 71453**

Sample ID	IMBS1 8/21/13	SampType:	MBLK	TestCode: M_ICPMS_S	Units: mg/Kg	Prep Date: 8/21/2013	Run ID: ICPMS_130822A				
Client ID:	ZZZZZ	Batch ID:	71453	TestNo: SW6020		Analysis Date: 8/22/2013	SeqNo: 2499369				
Analyte	Result	PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	ND	1.0									
Cadmium	0.161	0.25									J
Chromium	0.1985	0.50									J
Copper	0.193	1.2									J
Lead	0.1975	0.25									J
Tin	1.582	2.5									J*
Zinc	ND	2.5									

Sample ID	ILCSS1 8/21/13	SampType:	LCS	TestCode: M_ICPMS_S	Units: mg/Kg	Prep Date: 8/21/2013	Run ID: ICPMS_130822A				
Client ID:	ZZZZZ	Batch ID:	71453	TestNo: SW6020		Analysis Date: 8/22/2013	SeqNo: 2499370				
Analyte	Result	PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	15.31	1.0	12.5	0	122	80	120	0	0		S
Cadmium	24.74	0.25	25	0.161	98.3	80	120	0	0		
Chromium	24.87	0.50	25	0.1985	98.7	80	120	0	0		
Copper	24.9	1.2	25	0.193	98.8	80	120	0	0		
Lead	25.14	0.25	25	0.1975	99.8	80	120	0	0		*
Tin	14.28	2.5	12.5	1.582	102	80	120	0	0		
Zinc	23.98	2.5	25	0	95.9	80	120	0	0		

Sample ID	13080639-040AMS	SampType:	MS	TestCode: M_ICPMS_S	Units: mg/Kg-dry	Prep Date: 8/21/2013	Run ID: ICPMS_130822A				
Client ID:	PA-515-01(0-6)-0816	Batch ID:	71453	TestNo: SW6020		Analysis Date: 8/22/2013	SeqNo: 2499375				
Analyte	Result	PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	10.07	4.2	13.07	3.527	50.1	75	125	0	0		S
Cadmium	33.3	1.0	26.14	8.107	96.4	75	125	0	0		
Chromium	52.55	2.1	26.14	27.84	94.5	75	125	0	0		
Copper	197.1	5.2	26.14	152.9	169	75	125	0	0		S
Lead	1829	1.0	26.14	2202	-1430	75	125	0	0		S
Tin	49.43	10	13.07	33.57	121	75	125	0	0		*
Zinc	1053	10	26.14	1040	48.7	75	125	0	0		S

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 \* - Non Accredited Parameter  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 B - Analyte detected in the associated Method Blank  
 H/HT - Holding Time Exceeded  
 E - Value above quantitation range

**CLIENT:** Weston Solutions  
**Work Order:** 13080639

**Project:** Pilsen Soil Site, Pilsen, Chicago, IL

# ANALYTICAL QC SUMMARY REPORT

**BatchID:** 71453

Sample ID	13080639-040AMSD	SampleType:	MSD	TestCode:	M_ICPMS_S	Units:	mg/Kg-dry	Prep Date:	8/21/2013	Run ID:	ICPMS_130822A
Client ID:	PA-515-01(0-6)-0816	Batch ID:	71453	TestNo:	SW6020			Analysis Date:	8/22/2013	SeqNo:	2499376
Analyte	Result	PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	9.06	4.2	13.02	3.527	42.5	75	125	10.07	10.6	20	S
Cadmium	32.04	1.0	26.03	8.107	91.9	75	125	33.3	3.87	20	
Chromium	48.71	2.1	26.03	27.84	80.2	75	125	52.55	7.58	20	
Copper	154.4	5.2	26.03	152.9	5.92	75	125	197.1	24.3	20	SR
Lead	1450	1.0	26.03	2202	-2890	75	125	1829	23.1	20	SR
Tin	55.09	10	13.02	33.57	165	75	125	49.43	10.8	20	S*
Zinc	877.9	10	26.03	1040	-622	75	125	1053	18.1	20	S

**Qualifiers:**

ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 \* - Non Accredited Parameter

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 H/HT - Holding Time Exceeded

B - Analyte detected in the associated Method Blank  
 E - Value above quantitation range

Prep Start Date: 8/22/2013 10:00:41

Prep End Date: 8/22/2013 1:05:00 P

Prep Factor Units:

Prep Batch 71490 Prep Code: M\_S\_PREP Technician: VA

mL / g

Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
IMBS1 8/22/13			1	0	0	50	50.000	8/22/2013	8/22/2013
ILCSS1 8/22/13			1	0	0	50	50.000	8/22/2013	8/22/2013
13080639-001B	Soil		1.069	0	0	50	46.773	8/22/2013	8/22/2013
13080639-002B	Soil		1.079	0	0	50	46.339	8/22/2013	8/22/2013
13080639-003B	Soil		1.064	0	0	50	46.992	8/22/2013	8/22/2013
13080639-004B	Soil		1.017	0	0	50	49.164	8/22/2013	8/22/2013
13080639-005B	Soil		1.054	0	0	50	47.438	8/22/2013	8/22/2013
13080639-006B	Soil		1.039	0	0	50	48.123	8/22/2013	8/22/2013
13080639-007B	Soil		1.036	0	0	50	48.263	8/22/2013	8/22/2013
13080639-008B	Soil		1.033	0	0	50	48.403	8/22/2013	8/22/2013
13080639-009B	Soil		1.024	0	0	50	48.828	8/22/2013	8/22/2013
13080639-010B	Soil		1.048	0	0	50	47.710	8/22/2013	8/22/2013
13080639-011B	Soil		1.001	0	0	50	49.950	8/22/2013	8/22/2013
13080639-012B	Soil		1.087	0	0	50	45.998	8/22/2013	8/22/2013
13080639-013B	Soil		1.014	0	0	50	49.310	8/22/2013	8/22/2013
13080639-014B	Soil		1.078	0	0	50	46.382	8/22/2013	8/22/2013
13080639-015B	Soil		1.037	0	0	50	48.216	8/22/2013	8/22/2013
13080639-016B	Soil		1.043	0	0	50	47.939	8/22/2013	8/22/2013
13080639-017B	Soil		1.002	0	0	50	49.900	8/22/2013	8/22/2013
13080639-017BMS	Soil		1.017	0	0	50	49.164	8/22/2013	8/22/2013
13080639-017BMSD	Soil		1.011	0	0	50	49.456	8/22/2013	8/22/2013
13080639-018B	Soil		1.036	0	0	50	48.263	8/22/2013	8/22/2013
13080639-019B	Soil		1.004	0	0	50	49.801	8/22/2013	8/22/2013
N2711a1 8/22/13			0.506	0	0	50	98.814	8/22/2013	8/22/2013

# ANALYTICAL QC SUMMARY REPORT

**CLIENT:** Weston Solutions  
**Work Order:** 13080639  
**Project:** Pilsen Soil Site, Pilsen, Chicago, IL

**BatchID: 71490**

Sample ID: <b>IMBS1 8/22/13</b>	SampType: <b>MBLK</b>	TestCode: <b>M_ICPMS_S</b>	Units: <b>mg/Kg</b>	Prep Date: <b>8/22/2013</b>	Run ID: <b>ICPMS-2_130822A</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>71490</b>	TestNo: <b>SW6020</b>		Analysis Date: <b>8/22/2013</b>	SeqNo: <b>2499232</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.202	0.25									J

Sample ID: <b>ILCSS1 8/22/13</b>	SampType: <b>LCS</b>	TestCode: <b>M_ICPMS_S</b>	Units: <b>mg/Kg</b>	Prep Date: <b>8/22/2013</b>	Run ID: <b>ICPMS-2_130822A</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>71490</b>	TestNo: <b>SW6020</b>		Analysis Date: <b>8/22/2013</b>	SeqNo: <b>2499233</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	25.18	0.25	25	0.202	99.9	80	120	0	0		

Sample ID: <b>N2711A1 8/22/13</b>	SampType: <b>LCS</b>	TestCode: <b>M_ICPMS_S</b>	Units: <b>mg/Kg</b>	Prep Date: <b>8/22/2013</b>	Run ID: <b>ICPMS_130823A</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>71490</b>	TestNo: <b>SW6020</b>		Analysis Date: <b>8/23/2013</b>	SeqNo: <b>2500181</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1399	4.9	1399	0.202	100	85	115	0	0		

Sample ID: <b>13080639-017BMS</b>	SampType: <b>MS</b>	TestCode: <b>M_ICPMS_S</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>8/22/2013</b>	Run ID: <b>ICPMS-2_130822A</b>						
Client ID: <b>PA-499-01(0-6)-0814</b>	Batch ID: <b>71490</b>	TestNo: <b>SW6020</b>		Analysis Date: <b>8/22/2013</b>	SeqNo: <b>2499237</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1147	4.9	24.58	1089	235	75	125	0	0		S

Sample ID: <b>13080639-017BMSD</b>	SampType: <b>MSD</b>	TestCode: <b>M_ICPMS_S</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>8/22/2013</b>	Run ID: <b>ICPMS-2_130822A</b>						
Client ID: <b>PA-499-01(0-6)-0814</b>	Batch ID: <b>71490</b>	TestNo: <b>SW6020</b>		Analysis Date: <b>8/22/2013</b>	SeqNo: <b>2499238</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1164	4.9	24.73	1089	303	75	125	1147	1.49	20	S

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 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 H/HT - Holding Time Exceeded  
 B - Analyte detected in the associated Method Blank  
 E - Value above quantitation range

Prep Start Date: 8/22/2013 1:10:52 P  
 Prep End Date: 8/22/2013 4:35:00 P

Prep Factor Units:  
 mL / g

Prep Batch 71493 Prep Code: M\_S\_PREP Technician: VA

Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
IMBS2 8/22/13			1	0	0	50	50.000	8/22/2013	8/22/2013
ILCSS2 8/22/13			1	0	0	50	50.000	8/22/2013	8/22/2013
13080639-020B	Soil		0.774	0	0	50	64.599	8/22/2013	8/22/2013
13080639-021B	Soil		0.904	0	0	50	55.310	8/22/2013	8/22/2013
13080639-022B	Soil		0.872	0	0	50	57.339	8/22/2013	8/22/2013
13080639-023B	Soil		0.856	0	0	50	58.411	8/22/2013	8/22/2013
13080639-024B	Soil		1.048	0	0	50	47.710	8/22/2013	8/22/2013
13080639-025B	Soil		0.979	0	0	50	51.073	8/22/2013	8/22/2013
13080639-026B	Soil		0.974	0	0	50	51.335	8/22/2013	8/22/2013
13080639-027B	Soil		0.951	0	0	50	52.576	8/22/2013	8/22/2013
13080639-028B	Soil		1.035	0	0	50	48.309	8/22/2013	8/22/2013
13080639-029B	Soil		1.07	0	0	50	46.729	8/22/2013	8/22/2013
13080639-030B	Soil		1.048	0	0	50	47.710	8/22/2013	8/22/2013
13080639-031B	Soil		1.142	0	0	50	43.783	8/22/2013	8/22/2013
13080639-032B	Soil		1.027	0	0	50	48.685	8/22/2013	8/22/2013
13080639-033B	Soil		1.05	0	0	50	47.619	8/22/2013	8/22/2013
13080639-034B	Soil		1.093	0	0	50	45.746	8/22/2013	8/22/2013
13080639-035B	Soil		1.085	0	0	50	46.083	8/22/2013	8/22/2013
13080639-036B	Soil		1.061	0	0	50	47.125	8/22/2013	8/22/2013
13080639-037B	Soil		1.049	0	0	50	47.664	8/22/2013	8/22/2013
13080639-040B	Soil		1.03	0	0	50	48.544	8/22/2013	8/22/2013
13080639-040BMS	Soil		1.033	0	0	50	48.403	8/22/2013	8/22/2013
13080639-040BMSD	Soil		1.033	0	0	50	48.403	8/22/2013	8/22/2013
N2711a2 8/22/13			0.507	0	0	50	98.619	8/22/2013	8/22/2013



# ANALYTICAL QC SUMMARY REPORT

**CLIENT:** Weston Solutions  
**Work Order:** 13080639  
**Project:** Pilsen Soil Site, Pilsen, Chicago, IL

**BatchID: 71493**

Sample ID: <b>IMBS2 8/22/13</b>	Sample Type: <b>MBLK</b>	TestCode: <b>M_ICPMS_S</b>	Units: <b>mg/Kg</b>	Prep Date: <b>8/22/2013</b>	Run ID: <b>ICPMS_130822A</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>71493</b>	TestNo: <b>SW6020</b>		Analysis Date: <b>8/22/2013</b>	SeqNo: <b>2499726</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.191	0.25									J

Sample ID: <b>ILCSS2 8/22/13</b>	Sample Type: <b>LCS</b>	TestCode: <b>M_ICPMS_S</b>	Units: <b>mg/Kg</b>	Prep Date: <b>8/22/2013</b>	Run ID: <b>ICPMS_130822A</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>71493</b>	TestNo: <b>SW6020</b>		Analysis Date: <b>8/22/2013</b>	SeqNo: <b>2499727</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	25.82	0.25	25	0.191	102	80	120	0	0		

Sample ID: <b>N2711A2 8/22/13</b>	Sample Type: <b>LCS</b>	TestCode: <b>M_ICPMS_S</b>	Units: <b>mg/Kg</b>	Prep Date: <b>8/22/2013</b>	Run ID: <b>ICPMS_130822A</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>71493</b>	TestNo: <b>SW6020</b>		Analysis Date: <b>8/22/2013</b>	SeqNo: <b>2499728</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1317	4.9	1400	0.191	94	85	115	0	0		

Sample ID: <b>13080639-040BMS</b>	Sample Type: <b>MS</b>	TestCode: <b>M_ICPMS_S</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>8/22/2013</b>	Run ID: <b>ICPMS_130822A</b>						
Client ID: <b>PA-515-01(0-6)-0816</b>	Batch ID: <b>71493</b>	TestNo: <b>SW6020</b>		Analysis Date: <b>8/22/2013</b>	SeqNo: <b>2499733</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2011	4.8	24.2	1639	1530	75	125	0	0		S

Sample ID: <b>13080639-040BMSD</b>	Sample Type: <b>MSD</b>	TestCode: <b>M_ICPMS_S</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>8/22/2013</b>	Run ID: <b>ICPMS_130822A</b>						
Client ID: <b>PA-515-01(0-6)-0816</b>	Batch ID: <b>71493</b>	TestNo: <b>SW6020</b>		Analysis Date: <b>8/22/2013</b>	SeqNo: <b>2499734</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2111	4.8	24.2	1639	1950	75	125	2011	4.86	20	S

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 \* - Non Accredited Parameter  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 H/HT - Holding Time Exceeded  
 B - Analyte detected in the associated Method Blank  
 E - Value above quantitation range

Prep Start Date: 8/22/2013 1:10:39 P

Prep End Date: 8/22/2013 4:35:00 P

Prep Batch 71494 Prep Code: M\_S\_PREP Technician: VA

Prep Factor Units:  
mL / g

Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
IMBS3 8/22/13			1	0	0	50	50.000	8/22/2013	8/22/2013
ILCSS3 8/22/13			1	0	0	50	50.000	8/22/2013	8/22/2013
13080639-038B	Soil		1.134	0	0	50	44.092	8/22/2013	8/22/2013
13080639-039B	Soil		1.061	0	0	50	47.125	8/22/2013	8/22/2013
13080639-041B	Soil		1.014	0	0	50	49.310	8/22/2013	8/22/2013
13080639-042B	Soil		1.002	0	0	50	49.900	8/22/2013	8/22/2013
13080639-043B	Soil		1.005	0	0	50	49.751	8/22/2013	8/22/2013
13080639-043BMS	Soil		1.042	0	0	50	47.985	8/22/2013	8/22/2013
13080639-043BMMSD	Soil		1.045	0	0	50	47.847	8/22/2013	8/22/2013
N2711a3 8/22/13			0.504	0	0	50	99.206	8/22/2013	8/22/2013

# ANALYTICAL QC SUMMARY REPORT

**CLIENT:** Weston Solutions  
**Work Order:** 13080639  
**Project:** Pilsen Soil Site, Pilsen, Chicago, IL

**BatchID: 71494**

Sample ID: <b>IMBS3 8/22/13</b>	SampType: <b>MBLK</b>	TestCode: <b>M_ICPMS_S</b>	Units: <b>mg/Kg</b>	Prep Date: <b>8/22/2013</b>	Run ID: <b>ICPMS-2_130822A</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>71494</b>	TestNo: <b>SW6020</b>		Analysis Date: <b>8/22/2013</b>	SeqNo: <b>2499267</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.132	0.25									J

Sample ID: <b>ILCSS3 8/22/13</b>	SampType: <b>LCS</b>	TestCode: <b>M_ICPMS_S</b>	Units: <b>mg/Kg</b>	Prep Date: <b>8/22/2013</b>	Run ID: <b>ICPMS-2_130822A</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>71494</b>	TestNo: <b>SW6020</b>		Analysis Date: <b>8/22/2013</b>	SeqNo: <b>2499268</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	24.96	0.25	25	0.132	99.3	80	120	0	0		

Sample ID: <b>N2711A3 8/22/13</b>	SampType: <b>LCS</b>	TestCode: <b>M_ICPMS_S</b>	Units: <b>mg/Kg</b>	Prep Date: <b>8/22/2013</b>	Run ID: <b>ICPMS-2_130822A</b>						
Client ID: <b>ZZZZZ</b>	Batch ID: <b>71494</b>	TestNo: <b>SW6020</b>		Analysis Date: <b>8/22/2013</b>	SeqNo: <b>2499269</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1583	5.0	1401	0.132	113	85	115	0	0		

Sample ID: <b>13080639-043BMS</b>	SampType: <b>MS</b>	TestCode: <b>M_ICPMS_S</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>8/22/2013</b>	Run ID: <b>ICPMS-2_130822A</b>						
Client ID: <b>PA-516-01(6-18)-081</b>	Batch ID: <b>71494</b>	TestNo: <b>SW6020</b>		Analysis Date: <b>8/22/2013</b>	SeqNo: <b>2499272</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	793.5	5.0	25	738	222	75	125	0	0		S

Sample ID: <b>13080639-043BMSD</b>	SampType: <b>MSD</b>	TestCode: <b>M_ICPMS_S</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>8/22/2013</b>	Run ID: <b>ICPMS-2_130822A</b>						
Client ID: <b>PA-516-01(6-18)-081</b>	Batch ID: <b>71494</b>	TestNo: <b>SW6020</b>		Analysis Date: <b>8/22/2013</b>	SeqNo: <b>2499273</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	784	5.0	25	738	184	75	125	793.5	1.20	20	S

**Qualifiers:** ND - Not Detected at the Reporting Limit      S - Spike Recovery outside accepted recovery limits      B - Analyte detected in the associated Method Blank  
 J - Analyte detected below quantitation limits      R - RPD outside accepted recovery limits      E - Value above quantitation range  
 \* - Non Accredited Parameter      H/HT - Holding Time Exceeded

Prep Start Date: 8/19/2013 6:57:00 P  
 Prep End Date: 8/19/2013 7:35:00 P

Prep Factor Units:  
 mL / g

Prep Batch 71402 Prep Code: M\_HG\_S\_PRE Technician: LB

Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
HGMB1 8/19/13			0.3	0	0	30	100.000	8/19/2013	8/19/2013
HGLCSS1 8/19/13			0.3	0	0	30	100.000	8/19/2013	8/19/2013
13080538-003B	Soil		0.324	0	0	30	92.593	8/19/2013	8/19/2013
13080538-005B	Soil		0.326	0	0	30	92.025	8/19/2013	8/19/2013
13080538-006B	Soil		0.309	0	0	30	97.087	8/19/2013	8/19/2013
13080538-008A	Soil		0.312	0	0	30	96.154	8/19/2013	8/19/2013
13080538-009A	Soil		0.306	0	0	30	98.039	8/19/2013	8/19/2013
13080538-010B	Soil		0.309	0	0	30	97.087	8/19/2013	8/19/2013
13080598-001A	Solid		0.305	0	0	30	98.361	8/19/2013	8/19/2013
13080598-002A	Solid		0.325	0	0	30	92.308	8/19/2013	8/19/2013
13080598-003A	Solid		0.322	0	0	30	93.168	8/19/2013	8/19/2013
13080598-004A	Solid		0.321	0	0	30	93.458	8/19/2013	8/19/2013
13080598-002AMS	Solid		0.321	0	0	30	93.458	8/19/2013	8/19/2013
13080598-002AMSD	Solid		0.325	0	0	30	92.308	8/19/2013	8/19/2013
13080639-001A	Soil		0.322	0	0	30	93.168	8/19/2013	8/19/2013
13080639-002A	Soil		0.321	0	0	30	93.458	8/19/2013	8/19/2013
13080639-003A	Soil		0.377	0	0	30	79.576	8/19/2013	8/19/2013
13080639-004A	Soil		0.3	0	0	30	100.000	8/19/2013	8/19/2013
13080639-005A	Soil		0.319	0	0	30	94.044	8/19/2013	8/19/2013
13080639-006A	Soil		0.336	0	0	30	89.286	8/19/2013	8/19/2013
13080639-007A	Soil		0.373	0	0	30	80.429	8/19/2013	8/19/2013
13080639-008A	Soil		0.34	0	0	30	88.235	8/19/2013	8/19/2013
13080639-009A	Soil		0.32	0	0	30	93.750	8/19/2013	8/19/2013
13080677-001A	Soil		0.344	0	0	30	87.209	8/19/2013	8/19/2013

# ANALYTICAL QC SUMMARY REPORT

**CLIENT:** Weston Solutions  
**Work Order:** 13080639  
**Project:** Pilsen Soil Site, Pilsen, Chicago, IL

**BatchID: 71402**

Sample ID	HGMB51 8/19/13	SampType:	MBLK	TestCode:	M_HG_SOLI	Units:	mg/Kg	Prep Date:	8/19/2013	Run ID:	CETAC_130820A		
Client ID:	ZZZZZ	Batch ID:	71402	TestNo:	SW7471A			Analysis Date:	8/20/2013	SeqNo:	2496954		
Analyte		Result		PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		ND		0.020	0.020	0	90.8	80	120	0	0		

Sample ID	HGLCSS1 8/19/13	SampType:	LCS	TestCode:	M_HG_SOLI	Units:	mg/Kg	Prep Date:	8/19/2013	Run ID:	CETAC_130820A		
Client ID:	ZZZZZ	Batch ID:	71402	TestNo:	SW7471A			Analysis Date:	8/20/2013	SeqNo:	2496955		
Analyte		Result		PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		0.227		0.020	0.25	0	90.8	80	120	0	0		

Sample ID	13080598-002AMS	SampType:	MS	TestCode:	M_HG_SOLI	Units:	mg/Kg-dry	Prep Date:	8/19/2013	Run ID:	CETAC_130820B		
Client ID:	ZZZZZ	Batch ID:	71402	TestNo:	SW7471A			Analysis Date:	8/20/2013	SeqNo:	2497016		
Analyte		Result		PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		2.44		0.10	0.2552	2.102	132	75	125	0	0		S

Sample ID	13080598-002AMSD	SampType:	MSD	TestCode:	M_HG_SOLI	Units:	mg/Kg-dry	Prep Date:	8/19/2013	Run ID:	CETAC_130820B		
Client ID:	ZZZZZ	Batch ID:	71402	TestNo:	SW7471A			Analysis Date:	8/20/2013	SeqNo:	2497017		
Analyte		Result		PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		2.239		0.10	0.2521	2.102	54	75	125	2.44	8.61	20	S

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 \* - Non Accredited Parameter  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 H/HT - Holding Time Exceeded  
 B - Analyte detected in the associated Method Blank  
 E - Value above quantitation range

Prep Start Date: 8/20/2013 5:07:00 P  
 Prep End Date: 8/20/2013 5:45:00 P

Prep Factor Units:  
 mL / g

Prep Batch 71452 Prep Code: M\_HG\_S\_PRE Technician: LB

Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
HGMB51 8/20/13			0.3	0	0	30	100.000	8/20/2013	8/20/2013
HGLCSS1 8/20/13			0.3	0	0	30	100.000	8/20/2013	8/20/2013
13080692-001A	Soil		0.315	0	0	30	95.238	8/20/2013	8/20/2013
13080639-010A	Soil		0.315	0	0	30	95.238	8/20/2013	8/20/2013
13080639-011A	Soil		0.365	0	0	30	82.192	8/20/2013	8/20/2013
13080639-012A	Soil		0.32	0	0	30	93.750	8/20/2013	8/20/2013
13080639-013A	Soil		0.314	0	0	30	95.541	8/20/2013	8/20/2013
13080639-014A	Soil		0.345	0	0	30	86.957	8/20/2013	8/20/2013
13080639-015A	Soil		0.35	0	0	30	85.714	8/20/2013	8/20/2013
13080639-016A	Soil		0.352	0	0	30	85.227	8/20/2013	8/20/2013
13080639-017A	Soil		0.335	0	0	30	89.552	8/20/2013	8/20/2013
13080639-017AMS	Soil		0.344	0	0	30	87.209	8/20/2013	8/20/2013
13080639-017AMSD	Soil		0.341	0	0	30	87.977	8/20/2013	8/20/2013
13080639-018A	Soil		0.318	0	0	30	94.340	8/20/2013	8/20/2013
13080639-019A	Soil		0.342	0	0	30	87.719	8/20/2013	8/20/2013
13080639-020A	Soil		0.33	0	0	30	90.909	8/20/2013	8/20/2013
13080639-021A	Soil		0.36	0	0	30	83.333	8/20/2013	8/20/2013
13080639-022A	Soil		0.306	0	0	30	98.039	8/20/2013	8/20/2013
13080639-023A	Soil		0.304	0	0	30	98.684	8/20/2013	8/20/2013
13080639-024A	Soil		0.333	0	0	30	90.090	8/20/2013	8/20/2013
13080639-025A	Soil		0.306	0	0	30	98.039	8/20/2013	8/20/2013
13080639-026A	Soil		0.312	0	0	30	96.154	8/20/2013	8/20/2013
13080639-027A	Soil		0.3	0	0	30	100.000	8/20/2013	8/20/2013
13080639-028A	Soil		0.326	0	0	30	92.025	8/20/2013	8/20/2013

**CLIENT:** Weston Solutions  
**Work Order:** 13080639  
**Project:** Pilsen Soil Site, Pilsen, Chicago, IL

# ANALYTICAL QC SUMMARY REPORT

**BatchID: 71452**

Sample ID	HGMBS1 8/20/13	SampType:	MBLK	TestCode:	M_HG_SOLI	Units:	mg/Kg	Prep Date:	8/20/2013	Run ID:	CETAC_130821A		
Client ID:	ZZZZZ	Batch ID:	71452	TestNo:	SW7471A			Analysis Date:	8/21/2013	SeqNo:	2497895		
Analyte		Result		PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		ND	0.020										

Sample ID	HGLCSS1 8/20/13	SampType:	LCS	TestCode:	M_HG_SOLI	Units:	mg/Kg	Prep Date:	8/20/2013	Run ID:	CETAC_130821A		
Client ID:	ZZZZZ	Batch ID:	71452	TestNo:	SW7471A			Analysis Date:	8/21/2013	SeqNo:	2497896		
Analyte		Result		PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		0.228	0.020	0.25	0	0	91.2	80	120	0	0		

Sample ID	13080639-017AMS	SampType:	MS	TestCode:	M_HG_SOLI	Units:	mg/Kg-dry	Prep Date:	8/20/2013	Run ID:	CETAC_130821F		
Client ID:	PA-499-01(0-6)-0814	Batch ID:	71452	TestNo:	SW7471A			Analysis Date:	8/21/2013	SeqNo:	2498271		
Analyte		Result		PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		0.7998	0.041	0.2544	0.65	0	58.9	75	125	0	0		S

Sample ID	13080639-017AMSD	SampType:	MSD	TestCode:	M_HG_SOLI	Units:	mg/Kg-dry	Prep Date:	8/20/2013	Run ID:	CETAC_130821F		
Client ID:	PA-499-01(0-6)-0814	Batch ID:	71452	TestNo:	SW7471A			Analysis Date:	8/21/2013	SeqNo:	2498272		
Analyte		Result		PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		0.85	0.041	0.2566	0.65	0	77.9	75	125	0.7998	6.08	20	

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 \* - Non Accredited Parameter

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 H/HT - Holding Time Exceeded  
 B - Analyte detected in the associated Method Blank  
 E - Value above quantitation range

Prep Start Date: 8/20/2013 6:16:00 P  
 Prep End Date: 8/20/2013 6:57:00 P

Prep Factor Units:  
 mL / g

Prep Batch 71461 Prep Code: M\_HG\_S\_PRE Technician: LB

Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
HGMS2 8/20/13			0.3	0	0	30	100.000	8/20/2013	8/20/2013
HGLCSS2 8/20/13			0.3	0	0	30	100.000	8/20/2013	8/20/2013
13080639-029A	Soil		0.338	0	0	30	88.757	8/20/2013	8/20/2013
13080639-030A	Soil		0.348	0	0	30	86.207	8/20/2013	8/20/2013
13080639-031A	Soil		0.327	0	0	30	91.743	8/20/2013	8/20/2013
13080639-032A	Soil		0.3	0	0	30	100.000	8/20/2013	8/20/2013
13080639-033A	Soil		0.308	0	0	30	97.403	8/20/2013	8/20/2013
13080639-034A	Soil		0.332	0	0	30	90.361	8/20/2013	8/20/2013
13080639-035A	Soil		0.361	0	0	30	83.102	8/20/2013	8/20/2013
13080639-036A	Soil		0.338	0	0	30	88.757	8/20/2013	8/20/2013
13080639-037A	Soil		0.303	0	0	30	99.010	8/20/2013	8/20/2013
13080639-038A	Soil		0.304	0	0	30	98.684	8/20/2013	8/20/2013
13080639-039A	Soil		0.395	0	0	30	75.949	8/20/2013	8/20/2013
13080639-040A	Soil		0.387	0	0	30	77.519	8/20/2013	8/20/2013
13080639-040AMS	Soil		0.388	0	0	30	77.320	8/20/2013	8/20/2013
13080639-040AMSD	Soil		0.389	0	0	30	77.121	8/20/2013	8/20/2013
13080639-041A	Soil		0.305	0	0	30	98.361	8/20/2013	8/20/2013
13080639-042A	Soil		0.359	0	0	30	83.565	8/20/2013	8/20/2013
13080643-001A	Solid		0.348	0	0	30	86.207	8/20/2013	8/20/2013
13080643-002A	Solid		0.39	0	0	30	76.923	8/20/2013	8/20/2013
13080643-003A	Solid		0.318	0	0	30	94.340	8/20/2013	8/20/2013
13080643-004A	Solid		0.359	0	0	30	83.565	8/20/2013	8/20/2013
13080681-001B	Soil		0.307	0	0	30	97.720	8/20/2013	8/20/2013
13080682-001A	Soil		0.322	0	0	30	93.168	8/20/2013	8/20/2013



**CLIENT:** Weston Solutions  
**Work Order:** 13080639  
**Project:** Pilsen Soil Site, Pilsen, Chicago, IL

# ANALYTICAL QC SUMMARY REPORT

**BatchID:** 71461

Sample ID	HGMB52 8/20/13	SampType:	MBLK	TestCode:	M_HG_SOLI	Units:	mg/Kg	Prep Date:	8/20/2013	Run ID:	CETAC_130821F		
Client ID:	ZZZZZ	Batch ID:	71461	TestNo:	SW7471A			Analysis Date:	8/21/2013	SeqNo:	2498232		
Analyte		Result		PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		ND	0.020										

Sample ID	HGLCSS2 8/20/13	SampType:	LCS	TestCode:	M_HG_SOLI	Units:	mg/Kg	Prep Date:	8/20/2013	Run ID:	CETAC_130821F		
Client ID:	ZZZZZ	Batch ID:	71461	TestNo:	SW7471A			Analysis Date:	8/21/2013	SeqNo:	2498233		
Analyte		Result		PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		0.226	0.020		0.25	0	90.4	80	120	0	0		

Sample ID	13080639-040AMS	SampType:	MS	TestCode:	M_HG_SOLI	Units:	mg/Kg-dry	Prep Date:	8/20/2013	Run ID:	CETAC_130821F		
Client ID:	PA-515-01(0-6)-0816	Batch ID:	71461	TestNo:	SW7471A			Analysis Date:	8/21/2013	SeqNo:	2498276		
Analyte		Result		PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		1.047	0.096		0.2389	0.8863	67	75	125	0	0		S

Sample ID	13080639-040AMSD	SampType:	MSD	TestCode:	M_HG_SOLI	Units:	mg/Kg-dry	Prep Date:	8/20/2013	Run ID:	CETAC_130821F		
Client ID:	PA-515-01(0-6)-0816	Batch ID:	71461	TestNo:	SW7471A			Analysis Date:	8/21/2013	SeqNo:	2498277		
Analyte		Result		PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		1.039	0.095		0.2383	0.8863	64.1	75	125	1.047	0.715	20	S

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 R - RPD outside accepted recovery limits  
 H/HT - Holding Time Exceeded  
 B - Analyte detected in the associated Method Blank  
 E - Value above quantitation range

Prep Start Date: 8/20/2013 6:30:00 P  
 Prep End Date: 8/20/2013 7:09:00 P

Prep Factor Units:  
 mL / g

Prep Batch 71462 Prep Code: M\_HG\_S\_PRE Technician: LB

Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
HGMS3 8/20/13			0.3	0	0	30	100.000	8/20/2013	8/20/2013
HGLCSS3 8/20/13			0.3	0	0	30	100.000	8/20/2013	8/20/2013
13080634-001B	Soil		0.326	0	0	30	92.025	8/20/2013	8/20/2013
13080634-002B	Soil		0.348	0	0	30	86.207	8/20/2013	8/20/2013
13080634-003B	Soil		0.312	0	0	30	96.154	8/20/2013	8/20/2013
13080634-004B	Soil		0.37	0	0	30	81.081	8/20/2013	8/20/2013
13080634-005B	Soil		0.309	0	0	30	97.087	8/20/2013	8/20/2013
13080634-006B	Soil		0.326	0	0	30	92.025	8/20/2013	8/20/2013
13080634-007B	Soil		0.388	0	0	30	77.320	8/20/2013	8/20/2013
13080634-008B	Soil		0.324	0	0	30	92.593	8/20/2013	8/20/2013
13080634-009B	Soil		0.347	0	0	30	86.455	8/20/2013	8/20/2013
13080634-010B	Soil		0.365	0	0	30	82.192	8/20/2013	8/20/2013
13080634-011B	Soil		0.304	0	0	30	98.684	8/20/2013	8/20/2013
13080634-012B	Soil		0.336	0	0	30	89.286	8/20/2013	8/20/2013
13080634-013B	Soil		0.305	0	0	30	98.361	8/20/2013	8/20/2013
13080634-014B	Soil		0.319	0	0	30	94.044	8/20/2013	8/20/2013
13080634-015B	Soil		0.304	0	0	30	98.684	8/20/2013	8/20/2013
13080634-016B	Soil		0.31	0	0	30	96.774	8/20/2013	8/20/2013
13080634-017B	Soil		0.375	0	0	30	80.000	8/20/2013	8/20/2013
13080634-018B	Soil		0.337	0	0	30	89.021	8/20/2013	8/20/2013
13080634-019B	Soil		0.317	0	0	30	94.637	8/20/2013	8/20/2013
13080639-043A	Soil		0.331	0	0	30	90.634	8/20/2013	8/20/2013
13080639-043AMS	Soil		0.328	0	0	30	91.463	8/20/2013	8/20/2013
13080639-043AMSD	Soil		0.327	0	0	30	91.743	8/20/2013	8/20/2013

**CLIENT:** Weston Solutions  
**Work Order:** 13080639  
**Project:** Pilsen Soil Site, Pilsen, Chicago, IL

# ANALYTICAL QC SUMMARY REPORT

**BatchID: 71462**

Sample ID	HGMBS3 8/20/13	SampType:	MBLK	TestCode:	M_HG_SOLI	Units:	mg/Kg	Prep Date:	8/20/2013	Run ID:	CETAC_130821F		
Client ID:	ZZZZZ	Batch ID:	71462	TestNo:	SW7471A			Analysis Date:	8/21/2013	SeqNo:	2498252		
Analyte		Result		PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		ND	0.020										

Sample ID	HGLCSS3 8/20/13	SampType:	LCS	TestCode:	M_HG_SOLI	Units:	mg/Kg	Prep Date:	8/20/2013	Run ID:	CETAC_130821F		
Client ID:	ZZZZZ	Batch ID:	71462	TestNo:	SW7471A			Analysis Date:	8/21/2013	SeqNo:	2498253		
Analyte		Result		PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		0.227	0.020	0.25	0	90.8	80	120	0	0			

Sample ID	13080639-043AMS	SampType:	MS	TestCode:	M_HG_SOLI	Units:	mg/Kg-dry	Prep Date:	8/20/2013	Run ID:	CETAC_130821F		
Client ID:	PA-516-01(6-18)-081	Batch ID:	71462	TestNo:	SW7471A			Analysis Date:	8/21/2013	SeqNo:	2498257		
Analyte		Result		PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		0.7737	0.023	0.2819	0.4873	102	75	125	0	0			

Sample ID	13080639-043AMSD	SampType:	MSD	TestCode:	M_HG_SOLI	Units:	mg/Kg-dry	Prep Date:	8/20/2013	Run ID:	CETAC_130821F		
Client ID:	PA-516-01(6-18)-081	Batch ID:	71462	TestNo:	SW7471A			Analysis Date:	8/21/2013	SeqNo:	2498258		
Analyte		Result		PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		0.7364	0.023	0.2828	0.4873	88.1	75	125	0.7737	4.93			20

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 H/HT - Holding Time Exceeded  
 B - Analyte detected in the associated Method Blank  
 E - Value above quantitation range

# ANALYTICAL QC SUMMARY REPORT

**CLIENT:** Weston Solutions  
**Work Order:** 13080639  
**Project:** Pilsen Soil Site, Pilsen, Chicago, IL

**BatchID: R92317**

Sample ID	<b>PMMBK 1 8/20/13</b>	SampType:	<b>MBLK</b>	TestCode:	<b>PMOIST</b>	Units:	<b>wt%</b>	Prep Date:	<b>8/20/2013</b>	Run ID:	<b>BALANCE_130820C</b>		
Client ID:	<b>ZZZZZ</b>	Batch ID:	<b>R92317</b>	TestNo:	<b>D2974</b>			Analysis Date:	<b>8/20/2013</b>	SeqNo:	<b>2497375</b>		
Analyte		Result		PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture		ND		0.200									*

Sample ID	<b>PMLCS-S 1 8/20/13</b>	SampType:	<b>LCS</b>	TestCode:	<b>PMOIST</b>	Units:	<b>wt%</b>	Prep Date:	<b>8/20/2013</b>	Run ID:	<b>BALANCE_130820C</b>		
Client ID:	<b>ZZZZZ</b>	Batch ID:	<b>R92317</b>	TestNo:	<b>D2974</b>			Analysis Date:	<b>8/20/2013</b>	SeqNo:	<b>2497377</b>		
Analyte		Result		PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture		4.82		0.200	5	0	96.4	80	120	0	0		*

Sample ID	<b>PMLCS-W 1 8/20/13</b>	SampType:	<b>LCS</b>	TestCode:	<b>PMOIST</b>	Units:	<b>wt%</b>	Prep Date:	<b>8/20/2013</b>	Run ID:	<b>BALANCE_130820C</b>		
Client ID:	<b>ZZZZZ</b>	Batch ID:	<b>R92317</b>	TestNo:	<b>D2974</b>			Analysis Date:	<b>8/20/2013</b>	SeqNo:	<b>2497379</b>		
Analyte		Result		PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture		99.79		0.200	99.8	0	100	80	120	0	0		*

Sample ID	<b>13080634-018B DUP</b>	SampType:	<b>DUP</b>	TestCode:	<b>PMOIST</b>	Units:	<b>wt%</b>	Prep Date:	<b>8/20/2013</b>	Run ID:	<b>BALANCE_130820C</b>		
Client ID:	<b>ZZZZZ</b>	Batch ID:	<b>R92317</b>	TestNo:	<b>D2974</b>			Analysis Date:	<b>8/20/2013</b>	SeqNo:	<b>2497387</b>		
Analyte		Result		PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture		14.94		0.200	0	0	0	0	0	12.72	16.1	20	*

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 R - RPD outside accepted recovery limits  
 H/HT - Holding Time Exceeded  
 B - Analyte detected in the associated Method Blank  
 E - Value above quantitation range

# ANALYTICAL QC SUMMARY REPORT

**CLIENT:** Weston Solutions  
**Work Order:** 13080639  
**Project:** Pilsen Soil Site, Pilsen, Chicago, IL

**BatchID: R92320**

Sample ID	<b>PMMBK 2 8/20/13</b>	SampType:	<b>MBLK</b>	TestCode:	<b>PMOIST</b>	Units:	<b>wt%</b>	Prep Date:	<b>8/20/2013</b>	Run ID:	<b>BALANCE_130820D</b>		
Client ID:	<b>ZZZZZ</b>	Batch ID:	<b>R92320</b>	TestNo:	<b>D2974</b>			Analysis Date:	<b>8/20/2013</b>	SeqNo:	<b>2497484</b>		
Analyte		Result		PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture		ND		0.200									*

Sample ID	<b>PMLCS-S 2 8/20/13</b>	SampType:	<b>LCS</b>	TestCode:	<b>PMOIST</b>	Units:	<b>wt%</b>	Prep Date:	<b>8/20/2013</b>	Run ID:	<b>BALANCE_130820D</b>		
Client ID:	<b>ZZZZZ</b>	Batch ID:	<b>R92320</b>	TestNo:	<b>D2974</b>			Analysis Date:	<b>8/20/2013</b>	SeqNo:	<b>2497485</b>		
Analyte		Result		PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture		4.89		0.200	5	0	97.8	80	120	0	0		*

Sample ID	<b>PMLCS-W 2 8/20/13</b>	SampType:	<b>LCS</b>	TestCode:	<b>PMOIST</b>	Units:	<b>wt%</b>	Prep Date:	<b>8/20/2013</b>	Run ID:	<b>BALANCE_130820D</b>		
Client ID:	<b>ZZZZZ</b>	Batch ID:	<b>R92320</b>	TestNo:	<b>D2974</b>			Analysis Date:	<b>8/20/2013</b>	SeqNo:	<b>2497486</b>		
Analyte		Result		PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture		99.81		0.200	99.8	0	100	80	120	0	0		*

Sample ID	<b>13080639-017A DUP</b>	SampType:	<b>DUP</b>	TestCode:	<b>PMOIST</b>	Units:	<b>wt%</b>	Prep Date:	<b>8/20/2013</b>	Run ID:	<b>BALANCE_130820D</b>		
Client ID:	<b>PA-499-01(0-6)-0814</b>	Batch ID:	<b>R92320</b>	TestNo:	<b>D2974</b>			Analysis Date:	<b>8/20/2013</b>	SeqNo:	<b>2497488</b>		
Analyte		Result		PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture		12.07		0.200	0	0	0	0	0	14.25	16.6	20	*

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 H/HT - Holding Time Exceeded  
 B - Analyte detected in the associated Method Blank  
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# ANALYTICAL QC SUMMARY REPORT

**CLIENT:** Weston Solutions  
**Work Order:** 13080639  
**Project:** Pilsen Soil Site, Pilsen, Chicago, IL

**BatchID: R92324**

Sample ID	<b>PMMBK 3 8/20/13</b>	SampType:	<b>MBLK</b>	TestCode:	<b>PMOIST</b>	Units:	<b>wt%</b>	Prep Date:	<b>8/20/2013</b>	Run ID:	<b>BALANCE_130820E</b>
Client ID:	<b>ZZZZZ</b>	Batch ID:	<b>R92324</b>	TestNo:	<b>D2974</b>			Analysis Date:	<b>8/20/2013</b>	SeqNo:	<b>2497608</b>
Analyte	Result	PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	ND	0.200									*

Sample ID	<b>PMLCS-S 3 8/20/13</b>	SampType:	<b>LCS</b>	TestCode:	<b>PMOIST</b>	Units:	<b>wt%</b>	Prep Date:	<b>8/20/2013</b>	Run ID:	<b>BALANCE_130820E</b>
Client ID:	<b>ZZZZZ</b>	Batch ID:	<b>R92324</b>	TestNo:	<b>D2974</b>			Analysis Date:	<b>8/20/2013</b>	SeqNo:	<b>2497609</b>
Analyte	Result	PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	5.68	0.200	5	0	114	80	120	0	0	0	*

Sample ID	<b>PMLCS-W 3 8/20/13</b>	SampType:	<b>LCS</b>	TestCode:	<b>PMOIST</b>	Units:	<b>wt%</b>	Prep Date:	<b>8/20/2013</b>	Run ID:	<b>BALANCE_130820E</b>
Client ID:	<b>ZZZZZ</b>	Batch ID:	<b>R92324</b>	TestNo:	<b>D2974</b>			Analysis Date:	<b>8/20/2013</b>	SeqNo:	<b>2497610</b>
Analyte	Result	PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	99.77	0.200	99.8	0	100	80	120	0	0	0	*

Sample ID	<b>13080639-040A DUP</b>	SampType:	<b>DUP</b>	TestCode:	<b>PMOIST</b>	Units:	<b>wt%</b>	Prep Date:	<b>8/20/2013</b>	Run ID:	<b>BALANCE_130820E</b>
Client ID:	<b>PA-515-01(0-6)-0816</b>	Batch ID:	<b>R92324</b>	TestNo:	<b>D2974</b>			Analysis Date:	<b>8/20/2013</b>	SeqNo:	<b>2497617</b>
Analyte	Result	PQL	SPK value	SPK RefVal	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	19.36	0.200	0	0	0	0	0	19.12	1.25	20	*

**Qualifiers:** ND - Not Detected at the Reporting Limit  
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**APPENDIX B**  
**EPA FIELDS SUPPLEMENTAL DATA ANALYSIS**

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27 October 2014

## **U.S. EPA Region 5 Report for the Statistical Analysis of Cadmium, Copper, Lead, Tin and Zinc Found Soil at and near the H. Kramer facility, Chicago, IL**

### **USEPA FIELDS Group**

John Canar, Environmental Scientist

Linda Jacobson, Research Associate

Chuck Roth, Life Scientist

## **Introduction**

Soil samples were collected by the USEPA and its contractor, Weston Solutions, near the H. Kramer property as well as at locations up to a mile and a half away from the property. These samples were analyzed for metals by an accredited laboratory. The metals focused on for this study were Cadmium, Copper, Lead, Tin, and Zinc because these metals are more indicative of the metals present in H. Kramer airborne emissions. The purpose of these analyses was to investigate the similarities and differences in concentrations of Cadmium, Copper, Lead, Tin, and Zinc in soils on and near the H. Kramer property, the nearby Pilsen residential neighborhood, two local areas (Little Italy and Harrison Park (West)), and the USGS – Chicago Department of Environment surface metals sampling data (Kay et al., 2003).

## **Methods**

### Data sets

The USEPA-Weston samples consisted of grab and composites containing soil from up to five discrete locations on a given property. Soil samples were collected from the following depths: 0-6, 0-12, 6-12, 6-18, 6-24, and 18-24 inches below ground surface (bgs). The samples from the 0-6 inches bgs interval were used in these analyses. Samples were taken in front and back yards, alleys, and in soil areas with railroad tracks. The samples taken in gardens and drip zones were not used in this analysis due to garden soils potentially being amended, mixed and often imported, and drip zones being likely to contain Lead from Lead-based paint. Additionally, replicate samples and duplicate samples were also not used in this analysis. The samples were



separated into seven areas called Railroad, Alley, Res1, Res2, Res3, Little Italy, and West (see Figure 1). Little Italy is considered the local reference area. Little Italy was selected as it was mostly crosswind/upwind from the H. Kramer smelter and, compared to the Pilsen-Kramer area, had a more limited industrial past and was similar in terms of age. Figure 2 is a representation of the historic wind rose for the Pilsen-Kramer area and environs. Note that “arms” in the figure represent the direction from which the wind blows; the lengths represent the proportion of the time the wind came from each direction (i.e., the frequency). Hence, for this wind rose, the predominant winds are from the west and the south. The Res1, Res2, and Res3 areas were created based on the spatial grouping of the USEPA’s residential soil sampling locations and the prevalent wind directions (from 1928 to 2013). The three areas are presented in Figure 3. The wind directions were presented in Figure 2. The West area, i.e., near Harrison Park (see Figure 1) is also a potential local reference area although it may have been impacted by historic heavy-metal emitters that were located in that area.

Additional data used in these analyses included H. Kramer “on-site” and the “USGS” surface metal concentrations. The former data were taken from the “CRA Updated Focused Site Investigation Report Sept. 2007” created by Conestoga-Rovers and Associates. The latter were obtained from the report by Kay et al. (2003), i.e., the joint USGS – Chicago Department of Environment sampling event in 2000 and 2001.

### Basic Statistics

The basic (descriptive) statistics were generated for the three near residential areas: Res1, Res2, and Res3. These areas were presented in Figure 3 above.

### Multiple Comparisons

The comparison of metal levels (Cadmium, Copper, Lead, and Zinc) for each area and/or dataset was performed using a statistical procedure called ANOVA (analysis of variance). The metal levels’ areas are shown in Figure 1; a total of eight areas. These levels were also compared to the USGS – Chicago Department of Environment (USGS) sampling results. (Tin was not used in these comparisons as the on-site data did not contain concentration values for Tin.)

The comparison of these areas was phrased in the form of a question: Is there a difference in metal levels in these areas? If metal levels in the Railroad, Alley, On-site, Res1, Res2, and/or Res3 were higher than those in Little Italy, West, or the Chicago area (the USGS – Chicago Department of Environment data) then this would indicate contamination. In order to answer this question, an ANOVA procedure is performed to test the hypothesis that the metal levels in each area are the same. Hence, one is testing whether Zinc levels, for instance, are the same for the Railroad, Alley, On-site, West, Res1, Res2, Res3, Little Italy, and the Chicago area. If that hypothesis is rejected, meaning that the levels of Zinc are not the same in these areas, then a multiple comparison procedure is performed. Since an ANOVA does not tell you which areas

are different from each other, a multiple comparison procedure is performed to answer this question. The paragraph below explains how this is done using statistical software.

Since the data were not normally distributed for any of the metals (shown by the Shapiro-Wilk test; results not shown), and therefore violated the assumption of normality, the data were ranked to perform a nonparametric analysis. SAS<sup>®</sup> statistical software was used to compare the areas using one-way ANOVA on the ranked data with the general linear models (GLM) procedure. The Type III Sums of Squares result was used since the areas had an unbalanced number of samples. The Least Squares Means Tukey-Kramer Multiple Comparisons test was used to determine differences between the areas including the USGS dataset. The Least Squares Means Tukey-Kramer Multiple Comparisons test was selected because it accommodates unequal sample sizes and is the most robust test for pairwise comparisons (SAS, 2011).

### Confidence Limits

As with the multiple comparison procedure, confidence limits were created for the ratio of Zinc to Lead in the eight areas and the USGS dataset. This ratio was found to be highest in the Railroad, Alley, and On-site samples compared to other areas at Pilsen.

Although the data were not normally distributed for the Zinc to Lead ratios (shown by the Shapiro-Wilk test; results not shown), and therefore violated the assumption of normality, the confidence limits were estimated parametrically and non-parametrically using the SAS<sup>®</sup> statistical software. In the majority of cases, there was little difference between the estimates.

### Regression with distance

The SAS<sup>®</sup> statistical software was used to create simple linear regression models to predict Cadmium, Copper, Lead, Tin, and Zinc concentrations as a function of distance from the H. Kramer property's center. The statistical methods employed were drawn from SAS<sup>®</sup> literature and three regression texts: Statistical Methods in Water Resources, 1992; and Applied Regression Analysis and Other Multivariate Methods, 1978 and 1988.

The steps used to perform simple linear regression were:

1. Plot the data;
2. Compute the least squares regression statistics;
3. Examine adherence to the assumptions of regression using residual plots; and
4. Employ regression diagnostics (Helsel and Hirsch, 1992).

## **Results and Conclusions**

## Basic Statistics

The basic (descriptive) statistics for the three near residential areas are presented in Figure 4. The figures demonstrate a decline in metal levels as one gets farther away from the H. Kramer site going in the north, northeast, and east directions. Nonetheless there were still elevated Lead levels in Res 2 (median value of 930ppm) and in Res 3 (median value of 410ppm).

## Multiple Comparisons

There was a significant difference between the eight areas and the USGS dataset for Cadmium, Copper, Lead, and Zinc (shown by one-way ANOVA on ranked data; results not shown). The Tukey-Kramer multiple comparison results for Lead are shown in Figure 5. A visual representation of the multiple comparisons for Cadmium, Copper, Lead, and Zinc is presented in Figure 6.

In Figure 6, the colored ovals represent areas with metal values that were not statistically different from each other. For example, the levels of Lead were not significantly different for samples from the RR, Alley, W, Res1, OS, and Res2. (Where RR is Railroad, Alley is Alley, W is West, Res1 is Res1, OS is on-site, and Res2 is Res2.) In contrast, the USGS and LI (Little Italy) area had significantly lower Lead levels than all of the above areas. But not significantly different Lead levels than in Res3. The blue oval, that overlaps both the grey and purple ovals, shows that although Res3 had statistically lower Lead levels than RR, Alley, W, and Res1, its levels were not significantly different than OS and Res2.

In general the figure demonstrates, when viewing from left to right, that Res1 and Res2 were not statistically different from each other. And, save for Copper, were not statistically different than the areas RR, Alley, OS (i.e., soils on and near the H. Kramer property). Lead samples from the West (i.e., Harrison Park area) were often not statistically different from Res1 and/or Res2 and some of the RR, Alley, OS areas. However, the elevated Lead levels in the West area are believed to be from a different source or sources, independent of H. Kramer. Additionally, the USGS dataset, Res3, and Little Italy often had significantly lower metal levels than all other areas. Additionally, these three areas were not statistically different from each other for all four metals.

## Confidence Limits

The confidence limits, by area and the USGS dataset are shown in Figure 7. (A 95% confidence limit “means that if you took repeated random samples from a population and calculated the mean [or median] and confidence limits for each sample, the confidence interval for 95% of your samples would include the parametric mean [or median]” (McDonald, 2009). As can be seen in Figure 7, the confidence limits for the median Zinc to Lead ratios (“signatures”) for the soils on and near the H. Kramer property (i.e., RR, Alley, On-site) overlap with that of Res1.

Statistically, the Zinc to Lead confidence limit for Res1 was no different than those for the RR, Alley, and On-site samples. This overlapping signature became less and less similar with Res2 and less so with Res3. The confidence limit for the “West” samples had a very different Zinc to Lead signature (the confidence limit) than the RR, Alley, On-site, Res1, and Res2 samples.

The importance of these confidence limits is to point out the overlap in median Zinc to Lead ratios observed in soil from areas adjacent to and on the H. Kramer property (i.e., Alley, RR, On-Site) and the impacted, near residential areas (Res1 and Res2). They also demonstrated the different contamination signature of the elevated metal levels in the West samples.

### Regression with distance

The regression of metals levels (Cadmium, Copper, Lead, Tin, and Zinc) with distance from the H. Kramer site was statistically significant for each metal. Figures 8 through 12 show these relationships and associated statistical outputs. (The regression was performed on the natural log of the metals levels and distance in order to meet the assumptions of regression, specifically the homoscedasticity of residuals.) The slope for each of these regression equations was statistically significant and negative, indicating a decrease in metal concentrations with distance from H. Kramer. (See the “parameter estimate” for the LN\_dist variable in the statistical output inset in each figure.) Additionally, these findings confirm the wind-borne conceptual site model. Moreover, these findings demonstrate that other potential sources, e.g., National Lead to the Northeast and Loewenthal to the East are not the source of these elevated metal levels. If the latter were true, metal levels would increase with distance from the site to these locations.

## **Summary**

Overall, the EPA Fields Group’s Statistical Analysis of Cadmium, Copper, Lead, Tin, and Zinc found at and near the H. Kramer facility indicates that H. Kramer is a significant contributor for elevated lead in residential surface soil in the RR/Alley, Res 1 and Res 2. However, the analyses could not conclude that there was lead contribution from H. Kramer in residential surface soils in Res 3. Further, Res 3 lead levels in surface soil indicate contributions from other industrial sources. Finally, the analysis indicated no apparent lead contribution in surface soil, from H. Kramer, in Harrison Park.

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## **Contact**

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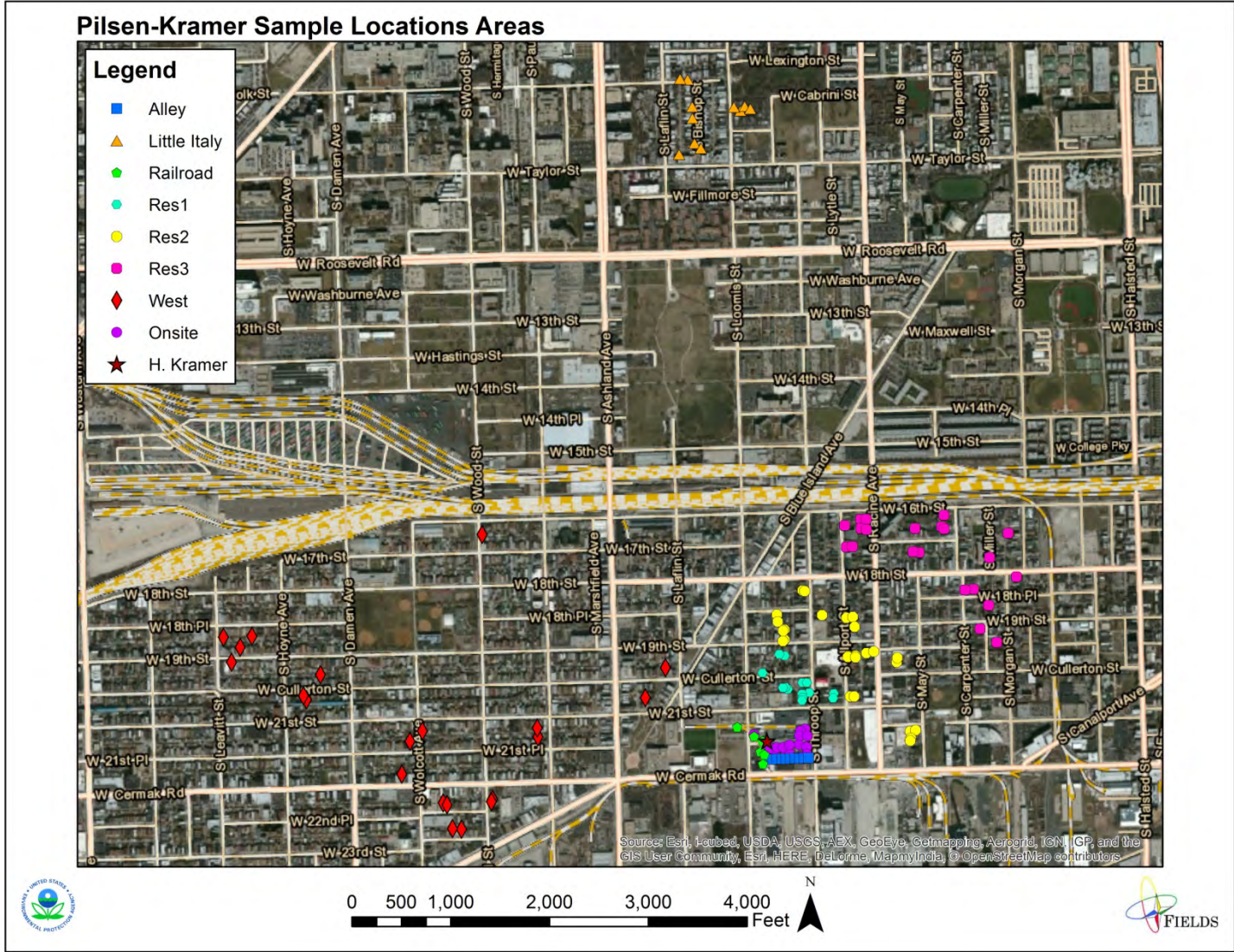


Figure 1: USEPA Sample locations and areas

# CHICAGO/MIDWAY

86-year summary: 1928 - 2013

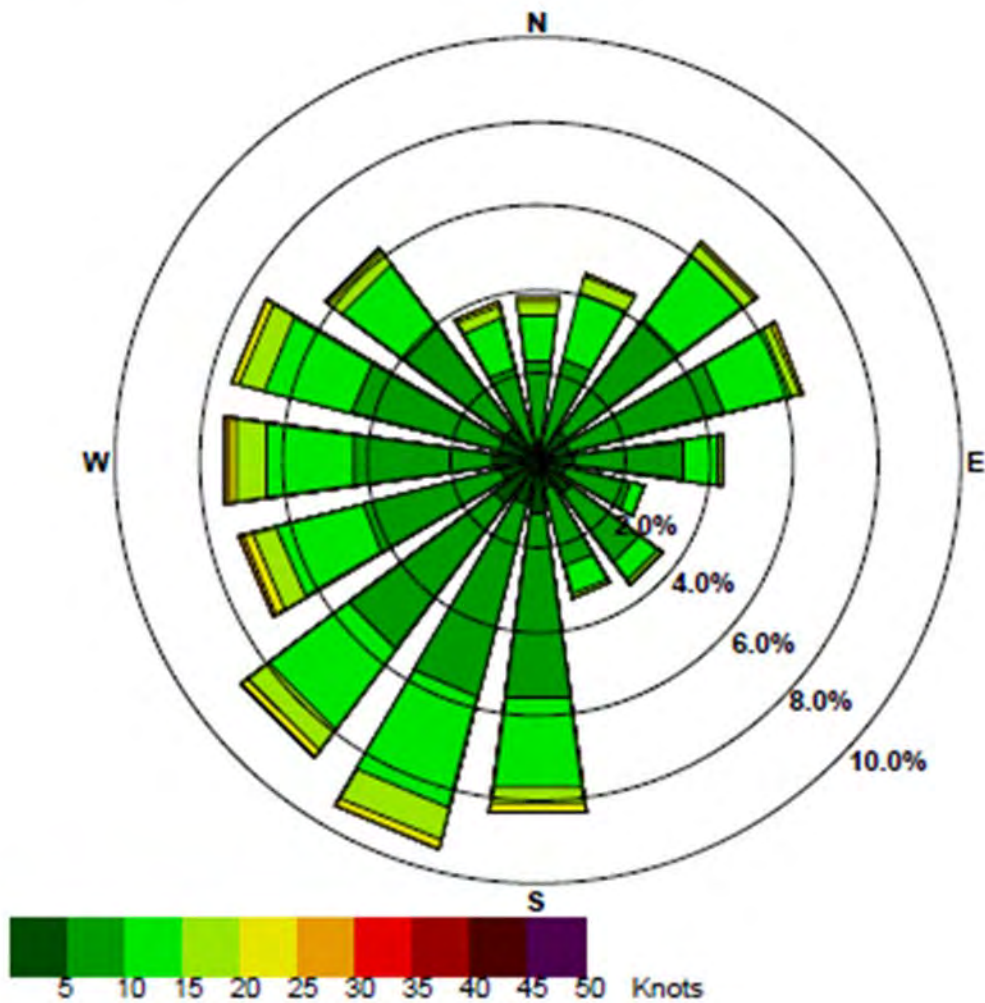


Figure 2: Windrose for the Pilsen-Kramer area and environs. Note that “arms” in the figure represent the direction from which the wind blows; the lengths represent the proportion of the time the wind came from each direction (i.e., the frequency). Hence, for this wind rose, the predominant winds are from the west and the south.

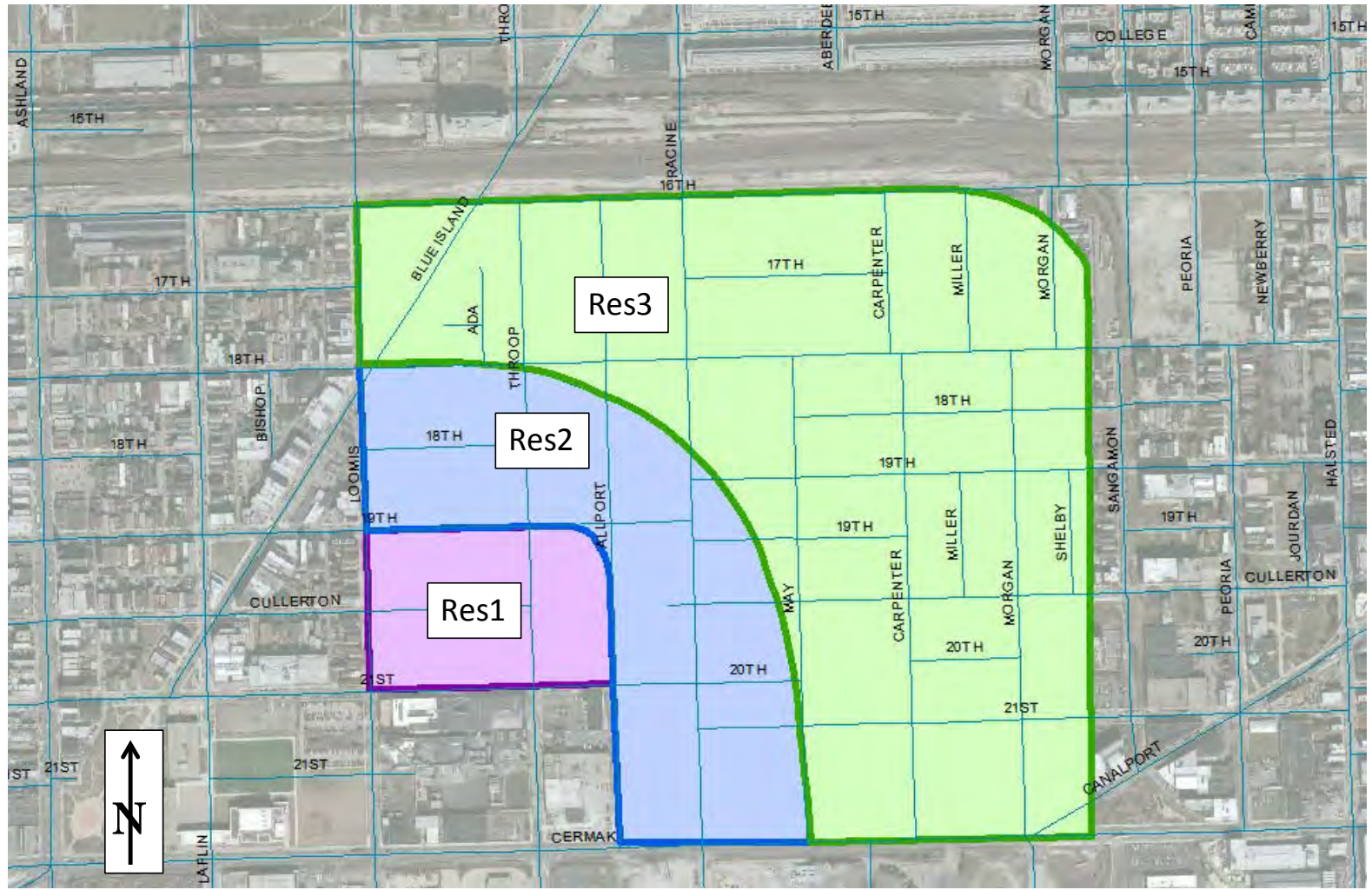


Figure 3: Near residential areas: Res1, Res2, and Res3.



Res1	mean	median	SD	N
Cd	7	7	5	14
Sb	11	3	14	14
Sn	80	59	60	14
Cu	535	425	447	14
Pb	1484	1850	904	14
Zn	2871	2650	2017	14
Res2				
Cd	4	4	3	27
Sb	4	5	1	27
Sn	38	28	30	27
Cu	207	190	133	27
Pb	1054	930	676	27
Zn	1320	970	906	29
Res3				
Cd	3	3	2	21
Sb	5	5	1	21
Sn	20	16	11	21
Cu	80	64	39	21
Pb	648	410	516	21
Zn	479	380	315	21

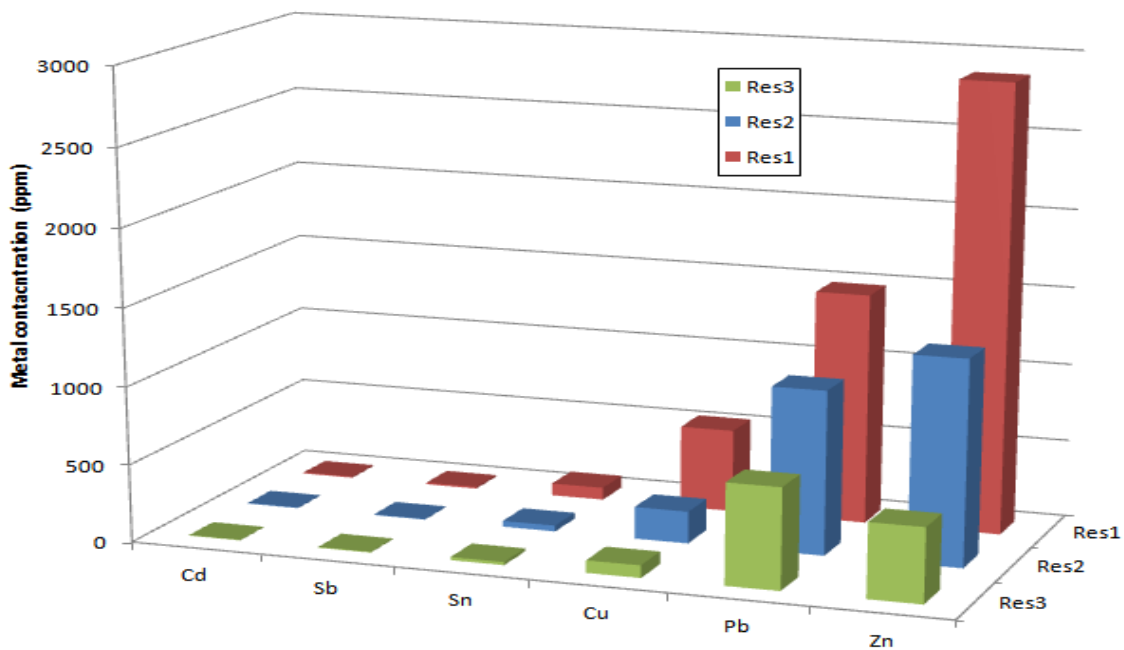


Figure 4: Basic Statistics

Proc GLM and post-hoc tests of differences; Ranks of Lead Levels by Area  
Pilsen-Kramer Superfund Site  
USEPA sampling (2012-2013), USGS-City of Chicago background data, and on-site data

The GLM Procedure  
Least Squares Means  
Adjustment for Multiple Comparisons: Tukey-Kramer

Area3	Lead_r LSMEAN	LSMEAN Number
Alley	134.318182	1
L_Italy	49.409091	2
On_site	109.000000	3
RR	156.500000	4
Res_1	127.785714	5
Res_2	107.629630	6
Res_3	82.000000	7
USGS	54.701754	8
West	128.857143	9

Least Squares Means for effect Area3 Pr >  t  for H0: LSMean(i)=LSMean(j) Dependent Variable: Lead_r									
ij	1	2	3	4	5	6	7	8	9
1		0.0002	0.8458	0.9813	1.0000	0.6981	0.0274	<.0001	1.0000
2	0.0002		0.0133	<.0001	0.0002	0.0047	0.4877	1.0000	<.0001
3	0.8458	0.0133		0.3242	0.9549	1.0000	0.6142	0.0005	0.8974
4	0.9813	<.0001	0.3242		0.8964	0.2041	0.0055	<.0001	0.8883
5	1.0000	0.0002	0.9549	0.8964		0.8737	0.0477	<.0001	1.0000
6	0.6981	0.0047	1.0000	0.2041	0.8737		0.4792	<.0001	0.7233
7	0.0274	0.4877	0.6142	0.0055	0.0477	0.4792		0.2182	0.0116
8	<.0001	1.0000	0.0005	<.0001	<.0001	<.0001	0.2182		<.0001
9	1.0000	<.0001	0.8974	0.8883	1.0000	0.7233	0.0116	<.0001	

Figure 5: Tukey-Kramer multiple comparison results.

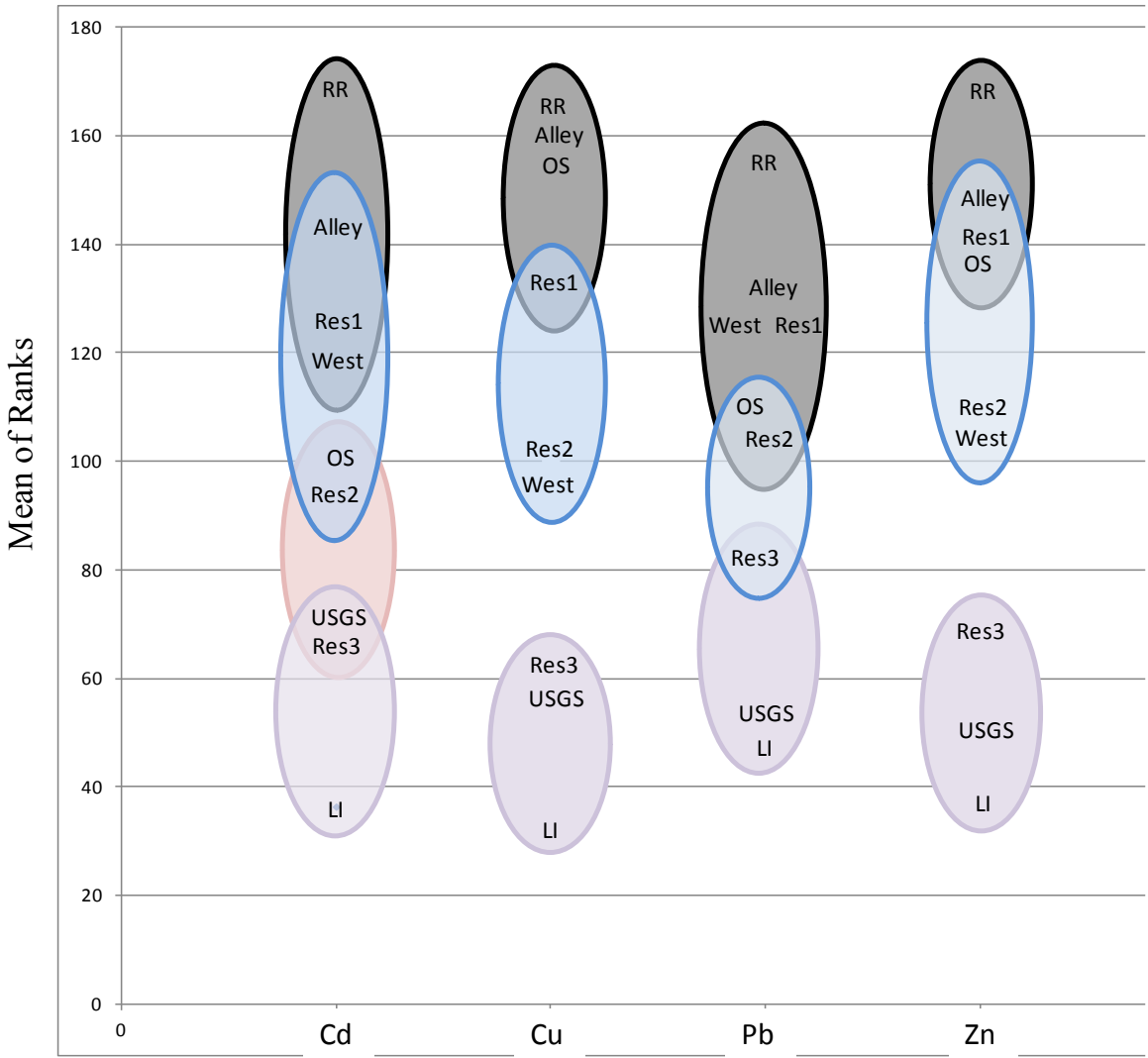


Figure 6: Cumulative schematic of the multiple comparisons by area and metal. Where LI is Little Italy, USGS is the USGS – Chicago Department of Environment dataset, Res1, Res2, and Res3 are as defined before, W is West, OS is on-site, Alley is Alley, and RR is Railroad. Where the Y-axis is the “Ismeans” value for each metal and dataset (the mean of the ranked values). Areas in the same colored ovals are not statistically different from each other; areas in different colored ovals are statistically different from each other.

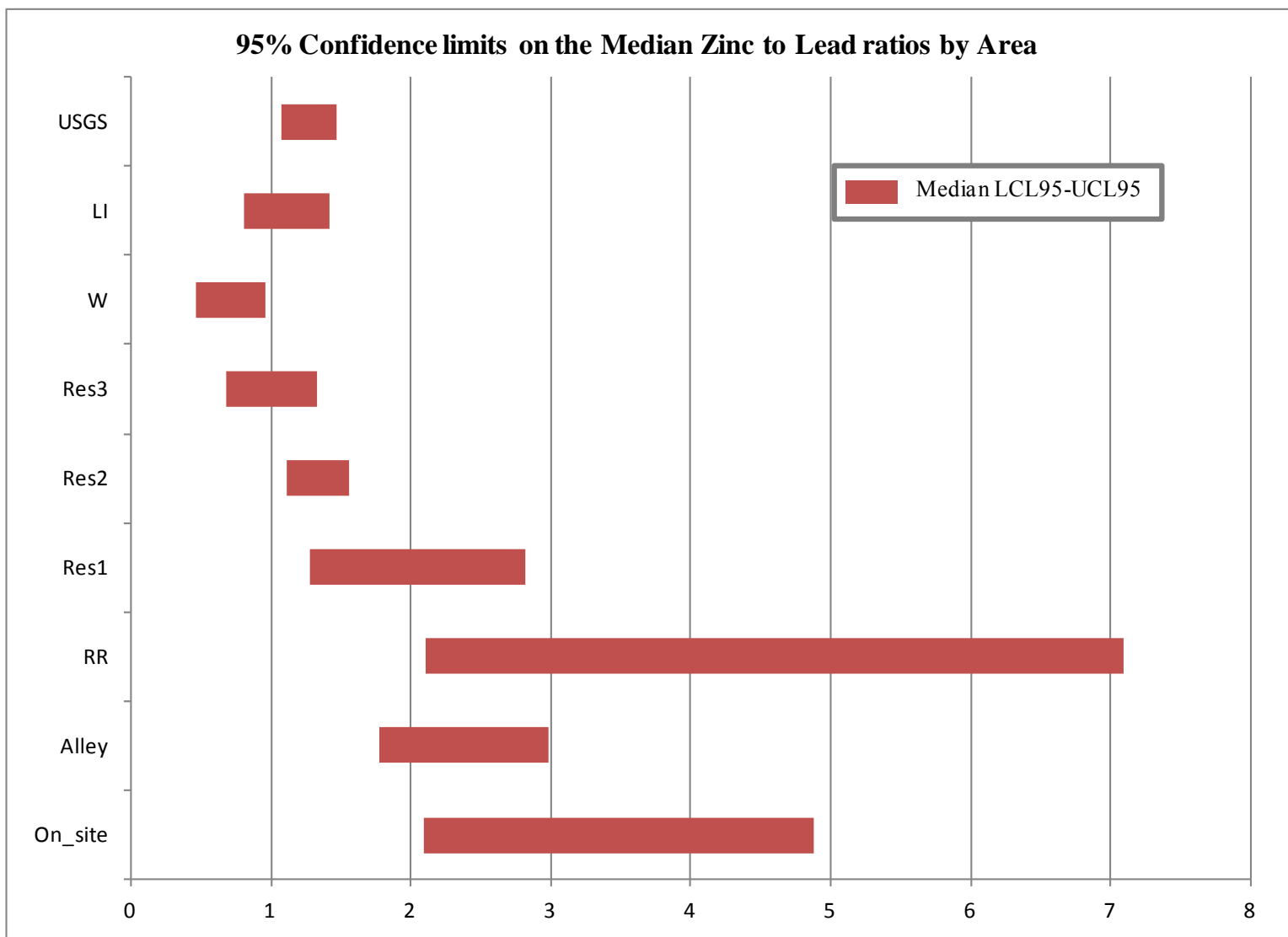


Figure 7: Confidence limits for the median Zinc to Lead ratio.

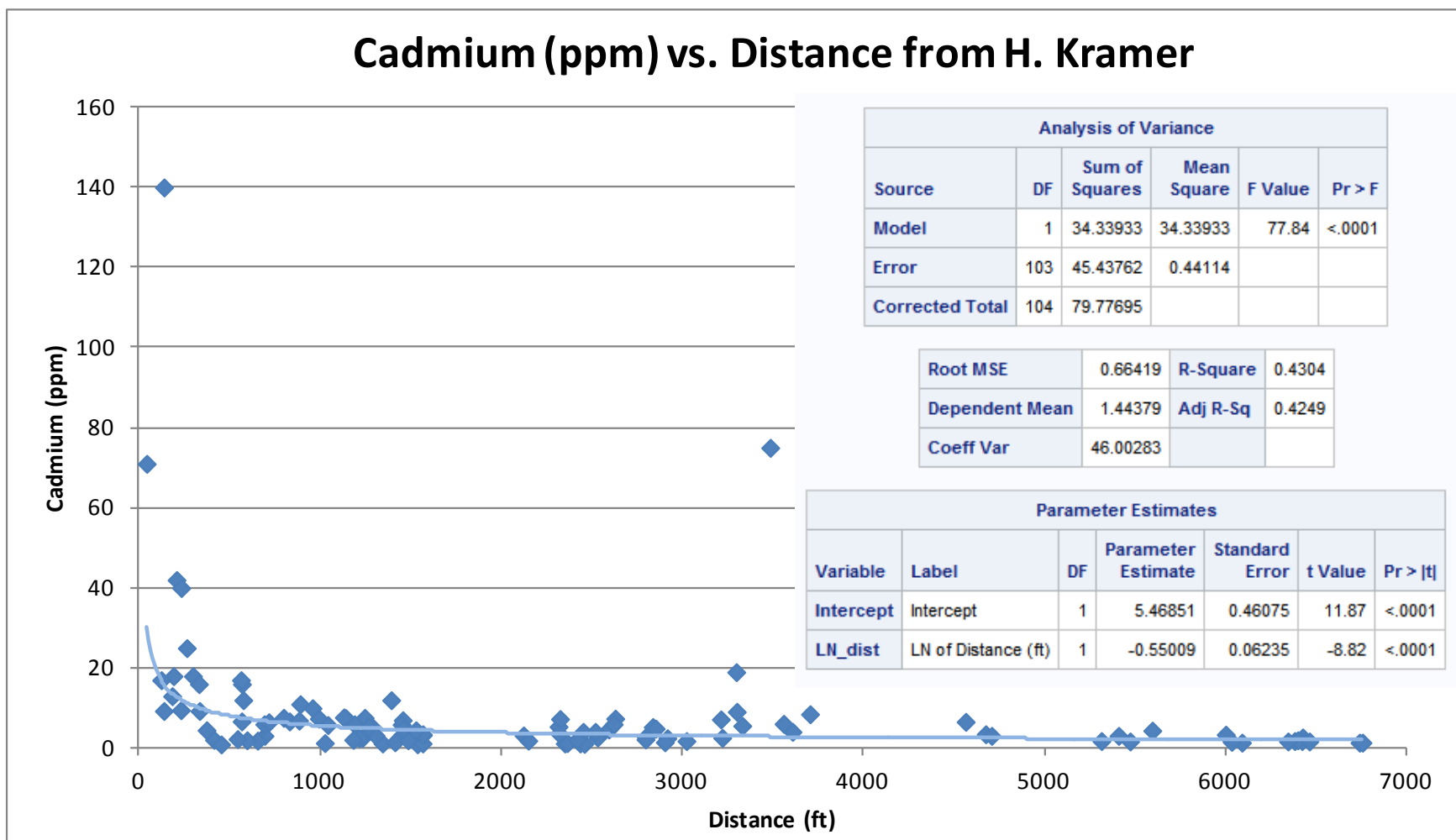


Figure 8: Cadmium levels as a function of distance from H. Kramer. Statistical output is shown in the inset.

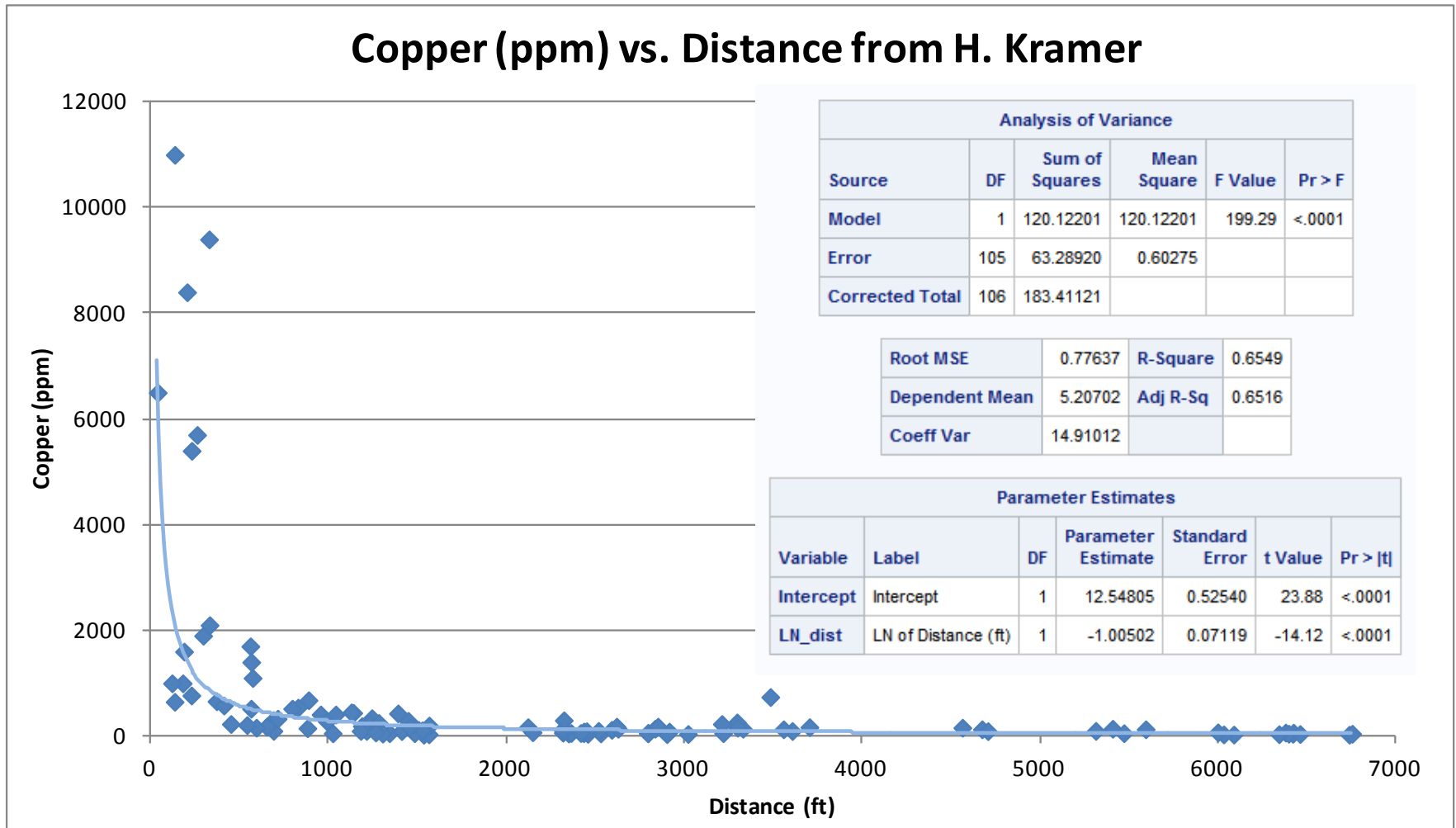


Figure 9: Copper levels as a function of distance from H. Kramer. Statistical output is shown in the inset.

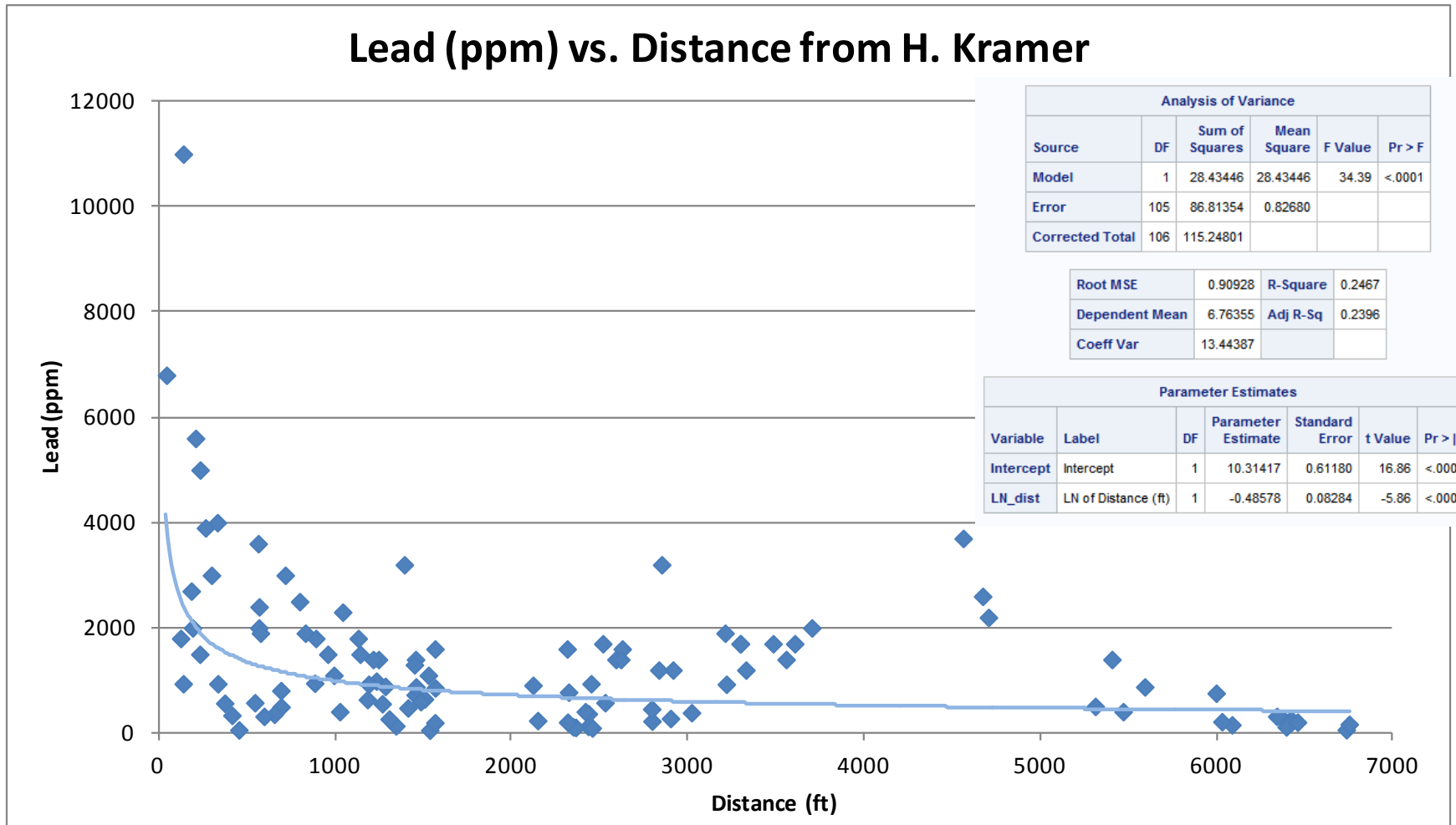


Figure 10: Lead levels as a function of distance from H. Kramer. Statistical output is shown in the inset.

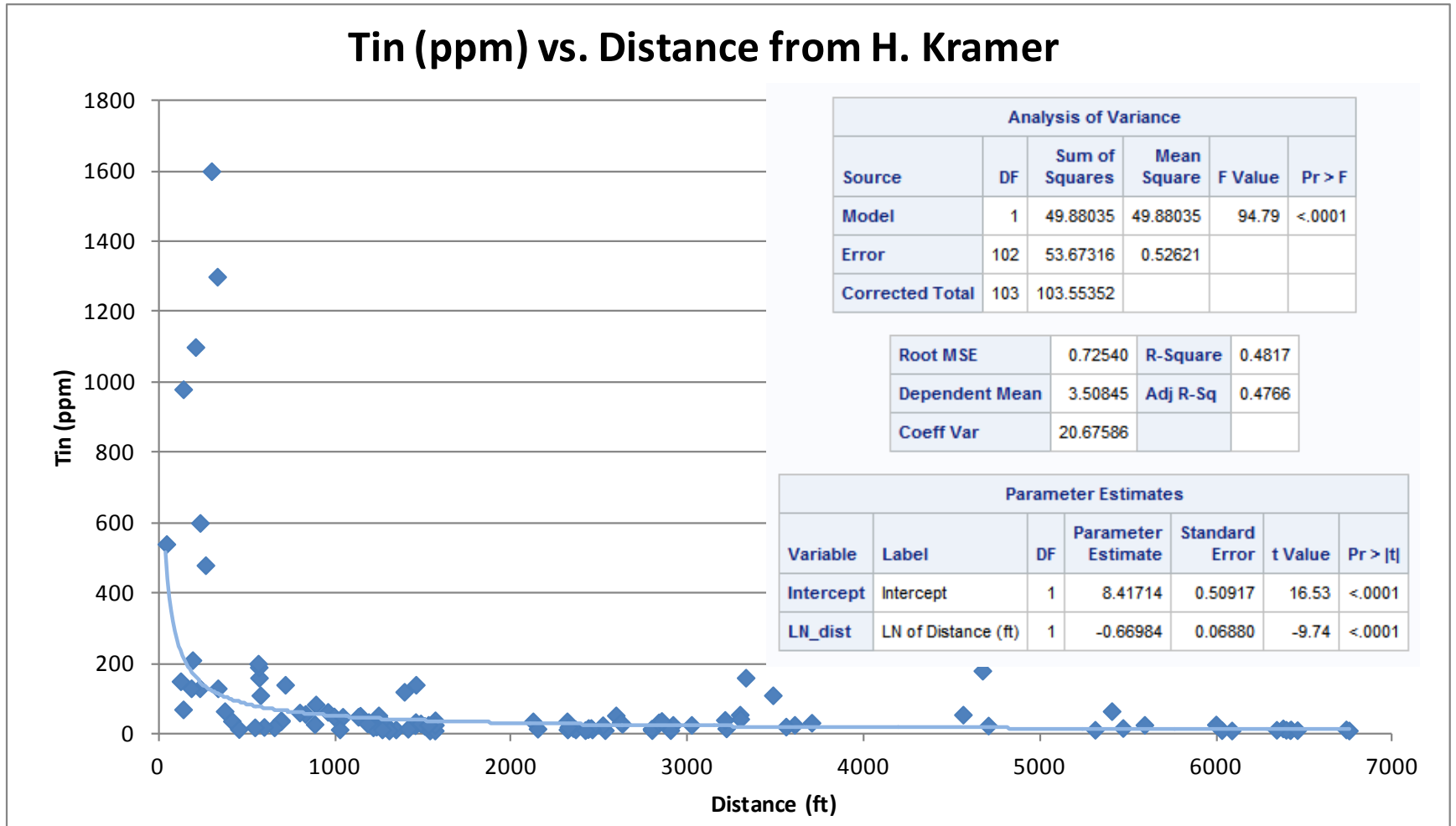


Figure 11: Tin levels as a function of distance from H. Kramer. Statistical output is shown in the inset.



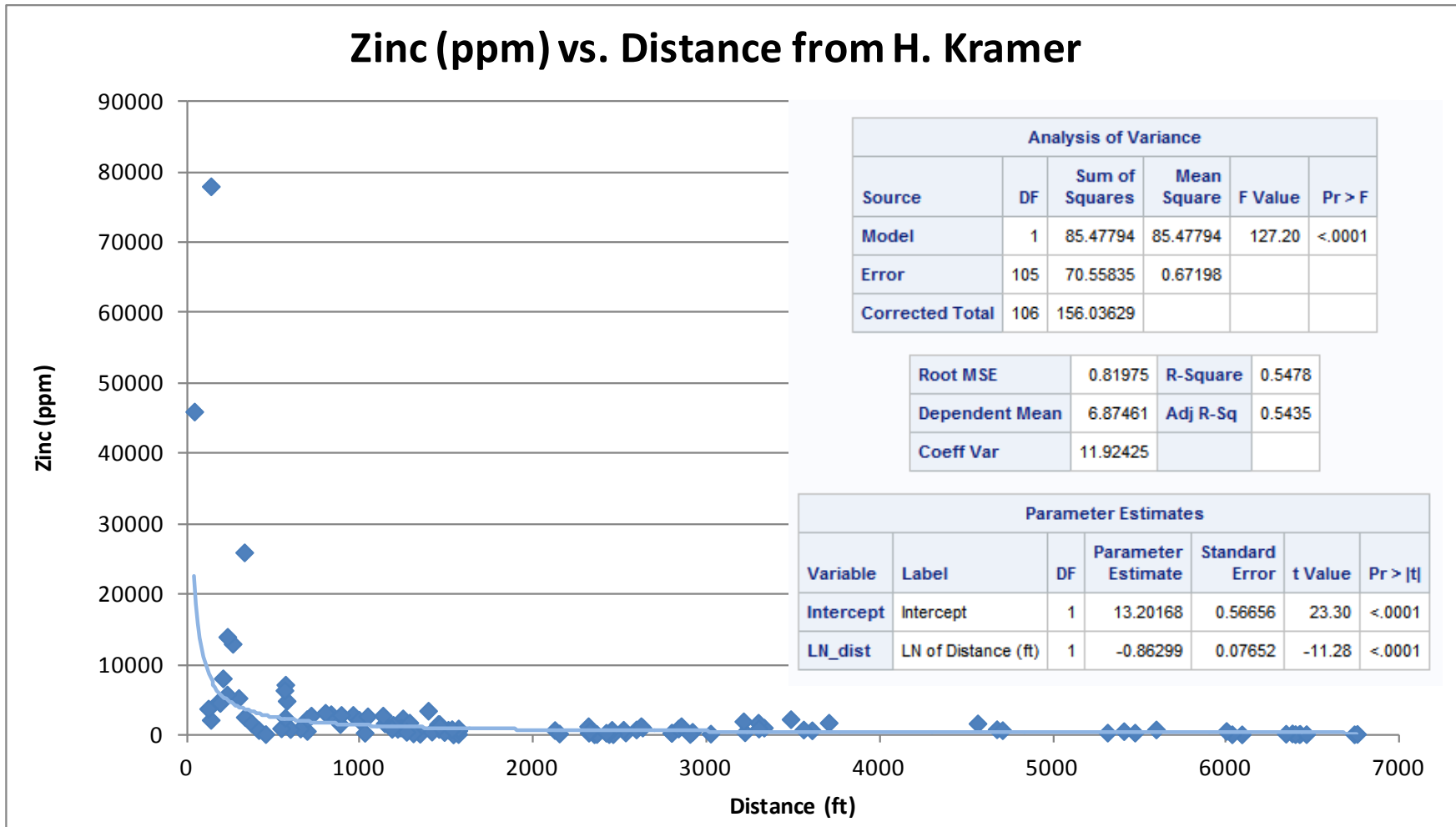


Figure 12: Zinc levels as a function of distance from H. Kramer. Statistical output is shown in the inset.