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Removal Action Limit Assessment Report
OU4: Off-Site Soils
DePue Site
DePue, Illinois

Prepared for:
Illinois Environmental Protection Agency

On behalf of:
The DePue Group

Prepared by:
ENVIRON International Corporation
Chicago, Illinois

Date:
September 2011

Project Number:
21-12046C

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Mobil Chemical
New Jersey Zinc
SF/Tech

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September 30, 2011

Ms. Charlene Falco
Illinois Environmental Protection Agency
Bureau of Land, #24
Federal Site Remediation Section
Federal Facilities Unit
1021 North Grand Avenue East
Springfield, Illinois 62702

COPY

Re: Removal Action Limit Assessment Report
OU4: Off-Site Soils
DePue Site, DePue, Illinois

Dear Ms. Falco:

Please find enclosed 19 copies (6 hard copies and 13 electronic copies on DVD) of the Final Removal Action Limit Assessment Report for Operable Unit 4 of the DePue Site. The report has been revised in accordance with the August 9, 2011 letter from the Illinois Environmental Protection Agency (IEPA).

If you have any questions or comments regarding the enclosed document, please feel free to contact us.

Sincerely,

ENVIRON International Corporation

Mark A. Travers
Principal

Kevin Kyrias-Gann
Associate

Enclosures

cc: Kevin Philips – Ecology and Environment (2 copies)
Joe Abel – ExxonMobil Corporation
Jeff Groy – CBS Operations Inc.
Russ Cepko – CBS Operations Inc.
Steve Walker – Terra Environmental Services

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1 Introduction

1.1 Overview

In October 2005, the DePue Group submitted the Removal Action Limit (RAL) Assessment Report to the Illinois Environmental Protection Agency (IEPA) describing the results of the RAL Assessment conducted in association with the New Jersey Zinc/Mobil Chemical site (referred to as the DePue Site), located in the Village of DePue, Bureau County, Illinois (Figure 1). On January 23, 2006, the DePue Group received *Comments on the RAL Assessment Report* from the IEPA. The DePue Group submitted *Responses to the Comments on the RAL Assessment Report* on April 5, 2006. On September 14, 2006, the DePue Group received additional comments and recommendations from the IEPA. Pursuant to the January and September 2006 comments and subsequent discussions with IEPA, the DePue Group has prepared this *Revised RAL Assessment Report.*

This revised report presents the results of the RAL Assessment of soils from 17 specific off-site properties in the vicinity of the DePue Site in the Village of DePue, Bureau County, Illinois (Figure 1). These 17 off-site properties represent a subset of Operable Unit (OU) 4, which is defined as the Off-Site Soils Area. The term "off-site" refers to the New Jersey Zinc/Mobil Chemical facility property as the "site" and/or as "the former plant site area (FPSA)." The remainder of OU4 will be addressed in subsequent work plans, specifically the Off-Site Soils Remedial Investigation (RI) Work Plan (in revision).

The RAL Assessment described in this report was conducted because soil sampling conducted in 1992 by the Illinois Department of Public Health (IDPH) suggested that RALs were exceeded at 17 off-site properties. Similar sampling conducted in 1992 by the Illinois Environmental Protection Agency (IEPA) did not indicate any RAL exceedances. Regardless, at the request of IEPA, the RAL Assessment described in this report was developed to evaluate whether levels of select metals currently exceed RALs on the 17 off-site properties.

The RAL Assessment included the collection of surface and subsurface soil samples from the 17 off-site properties. The number and locations of sampling points on each off-site property were selected with the concurrence of IEPA. Samples were collected from front, side, and back yard areas, gardens (if present), and/or drip zones/downspouts, and were composites from up to four depth intervals. Composite samples formulated from sets of discrete samples, and selected discrete samples were analyzed by field x-ray fluorescence (XRF) methods. A subset of composite and discrete samples also was submitted for laboratory analysis. The composite sample data were evaluated in the field, and based on these results, discrete samples were selected for analysis by XRF and (as applicable) laboratory methods.

The RAL Assessment Work Plan (BBL, 2005) also included a field reconnaissance to identify areas of potentially site-related fill and to compile information concerning the location, size, and physical description of special use areas such as parks, playgrounds, and schools in the off-site soils study area. The identification of potentially site-related fill material also included surveys of DePue area residents regarding potential locations of fill material and interviews with past employees and officials from the Village of DePue. The reconnaissance was conducted by walking the streets, alleys, and rail corridors within the off-site soils study area and recording

observations of possible site-related fill (including clinker, retort, and briquette). The off-site soils study area has been generally defined as the area between 1400 North Avenue to the north, Negro Creek to the east, DePue Lake to the south, and Oakbrook Drive to the west. The results of this research and reconnaissance will be reported in the revised Off-Site Soils RI Work Plan and used to develop the scope of sampling activities in that work plan.

1.2 Objectives

The specific objectives of the RAL Assessment discussed in this report are as follows:

- Identify and sample locations where previous IDPH data suggests RALs may be exceeded;
- Conduct a correlation study to determine the feasibility of using XRF for measuring metals concentrations for RAL exceedances and for future investigative activities; and
- Delineate the extent of RAL exceedances (if applicable).

1.3 Report Organization

This report discusses the off-site properties identified for RAL Assessment soil sampling, describes the soil sampling and field and laboratory analytical methods, presents the data evaluation procedures, and presents recommendations for focused follow-up assessment efforts as a part of the Off-site Soils RI based on the results of the RAL Assessment. The report has been formatted into the following sections.

Section	Contents
1. Introduction	Provides a brief description of how this work plan relates to the overall plan for OU-4, and identifies objectives of the proposed RAL Assessment.
2. RAL Assessment Procedures	Describes the specific RAL Assessment procedures, including sample locations, sample collection procedures, and field and laboratory sample analyses procedures
3. RAL Assessment Results	Provides an evaluation of the RAL data with respect to the Assessment objectives.
4. Summary/Recommendations	Summarizes RAL conclusions and recommends focused follow-up activities for the Off-Site Soils RI.
5. References	Provides the references cited in this report.

Additional details on the RAL Assessment are provided in the RAL Assessment Work Plan (BBL, 2005) and supporting documents, including the existing site-wide plans: (Quality Assurance Project Plan, (QAPP) Field Sampling Plan (FSP), Health and Safety Plan (HASP), and Data Management Plan (DMP) (Golder, 1999a through 1999d); RAL Assessment Work Plan appendices, including Appendix 3 (FSP Addendum), 4 (QAPP Addendum), and Appendix 5 (HASP Addendum) (BBL, 2005); and RAL Assessment field changes and clarifications (Appendix A to this report).

2 RAL Assessment Procedures

2.1 General

As identified in the IEPA approved RAL Assessment Work Plan (BBL, 2005), the RAL Assessment included the following steps:

- Property Location, Access, and Utility Clearance;
- Property Sampling Plan;
- Sample Collection;
- Sample Preparation and Equipment Decontamination;
- Field XRF Analysis – Composite Samples;
- Laboratory Analysis – Composite Samples;
- Field XRF Analysis – Discrete Samples; and
- Laboratory Analysis – Discrete Samples.

Each of the RAL Assessment steps is detailed below.

2.2 Property Location, Access, and Utility Clearance

The RAL Assessment off-site properties were identified based on previous soil data collected by IEPA and IDPH. In 1992, IDPH collected 65 surface soils samples from 65 off-site properties, and IEPA collected 20 soil samples from 20 off-site properties (Terra, 1996). The soil data that were collected by IDPH and IEPA in 1992 were evaluated and compared to RALs. The RALs for metals (except lead) are from the *Hazard Evaluation Handbook, a Guide to Removal Actions, Emergency Removal Guidelines* (United States Environmental Protection Agency (USEPA), 1997); the RAL for lead is provided in the *Superfund Lead-Contaminated Residential Sites Handbook* (USEPA, 2003). Based on the IEPA 1992 data, none of the off-site properties had metal levels that exceeded the RALs; however, the IDPH 1992 data indicated 17 off-site properties where levels of lead and /or cadmium exceeded the RALs. These off-site properties include six locations (D11, W02, W05, W06, W11, and W14) west of the FPSA, ten locations (S02, S11, S12, S13, S16, S18, S19, S21, D16, and D19) south of the FPSA, and one location (E06) east of the FPSA (Figure 2).

For the RAL Assessment, the off-site properties were identified in order of sampling as SS-01 through SS-17. The correlation between the IDPH location identification and the RAL Assessment location identification is provided below:

RAL Identification	IDPH Identification	RAL Identification	IDPH Identification	RAL Identification	IDPH Identification
SS-01	W-11	SS-07	W-02	SS-13	S-02
SS-02	S-11	SS-08	D-11	SS-14	W-14
SS-03	S-16	SS-09	S-13	SS-15	S-18
SS-04	E-06	SS-10	S-21	SS-16	S-12
SS-05	W-05	SS-11	D-16	SS-17	W-06
SS-06	D-19	SS-12	S-19		

Once the off-site properties were identified, IEPA and DePue Group representatives obtained property access verbally followed by signed agreements with the off-site property owners. As soon as verbal agreements for access were obtained, BBL requested utility clearance via the Illinois One-Call system known as the Joint Utility Locating Information for Excavators (JULIE) system. The JULIE system requires 2 working days notification prior to subsurface activities. In general, BBL began the sample collection efforts after the 2-day notification unless BBL verified that the applicable utilities had already marked out the property and, therefore, sampling could begin sooner. For certain off-site properties, BBL requested additional clearance by the Village of DePue for water and sewer lines. A summary of access and utility clearance for the 17 off-site properties is provided below:

RAL Identification	IDPH Identification	Access Agreement Date	Date and Time Utility Clearance Obtained	Sampling Date(s)
SS-01	W-11	5/27/05	5/30/05 – 10:45 am	5/31/05 – 6/1/05
SS-02	S-11	5/27/05	6/1/05 – 3:30 pm	6/1/05
SS-03	S-16	5/27/05	6/2/05 – 12:00 pm	6/2/05
SS-04	E-06	5/31/05	6/2/05 – 3:15 pm	6/2/05 – 6/3/05
SS-05	W-05	5/31/05	6/3/05 – 8:00 am	6/6/05
SS-06	D-19	5/31/05	6/3/05 – 8:00 am	6/6/05 – 6/7/05
SS-07	W-02	6/2/05	6/7/05 – 8:00 am	6/7/05
SS-08	D-11	6/2/05	6/7/05 – 8:15 am	6/8/05
SS-09	S-13	6/3/05	6/8/05 – 8:00 am	6/8/05 – 6/9/05
SS-10	S-21	6/3/05	6/8/05 – 8:00 am	6/9/05
SS-11	D-16	6/6/05	6/9/05 – 8:00 am	6/9/05
SS-12	S-19	6/8/05	6/10/05 – 9:15 am	6/10/05
SS-13	S-02	6/6/05	6/9/05 – 9:00 am	6/13/05
SS-14	W-14	6/9/05	6/10/05 – 10:45 am	6/13/05 – 6/14/05
SS-15	S-18	6/9/05	6/10/05 – 2:45 pm	6/14/05
SS-16	S-12	6/7/05	5/30/05 – 1:00 pm 6/15/05 – 11:30 am	6/15/05
SS-17	W-06	6/14/05	6/16/05 – 8:30 am	6/16/05

2.3 Off-Site Property Sampling Plan

Following receipt of the appropriate property access and utility clearances, BBL, DePue Group, IEPA, and/or Ecology & Environment (E&E) representatives reviewed each off-site property in the field. Subsequent to the field reviews, BBL proposed a site-specific sampling plan for each off-site property following the general guidelines set forth in the RAL Assessment Work Plan (BBL, 2005), including:

- Off-site properties less than 5,000 square feet: two five-point composite samples (i.e., a sample composed of subsamples from five sample locations) from the front yard and the back yard; and an additional five-point composite sample collected from the side yard if the size of the side yard is approximately one-third of the total yard area.

- Off-site properties with a total surface area greater than 5,000 square feet: four five-point composite samples from each of four quadrants of roughly equal surface area.
- Off-site properties over one acre in size: one five-point composite sample from each ¼-acre section.
- Off-site properties with a house: an additional drip zone composite sample (i.e., a sample composed of subsamples from four sample locations on each side of the house with roof sloping downward and/or from downspout-influenced locations).
- Off-site properties with a garden: an additional composite sample (i.e., a sample composed of subsamples from three to five locations) for gardens greater than 100 square feet and /or a discrete sample for gardens less than 100 square feet.

These composite sampling procedures follow guidance in the *Superfund Lead-Contaminated Residential Sites Handbook* (USEPA, 2003).

The proposed off-site property-specific sampling plans were discussed and modified during field consultations with IEPA and E&E. For example, four-point composites were obtained instead of five-point composites where open lawn space was limited (e.g., due to house placement, patios, garages, sheds, driveways). In addition to the USEPA guidance, BBL used the IDPH field sampling notes to place one of the sampling locations on each off-site property at or near the 1992 IDPH sampling location. These locations can only be considered approximate based on the IDPH-prepared sketches and measurements as well as changing conditions (e.g., building additions) performed since the IDPH sampling. The final sampling locations were then staked with numbered orange flags. Table 1 summarizes the sampling plans by off-site property; Appendix B provides a site plan showing sampling locations for each off-site property.

2.4 Sample Collection

After sample locations were finalized and approved by IEPA, BBL conducted three to four probings using a T-handle utility probe around the proposed sample location to provide an additional check for utilities and clearance. After this probing, BBL collected 2-inch sample cores from each flagged location at each off-site property using a manual Geoprobe slide hammer driven macrocore sampler with an acetate liner. The sampler was driven to 24 inches to ensure the collection of the following sample intervals: 0-1 inch, 1-6 inch, 6-12 inch, and 12-18 inch. Total sample recoveries ranged from 18 to 23 inches. One core per sample location provided sufficient sample volume. The acetate liners containing the sample cores were removed from the macrocore sampler, labeled, capped (with plastic and tape), and transported to a cooler in the field laboratory set up in the ExxonMobil building at the FPSA. Sample labels identified the operable unit (OU4), sample property (SS-01 through SS-17), and the sample locations (01 through 27). Sample identification numbering was modified in the field as documented in the field changes in Appendix A.

To supplement the 0-1 inch interval, a 6-inch by 6-inch square of sod was cut and removed and the upper 0-1 inch of soil beneath the grass/root zone was removed at each boring location with a stainless steel trowel. Initially, a 12-inch by 12-inch square area was used; however, the amount of soil generated by this larger area was not needed. At first, the supplemental 0-1 inch

interval soils were placed into a stainless steel bowl/pan prior to transfer to the field laboratory. Later during sample collection, the supplemental 0-1 inch soil was placed in a labeled plastic bag and transported to a cooler in the field laboratory. Sample labels identified the operable unit (OU4), sample property (SS-01 through SS-17), the sample locations (01 through 27), and the sample interval (0-1 inch).

Each sample location was recorded with a Garmin 12 Global Position System (GPS) surveying unit. In addition, each sample location was located in the field by measured distances to prominent property features. The sampling locations by off-site property using the GPS measurements and the field measurements are provided in Appendix B.

To restore the core and supplemental sampling areas, commercially obtained topsoil was placed in the coreholes and hand compacted. Displaced grass/root zone soils were placed on top of the coreholes and supplemental sampling areas to the extent possible. Disturbed soils were watered prior to leaving the properties. Photographs were obtained at each sampling location.

2.5 Sample Preparation and Equipment Decontamination

Prior to sample preparation, the sample cores from each off-site property were removed from the cooler and grouped according to off-site property sub-area for compositing (i.e., front yard, back yard, side yard, drip zone, and garden). Each group of cores was placed on a plastic-lined processing table, end caps were removed from each core, and the acetate liner cut open from each core. After the soil cores from a composite group were exposed, each soil core was measured, photographed, and described with respect to color, grain size, moisture content, and presence of debris/anthropogenic materials. Soils were generally similar throughout the 17 off-site properties and consisted of brown to grey silts and fine to medium sands. Occasionally, black soils and anthropogenic materials were observed; however, no sample intervals were predominantly filled. As such, soil intervals were not separated from fill materials. Appendix C provides the sample descriptions for each sample core location by interval. The plastic liner on the processing table was replaced after each group of cores was processed.

Initially, soil moisture contents were measured using field instruments (e.g., AEMC moisture content meter). The moisture content readings by these instruments appeared excessive for the relatively dry soil conditions. Accordingly, actual moisture contents were requested as a part of the laboratory analyses rather than rely on apparently inaccurate field measurements. Overall, laboratory moisture contents ranged from 2.9% to 18.5% for the composite samples and 6.2% to 24.9% for the discrete samples.

Following completion of the soil descriptions, the soil from each core was segregated into the following discrete sample depth intervals: 0-1 inch, 1-6 inch, 6-12 inch, and 12-18 inch. Each sample interval from each core in a given composite group was placed in a clean rectangular stainless steel or glass pan. Soil from the supplemental 0-1 inch sample interval was added into the appropriate pans with the discrete 0-1 inch intervals. Each discrete sample interval was homogenized by removing rocks, debris, twigs, roots, and grass from the pan and crushing soil clumps with a dedicated clean stainless steel spoon. After each discrete sample interval was homogenized, the soil was spread evenly along the bottom of the pan. For each discrete

sample interval from each composite group, a stainless steel scoop of equal volume was used to collect representative samples from each interval for compositing. The equal sample volumes were placed into a separate container (i.e., stainless steel or glass pan) for homogenization to prepare the composite samples. For each discrete individual sample interval and each composite sample interval, 2-ounce glass laboratory analytical jars were filled and retained in the on-site cooler if selected for laboratory analysis, and a plastic bag was filled and retained in the on-site cooler for field XRF analyses (all composites and selected discrete sample intervals). Sample labels for the discrete sample intervals identified the operable unit (OU4), sample property (SS-01 through SS-17), the sample locations (01 through 27), and the sample interval (0-1 inch, 1-6 inch, 6-12 inch, or 12-18-inch). Sample labels for the composite samples identified the operable unit (OU4), sample property (SS-01 through SS-17), composite number (COMP1 through COMP6), and the sample interval (0-1 inch, 1-6 inch, 6-12 inch, or 12-18-inch).

Sampling equipment in contact with soils was cleaned sequentially using a tap water rinse, Alconox/tap water scrub, tap water rinse, 10% nitric acid rinse, followed by a deionized water rinse. Cleaning occurred prior to the start of the sampling, in between property and sampling locations, and at the completion of the sampling. All cleaning was conducted in a bucket near the field vehicle (i.e. not on the properties) such that all cleaning fluids were contained within the bucket. The cleaning fluids were then transported to the field laboratory and placed in a 55-gallon holding drum. Periodically, the cleaning fluids in the 55-gallon holding drum were transferred to the Interim Water Treatment Plant for treatment.

2.6 Field XRF Analysis – Composite Samples

Prior to performing XRF analyses on the composite samples, site-specific method detection limits, sample run times, and sample containers for field XRF analysis were determined.

Average site-specific method detection limits (MDLs) were determined from seven replicate XRF analyses of the following standard reference materials (SRMs):

- Low standard (National Institute of Standards and Technology (NIST) Low 2709): arsenic, copper, iron, lead, manganese, nickel, and zinc
- Mid standard (NIST Mid 2711): cadmium
- High standard (NIST High 2710): mercury
- CLP standard (CLP D043540): barium, chromium, cobalt, selenium, and silver

The results of the MDL determination are provided in Appendix D and were used to qualify the XRF data.

Sample run times were determined by analyzing the CLP standard four times each at 60 seconds, 90 seconds, 120 seconds, 150 seconds, and 180 seconds. The best recoveries (i.e., the result value compared to the true value) were observed at 120 seconds, which was consistent with the XRF instrument manufacturer's representative's recommendation. As a result of this comparison, BBL ran all XRF samples at sample run times of 120 seconds. The

sample run times are documented in the field clarifications provided in Appendix A and a summary is provided in Appendix D.

In the RAL Assessment Work Plan, polyethylene sample cups were specified as the sample containers for XRF analysis. BBL requested a field change to use plastic bags instead of the sample cups. The CLP standard was run seven times in the sample cup and seven times in a plastic bag; the percent differences between the two methods were less than five percent as documented in the field change requests in Appendix A.

Each composite sample was analyzed in the field laboratory using an Innov-X Systems XRF spectrometer, Model XT-260S in accordance with Test Methods for Evaluating Solid Waste, SW-846 Method 6200. Although only certain metals (arsenic, barium, cadmium, iron, lead, and zinc) have been identified as preliminary constituents of potential concern (COPC) for the site, as a conservative approach each of the composite soil samples were analyzed for arsenic, barium, cadmium, chromium, cobalt, copper, iron, lead, manganese, mercury, nickel, selenium, silver, and zinc, hereinafter referred to as the XRF analytes. Other Target Analyte List (TAL) metals such as antimony, aluminum, beryllium, magnesium, thallium, and vanadium were not analyzed because XRF technology does not work effectively for these metals, and they are not preliminary COPCs.

Composite samples in plastic bags were placed under the x-ray window for 120 seconds, and the results of the XRF analytes were recorded electronically on a pocket personal computer (PPC). At the end of each day the PPC files were transferred to the field computer. Field data reports consisting of the sample results and comparisons to trigger levels (i.e., 1/5, 1/4, and/or 1/3 of the RALs) were printed at the end of each day and reviewed in the field.

A summary of the field XRF analyses of the composite samples completed is provided below:

Date	Composite Samples Analyzed
6/7/05	SS-01, COMPs 1 to 5, all intervals SS-02, COMPs 1 to 5, all intervals SS-03, COMPs 1 to 4, all intervals
6/8/05	SS-04, COMPs 1 and 2, all intervals
6/9/05	SS-04, COMPs 3 to 6, all intervals SS-05, COMPs 1 to 4, all intervals
6/10/05	SS-06, COMPs 1 to 5, all intervals SS-07, COMPs 1 to 5, all intervals
6/14/05	SS-08, COMPs 1 to 4, all intervals SS-09, COMPs 1 to 5, all intervals SS-10, COMPs 1 to 3, all intervals SS-10-09 and SS-10-10, all intervals (discrete garden samples)
6/15/05	SS-11, COMPs 1 to 3, all intervals SS-12, COMPs 1 to 3, all intervals SS-13, COMPs 1 to 3, all intervals

Date	Composite Samples Analyzed
6/16/05	SS-14, COMPs 1 to 4, all intervals SS-14-16 and SS-14-17, all intervals (discrete garden samples) SS-15, COMPs 1 to 4, all intervals SS-16, COMPs 1 to 5, all intervals SS-17, COMPs 1 and 2, all intervals

As a part of the field XRF analyses, quality assurance/quality control procedures (QA/QC) were also performed and included the following:

- Energy calibration check at least twice a day at the beginning and end of the XRF analyzer usage.
- Methods blank check using pure silicon dioxide every 20 samples.
- Equipment blank check using silica sand prepared using the same procedures as the composite samples every 20 samples.
- Standard check using the CLP standard every 20 samples.
- Precision checks (seven replicates) using previously analyzed samples once a day at the beginning of the XRF analyzer usage.

The QA/QC results are provided by day of XRF analysis and were used to review and qualify the XRF data as set forth in Appendix D.

2.7 Laboratory Analysis – Composite Samples

The daily field data reports were reviewed to select composite samples for laboratory analysis. Sample selection was based on comparison of XRF results to decision criteria as described below:

- Lead: If the XRF composite sample results are greater than the lead RAL, then submit for laboratory analysis of lead.
- Arsenic: If the XRF composite sample results or the detection limits are greater than the appropriate fraction of the arsenic RAL (i.e., 1/5, 1/4, or 1/3 depending on the number of subsamples in the composite), then submit for laboratory analysis of arsenic (this applies only to the first five off-site properties as documented in the field change requests in Appendix A).
- Metals other than arsenic/lead: If the XRF composite samples results are greater than the appropriate fraction of the applicable metal RALs (i.e. 1/5, 1/4, or 1/3 depending on the number of subsamples in the composite), then submit for laboratory analysis of the applicable metals.

In addition, for each off-site property, 20 percent of the composite samples selected for laboratory analysis as described above were submitted for analysis of the entire TAL. All samples were also analyzed for pH and moisture content. The sample selection rationale for submittal of the composite samples for laboratory analysis is provided in the field clarifications in

Appendix A. Additional sample selection criteria included: representation of a range of constituent concentrations based on the XRF results, consideration of QA/QC results, and consideration of the sample depths and spatial location. Sample selection summaries were provided to IEPA and E&E in the field. A summary by off-site property of samples submitted for laboratory analysis is provided below:

Off-site Property	Composite Total	Composite Samples Submitted for TAL Laboratory Analyses	Composite Samples Submitted for Specific Metals Laboratory Analyses
SS-01	20	4	10 – arsenic
SS-02	20	4	10 – arsenic
SS-03	16	3	10 – arsenic 1 – cadmium
SS-04	24	5	9 – arsenic
SS-05	16	3	5 – arsenic
SS-06	20	5	NA
SS-07	20	4	NA
SS-08	16	4	NA
SS-09	20	5	NA
SS-10	12	2	NA
SS-11	12	3	NA
SS-12	12	3	NA
SS-13	12	3	NA
SS-14	16	3	NA
SS-15	16	4	NA
SS-16	20	5	NA
SS-17	8	2	NA

Chain of custody forms and sample labels were generated electronically for the samples selected for laboratory analysis. Selected samples were removed from the field cooler, labeled, cushioned, and placed in a cooler with ice for transport to the laboratory. Coolers were transported via overnight delivery to Lancaster Laboratories in Lancaster, Pennsylvania (Lancaster).

Lancaster used the following analytical methods:

- TAL metals (except mercury): Test Methods for Evaluating Solid Waste SW-846, Method 3050B (digestion) and Method 6010B (analysis).
- Mercury: Test Methods for Evaluating Solid Waste SW-846, Method 7471A (digestion and analysis).
- pH: Test Methods for Evaluating Solid Waste SW-846, Method 9045C.
- Moisture content: Methods for Chemical Analysis of Water and Wastes USEPA 600/4-79-020, Method 160.3.

The laboratory analytical data were received as electronic data deliverables (EDDs), which were followed by complete Contract Laboratory Program (CLP)-type data packages approximately 4 to 6 weeks after sample delivery. A summary of the XRF data and the analytical laboratory data for the composite samples is provided in Table 2.

In addition to the sample analyses, the following field QA/QC samples were also submitted to Lancaster:

- Rinse blanks prepared by pouring laboratory-supplied analyte-free water over the decontaminated sampling equipment once a day.
- Duplicates every 20 samples.
- Matrix spikes/matrix spike duplicates every 20 samples.

Laboratory QA/QC procedures included initial and continuing calibration verifications, low level check standards, initial calibration blanks, continuing calibration blanks, preparation blanks, ICP interference check samples, post digest spike sample recoveries, laboratory control samples, and ICP serial dilutions. Field and laboratory QA/QC sample results are discussed and validated laboratory analytical data are provided in the laboratory data validation reports (Appendix E).

2.8 Field XRF Analysis – Discrete Samples

The daily field data reports were reviewed to select discrete samples for XRF analysis. Sample selection was based on the following guidelines:

- Lead: Because the USEPA (2003) lead guidance recommends use of composite samples, discrete samples were not evaluated.
- Arsenic: If the XRF and/or laboratory composite sample results or the detection limits are greater than the appropriate fraction of the arsenic RAL (i.e., 1/5, 1/4, or 1/3 depending on the number of discrete samples used to make up the composite), then analyze the discrete samples of that composite for arsenic by field XRF.
- Metals other than arsenic/lead: If the XRF and/or laboratory composite sample results are greater than the appropriate fraction of the RAL (i.e., 1/5, 1/4, or 1/3 depending on the number of samples in the composite), then analyze the discrete samples of that composite for the RAL-exceeding metals by field XRF.

Sample selection summaries were provided to IEPA and E&E in the field. An off-site property-specific summary of the discrete samples analyzed by field XRF is provided below:

Date	Off-site Property	Number of Discrete Samples Analyzed for Specific Metals by XRF
6/20/05 6/23/05	SS-01	63 – arsenic 5 – cadmium
6/20/05	SS-02	60 – arsenic

Date	Off-site Property	Number of Discrete Samples Analyzed for Specific Metals by XRF
6/23/05		4 – iron
6/21/05 6/23/05	SS-03	63 – arsenic 10 – cadmium
6/21/05	SS-04	58 – arsenic
6/21/05	SS-05	40 – arsenic
6/21/05 6/23/05	SS-06	66 – arsenic 5 – cadmium
6/21/05	SS-07	53 – arsenic
6/22/05 6/23/05	SS-08	51 – arsenic 15 – cadmium
6/22/05	SS-09	57 – arsenic
6/22/05	SS-10	28 – arsenic
6/22/05 6/23/05	SS-11	52 – arsenic 4 – cadmium
6/22/05 6/23/05	SS-12	28 – arsenic 5 – cadmium
6/22/05 6/23/05	SS-13	48 – arsenic 10 – mercury
6/23/05 6/23/05	SS-14	75 – arsenic 5 – cadmium
6/23/05 6/23/05	SS-15	53 – arsenic 5 – cadmium
6/23/05 6/23/05	SS-16	78 –arsenic 5 – mercury
6/23/05	SS-17	40 –arsenic

As discussed in Section 2.6, QA/QC procedures were also performed during the XRF analyses. The QA/QC results are provided by day of XRF analysis and were used to review and qualify the XRF data as set forth in Appendix D.

2.9 Laboratory Analysis – Discrete Samples

The daily field data reports were reviewed to select discrete samples for laboratory analysis. Sample selection was based on the following guidelines:

- Lead: No discrete samples were evaluated for reasons discussed previously.
- Arsenic: If the XRF discrete sample results are greater than the arsenic RAL, then submit for laboratory analysis of arsenic.
- Metals other than arsenic/lead: If the XRF discrete sample results are greater than RALs, then submit for laboratory analysis of the RAL-exceeding metals.

In addition, 20 percent of the discrete samples submitted for laboratory analysis were analyzed for the full TAL. All samples were also analyzed for pH and moisture content. The sample

selection rationale for submittal of the discrete samples for laboratory analysis is provided in the field clarifications in Appendix A.

An off-site property-specific summary of discrete samples submitted for laboratory analysis is provided below:

Off-site Property	Discrete Total	Discrete Samples Submitted for TAL Laboratory Analyses	Discrete Samples Submitted for Specific Metals Laboratory Analyses
SS-01	3	1	2 – arsenic
SS-02	NA	NA	NA
SS-03	2	0	2 – arsenic
SS-04	NA	NA	NA
SS-05*	5	4	1 – arsenic
SS-06	1	0	1 – arsenic
SS-07	NA	NA	NA
SS-08	1	0	1 – arsenic
SS-09	3	1	2 – arsenic
SS-10	1	1	NA
SS-11	3	0	3 – arsenic
SS-12	NA	NA	NA
SS-13	1	1	NA
SS-14	5	2	3 – arsenic
SS-15	2	0	2 – arsenic
SS-16	5	1	3 – arsenic 1 – mercury
SS-17	1	0	1 – arsenic

Note:

NA = not applicable

* Additional discrete samples were analyzed in the laboratory from SS-05-15 because XRF analyses were inadvertently not completed for this location.

Chain of custody forms and sample labels were generated electronically for the samples selected for laboratory analysis. Selected samples were removed from the field cooler, labeled, cushioned, and placed in a cooler with ice for transport to the laboratory. Coolers were transported via overnight delivery to Lancaster.

Laboratory analytical methods, field QA/QC samples, and laboratory QA/QC procedures are discussed in Section 2.7. A summary of the XRF data and the analytical laboratory data for the discrete samples is provided in Table 3. Field and laboratory QA/QC sample results are discussed and validated laboratory analytical data are provided in the data validation reports (Appendix E).

3 RAL Assessment Results

The section evaluates the results of the RAL Assessment with respect to the Assessment objectives. As set forth in Section 1.2, the specific objectives of the RAL Assessment include:

- Identify and sample locations where previous IDPH data suggests RALs may be exceeded;
- Conduct a correlation study to determine the feasibility of using XRF for measuring metals concentrations for comparison to the RALs and for future investigative activities; and
- Delineate the extent of RAL exceedances (if applicable).

The RAL Assessment results to meet these specific objectives are provided below.

3.1 Comparison with IDPH Data

The 17 off-site properties were selected by IEPA for RAL sampling and analysis based on the results of previous sampling by IDPH. For all 17 of these off-site properties, access was obtained, soil sampling was performed, and samples were analyzed using field XRF and analytical laboratory methods. Previous IDPH data suggested that concentrations of cadmium and lead were above RALs at the 17 off-site properties. During the RAL Assessment, as discussed in Section 2.3, attempts were made to include the previous IDPH sampling location as one of the 8 to 24 sampling locations on each off-site property to the extent feasible.

In contrast to the previous IDPH results, the 2005 RAL sampling identified no RAL exceedances for cadmium. The 2005 RAL sampling did identify RAL exceedances for lead, but these exceedances occurred only in drip zone samples. Per the *Superfund Lead-Contaminated Residential Sites Handbook* (USEPA, 2003), observation of lead solely in the drip zone samples indicates lead-containing exterior paint as a potential source of lead. Other sources of lead contamination may include site related emissions. The source of metal contamination in the off-site soils will be evaluated as part of the Off-Site RI. In addition, the 2005 RAL sampling identified RAL exceedances for arsenic; however, arsenic was not included in the IDPH sampling program. The 2005 arsenic observations appear to be isolated and may be related to background or other sources not related to the DePue Site (e.g., arsenical herbicides and pesticides potentially associated with historic agricultural land use). Table 4 presents a data summary of samples exceeding RALs. Lead and arsenic RAL exceedances are discussed in more detail in Section 3.4.

In summary, the IDPH data were not corroborated during the RAL Assessment. A comparative summary of the IDPH and RAL Assessment data are provided below.

IDPH Location Identification	Metals Above RALs in IDPH Samples	RAL Assessment Identification	Metals Above RALs in 2005 RAL Assessment Samples
W-11	Lead, cadmium	SS-01	Arsenic
S-11	Cadmium	SS-02	None
S-16	Lead	SS-03	Arsenic
E-06	Cadmium	SS-04	None
W-05	Cadmium	SS-05	Arsenic
D-19	Lead	SS-06	None
W-02	Cadmium	SS-07	None
D-11	Lead	SS-08	None
S-13	Cadmium	SS-09	None
S-21	Lead	SS-10	None
D-16	Lead	SS-11	Arsenic
S-19	Cadmium	SS-12	None
S-02	Cadmium	SS-13	Lead (Drip zone)
W-14	Lead	SS-14	Lead (Drip zone)
S-18	Cadmium	SS-15	Lead (Drip zone)
S-12	Cadmium	SS-16	Lead (Drip zone)
W-06	Lead	SS-17	Arsenic

In only one location, OU4-SS-17-10, was a 2005 RAL exceedance found near the 1992 IDPH sampling location (as determined to the extent possible based on the IDPH-prepared sketches and measurements). However, the 1992 IDPH sample was a surficial sample with a lead concentration above the RAL while the 2005 sample was a 12 -18 inch interval sample with an arsenic concentration above the RAL.

A comparison of the cadmium and lead concentrations between the 1992 IDPH data and the 2005 RAL data is provided below:

Location	1992 IDPH Result (ppm)	2005 XRF Result * (ppm)	2005 Lab Result (ppm)	RAL Sample Used for Comparison
SS-01	Lead = 2059 Cadmium = 392	Lead = 646 Cadmium = 65	Lead = 612 Cadmium = 35	COMP1(0-1)
SS-02	Cadmium = 630	Cadmium = 34	NA	COMP4 (0-1)
SS-03	Lead = 1315	Lead = 285	NA	COMP2 (0-1)
SS-04	Cadmium = 420	Cadmium = 39	NA	COMP1 (0-1)
SS-05	Cadmium = 1506	Cadmium = 35	NA	COMP3(0-1)
SS-06	Lead = 7355	Lead = 174	NA	COMP4(0-1)
SS-07	Cadmium = 473	Cadmium = 67	NA	COMP3(0-1)
SS-08	Lead = 1521	Lead = 338	Lead = 285	COMP2(0-1)

Location	1992 IDPH Result (ppm)	2005 XRF Result * (ppm)	2005 Lab Result (ppm)	RAL Sample Used for Comparison
SS-09	Cadmium = 1340	Cadmium = 51	NA	COMP3(0-1)
SS-10	Lead = 1661	Lead = 560	NA	COMP2(0-1)
SS-11	Lead = 1695	Lead = 365	Lead = 346	COMP2(0-1)
SS-12	Cadmium = 808	Cadmium = 37	NA	COMP2(0-1)
SS-13	Cadmium = 9100	Cadmium = 47	NA	COMP2(0-1)
SS-14	Lead = 1354	Lead = 574	Lead = 434	COMP3(0-1)
SS-15	Cadmium = 520	Cadmium = 83	Cadmium = 53	COMP2(0-1)
SS-16	Cadmium= = 8000	Cadmium = 40	NA	COMP4(0-1)
SS-17	Lead = 1250	Lead = 296	NA	COMP2(0-1)

* Data qualifiers not provided. Values rounded to the nearest whole number.

3.2 XRF Data Usability

Another objective of the RAL assessment sampling was to evaluate the usability of XRF analyses for measuring RAL exceedances and for future investigative activities. Comparison of the XRF and laboratory analytical data was conducted three ways: precision evaluation, linear regression analyses, and false negative rate calculations. Data correlation criteria presented in the table below are provided in the USEPA document *"Environmental Technology Verification Report EPA/600/R-97/150"*.

Data Quality Level	Acceptable Data Correlation
Screening Data (Qualitative)	R^2 = less than 0.70. The precision is greater than 20 percent. The data must have less than a 10 percent false negative rate.
Screening Data with Definitive Confirmation (Quantitative)	R^2 = 0.70 to 1.0. The precision must be less than 20 percent, but the inferential statistics indicate that the data sets are statistically different.
Data Quality Level	**Acceptable Data Correlation**
Definitive Data (Definitive)	R^2 = 0.85 to 1.0. The precision must be less than or equal to 10 percent and the inferential statistics must indicate that the two data sets are statistically similar.

Note:

R^2 = Correlation coefficient

The Environmental Technology Verification (ETV) (USEPA, 1998) guidance document defines qualitative and quantitative screening data as:

> *Qualitative Screening Data:* Qualitative screening level data indicates the presence or absence of contaminants in a sample matrix, but does not provide reliable concentration estimates.
>
> *Quantitative Screening Data:* Quantitative screening data provide confirmed analyte identification and quantification, although the quantification may be relatively imprecise.

To determine the precision of the XRF method, one sample per day was analyzed seven times in replicate. The precision of the XRF method was then evaluated using the relative standard deviation (RSD) of the sample arithmetic mean. The sample replicate results and calculations for determining the RSDs are provided in Appendix D and a summary of RSDs is provided in Table 5. In total, one CLP standard and seven composite samples were analyzed for the XRF analytes, and three discrete samples were analyzed for arsenic to evaluate the precision of the XRF method. For instances when a replicate was analyzed as non-detect, the full detection limit was used in the precision evaluation. The RSD is limited in application when analytes are present at levels near the sample detection limit with some replicate results reported as non-detect.

The results of the precision evaluation of the XRF method are provided in Table 5 and the calculation summaries are provided in Appendix D. The average RSD for the XRF analytes in the composite samples ranged from 1.94 (silver) to 19.14 (arsenic) percent. The results of chromium, cobalt, nickel, selenium, and silver are biased low due to the high percentage of non-detects observed in the composite replicate analyses for these metals. Mercury results exhibit the same bias, except for one composite sample (OU4-SS-11-COMP3 (12-18)) where concentrations were detected at levels higher than the sample detection limit. Based upon this bias, the RSDs for chromium, cobalt, nickel, mercury, selenium, and silver were not used any further in this data usability evaluation. The average and range of RSDs for copper, iron, lead, and zinc meet the requirements for definitive data. The remaining XRF analytes (arsenic, barium, cadmium, and manganese), have average RSDs below 20 percent, which meet the requirement for quantitative screening data.

The linear regression analysis of the paired XRF and laboratory data was performed using a standard linear least squares method. As specified in USEPA Method 6200 (USEPA, 1998), the data were log-transformed to standardize variance which is proportional to the magnitude of measurement. The paired log-transformed data for each metal are plotted on a linear scale and a linear regression line is fitted to the data (Appendix F). The correlation coefficient (R^2) is a measurement of the proportion of observed variance in y (XRF) that can be explained by x (laboratory). A summary of the linear regression analysis is presented in Tables 6a and Table 6b. The R^2 results for chromium, cobalt, and nickel are based on a limited sample size (i.e. less than 10 matched pairs) due to the high percentage of non-detects observed in the paired XRF and laboratory analyses for these metals. Further, R^2 values could not be calculated for selenium and silver because there are no matched pairs with both XRF and laboratory values above the detection limits. Based upon the limited sample sizes, the R^2 results for chromium, cobalt, nickel, selenium, and silver were not used any further in this data usability evaluation.

The dry weight results of the linear regression analysis (Table 6a) indicate: barium and zinc results are correlated at R^2 values at or greater than 0.85 and meet the requirements for definitive data. Lead and mercury results are correlated at R^2 values greater than 0.7 and meet the requirements for quantitative screening data. Arsenic, cadmium, copper, and manganese R^2 values are just below the 0.7 R^2 requirement at 0.60, 0.60, 0.68, and 0.6994 respectively. If rounded upward, the copper R^2 value and manganese R^2 value would meet the 0.7 R^2 requirement for quantitative screening data. The iron R^2 value is further below the 0.7 R^2 requirement at 0.52.

The wet weight results of the linear regression analysis (Table 6b) indicate: barium and zinc results are correlated at R^2 values at or greater than 0.85 and meet the requirements for definitive data. The lead, results correlated at R^2 values greater than 0.7 and meet the requirements for quantitative screening data. Arsenic, copper, manganese, and mercury R^2 values are just below the 0.7 R^2 requirement at 0.61, 0.65, 0.65, and 0.69, respectively. If rounded upward, the copper, manganese, and mercury R^2 values would meet the 0.7 R^2 requirement for quantitative screening data. The cadmium and iron R^2 values are further below the 0.7 R^2 requirement at 0.58 and 0.47.

For the two metals with R^2 values greater than 0.85 (barium and zinc), the paired XRF and laboratory data were further tested using the Wilcoxon signed rank test and the paired t-test to determine if the data sets are statistically similar (Table 7). The results (both wet and dry weight) indicate that barium and zinc are not statistically similar; and therefore, do not meet the requirements for definitive data.

The rate of false negatives must be considered in evaluating whether XRF results can be considered qualitative (false negative rates must be less than 10% for qualitative data). For purposes of this discussion, a false negative is defined as a XRF result which under-predicts the corresponding laboratory analysis result. The number of false negatives observed for each paired (XRF and laboratory) analyses divided by the total number of paired samples gives the false negative rate. The false negative rates for chromium, cobalt, and nickel are based on a limited sample size (i.e. less than 10 matched pairs) due to the high percentage of non-detects observed in the paired XRF and laboratory analyses for these metals. False negative rates could not be calculated for selenium and silver because there are no matched pairs with both XRF and laboratory values above the detection limits. Based upon the limited sample sizes, the false negative rates for chromium, cobalt, nickel, selenium, and silver were not used any further in this data usability evaluation. False negative rates less than 10% were observed for arsenic, cadmium, iron, mercury, and zinc (Table 8). The false negative rate for lead was slightly above 10% at 14 %. False negative rates greater than 10% were observed for barium, copper, and manganese.

Based on the collective Environmental Technology Verification (ETV) (USEPA, 1998) criteria (R^2 values, inferential statistics which are applicable when R^2 values are greater than 0.85, RSDs, and false negative rates), the XRF data for barium, lead and zinc are considered quantitative screening data. In addition, the dry weight XRF data for mercury are quantitative data and the wet weight XRF data are qualitative. However, if the R^2 value for wet weight mercury is rounded, then the XRF data could be considered quantitative on both a dry and wet weight basis. Arsenic, cadmium copper and manganese XRF data are just below qualifying as quantitative data due to R^2 values ranging from 0.58 and 0.6994. Therefore, XRF data for these metals are considered qualitative data except for copper and manganese which have a false negative rate greater than 10 percent. However, if the R^2 values for copper and manganese are rounded, then the XRF data for both metals could be considered as quantitative data. The remaining metal XRF results are qualitative data or the data usability could not be determined from this assessment. With all data comparisons viewed collectively, the XRF method operated most effectively for barium, lead, and zinc, followed by mercury, arsenic, cadmium, manganese

and copper. However, the applicability of the XRF to various aspects of the project will be reviewed as additional data are collected. A summary of the data usability is provided below.

Summary of Data Usability based on statistical analysis of XRF data

Analyte	%RSD	R^2 (dry/wet)	Inferential Statistics[a]	Percent False Negatives	Data Usability (dry/wet)
Arsenic	19.1	0.60/0.61	Not applicable	4	Qualitative/Qualitative
Barium	10.7	0.87/0.85	Different (p<0.001)	90	**Quantitative/Quantitative**
Cadmium	14.9	0.60/0.58	Not applicable	0	Qualitative/Qualitative
Copper	9.7	0.68/0.65	Not applicable	56	None; **Quantitative (if R^2 rounded)**/ None; **Quantitative (if R^2rounded)**
Iron	2.5	0.52/0.47	Not Evaluated	4	Qualitative/Qualitative
Lead	5.9	0.81/0.82	Not applicable	14	**Quantitative/Quantitative**
Manganese	10.2	0.70/0.65	Not Evaluated	50	None; **Quantitative (if R^2 rounded)**/ None; **Quantitative (if R^2rounded)**
Mercury	5.0	0.71/0.69	Not Evaluated	0	**Quantitative/** Qualitative; **Quantitative (if R^2 rounded)**
Zinc	4.3	0.94/0.94	Different (p<0.001)	3	**Quantitative/Quantitative**

[a] Hypothesis Test - *p-value ≤ 0.05 = different; p-value > 0.05 = similar*

[b] *Two sample paired t-test (parametric)*

3.3 Supplemental Statistical Data Analyses

Based upon the data usability results for arsenic, cadmium, and lead, the IEPA requested supplemental soil sampling and laboratory analysis for select samples where the XRF results were lower than but near their respective RALs. The approach agreed to by the IEPA and the DePue Group to determine what specific XRF levels would require laboratory confirmation analysis involved calculating an XRF screening level from the linear regression analyses of the XRF data (wet weight) and the laboratory data. The XRF screening level is the concentration estimated by XRF for which the corresponding concentrations determined by laboratory analysis will not exceed the RAL with at least 95% confidence. In this approach, the 95% upper prediction interval on the log-log linear regression was used to establish the XRF screening levels. As set forth in the supplemental statistical analysis (Appendix F), the XRF screening levels for arsenic (40.9), barium (11,070), cadmium (194 mg/kg), copper (89,600), lead (693 mg/kg) and zinc (186,000) were calculated. Comparing the screening values to the XRF data set not previously confirmed by laboratory analysis, it was determined that six additional samples would require laboratory confirmation in order for IEPA to state with at least 95% confidence that these six specific locations did not exceed the RALs for these analytes. As agreed to in the April 13, 2010 IEPA approval letter, the following sample locations will be re-sampled and analyzed for select parameters as indicated in the table below during the Off-site Soils RI:

Location ID	Sample ID	Analyte	Residential RAL	Analyte/XRF Result (wet wgt. ppm) (May/June 2005)
W-11	OU4-SS-01-09 (1-6)	Arsenic	43	42.8
S-11	OU4-SS-02-03(1-6)	Arsenic	43	42.6
S-16	OU4-SS-03-05 (0-1)	Cadmium	390	228
D-11	OU4-SS-08-12 (1-6)	Cadmium	390	235
D-11	OU4-SS-08-14 (0-1)	Cadmium	390	202
W-14	OU4-SS-14-COMP4 (1-6)	Lead	1,200	1,080

As discussed with IEPA, one drip zone composite sample (OU4-SS-14-COMP4 (1-6)) exceeded the lead XRF screening value; however, this sample was collected in the interval below sample OU4-SS-14-COMP4 (0-1) which was analyzed by both XRF and laboratory methods and was confirmed to exceed the RAL. As such, resampling the composite samples beneath this sample was not necessary. Lead exceedances are discussed further in Section 3.4.

3.4 Extent of RAL Exceedances

As discussed in Section 3.1, there were four off-site properties where lead concentrations exceeded the lead RAL of 1,200 mg/kg and five off-site properties where arsenic concentrations exceeded the arsenic RAL of 43 mg/kg. In addition, for samples that were analyzed by XRF, but not confirmed by laboratory analysis, concentrations were compared to the XRF RAL screening levels developed in Section 3.3.

The extent of the RAL and XRF RAL screening level exceedances is described below:

Lead

The following drip zone composite samples from off-site properties SS-13 through SS-16 contained lead concentrations in laboratory analytical samples above the lead RAL of 1,200 mg/kg or XRF RAL screening level of 693 mg/kg as follows:

Sample Identification	Composite Lead Concentration (mg/kg)
OU4-SS-13-COMP3(0-1)	1,890
OU4-SS-14-COMP4(0-1)	1,670
OU4-SS-14-COMP4(1-6)	1,080
OU4-SS-15-COMP4(0-1)	1,350
OU4-SS-16-COMP5(0-1)	2,420

Off-site property SS-13 contains a one-story wood frame house constructed in 1856 with vinyl siding. Sample OU4-SS-13-COMP3 (0-1) represents a composite of drip zone samples that were obtained near three down spouts and in the drip zone at the back of the house near a wood porch (Figure 3).

Off-site property SS-14 contains a two-story wood frame house constructed in 1906 with aluminum siding. Sample OU4-SS-14-COMP4 (0-1) and OU4-SS-14-COMP4(1-6) represents a

composite of drip zone samples that were obtained near three down spouts and in the drip zone at the south side of the house.

Off-site property SS-15 contains a two-story painted wood-frame house (construction date not available) with shingle siding (Figure 4) Sample OU4-SS-15-COMP4 (0-1) represents a composite of drip zone samples that were obtained in the drip zones in the front and sides of the house and possibly near former downspout locations (Figure 5). Visibly peeling paint was noted on the foundation and wood trim.

Off-site property SS-16 contains a two-story painted wood-frame house constructed in 1866 with wood siding. Sample OU4-SS-16-COMP5 (0-1) represents drip zone samples that were obtained near the front (near a wood porch) and west sides of the house (Figure 6). Visibly peeling paint was noted on the front wood porch.

The median year of construction for the houses in DePue is 1939 (IDPH/ATSDR, 1999). As such, most houses in the Village of DePue, including those at off-site properties SS-13 through SS-16, were constructed prior to 1978 when lead-based paints were potentially used in the interior and exterior of these houses (USEPA). Although the houses at two of these off-site properties were subsequently re-sided with vinyl and aluminum siding, visibly peeling paint was observed on the houses of the other two off-site properties. These observations are consistent with IDPH's observations of old paint that potentially contributed to the one elevated blood lead level of a DePue child. The exterior of the child's home had been scraped and painted, and visible paint chips were evident around the foundation of the home (IDPH/ATSDR, 1999). The *Superfund Lead-Contaminated Residential Sites Handbook* (USEPA, 2003) indicates that if the only portion of the yard that exceeds the RAL is the drip zone, then a potential source is lead-based paint. Further evaluation of sources of metal contamination in off-site soils will be conducted as part of the Off-site Soil Remedial Investigation.

Arsenic

The following discrete samples from off-site properties SS-01, SS-02, SS-03, SS-05, SS-11, and SS-17 contained arsenic concentrations in laboratory analytical samples above the arsenic RAL of 43 mg/kg or XRF RAL screening level of 40.9 mg/kg (which were not re-tested by the laboratory) as follows:

Sample Identification	Location	Discrete Arsenic Concentration (mg/kg)
OU4-SS-01-09(1-6)	Backyard	42.8
OU4-SS-01-11(6-12)	Backyard	50.8
OU4-SS-02-03(1-6)	Front yard	42.6
OU4-SS-03-13(12-18)	Backyard	43.3
OU4-SS-05-09(1-6) and OU4-SS-05-09(6-12)	Backyard	111 and 55.7
OU4-SS-11-12(12-18)	Drip zone/backyard	43.7
OU4-SS-17-10(12-18)	Backyard	78.5

Sample OU4-SS-01-09(1-6) from off-site property SS-01 was obtained in the backyard between the house and the shed (Figure 7). This sample was described as a brown fine to medium sand with some silt and trace roots. Railroad ties are present around the garage and potential pest/vegetation control substance was noted near the house foundation. The arsenic concentrations analyzed by XRF at OU4-SS-01-09(0-1)) were less than the XRF RAL screening level. Sampling locations OU4-SS-01-08 and OU4-SS-01-10 surround sample location OU4-SS-01-09. At these surrounding locations, arsenic concentrations analyzed by XRF in 4 samples were all less than the arsenic XRF RAL screening level except for the 1- to 6-inch interval from sample OU4-SS-01-08. This sample (i.e., OU4-SS-01-08 (1-6)) was submitted for laboratory analysis, and the laboratory based arsenic value was 38.7. Sample OU4-SS-01-11(6-12) was obtained in the backyard between the house and the garage (Figure 7). This sample was described as a brown fine to medium sand with some silt and trace roots, grass, and gravel. Railroad ties are present around the garage and potential pest/vegetation control substance was noted near the house foundation. The arsenic concentrations analyzed by XRF at the same location (i.e., OU4-SS-01-11) were less than the XRF RAL screening level in the 0- to 1-inch interval, in the 1- to 6-inch interval, in the 12- to 18-inch interval. Sampling locations OU4-SS-01-7, OU4-SS-01-12, OU4-SS-01-13, and OU4-SS-01-16 surround sample location OU4-SS-01-11. At these surrounding locations, arsenic concentrations analyzed by XRF in 14 samples were all less than the arsenic XRF RAL screening level except for the 12- to 18-inch interval from sample OU4-SS-01-16. This sample (i.e., OU4-SS-01-16 (12-18)) was submitted for laboratory analysis, and the laboratory based arsenic value was 40.4 mg/kg and 35 mg/kg in the duplicate sample. Overall, 63 discrete samples were analyzed for arsenic via XRF at off-site property SS-01. Only 4 of the 63 discrete samples contained arsenic above the XRF RAL screening level; three of these samples were submitted for laboratory analysis. However, as described above only one sample was confirmed to exceed the RAL. In addition, one sample exceeded the XRF RAL screening level and has not been confirmed by laboratory analysis. As discussed in Section 3.3, this location will be re-sampled and submitted to a laboratory for analysis In conclusion, the confirmed occurrence of arsenic above the RAL is isolated to one location at a depth of 6 to 12 inches. No further assessment to define the extent of arsenic above the RAL at or near this off-site property is required, except for the re-sampling discussed above.

Sample OU4-SS-02-03(1-6) from off-site property SS-02 was obtained along the sidewalk in the front yard (Figure 8). This sample was described as a brown and gray fine to course sand and silt with trace roots. The arsenic concentrations analyzed by XRF at the same location (i.e., OU4-SS-02-03) were less than the XRF RAL screening level in the other intervals. Sampling locations OU4-SS-02-02 and OU4-SS-02-04 surround sample location OU4-SS-02-03. At these surrounding locations, arsenic concentrations analyzed via XRF in 4 samples were less than the arsenic XRF RAL screening level. Overall, 60 discrete samples were analyzed for arsenic via XRF at off-site property SS-02. Only 1 of the 60 discrete samples contained arsenic above the XRF RAL screening level. As discussed in Section 3.3, this location will be re-sampled and submitted to a laboratory for analysis In conclusion, there are no confirmed occurrences of arsenic above the RAL and one potential exceedance is isolated to one location at a depth from 1 to 6 inches. No further assessment to define the extent of arsenic above the RAL at or near this off-site property is required, except for the re-sampling discussed above.

Sample OU4-SS-03-13(12-18) from off-site property SS-03 was obtained along the fence adjacent to the alley (Figure 9). This sample was described as a dark brown silt and fine sand with trace slag and fine gravel. The arsenic concentrations analyzed by XRF at the same location (i.e., OU4-SS-03-13) were less than the XRF RAL screening level in the 0- to 1-inch interval, in the 1- to 6-inch interval, and in the 6- to 12-inch interval. Sampling locations OU4-SS-03-11, OU4-SS-03-12, and OU4-SS-03-14 surround sample location OU4-SS-03-13, except to the north adjacent to the alley. At these surrounding locations, arsenic concentrations analyzed via XRF in 12 samples were less than the arsenic XRF RAL screening level. Overall, 63 discrete samples were analyzed for arsenic via XRF at off-site property SS-03. Only 2 of the 63 discrete samples contained arsenic above the RAL; these samples were submitted for laboratory analysis. However, as described above, only one sample was confirmed to exceed the RAL. In conclusion, the occurrence of arsenic above the RAL is isolated to one location at a depth from 12 to 18 inches. A focused assessment to define the extent of arsenic above the RAL between this off-site property and the alley behind this property is discussed in Section 4.

Samples SS-05-09(1-6) and OU4-SS-05-09(6-12) from off-site property SS-05 were obtained in the backyard near the side entrance to the house (Figure 10). The sample from the 1 to 6 inch interval was described as a dark brown/black fine sand, organics, and woody debris. The sample from the 6 to 12 inch interval was described as a dark brown fine sand with some gravel and trace roots. The arsenic concentrations analyzed via XRF at the same location (i.e., OU4-SS-05-09) were less than the XRF RAL screening level in the 0- to 1-inch interval. Sampling locations OU4-SS-05-07, OU4-SS-05-08, OU4-SS-05-11, and OU4-SS-05-13 surround sample location OU4-SS-05-09. At these surrounding locations, arsenic concentrations analyzed via XRF in 10 samples were less than the arsenic XRF RAL screening level. Overall, 40 discrete samples were analyzed for arsenic via XRF at off-site property SS-05. Only 2 of the 40 discrete samples contained arsenic above the XRF RAL screening level, and both samples were confirmed by the laboratory to exceed the RAL. In conclusion, the occurrence of arsenic above the RAL is isolated to one location. No further assessment to define the extent of arsenic above the RAL at or near this off-site property is required.

Sample OU4-SS-11-12(12-18) from off-site property SS-11 was obtained along the western side of the house adjacent to the alley (Figure 11). This sample was described as a dark brown silt with little fine sand and trace roots and brick. The arsenic concentrations analyzed via XRF at the same location (i.e., OU4-SS-11-12) were less than the XRF RAL screening level in the 0- to 1-inch interval, in the 1- to 6-inch interval, and in the 6- to 12-inch interval. Sampling locations OU4-SS-11-01, OU4-SS-11-06, and OU4-SS-11-07 surround sample location OU4-SS-11-12, except to the west adjacent to the alley. At these surrounding locations, arsenic concentrations analyzed via XRF in 12 samples were less than the arsenic XRF RAL screening level except for the 12 to 18-inch interval from sample OU4-SS-11-01. This sample was submitted for laboratory analysis, and the laboratory based arsenic value was 17 mg/kg. Overall, 52 discrete samples were analyzed for arsenic via XRF at off-site property SS-11, and only 2 of the 52 discrete samples contained arsenic above the XRF RAL screening level. These two samples were submitted for laboratory analysis, and only one sample was confirmed to exceed the RAL. In conclusion, the occurrence of arsenic above the RAL is isolated to one location at a depth from 12 to 18 inches. A focused assessment to define the extent of arsenic above the RAL between this off-site property and the alley behind this property is discussed in Section 4.

Sample OU4-SS-17-10(12-18) from off-site property SS-17 was obtained along the western side of the property (a vacant lot) adjacent to the alley (Figure 12). This sample was described as brown/black silt with some fine sand and trace black fines and fine gravel. The arsenic concentrations analyzed via XRF at the same location (i.e., OU4-SS-17-10) were less than the XRF RAL screening level in the 0- to 1-inch interval, in the 1- to 6-inch interval, and in the 6- to 12-inch interval. Sampling locations OU4-SS-17-06, OU4-SS-17-08, and OU4-SS-11-09 surround sample location OU4-SS-17-10, except to the east adjacent to the alley. At these surrounding locations, arsenic concentrations analyzed via XRF in 12 samples were less than the arsenic XRF RAL screening level. Overall, 40 discrete samples were analyzed for arsenic via XRF at off-site property SS-17. Only 1 of the 40 discrete samples contained arsenic above the XRF RAL screening level; this sample was submitted for laboratory analysis and was confirmed to exceed the RAL. In conclusion, the occurrence of arsenic above the RAL is isolated to one location at a depth from 12 to 18 inches. A focused assessment to define the extent of arsenic above the RAL between this off-site property and the alley behind this property is discussed in Section 4.

In summary, the samples containing arsenic concentrations above the RAL are isolated to one to two occurrences at five off-site properties, are deeper than 12 inches at three locations, and do not appear to be associated with a particular soil type or fill type observation. In addition, two additional properties have an isolated occurrence of arsenic that potentially exceeds the RAL. With respect to fill, some soils with no observed fill had arsenic concentrations above the RAL, and some soils with observed fill (e.g., trace slag and black fines) had arsenic concentrations less than the RAL.

Cadmium

No laboratory samples contained cadmium concentrations above the cadmium RAL of 390 mg/kg. The following discrete samples from off-site properties SS-03 and SS-08 contained cadmium concentrations in XRF samples above the XRF RAL screening level of 194 mg/kg as follows:

Sample Identification	Location	Discrete Cadmium Concentration (mg/kg)
OU4-SS-03-05(0-1)	Side yard	228
OU4-SS-08-12(1-6)	Backyard	235
OU4-SS-08-14(0-1)	Backyard	202

Sample OU4-SS-03-05(0-1) from off-site property SS-03 was obtained along the sidewalk adjacent to the East Third Street (Figure 13). This sample was described as dark brown silt with trace organics and roots. The cadmium concentrations analyzed by XRF at the same location (i.e., OU4-SS-03-05) were less than the XRF RAL screening level in the other intervals. Sampling locations OU4-SS-03-03 and OU4-SS-03-06 surround sample location OU4-SS-03-05, except to the south along East Third Street and to the adjacent property to the west. At these surrounding locations, cadmium concentrations analyzed via XRF in 4 samples were less than the cadmium XRF RAL screening level. Overall, 10 discrete samples were analyzed for cadmium via XRF at off-site property SS-03. Only 1 of the 10 discrete samples contained

cadmium above the XRF RAL screening level. As discussed in Section 3.3, this location will be re-sampled and submitted to a laboratory for analysis In conclusion, there are no confirmed occurrences of cadmium above the RAL and one potential exceedance is isolated to one location at a depth from 0 to 1 inches. No further assessment to define the extent of cadmium above the RAL at or near this off-site property is required, except for the re-sampling discussed above.

Samples OU4-SS-08-12(1-6) and OU4-SS-08-14(0-1) from off-site property SS-08 were obtained from the backyard (Figure 14). Sample OU4-SS-08-12(1-6) was described as dark brown silt with some fine sand and trace roots, brick coal and fine gravel and sample OU4-SS-08-14(0-1) was described as gray, brown and black silt with trace fine sand, roots and fine gravel. The cadmium concentrations analyzed by XRF at the same locations (i.e., OU4-SS-08-12 and OU4-SS-08-14) were less than the XRF RAL screening level in the other sampled intervals. Sampling locations OU4-SS-08-11, OU4-SS-08-13 and OU4-SS-08-15 surround sample location OU4-SS-08-12, except to the adjacent property to the northeast and the FPSA to the southeast. Sampling OU4-SS-08-07, OU4-SS-08-08, OU4-SS-08-13 and OU4-SS-08-15 surround sample location OU4-SS-08-14, except to the adjacent property to the south. At these surrounding locations, cadmium concentrations analyzed via XRF in 4 samples were less than the cadmium XRF RAL screening level. Overall, 15 discrete samples were analyzed for cadmium via XRF at off-site property SS-03. Only 2 of the 15 discrete samples contained cadmium above the XRF RAL screening level. As discussed in Section 3.3, these locations will be re-sampled and submitted to a laboratory for analysis In conclusion, there are no confirmed occurrences of cadmium above the RAL and two potential exceedances are isolated to two locations at a depth from 0 to 1 inches and 1 to 6 inches. No further assessment to define the extent of cadmium above the RAL at or near this off-site property is required, except for the re-sampling discussed above.

In summary, no samples containing confirmed cadmium concentrations above the RAL are present at the 17 off-site properties. Two properties have isolated occurrences of cadmium that potentially exceeds the RAL.

4 Summary/Recommendations

4.1 RAL Assessment Summary

The RAL Assessment results were used to evaluate the presence of metals at concentrations above RALs, to delineate the extent of metals above the RALs, to evaluate the use of XRF to analyze metals, and to recommend focused follow-up assessment activities with regard to the 17 off-site properties.

Four drip zone composite samples from off-site properties SS-13 through SS-16 contained lead concentrations in laboratory analytical samples above the lead RAL of 1,200: OU4-SS-13-COMP3 (0-1), OU4-SS-14-COMP4 (0-1), OU4-SS-15-COMP4 (0-1), and OU4-SS-16-COMP5 (0-1). These isolated concentrations only in the drip zone samples indicate that lead-based paints are the likely lead sources. To evaluate the source of lead in the drip zone, the DePue Group in conjunction with the IEPA and the appropriate health agencies will evaluate the presence of lead-based paint on structures or within soils in the drip zone.

Six discrete samples from five off-site properties SS-01, SS-03, SS-05, SS-11, and SS-17 contained arsenic concentrations in laboratory analytical samples above the arsenic RAL of 43 mg/kg: OU4-SS-01-11(6-12), OU4-SS-03-13(12-18), OU4-SS-05-09(1-6), OU4-SS-05-09(6-12), OU4-SS-11-12(12-18), and OU4-SS-17-10(12-18). The arsenic detected at these off-site properties appears to be isolated. Furthermore, none of the arsenic detections were greater than the non-carcinogenic arsenic RAL of 230 mg/kg. At off-site properties SS-01 and SS-05, the 1 to 2 detections of arsenic above the RAL are surrounded by numerous detections (i.e., 62 to 39 at SS-01 and SS-05, respectively) below the RAL. As such, no further sampling is necessary on these two off-site properties to delineate the extent of RAL exceedances.

At off-site properties SS-03, SS-11, and SS-17, the one detection of arsenic above the RAL is accompanied by several samples (i.e., 62, 51, and 39 samples at SS-03, SS-11, and SS-17, respectively) with arsenic levels less than the RAL. Furthermore, the one sample concentration above the RAL is at depths below 1 foot (i.e., in the 12- to 18-inch interval) at these three off-site property locations. Regardless, because the single exceedance is not bounded on all sides by non-RAL-exceeding sample concentrations, some focused additional characterization is recommended below as part of the Off-Site Soils RI to fully delineate the extent of the RAL exceedance on each of these three off-site properties.

As documented in this report, only arsenic and lead were detected at concentrations above their respective RALs and only cadmium approaches (but does not exceed) it's respective RAL (Table 4). The remaining XRF metals (barium, chromium, cobalt, copper, iron, manganese, nickel, selenium, silver, and zinc) were detected at concentrations well below (1 to 2 orders of magnitude) their respective RALs. Mercury was also detected at concentrations well below (1 to 2 orders of magnitude) it's RAL by laboratory analysis, but not by XRF analysis which over-predicts mercury concentrations. For the three metals that exceed or approach their respective RALs, the results of these data evaluations indicate that the XRF data can be used as quantitative data for lead and qualitative data for arsenic and cadmium.

4.2 RAL Assessment Recommendations

Based on the RAL Assessment, the following focused follow-up assessment activities are recommended:

To further evaluate the extent of arsenic at off-site properties SS-03, SS-11, and SS-17, one additional sampling location will be added adjacent to the locations where the arsenic concentrations were above RALs along the alleys to confirm that the arsenic is isolated and not associated with potentially site-related fill material in the adjacent alleys during the Off-site Soils RI.

In addition, to confirm that that XRF results that were lower than, but near their respective RALs, are indeed below the RAL limits, 6 sample locations will be re-analyzed as discussed in Section 3.3 during the Off-site Soils RI.

The RAL Assessment Work Plan (BBL, 2005) described additional sampling of all properties (up to 8) adjacent to each of the 17 off-site properties that are found to have a RAL exceedance. However, because all of the observed RAL exceedances are isolated (e.g., lead only in drip zone samples) and have been or will be (after the execution of the Off-site Soils RI) completely delineated (i.e., sample with RAL exceedance will be surrounded on all sides with samples not exceeding RALs), the adjacent property sampling envisioned in the RAL Assessment Work Plan is not necessary.

In addition, the RAL Assessment demonstrated that field XRF can be used for quantitative screening (barium, lead, and zinc; as well as mercury (dry weight)) and for qualitative screening (arsenic, cadmium, and iron; as well as mercury (wet weight)). The applicability of field XRF for future investigations will be evaluated based on the data quality objectives of those investigations and the RAL Assessment field XRF results and evaluation.

5 References

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TABLES

TABLES

Tables

TABLE 1

Summary of Sample Locations and Specified Analysis

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois

RAL Identification	IDPH Identification	Approximate Property Size (Area Square Feet)	Sampling Plan
SS-01	W-11	8,500	COMP 1: Front/side yard: 5-point composite (01-05) COMP 2: Backyard: 5-point composite (06-10) COMP 3: Backyard/side yard: 5 point composite (11-15) COMP 4: Front/side yard: 5 point composite (16-20) COMP 5: Drip zone: 4 point composite (21-24)
SS-02	S-11	6,675	COMP 1: Front yard: 4-point composite (01-04) COMP 2: Backyard/side by house: 5-point composite (05-09) COMP 3: Backyard: 5-point composite (10-14) COMP 4: Backyard by alley: 5-point composite (15-19) COMP 5: Drip zone: 4-point composite (20-23)
SS-03	S-16	5,500	COMP 1: Front yard: 5-point composite (01-05) COMP 2: Side yard: 5-point composite (06-10) COMP 3: Backyard: 5-point composite (11-15) COMP 4: Drip zone: 4-point composite (16-19)
SS-04	E-06	12,500	COMP 1: Right-side front yard: 5-point composite (01-05) COMP 2: Left-side front yard: 5-point composite (06-10) COMP 3: Left-side backyard: 5-point composite (11-15) COMP 4: Backyard: 5-point composite (16-20) COMP 5: Garden: 3-point composite (21-23) COMP 6: Drip zone: 4-point composite (24-27)
SS-05	W-05	5,175	COMP 1: Front/side yard: 5-point composite (01-05) COMP 2: Side yard: 4-point composite (06-09) COMP 3: Backyard: 5-point composite (10-14) Discrete: Garden: (15) COMP 4: Drip zone: 4-point composite (16-19)
SS-06	D-19	7,500	COMP 1: Side yard: 4-point composite (01-04) COMP 2: Backyard SE of house: 5-point composite (05-09) COMP 3: Backyard NE of house: 5-point composite (10-14) COMP 4: Side yard: 5-point composite (15-19) COMP 5: Drip zone: 4-point composite (20-23)
SS-07	W-02	7,500	COMP 1: Front yard: 5-point composite (01-05) COMP 2: Side yard: 4-point composite (06-09) COMP 3: Backyard: 5-point composite (10-14) COMP 4: Garden: 3-point composite (15-17) COMP 5: Drip zone: 4-point composite (18-21)
SS-08	D-11	7,500	COMP 1: Front yard: 5-point composite (01-05) COMP 2: Backyard: 5-point composite (06-10) COMP 3: Backyard: 5-point composite (11-15) COMP 4: Drip zone: 4-point composite (16-19)
SS-09	S-13	13,250	COMP 1: Front/Side yard: 5-point composite (01-05) COMP 2: Backyard: 5-point composite (06-10) COMP 3: Backyard: 5-point composite (11-15) COMP 4: Side/Front yard: 4-point composite (16-19) COMP 5: Drip Zone: 4-point composite (20-23)

TABLE 1

Summary of Sample Locations and Specified Analysis

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois

RAL Identification	IDPH Identification	Approximate Property Size (Area Square Feet)	Sampling Plan
SS-10	S-21	4,000	COMP 1: Front/Side yard: 4-point composite (01-04) COMP 2: Backyard: 4-point composite (05-08) Discrete: Garden: (9) Discrete: Garden: (10) COMP 3: Drip zone: 4-point composite (11-14)
SS-11	D-16	5,000	COMP 1: Front yard: 4-point composite (01-04) COMP 2: Backyard: 5-point composite (05-09) COMP 3: Drip zone: 4-point composite (10-13)
SS-12	S-19	5,000	COMP 1: Front yard: 5-point composite (01-05) COMP 2: Backyard: 5-point composite (06-10) COMP 3: Drip zone: 4-point composite (11-14)
SS-13	S-02	6,350	COMP 1: Backyard: 5-point composite (01-05) COMP 2: Backyard: 5-point composite (06-10) COMP 3: Drip zone: 4-point composite (11-14)
SS-14	W-14	9,500	COMP 1: Side yard: 5-point composite (01-05) COMP 2: Side yard: 5-point composite (06-10) COMP 3: Backyard: 5-point composite (11-15) Discrete: Garden: (16) Discrete: Garden: (17) COMP 4: Drip zone: 4-point composite (18-21)
SS-15	S-18	19,500 (approx)	COMP 1: Front/side yard: 5-point composite (01-05) COMP 2: Front/side yard: 5-point composite (06-10) COMP 3: Side yard: 5-point composite (11-15) COMP 4: Drip zone: 4-point composite (16-19)
SS-16	S-12	6,350	COMP 1: Front/side yard: 5-point composite (01-05) COMP 2: Side yard: 5-point composite (06-10) COMP 3: Backyard: 5-point composite (11-15) COMP 4: Backyard: 5-point composite (16-20) COMP 5: Drip zone: 4-point composite (21-24)
SS-17	W-06	4,500	COMP 1: 1st half of lot: 5-point composite (01-05) COMP 2: 2nd half of lot: 5-point composite (06-10)

TABLE 2

Summary of Composite Sample XRF and Laboratory Analytical Results

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois

Sample ID									
Sample Depth (inches)			0-1	1-3	0-1	1-3	0-1	1-3	0-2
Date Collected	Residential RAL	Units	05/31/05	05/31/05	05/31/05	05/31/05	05/31/05	05/31/05	05/31/05
Metals - XRF (USEPA SW-846 6200)									
Arsenic	43	mg/kg	29.0	15.9	18.8	27.4	12.1	18.9	34.0
Barium	55000	mg/kg	2450	1750	2060	1610	1340	1400	895 U
Cadmium	390	mg/kg	65.1	63.8	41.0	39.3 U	87.9 J	61.0 J	38.4 U
Chromium	3900	mg/kg	125 J	115 U	118 U	120 U	115 U	113 U	115 U
Cobalt	47000	mg/kg	101 U	103 U	108 U	115 U	121 JQ	107 U	125 U
Copper	31000	mg/kg	30.9 J	46.6 J	26.9 J	16.0 J	22.6 J	35.5 J	29.4 J
Iron	230000	mg/kg	16300 U	16100 U	17600 U	19800 U	18700 U	18000 U	24300
Lead	1200	mg/kg	646 J	437 J	629 J	405 J	287	230	198
Manganese	18000	mg/kg	467 J	575 J	480 J	499 J	490 UJ	485 UJ	592 UJ
Mercury	78	mg/kg	10.8 UJ	10.3 UJ	10.4 UJ	10.6 UJ	10.2 UJ	9.29 UJ	9.62 UJ
Nickel	16000	mg/kg	23.3 U	22.9 U	23.5 U	25.0 U	24.3 U	24.0 U	25.8 U
Selenium	3900	mg/kg	3.38 U	3.11 U	3.27 U	3.24 U	3.00 U	3.02 U	2.90 U
Silver	3900	mg/kg	26.8 UJ	26.9 UJ	27.1 UJ	27.4 UJ	26.7 UJ	26.6 UJ	27.1 UJ
Zinc	230000	mg/kg	2950 J	2420 J	2920 J	2280 J	2620 J	2220 J	1190 J
Metals (USEPA SW-846 6000/7000)									
Aluminum	- -	mg/kg	8330	NA	NA	8360	6160	NA	NA
Antimony	- -	mg/kg	6.62 U	NA	NA	6.54 U	6.45 U	NA	NA
Arsenic	43	mg/kg	9.05	8.82	10.3	13.8	6.30	11.5	23.0
Barium	55000	mg/kg	4960	NA	NA	2340	1340	NA	NA
Beryllium	- -	mg/kg	0.551	NA	NA	0.604	0.362	NA	NA
Cadmium	390	mg/kg	35.3	NA	NA	14.6	17.6	NA	NA
Calcium	- -	mg/kg	8950	NA	NA	5460	6920	NA	NA
Chromium	3900	mg/kg	14.5	NA	NA	14.7	11.3	NA	NA
Cobalt	47000	mg/kg	6.97	NA	NA	6.72	4.44 B	NA	NA
Copper	31000	mg/kg	43.5	NA	NA	28.4	24.6	NA	NA
Iron	230000	mg/kg	15200	NA	NA	13400	9980	NA	NA
Lead	1200	mg/kg	612	NA	NA	314	168	NA	NA
Magnesium	- -	mg/kg	4280	NA	NA	3680	4060	NA	NA
Manganese	18000	mg/kg	461	NA	NA	484	334	NA	NA
Mercury	78	mg/kg	0.101 B	NA	NA	0.196	0.0700 B	NA	NA
Nickel	16000	mg/kg	16.4	NA	NA	13.9	10.9	NA	NA
Potassium	- -	mg/kg	1380	NA	NA	1450	1140	NA	NA
Selenium	3900	mg/kg	1.10 U	NA	NA	1.09 U	1.08 U	NA	NA
Silver	3900	mg/kg	1.04 B	NA	NA	0.387 B	0.342 B	NA	NA
Sodium	- -	mg/kg	96.6 J	NA	NA	80.7 J	55.3 J	NA	NA
Thallium	- -	mg/kg	1.10 U	NA	NA	1.09 U	1.08 U	NA	NA
Vanadium	- -	mg/kg	21.3	NA	NA	19.7	14.8	NA	NA
Zinc	230000	mg/kg	2540	NA	NA	1910	1420	NA	NA
Miscellaneous									
Moisture Code 086	- -	%	9.3	5.7	8.8	8.2	7	5.4	6.8
pH Code 067	- -	Std. Units	7	7.1	6.6	6.7	7.1	7.3	7.5

Notes:
NA - not available
DW - dry weight

TABLE 2

Summary of Composite Sample XRF and Laboratory Analytical Results

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois

Sample ID:			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Sample Depth (inches):			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Date Collected:	Residential RAL	Units	05/31/05	06/01/05	06/01/05	06/01/05	06/01/05	06/01/05	06/01/05
Metals - XRF (USEPA SW-846 6200)									
Arsenic	43	mg/kg	14.4	22.4	26.3	19.0	17.0 U	17.2	9.69
Barium	55000	mg/kg	591 U	2050	1860	294 U	1100 U	1540	518 U
Cadmium	390	mg/kg	44.2 J	42.2 J	39.8 J	40.1 U	38.4 U	39.5 U	39.0 J
Chromium	3900	mg/kg	108 U	121 U	119 U	119 U	158 J	146 J	105 U
Cobalt	47000	mg/kg	100 U	110 U	105 U	120 U	109 U	108 U	96.1 U
Copper	31000	mg/kg	13.6 U	36.2 J	18.0 J	13.6 U	32.5 J	28.2 J	13.2 U
Iron	230000	mg/kg	16300 U	19200 U	17100 U	21500 U	18200 U	17300 U	14900 U
Lead	1200	mg/kg	80.2	547	369	80.6	615	573	130
Manganese	18000	mg/kg	431 UJ	523 UJ	558 UJ	402 UJ	526 UJ	409 UJ	443 UJ
Mercury	78	mg/kg	8.56 UJ	10.4 UJ	10.6 UJ	8.74 UJ	10.7 UJ	10.5 UJ	8.70 UJ
Nickel	16000	mg/kg	22.3 U	24.0 U	23.6 U	25.0 U	24.4 U	24.3 U	21.3 U
Selenium	3900	mg/kg	2.77 U	3.34 U	3.10 U	2.74 U	3.35 U	3.31 U	2.84 U
Silver	3900	mg/kg	26.9 UJ	26.7 UJ	26.9 UJ	28.2 UJ	26.9 UJ	27.9 UJ	26.5 UJ
Zinc	230000	mg/kg	647 J	2970 J	2860 J	374 J	1890 J	2450 J	990 J
Metals (USEPA SW-846 6000/7000)									
Aluminum	- -	mg/kg	NA	NA	NA	NA	10000	NA	NA
Antimony	- -	mg/kg	NA	NA	NA	NA	6.49 U	NA	NA
Arsenic	43	mg/kg	12.3	10.1	10.6	11.1	8.90	10.0	5.63
Barium	55000	mg/kg	NA	NA	NA	NA	2050	NA	NA
Beryllium	- -	mg/kg	NA	NA	NA	NA	0.482	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	NA	16.3	NA	NA
Calcium	- -	mg/kg	NA	NA	NA	NA	11700	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	NA	24.5	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA	7.55	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA	36.1	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA	16100	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA	613	NA	NA
Magnesium	- -	mg/kg	NA	NA	NA	NA	7670	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA	478	NA	NA
Mercury	78	mg/kg	NA	NA	NA	NA	0.0755 B	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA	19.2	NA	NA
Potassium	- -	mg/kg	NA	NA	NA	NA	1460	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA	1.08 U	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA	0.376 B	NA	NA
Sodium	- -	mg/kg	NA	NA	NA	NA	126 J	NA	NA
Thallium	- -	mg/kg	NA	NA	NA	NA	1.08 U	NA	NA
Vanadium	- -	mg/kg	NA	NA	NA	NA	28.8	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA	2130	NA	NA
Miscellaneous									
Moisture Code 086	- -	%	8.6	6.2	5.7	7.3	7.6	10.2	9
pH Code 067	- -	Std. Units	7.7	6.7	7	7.9	7.3	7.2	7.6

Notes:
NA - not available
DW - dry weight

TABLE 2

Summary of Composite Sample XRF and Laboratory Analytical Results

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois

Sample ID:			OU4-SS-02-COMP1(0-1)	OU4-SS-02-COMP1(1-6)	OU4-SS-02-COMP1(6-12)	OU4-SS-02-COMP2(0-6)	OU4-SS-02-COMP2(6-12)	OU4-SS-02-COMP2(12-18)	OU4-SS-02-COMP3(0-1)
Sample Depth (inches):			0-1	1-6	6-12	1-6	6-12	12-18	0-1
Date Collected:	Residential RAL	Units	08/01/05	08/01/05	08/01/05	08/01/05	08/01/05	08/01/05	08/01/05
Metals - XRF (USEPA SW-846 6200)									
Arsenic	43	mg/kg	17.8	47.4	21.7	15.9	11.9 U	10.2	10.7
Barium	55000	mg/kg	789 U	2580	587 U	648	632	647	614
Cadmium	390	mg/kg	38.8 U	65.1 J	41.2 U	39.0 U	39.1 U	40.0 U	41.4 J
Chromium	3900	mg/kg	118 U	135 U	144 U	110 U	116 U	115 U	111 U
Cobalt	47000	mg/kg	126 U	140 U	256 J	141 J	R	R	R
Copper	31000	mg/kg	34.6 J	68.6 J	32.6 J	26.3 J	19.8 J	23.6 J	30.5 J
Iron	230000	mg/kg	24700	28800	56900	21600	23800	24500	19300
Lead	1200	mg/kg	298	734	147	151 J	275 J	90.1 J	118 J
Manganese	18000	mg/kg	620 UJ	737 UJ	705 UJ	453 UJ	515 UJ	532 UJ	459 UJ
Mercury	78	mg/kg	9.49 UJ	12.8 UJ	10.8 UJ	9.13 UJ	9.84 UJ	9.59 UJ	9.05 UJ
Nickel	16000	mg/kg	26.0 U	28.7 U	35.0 U	24.1 U	26.1 U	25.9 U	23.2 U
Selenium	3900	mg/kg	2.93 U	3.62 U	3.10 U	2.81 U	3.07 U	2.85 U	2.83 U
Silver	3900	mg/kg	27.2 UJ	28.1 UJ	29.1 UJ	27.2 U	27.3 U	28.1 U	26.6 U
Zinc	230000	mg/kg	1880 J	4880 J	1660 J	969 J	1200 J	747 J	1030 J
Metals (USEPA SW-846 6000/7000)									
Aluminum	- -	mg/kg	NA	13700	12200	13900	NA	NA	NA
Antimony	- -	mg/kg	NA	6.40 U	6.47 U	6.59 U	NA	NA	NA
Arsenic	43	mg/kg	9.03	16.0	12.4	9.41	9.70	10.1	6.93
Barium	55000	mg/kg	NA	3190 J	511 J	602 J	NA	NA	NA
Beryllium	- -	mg/kg	NA	0.925	1.30	0.699	NA	NA	NA
Cadmium	390	mg/kg	NA	38.3 J	7.51 J	12.5 J	NA	NA	NA
Calcium	- -	mg/kg	NA	15700 J	11900 J	4490 J	NA	NA	NA
Chromium	3900	mg/kg	NA	23.2	20.6	21.6	NA	NA	NA
Cobalt	47000	mg/kg	NA	8.58	8.46	8.17	NA	NA	NA
Copper	31000	mg/kg	NA	60.2 J	30.2 J	27.4 J	NA	NA	NA
Iron	230000	mg/kg	NA	25700 J	30700 J	20100 J	NA	NA	NA
Lead	1200	mg/kg	NA	527	117	101	NA	NA	NA
Magnesium	- -	mg/kg	NA	10300	6260	3430	NA	NA	NA
Manganese	18000	mg/kg	NA	745	658	667	NA	NA	NA
Mercury	78	mg/kg	NA	0.165	0.0699 B	0.0856 B	NA	NA	NA
Nickel	16000	mg/kg	NA	23.4	22.7	16.9	NA	NA	NA
Potassium	- -	mg/kg	NA	1990 J	1890 J	1930 J	NA	NA	NA
Selenium	3900	mg/kg	NA	1.07 U	1.08 U	1.10 U	NA	NA	NA
Silver	3900	mg/kg	NA	1.48 B	0.409 B	0.552 B	NA	NA	NA
Sodium	- -	mg/kg	NA	301 J	346 J	174 J	NA	NA	NA
Thallium	- -	mg/kg	NA	2.07	2.33	1.46	NA	NA	NA
Vanadium	- -	mg/kg	NA	41.6	33.9	36.3	NA	NA	NA
Zinc	230000	mg/kg	NA	3380	1140	779	NA	NA	NA
Miscellaneous									
Moisture Code 086	- -	%	9.1	6.2	7.2	9	8.4	11.6	11.7
pH Code 067	- -	Std. Units	6.5	7.1	7.3	7.3	7.4	7.2	6.6

Notes:
NA - not available
DW - dry weight

TABLE 2

Summary of Composite Sample XRF and Laboratory Analytical Results

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois

Sample ID:			OU4-SS-02-COMP3(1-6)	OU4-SS-02-COMP3(6-12)	OU4-SS-02-COMP4(1-6)	OU4-SS-02-COMP4(6-12)	OU4-SS-02-COMP5(0-1)	OU4-SS-02-COMP5(1-6)	OU4-SS-02-COMP5(6-12)
Sample Depth (Inches):			1-6	6-12	1-6	6-12	0-1	1-6	6-12
Date Collected:	Residential RAL	Units	06/01/05	06/01/05	06/01/05	06/01/05	06/01/05	06/01/05	06/01/05
Metals - XRF (USEPA SW-846 6200)									
Arsenic	43	mg/kg	14.3	11.9	22.1	18.4	19.3	31.3	10.9
Barium	55000	mg/kg	1210	587	2630	612	606	1130	310 U
Cadmium	390	mg/kg	41.7 J	39.1 U	60.1 J	39.7 U	40.0 U	60.5 J	41.9 U
Chromium	3900	mg/kg	119 U	114 U	137 U	120 U	117 U	123 U	117 U
Cobalt	47000	mg/kg	R	R	R	R	R	R	R
Copper	31000	mg/kg	41.5 J	17.4 J	89.8 J	28.0 J	32.6 J	29.6 J	15.1 U
Iron	230000	mg/kg	23300	21000 U	28100	24600	25100	24200	21300 U
Lead	1200	mg/kg	217 J	87.2 J	412 J	170 J	330 J	478 J	75.6 J
Manganese	18000	mg/kg	529 J	554 J	540 J	564 J	436 UJ	530 UJ	576 J
Mercury	78	mg/kg	10.0 UJ	9.42 UJ	11.1 UJ	9.54 UJ	10.2 UJ	10.9 UJ	9.74 UJ
Nickel	16000	mg/kg	25.5 U	25.2 U	27.7 U	25.7 U	25.8 U	25.9 U	25.9 U
Selenium	3900	mg/kg	2.89 U	2.66 U	3.52 U	2.87 U	3.24 U	3.60 U	2.88 U
Silver	3900	mg/kg	27.3 U	27.2 U	28.6 U	27.8 U	27.9 U	28.4 U	29.3 U
Zinc	230000	mg/kg	1730 J	1140 J	3070 J	1460 J	1700 J	2450 J	966 J
Metals (USEPA SW-846 6000/7000)									
Aluminum	- -	mg/kg	NA	NA	NA	NA	NA	10800	NA
Antimony	- -	mg/kg	NA	NA	NA	NA	NA	6.83 U	NA
Arsenic	43	mg/kg	12.0	9.45	11.9	10.4	13.5	14.1	9.02
Barium	55000	mg/kg	NA	NA	NA	NA	NA	2370 J	NA
Beryllium	- -	mg/kg	NA	NA	NA	NA	NA	0.853	NA
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	26.0 J	NA
Calcium	- -	mg/kg	NA	NA	NA	NA	NA	5360 J	NA
Chromium	3900	mg/kg	NA	NA	NA	NA	NA	21.7	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA	NA	6.20	NA
Copper	31000	mg/kg	NA	NA	NA	NA	NA	40.2 J	NA
Iron	230000	mg/kg	NA	NA	NA	NA	NA	20700 J	NA
Lead	1200	mg/kg	NA	NA	NA	NA	NA	405	NA
Magnesium	- -	mg/kg	NA	NA	NA	NA	NA	3400	NA
Manganese	18000	mg/kg	NA	NA	NA	NA	NA	598	NA
Mercury	78	mg/kg	NA	NA	NA	NA	NA	0.137	NA
Nickel	16000	mg/kg	NA	NA	NA	NA	NA	18.3	NA
Potassium	- -	mg/kg	NA	NA	NA	NA	NA	1600 J	NA
Selenium	3900	mg/kg	NA	NA	NA	NA	NA	1.14 U	NA
Silver	3900	mg/kg	NA	NA	NA	NA	NA	0.769 B	NA
Sodium	- -	mg/kg	NA	NA	NA	NA	NA	170 J	NA
Thallium	- -	mg/kg	NA	NA	NA	NA	NA	2.19	NA
Vanadium	- -	mg/kg	NA	NA	NA	NA	NA	30.6	NA
Zinc	230000	mg/kg	NA	NA	NA	NA	NA	1970	NA
Miscellaneous									
Moisture Code 086	- -	%	8.3	10.3	11.9	12.6	13.7	12.2	15.2
pH Code 067	- -	Std. Units	7	6.7	7.1	6.6	6.7	6.7	6.6

Notes:
NA - not available
DW - dry weight

TABLE 2

Summary of Composite Sample XRF and Laboratory Analytical Results

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois

Sample ID: Sample Depth (Inches): Date Collected:	Residential RAL	Units	OU4-SS-03-COMP1(0-1) 0-1 08/02/05	OU4-SS-03-COMP1(1-6) 1-6 08/02/05	OU4-SS-03-COMP1(6-12) 6-12 08/02/05	OU4-SS-03-COMP2(0-1) 0-1 08/02/05	OU4-SS-03-COMP2(1-6) 1-6 08/02/05	OU4-SS-03-COMP2(6-12) 6-12 08/02/05	OU4-SS-03-COMP2(12-18) 12-18 08/02/05
Metals - XRF (USEPA SW-846 6200)									
Arsenic	43	mg/kg	26.4	19.9	22.4	18.9	30.1	26.5	14.0
Barium	55000	mg/kg	2900	998	583	916	1610	865	386
Cadmium	390	mg/kg	111	85.5	37.9 U	37.2 U	51.3	40.0 U	39.3 U
Chromium	3900	mg/kg	139 U	130 U	112 U	113 U	124 U	126 U	119 U
Cobalt	47000	mg/kg	R	R	R	R	R	R	R
Copper	31000	mg/kg	82.5 J	49.3 J	29.8 J	42.3 J	53.6 J	45.8 J	26.3 J
Iron	230000	mg/kg	29000	29500	23100 U	21500 U	27600	30700	24200 U
Lead	1200	mg/kg	640 J	290 J	229 J	285 J	425 J	398 J	291 J
Manganese	18000	mg/kg	916 J	1030 J	956 J	551 UJ	702 J	729 J	794 J
Mercury	78	mg/kg	12.8 UJ	11.3 UJ	9.75 UJ	9.94 UJ	11.9 UJ	11.5 UJ	10.3 UJ
Nickel	16000	mg/kg	28.0 U	27.1 U	24.9 U	23.8 U	28.4 U	28.3 U	26.2 U
Selenium	3900	mg/kg	3.52 U	2.99 U	2.76 U	3.08 U	3.12 U	3.22 U	3.10 U
Silver	3900	mg/kg	28.2 U	27.6 U	26.5 U	26.0 U	27.7 U	28.1 U	27.7 U
Zinc	230000	mg/kg	7150 J	5030 J	2270 J	2840 J	5180 J	4390 J	2330 J
Metals (USEPA SW-846 6000/7000)									
Aluminum	- -	mg/kg	11600	NA	NA	NA	NA	NA	NA
Antimony	- -	mg/kg	6.60 UJ	NA	NA	NA	NA	NA	NA
Arsenic	43	mg/kg	18.2	19.8	11.1	12.8	17.8	16.2	12.5
Barium	55000	mg/kg	6200	NA	NA	NA	NA	NA	NA
Beryllium	- -	mg/kg	0.823	NA	NA	NA	NA	NA	NA
Cadmium	390	mg/kg	109 J	49.7 J	NA	NA	NA	NA	NA
Calcium	- -	mg/kg	9510	NA	NA	NA	NA	NA	NA
Chromium	3900	mg/kg	21.3	NA	NA	NA	NA	NA	NA
Cobalt	47000	mg/kg	9.71	NA	NA	NA	NA	NA	NA
Copper	31000	mg/kg	97.1	NA	NA	NA	NA	NA	NA
Iron	230000	mg/kg	28500	NA	NA	NA	NA	NA	NA
Lead	1200	mg/kg	584	NA	NA	NA	NA	NA	NA
Magnesium	- -	mg/kg	3140	NA	NA	NA	NA	NA	NA
Manganese	18000	mg/kg	832	NA	NA	NA	NA	NA	NA
Mercury	78	mg/kg	0.208	NA	NA	NA	NA	NA	NA
Nickel	16000	mg/kg	18.9	NA	NA	NA	NA	NA	NA
Potassium	- -	mg/kg	1940	NA	NA	NA	NA	NA	NA
Selenium	3900	mg/kg	2.68	NA	NA	NA	NA	NA	NA
Silver	3900	mg/kg	2.06 J	NA	NA	NA	NA	NA	NA
Sodium	- -	mg/kg	175	NA	NA	NA	NA	NA	NA
Thallium	- -	mg/kg	2.55	NA	NA	NA	NA	NA	NA
Vanadium	- -	mg/kg	31.2 J	NA	NA	NA	NA	NA	NA
Zinc	230000	mg/kg	5850 J	NA	NA	NA	NA	NA	NA
Miscellaneous									
Moisture Code 086	- -	%	9.1	7.6	6.2	4.4	6	9.4	11.6
pH Code 067	- -	Std. Units	6.2	6.2	7	6.6	6.9	7.3	7.7

Notes:
NA - not available
DW - dry weight

TABLE 2

Summary of Composite Sample XRF and Laboratory Analytical Results

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois

Sample ID / Sample Depth (Inches) / Date Collected	Residential RAL	Units	OU4-SS-03-COMP3(1-6) 0-1 06/02/05	OU4-SS-03-COMP3(1-6) 1-6 06/02/05	OU4-SS-03-COMP3(6-12) 6-12 06/02/05	OU4-SS-03-COMP3(12-18) 12-18 06/02/05	OU4-SS-03-COMP4(0-1) 0-1 06/02/05	OU4-SS-03-COMP4(12-18) 12-18 06/02/05	OU4-SS-04-COMP1(0-1) 0-1 06/03/05
Metals - XRF (USEPA SW-846 6200)									
Arsenic	43	mg/kg	15.2	29.8	20.1	31.6	45.1	20.1	11.9 U
Barium	55000	mg/kg	788	1140	868	343 U	688	342	384 J
Cadmium	390	mg/kg	56.0	79.6	41.4 U	40.6 U	39.6 U	41.8 U	38.8 U
Chromium	3900	mg/kg	120 U	135 U	136 U	132 U	124 U	127 U	115 U
Cobalt	47000	mg/kg	R	R	R	R	R	R	R
Copper	31000	mg/kg	61.2 J	54.3 J	37.6 J	29.2 J	48.6 J	37.8 J	45.7 J
Iron	230000	mg/kg	27200	34400	42700	39500	25500 U	28000	22400 U
Lead	1200	mg/kg	404 J	442 J	346 J	269 J	778 J	270 J	276 J
Manganese	18000	mg/kg	600 UJ	714 J	909 J	652 UJ	754 J	807 J	724 J
Mercury	78	mg/kg	11.0 UJ	12.2 UJ	11.8 UJ	11.4 UJ	11.3 UJ	12.1 JQ	10.5 UJ
Nickel	16000	mg/kg	27.2 U	30.0 U	31.7 U	30.6 U	27.4 U	28.4 U	26.0 U
Selenium	3900	mg/kg	3.29 U	3.37 U	3.45 U	3.01 U	3.78 U	3.01 U	2.93 U
Silver	3900	mg/kg	27.3 U	28.3 U	29.5 U	28.5 U	27.8 U	29.2 U	27.3 UJ
Zinc	230000	mg/kg	3860 J	4660 J	3560 J	2100 J	3300 J	2070 J	2450 J
Metals (USEPA SW-846 6000/7000)									
Aluminum	--	mg/kg	NA	9330	NA	NA	7930	NA	NA
Antimony	--	mg/kg	NA	1.12 J	NA	NA	1.27 J	NA	NA
Arsenic	43	mg/kg	15.4	19.7	23.5	20.5	12.1	10.9	9.78 J
Barium	55000	mg/kg	NA	1850	NA	NA	1390	NA	NA
Beryllium	--	mg/kg	NA	0.947	NA	NA	0.726	NA	NA
Cadmium	390	mg/kg	NA	41.6 J	NA	NA	30.0 J	NA	NA
Calcium	--	mg/kg	NA	21800	NA	NA	7610	NA	NA
Chromium	3900	mg/kg	NA	18.7	NA	NA	23.7	NA	NA
Cobalt	47000	mg/kg	NA	10.2	NA	NA	7.83	NA	NA
Copper	31000	mg/kg	NA	99.9	NA	NA	57.9	NA	NA
Iron	230000	mg/kg	NA	28600	NA	NA	22100	NA	NA
Lead	1200	mg/kg	NA	519	NA	NA	769	NA	NA
Magnesium	--	mg/kg	NA	10100	NA	NA	3030	NA	NA
Manganese	18000	mg/kg	NA	939	NA	NA	671	NA	NA
Mercury	78	mg/kg	NA	0.146	NA	NA	0.259	NA	NA
Nickel	16000	mg/kg	NA	18.4	NA	NA	17.3	NA	NA
Potassium	--	mg/kg	NA	1580	NA	NA	1160	NA	NA
Selenium	3900	mg/kg	NA	1.83	NA	NA	1.58	NA	NA
Silver	3900	mg/kg	NA	1.36 J	NA	NA	1.14 J	NA	NA
Sodium	--	mg/kg	NA	187	NA	NA	122	NA	NA
Thallium	--	mg/kg	NA	1.98	NA	NA	1.78	NA	NA
Vanadium	--	mg/kg	NA	26.8 J	NA	NA	24.4 J	NA	NA
Zinc	230000	mg/kg	NA	4050 J	NA	NA	2480 J	NA	NA
Miscellaneous									
Moisture Code 086	--	%	9	8.4	11.6	11.5	12	14.6	10
pH Code 067	--	Std. Units	6	6	6.5	7.2	6.5	7.2	6.5

Notes:
NA - not available
DW - dry weight

TABLE 2

Summary of Composite Sample XRF and Laboratory Analytical Results

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois

Sample ID:			OU4-SS-04-COMP1(1-6)	OU4-SS-04-COMP1(6-12)	OU4-SS-04-COMP2(0-1)	OU4-SS-04-COMP2(1-6)	OU4-SS-04-COMP2(12-18)	OU4-SS-04-COMP3(0-1)	OU4-SS-04-COMP3(1-6)
Sample Depth (Inches):			1-6	6-12	0-1	1-6	12-18	0-1	1-6
Date Collected:	Residential RAL	Units	06/03/06	06/03/06	06/03/06	06/03/06	06/03/06	06/03/06	06/03/06
Metals - XRF (USEPA SW-846 6200)									
Arsenic	43	mg/kg	13.8 U	13.3	22.8	10.9 U	9.85	12.3 U	18.0
Barium	55000	mg/kg	579 J	382 J	456 J	636 J	326 U	761 J	644 J
Cadmium	390	mg/kg	63.9	40.0 U	45.3	37.6 U	40.5 U	38.3 U	50.7
Chromium	3900	mg/kg	122 U	124 J	110 U	109 U	123 U	117 U	117 U
Cobalt	47000	mg/kg	R	R	R	R	166 J	126 U	125 U
Copper	31000	mg/kg	45.7 J	103 J	46.7 J	61.4 J	15.2 U	61.4 J	54.8 J
Iron	230000	mg/kg	24800	19500 U	17800 U	16400 U	24300 U	23900 U	23200 U
Lead	1200	mg/kg	361 J	225 J	221 J	234 J	148 J	293 J	218 J
Manganese	18000	mg/kg	874 J	1100 J	647 J	802 J	843 J	724 UJ	772 UJ
Mercury	78	mg/kg	10.7 UJ	10.4 UJ	10.3 UJ	9.74 UJ	10.3 UJ	10.6 UJ	10.9 UJ
Nickel	16000	mg/kg	27.1 U	24.9 U	24.2 U	23.8 U	27.2 U	26.8 U	26.4 U
Selenium	3900	mg/kg	3.17 U	2.97 U	2.93 U	2.88 U	3.12 U	2.96 U	3.05 U
Silver	3900	mg/kg	27.8 UJ	27.9 UJ	26.8 UJ	26.2 UJ	28.5 UJ	27.0 UJ	27.2 UJ
Zinc	230000	mg/kg	3240 J	2580 J	2480 J	2510 J	1770 J	3240 J	3290 J
Metals (USEPA SW-846 6000/7000)									
Aluminum	- -	mg/kg	NA	11000	11100	NA	NA	NA	12300
Antimony	- -	mg/kg	NA	6.64 U	6.56 U	NA	NA	NA	6.32 U
Arsenic	43	mg/kg	14.2 J	7.96 J	7.89 J	8.87 J	8.51 J	10.3 J	9.99 J
Barium	55000	mg/kg	NA	442 J	472 J	NA	NA	NA	564 J
Beryllium	- -	mg/kg	NA	0.839	0.544	NA	NA	NA	0.787
Cadmium	390	mg/kg	NA	7.82 J	19.8 J	NA	NA	NA	26.9 J
Calcium	- -	mg/kg	NA	2930	31500	NA	NA	NA	5030
Chromium	3900	mg/kg	NA	18.1 J	17.7 J	NA	NA	NA	18.7 J
Cobalt	47000	mg/kg	NA	9.18	8.46	NA	NA	NA	9.55
Copper	31000	mg/kg	NA	64.0 J	38.8 J	NA	NA	NA	45.0 J
Iron	230000	mg/kg	NA	14900 J	15000 J	NA	NA	NA	19300 J
Lead	1200	mg/kg	NA	129 J	143 J	NA	NA	NA	166 J
Magnesium	- -	mg/kg	NA	2110	16800	NA	NA	NA	2470
Manganese	18000	mg/kg	NA	1760 J	815 J	NA	NA	NA	830 J
Mercury	78	mg/kg	NA	0.0860 B	0.0569 B	NA	NA	NA	0.0465 B
Nickel	16000	mg/kg	NA	23.3	15.4	NA	NA	NA	19.7
Potassium	- -	mg/kg	NA	1630 J	2170 J	NA	NA	NA	1710 J
Selenium	3900	mg/kg	NA	1.11 U	1.09 U	NA	NA	NA	1.05 U
Silver	3900	mg/kg	NA	0.286 B	0.560 B	NA	NA	NA	0.635 B
Sodium	- -	mg/kg	NA	72.2 B	80.5 B	NA	NA	NA	66.4 B
Thallium	- -	mg/kg	NA	1.70	1.09 U	NA	NA	NA	1.05 U
Vanadium	- -	mg/kg	NA	29.9 J	29.3 J	NA	NA	NA	34.2 J
Zinc	230000	mg/kg	NA	1560 J	1460 J	NA	NA	NA	2520 J
Miscellaneous									
Moisture Code 086	- -	%	6.5	9.7	8.5	3	10.7	5.9	5
pH Code 067	- -	Std. Units	7.2	7.2	6.9	7	7	6.9	6.7

Notes:
NA - not available
DW - dry weight

TABLE 2

Summary of Composite Sample XRF and Laboratory Analytical Results

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois

Sample ID:			OU4-SS-04-COMP4(0-1)	OU4-SS-04-COMP4(1-6)	OU4-SS-04-COMP5(1-6)	OU4-SS-04-COMP6(12-18)	OU4-SS-04-COMP6(0-1)	OU4-SS-04-COMP6(1-6)	OU4-SS-05-COMP1(0-1)
Sample Depth (Inches):			0 - 1	1 - 6	1 - 6	12 - 18	0 - 1	1 - 6	0 - 1
Date Collected:	Residential RAL	Units	08/02/05	08/02/05	08/02/05	08/02/05	08/03/05	08/03/05	08/08/05
Metals - XRF (USEPA SW-846 6200)									
Arsenic	43	mg/kg	20.9	11.5 U	7.17 U	9.95 U	28.1	25.7	17.2
Barium	55000	mg/kg	349 J	572 J	301 U	570 J	284 UJ	669 J	2660 J
Cadmium	390	mg/kg	45.5	38.8 U	42.1 U	41.2 U	37.9 U	42.0 U	45.1 J
Chromium	3900	mg/kg	114 U	113 U	111 U	117 U	107 U	126 U	124 U
Cobalt	47000	mg/kg	120 U	115 U	104 U	130 JQ	107 U	133 U	102 U
Copper	31000	mg/kg	34.3 J	78.3 J	14.6 U	39.3 J	36.1 J	71.6 J	32.6 J
Iron	230000	mg/kg	22000 U	20100 U	14900 U	18300 U	17500 U	24800 U	16200 U
Lead	1200	mg/kg	361 J	247 J	69.7 J	166 J	316 J	415 J	359 J
Manganese	18000	mg/kg	837 UJ	832 UJ	1200 J	893 UJ	515 UJ	657 UJ	480 UJ
Mercury	78	mg/kg	10.4 UJ	9.98 UJ	8.99 UJ	10.1 UJ	8.97 UJ	11.0 UJ	9.83 UJ
Nickel	16000	mg/kg	25.9 U	24.5 U	24.2 U	25.1 U	23.7 U	27.5 U	23.2 U
Selenium	3900	mg/kg	3.14 U	2.91 U	2.88 U	3.03 U	3.05 U	3.35 U	3.06 U
Silver	3900	mg/kg	27.0 UJ	27.2 UJ	29.2 UJ	28.7 UJ	26.5 UJ	29.4 UJ	26.9 UJ
Zinc	230000	mg/kg	1510 J	1950 J	1040 J	1710 J	1690 J	2950 J	2510 J
Metals (USEPA SW-846 6000/7000)									
Aluminum	- -	mg/kg	NA	NA	9010	NA	NA	12800	NA
Antimony	- -	mg/kg	NA	NA	7.24 U	NA	NA	6.91 U	NA
Arsenic	43	mg/kg	9.17 J	8.31 J	5.27 J	9.26 J	12.5 J	10.0 J	9.03
Barium	55000	mg/kg	NA	NA	256 J	NA	NA	577 J	NA
Beryllium	- -	mg/kg	NA	NA	0.579	NA	NA	0.667	NA
Cadmium	390	mg/kg	NA	NA	5.02 J	NA	NA	23.9 J	NA
Calcium	- -	mg/kg	NA	NA	3210	NA	NA	43700	NA
Chromium	3900	mg/kg	NA	NA	15.5 J	NA	NA	25.8 J	NA
Cobalt	47000	mg/kg	NA	NA	8.39	NA	NA	9.55	NA
Copper	31000	mg/kg	NA	NA	17.4 J	NA	NA	47.8 J	NA
Iron	230000	mg/kg	NA	NA	12400 J	NA	NA	17700 J	NA
Lead	1200	mg/kg	NA	NA	39.4 J	NA	NA	233 J	NA
Magnesium	- -	mg/kg	NA	NA	1710	NA	NA	27100	NA
Manganese	18000	mg/kg	NA	NA	1320 J	NA	NA	956 J	NA
Mercury	78	mg/kg	NA	NA	0.0298 B	NA	NA	0.0889 B	NA
Nickel	16000	mg/kg	NA	NA	19.0	NA	NA	18.5	NA
Potassium	- -	mg/kg	NA	NA	2510 J	NA	NA	2000 J	NA
Selenium	3900	mg/kg	NA	NA	1.21 U	NA	NA	1.15 U	NA
Silver	3900	mg/kg	NA	NA	2.41 U	NA	NA	0.614 B	NA
Sodium	- -	mg/kg	NA	NA	69.9 B	NA	NA	99.5 B	NA
Thallium	- -	mg/kg	NA	NA	1.34	NA	NA	1.15 U	NA
Vanadium	- -	mg/kg	NA	NA	22.7 J	NA	NA	32.1 J	NA
Zinc	230000	mg/kg	NA	NA	680 J	NA	NA	2000 J	NA
Miscellaneous									
Moisture Code 086	- -	%	7.2	5.2	17.1	12.6	6.9	13.2	7.3
pH Code 067	- -	Std. Units	6.6	7	7.5	7.5	7	7.4	6.8

Notes:
NA - not available
DW - dry weight

TABLE 2

Summary of Composite Sample XRF and Laboratory Analytical Results

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois

Sample ID / Sample Depth Interval / Date Collected	Residential RAL	Units	OU4-SS-05-COMP1(1-6) 0-6 06/06/05	OU4-SS-05-COMP2(0-1) 0-1 06/06/05	OU4-SS-05-COMP2(1-6) 1-6 06/06/05	OU4-SS-05-COMP2(6-12) 6-12 06/06/05	OU4-SS-05-COMP3(1-6) 0-6 06/06/05	OU4-SS-05-COMP3(6-12) 6-12 06/06/05	OU4-SS-05-COMP4(0-1) 0-1 06/06/05
Metals - XRF (USEPA SW-846 6200)									
Arsenic	43	mg/kg	16.5	13.3 U	26.7	21.3	17.8	10.8	16.5
Barium	55000	mg/kg	1760 J	1890 J	1570 J	266 UJ	1640 J	535 J	1640 J
Cadmium	390	mg/kg	43.7 J	38.0 U	45.9 J	36.8 U	38.5 U	43.6 J	39.5 U
Chromium	3900	mg/kg	118 U	111 U	207 J	104 U	119 U	109 U	115 U
Cobalt	47000	mg/kg	105 U	105 U	124 U	87.9 U	107 U	112 U	96.9 U
Copper	31000	mg/kg	30.8 J	32.4 J	68.0 J	32.3 J	36.8 J	13.6 U	24.8 J
Iron	230000	mg/kg	17400 U	18300 U	24900 U	12900 U	18200 U	19700 U	13700 U
Lead	1200	mg/kg	290 J	382 J	228 J	47.8 U	215 J	85.0 J	555 J
Manganese	18000	mg/kg	526 UJ	595 J	575 J	321 J	472 UJ	452 UJ	414 UJ
Mercury	78	mg/kg	9.63 UJ	10.2 UJ	10.1 UJ	7.44 UJ	9.37 UJ	8.82 UJ	10.5 UJ
Nickel	16000	mg/kg	23.2 U	26.7 JQ	25.8 U	20.5 U	24.2 U	23.7 U	23.3 U
Selenium	3900	mg/kg	2.88 U	2.97 U	2.98 U	2.52 U	2.96 U	2.69 U	3.25 U
Silver	3900	mg/kg	26.7 UJ	26.5 UJ	26.8 UJ	25.7 UJ	27.0 UJ	26.5 UJ	27.4 UJ
Zinc	230000	mg/kg	2460 J	2300 J	2050 J	363 J	2130 J	947 J	2550 J
Metals (USEPA SW-846 6000/7000)									
Aluminum	- -	mg/kg	NA	NA	7890	NA	9570	NA	8480
Antimony	- -	mg/kg	NA	NA	6.35 U	NA	6.38 U	NA	6.85 U
Arsenic	43	mg/kg	10.3	12.8	26.8	16.9	9.01	7.59	8.20
Barium	55000	mg/kg	NA	NA	2400	NA	2440	NA	3970
Beryllium	- -	mg/kg	NA	NA	0.759	NA	0.571	NA	0.452
Cadmium	390	mg/kg	NA	NA	14.0	NA	14.7	NA	19.6
Calcium	- -	mg/kg	NA	NA	39900	NA	33000	NA	5740
Chromium	3900	mg/kg	NA	NA	30.8	NA	21.0	NA	22.3
Cobalt	47000	mg/kg	NA	NA	5.68	NA	8.12	NA	7.20
Copper	31000	mg/kg	NA	NA	39.2 J	NA	26.5 J	NA	34.2 J
Iron	230000	mg/kg	NA	NA	14000	NA	14600	NA	14100
Lead	1200	mg/kg	NA	NA	179	NA	123	NA	1080
Magnesium	- -	mg/kg	NA	NA	22800	NA	20600	NA	3840
Manganese	18000	mg/kg	NA	NA	439	NA	506	NA	450
Mercury	78	mg/kg	NA	NA	0.149	NA	0.109	NA	0.0950 B
Nickel	16000	mg/kg	NA	NA	14.2	NA	16.2	NA	14.6
Potassium	- -	mg/kg	NA	NA	1540	NA	1940	NA	1600
Selenium	3900	mg/kg	NA	NA	1.06 U	NA	1.06 U	NA	1.14 U
Silver	3900	mg/kg	NA	NA	0.359 B	NA	0.381 B	NA	0.552 B
Sodium	- -	mg/kg	NA	NA	178	NA	132	NA	83.3 B
Thallium	- -	mg/kg	NA	NA	1.06 U	NA	1.00 B	NA	1.14 U
Vanadium	- -	mg/kg	NA	NA	20.0	NA	23.3	NA	22.7
Zinc	230000	mg/kg	NA	NA	1280	NA	1350	NA	2470
Miscellaneous									
Moisture Code 086	- -	%	3.8	8.4	5.5	5.3	5.9	5.1	12.4
pH Code 067	- -	Std. Units	6.7	7	7.4	7.6	7.4	7.6	6.6

Notes:
NA - not available
DW - dry weight

TABLE 2

Summary of Composite Sample XRF and Laboratory Analytical Results

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois

Sample ID			OU4-SS-06-COMP1(0-6)	OU4-SS-06-COMP2(1-6)	OU4-SS-06-COMP3(1-6)	OU4-SS-06-COMP4(1-6)	OU4-SS-06-COMP5(6-12)	OU4-SS-07-COMP1(1-6)	OU4-SS-07-COMP2(6-12)
Sample Depth (inches)			1-6	1-6	1-6	1-6	6-12	1-6	6-12
Date Collected	Residential RAL	Units	06/07/05	06/06/05	06/07/05	06/07/05	06/07/05	06/07/05	06/07/05
Metals - XRF (USEPA SW-846 6200)									
Arsenic	43	mg/kg	12.4 U	17.7	15.6	29.2	13.2	26.1	16.0
Barium	55000	mg/kg	1190 J	1300 J	1980 J	1380 J	327 UJ	3990 J	1100 J
Cadmium	390	mg/kg	52.7 J	71.0 J	71.4	87.6	41.6 U	59.7	39.3 U
Chromium	3900	mg/kg	144 J	125 U	133 U	136 U	125 U	143 U	123 U
Cobalt	47000	mg/kg	127 U	125 U	142 U	152 U	145 U	134 U	133 U
Copper	31000	mg/kg	51.0 J	52.2 J	48.0	66.7	36.2	81.5	41.2 J
Iron	230000	mg/kg	24500 UJ	23400 UJ	28800 J	33000 J	30400 J	25700 J	27400 J
Lead	1200	mg/kg	295 J	356 J	360 J	472 J	168 J	498 J	275 J
Manganese	18000	mg/kg	839 UJ	694 UJ	725 J	709 J	508 UJ	748 J	490 UJ
Mercury	78	mg/kg	11.4 UJ	11.6 UJ	12.6 UJ	12.3 UJ	11.9 JQ	13.1 UJ	16.1 JQ
Nickel	16000	mg/kg	26.5 U	26.0 U	28.8 U	29.7 U	28.7 U	28.8 U	26.9 U
Selenium	3900	mg/kg	3.05 U	3.25 U	3.29 U	3.30 U	2.99 U	3.40 U	3.03 U
Silver	3900	mg/kg	27.2 UJ	27.5 UJ	28.1 UJ	28.6 UJ	28.8 UJ	28.6 UJ	27.6 UJ
Zinc	230000	mg/kg	4570	4690	5780	5090	2100	5100	1920
Metals (USEPA SW-846 6000/7000)									
Aluminum	- -	mg/kg	10700	10400	11700	13300	10500	9660	10300
Antimony	- -	mg/kg	6.39 U	6.37 U	6.47 U	6.38 U	6.85 U	6.33 U	6.31 U
Arsenic	43	mg/kg	15.0	14.3	13.6	15.4	13.0	14.3	9.56
Barium	55000	mg/kg	1960	2490	2740	1680	252	6030	1090
Beryllium	- -	mg/kg	0.825	0.754	0.836	1.15	1.06	1.20	0.875
Cadmium	390	mg/kg	37.5	37.5	56.4	38.4	16.8	42.3	6.39
Calcium	- -	mg/kg	5190	3900	7940	9200	3830	13600	11600
Chromium	3900	mg/kg	20.3	17.4	19.1	24.1	21.6	16.8	17.0
Cobalt	47000	mg/kg	9.73	8.22	8.64	11.0	7.48	8.19	6.86
Copper	31000	mg/kg	49.9 J	52.0 J	60.4 J	55.7 J	34.5 J	69.6 J	29.7 J
Iron	230000	mg/kg	24200	20600	20100	24800	26400	18800	17100
Lead	1200	mg/kg	252	326	281	287	134	404	182
Magnesium	- -	mg/kg	2600	2210	4840	4580	2290	6790	6810
Manganese	18000	mg/kg	774	788	711	855	628	586	472
Mercury	78	mg/kg	0.0719 B	0.0837 B	0.0704 B	0.125	0.0524 B	0.114	0.102 B
Nickel	16000	mg/kg	20.1	17.5	18.7	23.1	20.7	19.0	17.7
Potassium	- -	mg/kg	1630	1640	1960	1950	1560	1930	1880
Selenium	3900	mg/kg	1.06 U	1.09	1.08 U	1.06 U	1.14 U	1.05 U	1.05 U
Silver	3900	mg/kg	0.906 B	1.25 B	1.26 B	1.07 B	0.326 B	1.77 B	0.652 B
Sodium	- -	mg/kg	60.1 B	41.7 B	50.4 B	127	135	135	135
Thallium	- -	mg/kg	1.10	1.06 U	1.29	1.29	1.23	1.20	1.10
Vanadium	- -	mg/kg	31.9	28.5	30.4	34.9	31.2	26.8	26.5
Zinc	230000	mg/kg	4050	4130	4250	2960	2160	4100	1120
Miscellaneous									
Moisture Code 086	- -	%	6.1	5.8	7.2	5.9	12.4	5.2	4.9
pH Code 067	- -	Std. Units	7.2	7.1	7.1	7.5	7.3	7.2	7.9

Notes:
NA - not available
DW - dry weight

TABLE 2

Summary of Composite Sample XRF and Laboratory Analytical Results

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois

Sample ID:	Residential RAL	Units	OU4-SS-07-COMP4(1-6)	OU4-SS-07-COMP5(1-6)	OU4-SS-08-COMP2(0-1)	OU4-SS-08-COMP3(0-1)	OU4-SS-08-COMP3(1-6)	OU4-SS-08-COMP4(0-1)	OU4-SS-09-COMP1(1-6)
Sample Depth (inches):			1-6	1-6	0-1	0-1	1-6	0-1	1-6
Date Collected:			08/08/05	08/08/05	08/08/05	08/08/05	08/08/05	08/08/05	08/08/05
Metals - XRF (USEPA SW-846 6200)									
Arsenic	43	mg/kg	16.5	15.8	21.2 J	27.2 J	31.5 J	15.2 J	24.7 J
Barium	55000	mg/kg	1710 J	1650 J	1290 J	4820 J	4950 J	713 J	1340 J
Cadmium	390	mg/kg	72.6 J	77.8 J	102 J	150 J	128 J	102 J	43.4 J
Chromium	3900	mg/kg	131 U	123 U	124 U	159 U	162 U	121 U	130 U
Cobalt	47000	mg/kg	116 U	115 U	115 U	151 U	158 U	122 U	149 U
Copper	31000	mg/kg	65.2 J	47.8 J	63.5 J	142 J	113 J	47.3 J	65.8 J
Iron	230000	mg/kg	18100 U	19300 U	19400 U	29200	31900	21000 U	33500
Lead	1200	mg/kg	298	311	338 J	808 J	674 J	327 J	333 J
Manganese	18000	mg/kg	458 U	520 U	516 J	701 UJ	637 UJ	707 UJ	684 J
Mercury	78	mg/kg	11.4 U	10.5 U	11.9 UJ	16.4 UJ	16.0 UJ	11.8 UJ	11.4 UJ
Nickel	16000	mg/kg	26.5 U	25.4 U	26.2 U	32.3 U	31.4 U	26.6 U	29.3 U
Selenium	3900	mg/kg	3.41 U	3.34 U	3.16 U	4.21 U	3.98 U	3.30 U	3.16 U
Silver	3900	mg/kg	30.1 U	28.3 U	27.6 U	31.0 UJ	31.1 UJ	28.7 UJ	27.8 UJ
Zinc	230000	mg/kg	3340	3450	5960 J	12200 J	11300 J	4700 J	3330 J
Metals (USEPA SW-846 6000/7000)									
Aluminum	- -	mg/kg	8550	10400	11300	9910	9990	10900	13500
Antimony	- -	mg/kg	7.36 U	6.81 U	6.59 U	6.89 U	7.05 U	7.08 U	6.32 U
Arsenic	43	mg/kg	11.2	10.6	9.31	19.5	21.9	10.1	16.0
Barium	55000	mg/kg	4760	3570	2170 J	8260 J	7080 J	1400 J	1650 J
Beryllium	- -	mg/kg	0.668	0.725	0.638	1.10	1.37	0.557	1.21
Cadmium	390	mg/kg	31.7	45.3	52.7	138	93.1	47.3	23.5
Calcium	- -	mg/kg	39500	13900	9520	9530	4540	12500	11100
Chromium	3900	mg/kg	18.3	19.5	18.0	18.5	18.2	22.6	20.4
Cobalt	47000	mg/kg	6.55	7.42	7.61	9.38	9.71	12.8	8.30
Copper	31000	mg/kg	63.2 J	52.1 J	62.6	146	96.7	58.4	57.8
Iron	230000	mg/kg	14800	16300	16400	21000	24700	27700	24800
Lead	1200	mg/kg	265	271	285	712	675	284	232
Magnesium	- -	mg/kg	11200	7590	4360	3370	2130	6270	4860
Manganese	18000	mg/kg	516	503	537	523	599	1060	583
Mercury	78	mg/kg	0.0946 B	0.107 B	0.0704 J	0.146 J	0.174 J	0.104 J	0.157 J
Nickel	16000	mg/kg	15.8	20.2	17.6	18.6	20.1	20.2	22.3
Potassium	- -	mg/kg	2320	2030	2440	1830	1960	1800	2290
Selenium	3900	mg/kg	1.23 U	1.16	1.11	1.82	1.27	1.34	1.05 U
Silver	3900	mg/kg	1.29 B	1.04 B	1.14 B	3.13	2.50	0.969 B	0.855 B
Sodium	- -	mg/kg	125	109 B	84.5 B	87.0 B	83.3 B	129	489
Thallium	- -	mg/kg	1.23 U	1.08 B	1.10 U	1.12 B	1.18 U	1.18 U	1.05 U
Vanadium	- -	mg/kg	22.7	26.3	27.8	26.6	27.4	34.3	35.6
Zinc	230000	mg/kg	2570	2750	4250	9980	8590	3320	2230
Miscellaneous									
Moisture Code 086	- -	%	18.5	11.9	9	12.9	14.9	15.2	5.1
pH Code 067	- -	Std. Units	6.9	7.1	6.9	6.3	6.4	6.5	7.1

Notes:
NA - not available
DW - dry weight

TABLE 2

Summary of Composite Sample XRF and Laboratory Analytical Results

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois

Sample ID			OU4-SS-09-COMP2(1-6)	OU4-SS-09-COMP3(6-12)	OU4-SS-09-COMP2(1-6)	OU4-SS-09-COMP5(1-6)	OU4-SS-10-COMP1(0-1)	OU4-SS-10-COMP2(1-6)	OU4-SS-11-COMP1(1-6)
Sample Depth (inches)			1 - 6	6 - 12	1 - 6	1 - 6	0 - 1	1 - 6	1 - 6
Date Collected	Residential RA	UNITS	05/08/96	05/08/96	05/08/96	05/08/96	05/08/96	05/08/96	05/08/96
Metals - XRF (USEPA SW-846 6200)									
Arsenic	43	mg/kg	12.6 U	15.3 J	20.4 J	19.6 J	18.9 J	26.9 J	23.8 J
Barium	55000	mg/kg	1370 J	669 J	1070 J	1660 J	1110 J	1310 J	2140 J
Cadmium	390	mg/kg	60.9 J	38.3 U	67.3	106	39.8	98.9	115
Chromium	3900	mg/kg	128 U	112 U	116 U	125 U	118 U	119 U	141 U
Cobalt	47000	mg/kg	139 U	116 U	114 U	129 U	122 U	112 U	142 U
Copper	31000	mg/kg	63.8 J	37.2 J	36.6 J	58.0 J	34.8 J	71.3 J	70.5 J
Iron	230000	mg/kg	29100	21600 U	19700 U	24700 U	23200 U	19700 U	28200
Lead	1200	mg/kg	292 J	204 J	275 J	448 J	470 J	566 J	499 J
Manganese	18000	mg/kg	560 UJ	538 UJ	615 UJ	817 UJ	939 J	713 UJ	980 J
Mercury	78	mg/kg	11.5 UJ	10.6 JQ	10.1 UJ	11.5 UJ	11.1 UJ	11.7 UJ	12.6 UJ
Nickel	16000	mg/kg	42.2 J	24.5 U	26.2 JQ	27.8 U	31.4 J	24.8 U	29.1 UJ
Selenium	3900	mg/kg	3.18 U	2.85 U	3.16 U	3.42 U	3.24 U	3.30 U	3.68 U
Silver	3900	mg/kg	28.0 UJ	26.8 UJ	27.5 UJ	28.1 UJ	27.2 UJ	27.3 UJ	29.1 UJ
Zinc	230000	mg/kg	2880 J	1780 J	3170	3700	3960	3920	6910
Metals (USEPA SW-846 6000/7000)									
Aluminum	- -	mg/kg	11500	9120	9630	9840	6550	7270	12700
Antimony	- -	mg/kg	6.49 U	6.45 U	6.61 U	6.80 U	6.61 U	6.59 U	6.55 U
Arsenic	43	mg/kg	24.5	11.3	14.2	16.7	13.9	14.8	21.2
Barium	55000	mg/kg	2510 J	816 J	2080 J	3280 J	1500 J	1950 J	3760 J
Beryllium	- -	mg/kg	1.22	0.803	0.698	0.839	0.522	0.733	0.873
Cadmium	390	mg/kg	37.7	9.26	30.6	40.7	30.2	61.5	88.7
Calcium	- -	mg/kg	7720	10100	7660	6470	3940	6070	12200
Chromium	3900	mg/kg	21.0	16.5	16.5	17.8	13.1	12.5	20.3
Cobalt	47000	mg/kg	10.9	7.08	8.38	8.33	6.20	6.53	9.86
Copper	31000	mg/kg	60.3	35.2	48.9	63.6	43.5	66.7	108
Iron	230000	mg/kg	24600	18400	17900	19700	16900	16800	24800
Lead	1200	mg/kg	306	173	270	434	400	609	464
Magnesium	- -	mg/kg	2880	6190	2670	3880	1630	2060	5290
Manganese	18000	mg/kg	923	659	723	720	829	738	893
Mercury	78	mg/kg	0.333 J	0.139 J	0.0648 J	0.198 J	0.0933 J	0.379 J	0.102 J
Nickel	16000	mg/kg	24.9	18.4	17.2	18.2	12.9	13.2	18.9
Potassium	- -	mg/kg	2210	1800	1580	1670	970	1060	2280
Selenium	3900	mg/kg	1.23	1.08 U	1.10 U	1.13 U	1.10 U	1.35	1.50
Silver	3900	mg/kg	0.952 B	0.538 B	0.917 B	1.23 B	0.793 B	1.25 B	2.11 B
Sodium	- -	mg/kg	188	67.7 B	44.8 B	50.0 B	44.0 B	110 U	52.0 B
Thallium	- -	mg/kg	1.08 U	1.08 U	1.10 U	1.13 U	1.10 U	1.10 U	1.14
Vanadium	- -	mg/kg	32.8	25.7	27.3	27.6	20.1	20.9	31.2
Zinc	230000	mg/kg	2690	1550	2690	3150	2710	3230	6330
Miscellaneous									
Moisture Code 086	- -	%	7.5	7	9.2	11.7	9.2	9	8.4
pH Code 067	- -	Std. Units	7.1	7.2	7.4	7.2	6.4	6.6	7.1

Notes:
NA - not available
DW - dry weight

TABLE 2

Summary of Composite Sample XRF and Laboratory Analytical Results

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois

Sample ID:	Residential RAL	Units	OU-SS-11-COMP2(0-1)	OU-SS-11-COMP3(12-18)	OU-SS-12-COMP1(0-1)	OU-SS-12-COMP7(1-6)	OU-SS-12-COMP8(1-6)	OU-SS-12-COMP5(6-12)	OU-SS-11-COMP2(6-12)
Sample Depth (inches):			0 - 1	12 - 18	0 - 1	1 - 6	1 - 6	6 - 12	6 - 12
Date Collected:			06/09/05	06/09/05	06/10/05	06/10/05	06/10/05	06/13/05	06/13/05
Metals - XRF (USEPA SW-846 6200)									
Arsenic	43	mg/kg	13.6 U	25.5 J	12.6 J	18.7 J	12.8 U	26.7 J	12.8 J
Barium	55000	mg/kg	1200 J	482	452	1650	834	683	645
Cadmium	390	mg/kg	81.5	44.3 U	38.6 U	87.0	62.6	44.7	39.9 U
Chromium	3900	mg/kg	124 U	143 U	110 U	124 U	117 U	125 U	117 U
Cobalt	47000	mg/kg	138 JQ	186 U	108 JQ	126 U	112 U	156 U	120 U
Copper	31000	mg/kg	62.7 J	59.9 J	22.8 J	62.2 J	48.0 J	34.9	26.8
Iron	230000	mg/kg	24900	46600	17300 U	25700	19800 U	36500	22800
Lead	1200	mg/kg	365 J	671 J	164 J	306 J	332 J	244	139
Manganese	18000	mg/kg	508 J	589 J	537 J	576 J	661 J	584 UJ	409 UJ
Mercury	78	mg/kg	11.5 UJ	21.9 JQ	9.23 UJ	10.8 UJ	10.7 UJ	24.4 J	19.1 JQ
Nickel	16000	mg/kg	26.9 UJ	34.0 U	22.6 U	27.9	24.1 U	29.8 U	25.2 U
Selenium	3900	mg/kg	3.22 U	3.98 U	2.75 U	2.90 U	3.06 U	3.11 U	3.05 U
Silver	3900	mg/kg	28.2 UJ	31.1 UJ	26.9 UJ	26.7 UJ	27.2 UJ	28.0 UJ	27.8 UJ
Zinc	230000	mg/kg	4270	3970	2020	4430	3420	1200	592
Metals (USEPA SW-846 6000/7000)									
Aluminum	- -	mg/kg	12100	14700	11800	6800	6010	11500	10300
Antimony	- -	mg/kg	6.97 U	7.35 U	6.94 UJ	2.63 J	6.70 UJ	6.47 UJ	6.86 UJ
Arsenic	43	mg/kg	14.2	21.6	7.45	15.1	10.9	14.4	8.62
Barium	55000	mg/kg	2260 J	688 J	632	2000	1230	693	519
Beryllium	- -	mg/kg	0.805	1.92	0.840	0.735	0.551	1.75	0.953
Cadmium	390	mg/kg	52.6	15.6	17.0	47.6	42.6	6.86	3.69
Calcium	- -	mg/kg	10500	9680	7880	5760	3020	14500	15300
Chromium	3900	mg/kg	20.4	24.3	19.8 J	14.1 J	12.2 J	20.4 J	17.5 J
Cobalt	47000	mg/kg	8.39	8.78	6.90	5.10 B	5.01 B	8.10	7.42
Copper	31000	mg/kg	70.2	66.3	27.9 J	57.9 J	44.2 J	30.2 J	25.9 J
Iron	230000	mg/kg	22100	28400	19100	18100	17800	27600	19000
Lead	1200	mg/kg	346	567	147	297	313	181	115
Magnesium	- -	mg/kg	5100	3260	2280	2060	1600	7190	8830
Manganese	18000	mg/kg	695	676	690	576	693	632	487
Mercury	78	mg/kg	0.115 J	0.312 J	0.0267 B	0.0763 B	0.0639 B	0.173	0.159
Nickel	16000	mg/kg	18.4	25.4	14.4	14.2	12.6	23.1	18.1
Potassium	- -	mg/kg	2190	2450	1780	1020	799	1980	1900
Selenium	3900	mg/kg	1.12 B	1.31	1.16 U	1.05 U	1.12 U	1.08 U	1.14 U
Silver	3900	mg/kg	1.21 B	1.49 B	0.711 B	1.31 B	0.995 B	0.572 B	0.430 B
Sodium	- -	mg/kg	161	301	279	163	142 U	296	155 U
Thallium	- -	mg/kg	1.16 U	1.91	1.16 U	1.05 U	1.12 U	1.08 U	1.14 U
Vanadium	- -	mg/kg	30.8	34.5	29.0	22.0	19.5	30.7	25.8
Zinc	230000	mg/kg	3530	2790	1650	3370	3190	821	446
Miscellaneous									
Moisture Code 086	- -	%	13.9	18.4	13.5	4.7	10.5	7.3	12.6
pH Code 067	- -	Std. Units	6.3	7.2	6.7	6.7	6.9	7.5	7.8

Notes:
NA - not available
DW - dry weight

TABLE 2

Summary of Composite Sample XRF and Laboratory Analytical Results

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois

Sample ID			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Sample Depth (inches):			0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1
Date Collected:	Residential RAL	Units	06/13/05	06/13/05	06/14/05	06/14/05	06/14/05	06/14/05	06/14/05
Metals - XRF (USEPA SW-846 6200)									
Arsenic	43	mg/kg	20.8 J	17.9 J	36.8 J	36.9 U	15.2 J	16.4 J	22.3 J
Barium	55000	mg/kg	707	1360 J	1820 J	2760 J	1010 J	1100 J	1070 J
Cadmium	390	mg/kg	39.5 U	86.3	76.5	76.4	59.4	83.3	99.9
Chromium	3900	mg/kg	117 U	111 U	136 U	143 U	119 U	118 U	119 U
Cobalt	47000	mg/kg	119 U	108 U	152 U	129 U	120 U	116 U	120 U
Copper	31000	mg/kg	39.8	41.0 J	54.5 J	61.2 J	44.9	54.2	62.8
Iron	230000	mg/kg	22200 U	18600 U	32800	22300 U	22800 U	21100 U	22100 U
Lead	1200	mg/kg	360	267	574	2620	304	466	426
Manganese	18000	mg/kg	601 UJ	646 J	570	702	1230 J	882 J	1020 J
Mercury	78	mg/kg	10.7 UJ	10.4 UJ	17.0 JQ	13.7 UJ	11.1 UJ	11.4 UJ	11.5 UJ
Nickel	16000	mg/kg	26.0 U	23.6 U	29.8 U	28.7 U	25.7 U	25.5 U	25.5 U
Selenium	3900	mg/kg	3.19 U	2.92 U	3.64 U	5.19 U	3.14 U	3.01 U	3.27 U
Silver	3900	mg/kg	27.6 UJ	26.3 UJ	29.1 UJ	30.6 UJ	27.4 UJ	27.2 UJ	27.7 UJ
Zinc	230000	mg/kg	2400	2580 J	4100	5140	4150	4330	4970
Metals (USEPA SW-846 6000/7000)									
Aluminum	- -	mg/kg	7100	8860	9070	8580	11700	9670	10200
Antimony	- -	mg/kg	23.4 J	6.40 U	6.81 U	7.19 U	6.62 U	6.55 U	6.75 U
Arsenic	43	mg/kg	7.78	16.9	15.2	12.7	14.6	10.7	11.0
Barium	55000	mg/kg	1340	2740	3840	5620	1520	1910	1880
Beryllium	- -	mg/kg	0.774	0.719	1.14	0.708	0.748	0.577	0.612
Cadmium	390	mg/kg	24.9	28.6	44.7	39.3	28.5	53.3	63.6
Calcium	- -	mg/kg	21100	15600	16700	24900	8700	8070	9230
Chromium	3900	mg/kg	14.7 J	17.2	16.6	16.9	18.9	18.4	16.4
Cobalt	47000	mg/kg	5.52 B	7.97	7.41	7.81	8.14	9.66	7.79
Copper	31000	mg/kg	46.1 J	40.7	59.8	63.5	46.6	52.0	66.9
Iron	230000	mg/kg	16100	35200	23000	19000	26600	17500	18000
Lead	1200	mg/kg	1890	357	434	1670	249	417	375
Magnesium	- -	mg/kg	10900	8350	7810	13000	3890	3920	4450
Manganese	18000	mg/kg	486	704	558	563	1150	911	1040
Mercury	78	mg/kg	0.121	0.0638 B	0.171	0.150	0.136	0.243	0.302
Nickel	16000	mg/kg	15.2	14.5	16.1	15.5	17.3	15.7	14.5
Potassium	- -	mg/kg	1270	2040	1830	1680	2120	1850	1890
Selenium	3900	mg/kg	1.18 U	1.07 U	1.54	1.20 U	1.10 U	1.09 U	1.16
Silver	3900	mg/kg	0.967 B	0.649 J	1.30 B	1.39 B	0.809 B	1.15 B	1.50 B
Sodium	- -	mg/kg	288	121 J	154 J	151 J	65.8 J	80.0 J	90.4 J
Thallium	- -	mg/kg	1.18 U	1.34	1.17	1.20 U	1.18	1.09 U	1.13
Vanadium	- -	mg/kg	20.1	24.9	24.8	24.9	43.4	25.8	28.0
Zinc	230000	mg/kg	1830	2100 J	3110 J	3720 J	3170 J	3310 J	3580 J
Miscellaneous									
Moisture Code 086	- -	%	15.1	6.3	11.9	16.6	9.3	8.4	11.1
pH Code 067	- -	Std. Units	6.7	6.8	6.8	6.9	7	6.6	6.5

Notes:
NA - not available
DW - dry weight

TABLE 2

Summary of Composite Sample XRF and Laboratory Analytical Results

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois

Sample ID			OU4SS-16-COMP4(0-1)	OU4SS-16-COMP1(0-6)	OU4SS-16-COMP2(0-6)	OU4SS-16-COMP3(0-6)	OU4SS-16-COMP4(12-18)	OU4SS-16-COMP5(0-1)	OU4SS-17-COMP1(0-6)
Sample Depth (Inches):			0 - 1	1 - 6	1 - 6	1 - 6	12 - 18	0 - 1	1 - 6
Date Collected:	Residential RAL	Units	06/14/05	06/15/05	06/15/05	06/15/05	06/15/05	06/15/05	06/15/05
Metals - XRF (USEPA SW-846 6200)									
Arsenic	43	mg/kg	37.7 J	25.9 J	14.2 J	16.0 J	15.0 J	31.9 U	15.7 J
Barium	55000	mg/kg	1300 J	1790 J	2030 J	1700 J	319 UJ	1390 J	2470 J
Cadmium	390	mg/kg	95.4	37.9 U	63.0	67.5	39.6 U	58.5	60.9
Chromium	3900	mg/kg	132 U	122 U	123 U	125 U	121 U	123 U	165 J
Cobalt	47000	mg/kg	132 U	125 U	109 U	175 JQ	136 U	113 U	120 U
Copper	31000	mg/kg	58.1	42.8	40.9	54.7	27.1	52.9	39.4 J
Iron	230000	mg/kg	25000 U	24200	18300 U	24300	28400	17700 U	20400 U
Lead	1200	mg/kg	924	582	351	469	323	2120	473 J
Manganese	18000	mg/kg	853 J	663 J	504 J	640 J	751 J	345 UJ	627 UJ
Mercury	78	mg/kg	12.8 UJ	11.0 UJ	10.6 UJ	11.5 UJ	21.2 JQ	12.5 UJ	10.8 UJ
Nickel	16000	mg/kg	28.5 U	24.9 U	24.3 U	26.6 U	27.4 U	24.8 U	25.7 U
Selenium	3900	mg/kg	4.05 U	3.26 U	3.02 U	3.19 U	3.16 U	4.55 U	3.41 U
Silver	3900	mg/kg	28.9 UJ	26.6 UJ	27.3 UJ	27.7 UJ	27.7 UJ	29.0 UJ	28.2 U
Zinc	230000	mg/kg	6490	2650	2930	3170	719	2840	2950
Metals (USEPA SW-846 6000/7000)									
Aluminum	- -	mg/kg	10700	11000	10200	11400	12900	8450	10300
Antimony	- -	mg/kg	6.97 U	6.18 U	6.43 U	6.51 U	6.74 U	7.24 U	6.63 U
Arsenic	43	mg/kg	11.9	13.3	11.8	14.9	10.6	13.1	12.4
Barium	55000	mg/kg	2550	3360	3960	3820	219	3100	4890
Beryllium	- -	mg/kg	0.585	0.770	0.713	0.976	1.52	0.548	0.733
Cadmium	390	mg/kg	57.9	24.2	33.1	46.5	2.86	38.0	23.7
Calcium	- -	mg/kg	16900	5820	6660	6050	4120	15900	29300
Chromium	3900	mg/kg	33.5	18.6	15.7	18.3	19.4	19.3	22.7
Cobalt	47000	mg/kg	9.16	8.10	7.23	9.08	9.17	7.69	7.84
Copper	31000	mg/kg	110	46.7	50.5	60.3	25.0	75.5	46.8
Iron	230000	mg/kg	21600	20100	15900	25300	22200	17300	17000
Lead	1200	mg/kg	1350	558	323	438	226	2420	391
Magnesium	- -	mg/kg	6550	3610	3840	3010	2240	8870	14800
Manganese	18000	mg/kg	820	631	528	768	861	651	589
Mercury	78	mg/kg	0.370	0.216	0.162	0.297	0.485	0.137	0.275
Nickel	16000	mg/kg	17.4	17.5	14.1	17.1	21.0	12.6	17.4
Potassium	- -	mg/kg	2020	2080	1990	2420	2450	1450	2570
Selenium	3900	mg/kg	1.27	1.09	1.07 U	1.58	1.12 U	1.18 B	1.10 U
Silver	3900	mg/kg	1.07 B	1.11 B	1.36 B	1.27 B	2.25 U	1.25 B	0.896 B
Sodium	- -	mg/kg	207 J	69.6 J	81.5 J	93.2 J	178 J	123 J	85.6 J
Thallium	- -	mg/kg	1.16 U	1.03 U	1.07 U	1.37	1.12 U	1.21 U	1.10 U
Vanadium	- -	mg/kg	27.9	29.1	24.3	29.1	30.8	24.7	24.4
Zinc	230000	mg/kg	5530 J	2150 J	2480 J	3160 J	567 J	2400 J	2160 J
Miscellaneous									
Moisture Code 086	- -	%	13.9	2.9	6.7	7.8	11	17.1	9.5
pH Code 067	- -	Std. Units	6.7	7	6.7	6.4	6.8	6.5	7.2

Notes:
NA - not available
DW - dry weight

TABLE 2

Summary of Composite Sample XRF and Laboratory Analytical Results

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois

Sample ID Sample Depth (inches): Date Collected:	Residential RAL	Units	084S9-17-COMP2(1-8) 1-8 06/16/05
Metals - XRF (USEPA SW-846 6200)			
Arsenic	43	mg/kg	25.6 J
Barium	55000	mg/kg	1150 J
Cadmium	390	mg/kg	58.4
Chromium	3900	mg/kg	121 U
Cobalt	47000	mg/kg	126 U
Copper	31000	mg/kg	37.6 J
Iron	230000	mg/kg	24600
Lead	1200	mg/kg	375 J
Manganese	18000	mg/kg	585 UJ
Mercury	78	mg/kg	10.4 UJ
Nickel	16000	mg/kg	25.9 U
Selenium	3900	mg/kg	3.00 U
Silver	3900	mg/kg	27.1 U
Zinc	230000	mg/kg	2810
Metals (USEPA SW-846 6000/7000)			
Aluminum	- -	mg/kg	8930
Antimony	- -	mg/kg	6.38 U
Arsenic	43	mg/kg	16.1
Barium	55000	mg/kg	1830
Beryllium	- -	mg/kg	0.816
Cadmium	390	mg/kg	19.8
Calcium	- -	mg/kg	19000
Chromium	3900	mg/kg	20.0
Cobalt	47000	mg/kg	6.86
Copper	31000	mg/kg	47.0
Iron	230000	mg/kg	19200
Lead	1200	mg/kg	269
Magnesium	- -	mg/kg	9800
Manganese	18000	mg/kg	542
Mercury	78	mg/kg	0.101 B
Nickel	16000	mg/kg	20.2
Potassium	- -	mg/kg	1800
Selenium	3900	mg/kg	1.06 U
Silver	3900	mg/kg	0.648 B
Sodium	- -	mg/kg	94.1 J
Thallium	- -	mg/kg	1.06 U
Vanadium	- -	mg/kg	23.4
Zinc	230000	mg/kg	2030 J
Miscellaneous			
Moisture Code 086	- -	%	6
pH Code 067	- -	Std. Units	7.4

Notes:
NA - not available
DW - dry weight

TABLE 3

Summary of Discrete Sample XRF and Laboratory Analytical Results

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois

Sample ID: Sample Depth (inches): Date Collected:	Residential RAL	Units (as DW)	OU4-SS-01-08(1-6) 1-6 06/01/05	OU4-SS-01-11(6-12) 6-12 06/01/05	OU4-SS-01-16(12-18) 12-18 06/01/05	OU4-SS-03-13(12-18) 12-18 06/02/05	OU4-SS-03-18(0-1) 0-1 06/02/05	OU4-SS-05-09(1-6) 1-6 06/06/05	OU4-SS-05-09(6-12) 6-12 06/06/05
Metals - XRF (USEPA SW-846 6200)									
Arsenic	43	mg/kg	65.3	69.0	74.5	69.2 J	54.2 J	169 J	85.4 J
Barium	55000	mg/kg	NA	NA	NA	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA	NA	NA	NA
Metals (USEPA SW-846 6000/7000)									
Aluminum	- -	mg/kg	10700	NA	NA	NA	NA	9620	NA
Antimony	- -	mg/kg	6.72 U	NA	NA	NA	NA	6.68 U	NA
Arsenic	43	mg/kg	38.7	50.8 [47.6 J]	40.4 [35.0 J]	43.4 [50.5 J]	9.02 [8.38 J]	111	55.7 [66.1 J]
Barium	55000	mg/kg	3040	NA	NA	NA	NA	2650	NA
Beryllium	- -	mg/kg	1.13	NA	NA	NA	NA	0.587	NA
Cadmium	390	mg/kg	25.4	NA	NA	NA	NA	17.9	NA
Calcium	- -	mg/kg	4080	NA	NA	NA	NA	19000	NA
Chromium	3900	mg/kg	16.6	NA	NA	NA	NA	90.4	NA
Cobalt	47000	mg/kg	4.91 J	NA	NA	NA	NA	4.45 J	NA
Copper	31000	mg/kg	32.0 J	NA	NA	NA	NA	93.8 J	NA
Iron	230000	mg/kg	23000	NA	NA	NA	NA	17700	NA
Lead	1200	mg/kg	291	NA	NA	NA	NA	532	NA
Magnesium	- -	mg/kg	2370	NA	NA	NA	NA	5930	NA
Manganese	18000	mg/kg	462	NA	NA	NA	NA	469	NA
Mercury	78	mg/kg	0.0850 J	NA	NA	NA	NA	0.174	NA
Nickel	16000	mg/kg	16.2	NA	NA	NA	NA	18.4	NA
Potassium	- -	mg/kg	2050	NA	NA	NA	NA	1970	NA
Selenium	3900	mg/kg	1.12 U	NA	NA	NA	NA	1.11 U	NA
Silver	3900	mg/kg	0.839 J	NA	NA	NA	NA	0.723 J	NA
Sodium	- -	mg/kg	201 J	NA	NA	NA	NA	250 J	NA
Thallium	- -	mg/kg	1.12 U	NA	NA	NA	NA	1.17	NA
Vanadium	- -	mg/kg	23.7	NA	NA	NA	NA	23.1	NA
Zinc	230000	mg/kg	1880	NA	NA	NA	NA	1780	NA
Miscellaneous									
Moisture Code 086	- -	%	10.7	8.3 [6.8]	6.2 [6.3]	13.9 [13.6]	16.9 [17.4]	10.2	7.8 [7]
pH Code 067	- -	Std. Units	6.2	7.7 [7.7]	8.1 [8]	7.4 [7.3]	5.7 [5.4]	7.2	7.9 [7.6]

Notes:
NA - not available
DW - dry weight

TABLE 3

Summary of Discrete Sample XRF and Laboratory Analytical Results

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois

Sample ID Sample Depth (inches): Date Collected	Residential RSAL	Units (as DW)	OU4-SS-05-15(1-6) 1-6 06/27/05	OU4-SS-05-15(6-12) 6-12 06/27/05	OU4-SS-05-15(12-18) 12-18 06/27/05	OU4-SS-06-22(6-12) 6-12 06/07/05	OU4-SS-08-12(1-6) 1-6 06/28/04	OU4-SS-09-05(1-6) 1-6 06/08/05	OU4-SS-09-07(0-1) 0-1 06/08/05
Metals - XRF (USEPA SW-846 6200)									
Arsenic	43	mg/kg	20.0 J	9.91 U	10.2 J	66.7	69.0 J	54.6	50.5
Barium	55000	mg/kg	NA	NA	NA	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	NA	287	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA	NA	NA	NA
Metals (USEPA SW-846 6000/7000)									
Aluminum	--	mg/kg	8240	11900	9430	NA	NA	10800	NA
Antimony	--	mg/kg	7.43 UJ	7.00 UJ	6.77 UJ	NA	NA	6.60 U	NA
Arsenic	43	mg/kg	12.4	12.5	10.5	28.0 [24.7 J]	29.6	31.6	25.8
Barium	55000	mg/kg	4530	1300	359	NA	NA	2490	NA
Beryllium	--	mg/kg	0.505	2.24	0.775	NA	NA	1.07	NA
Cadmium	390	mg/kg	17.1	8.89	3.75	NA	NA	23.0	NA
Calcium	--	mg/kg	25400	10400	2960	NA	NA	11300	NA
Chromium	3900	mg/kg	20.4 J	19.1 J	18.4 J	NA	NA	17.4	NA
Cobalt	47000	mg/kg	2.35 J	8.45	6.73	NA	NA	7.12	NA
Copper	31000	mg/kg	33.6	27.1	19.2	NA	NA	121 J	NA
Iron	230000	mg/kg	14200	27300	29700	NA	NA	27800	NA
Lead	1200	mg/kg	253	214	67.0	NA	NA	609	NA
Magnesium	--	mg/kg	8730	4870	2920	NA	NA	4100	NA
Manganese	18000	mg/kg	403	576	631	NA	NA	893	NA
Mercury	78	mg/kg	0.111 J	0.194 J	0.155 J	NA	NA	0.456	NA
Nickel	16000	mg/kg	13.6	26.8	16.5	NA	NA	19.4	NA
Potassium	--	mg/kg	1790	1780	1530	NA	NA	2210	NA
Selenium	3900	mg/kg	1.24 U	1.17 U	1.13 U	NA	NA	1.10 U	NA
Silver	3900	mg/kg	0.700 J	0.666 J	0.404 J	NA	NA	2.95	NA
Sodium	--	mg/kg	325	411	138	NA	NA	256 J	NA
Thallium	--	mg/kg	1.18 J	1.52	1.38	NA	NA	1.52	NA
Vanadium	--	mg/kg	20.2	26.9	32.8	NA	NA	25.6	NA
Zinc	230000	mg/kg	1380	1320	468	NA	NA	4750	NA
Miscellaneous									
Moisture Code 086	--	%	19.3	14.3	11.4	17.7 [16.8]	17.9	9.1	9.7
pH Code 067	--	Std. Units	6.8	7	7.5	6.9 [6.6]	6.5	7.2	7.5

Notes:
NA - not available
DW - dry weight

TABLE 3

Summary of Discrete Sample XRF and Laboratory Analytical Results

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois

Sample ID Sample Depth (Inches) Date Collected	Residential RAL	Units (as DW)	OU4-SS-09-07(1-6) 1 - 6 06/08/05	OU4-SS-10-10(1-6) 1 - 6 06/09/05	OU4-SS-11-01(12-18) 12 - 18 06/09/05	OU4-SS-11-02(12-18) 12 - 18 06/09/05	OU4-SS-11-12(12-18) 12 - 18 06/09/05	OU4-SS-13-03(6-12) 6 - 12 06/24/05	OU4-SS-14-12(1-6) 1 - 6 06/23/05
Metals - XRF (USEPA SW-846 6200)									
Arsenic	43	mg/kg	69.2	12.1 U	75.3	96.5	75.8	67.5 J	47.1 J
Barium	55000	mg/kg	NA	278 UJ	NA	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	39.0 U	NA	NA	NA	NA	NA
Chromium	3900	mg/kg	NA	107 U	NA	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	105 U	NA	NA	NA	NA	NA
Copper	31000	mg/kg	NA	48.1 J	NA	NA	NA	NA	NA
Iron	230000	mg/kg	NA	17200 U	NA	NA	NA	NA	NA
Lead	1200	mg/kg	NA	292	NA	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	533 UJ	NA	NA	NA	NA	NA
Mercury	78	mg/kg	NA	9.06 UJ	NA	NA	NA	92.7 J	NA
Nickel	16000	mg/kg	NA	22.9 U	NA	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	3.02 U	NA	NA	NA	NA	NA
Silver	3900	mg/kg	NA	27.2 UJ	NA	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	954	NA	NA	NA	NA	NA
Metals (USEPA SW-846 6000/7000)									
Aluminum	- -	mg/kg	NA	10500	NA	NA	NA	12800	8770 [9530]
Antimony	- -	mg/kg	NA	6.79 U	NA	NA	NA	1.15 J	1.03 J [1.44 J]
Arsenic	43	mg/kg	40.7	7.81	17.0	23.3	43.7	37.7	28.9 [29.4]
Barium	55000	mg/kg	NA	589 J	NA	NA	NA	2000	4510 [4280]
Beryllium	- -	mg/kg	NA	0.613	NA	NA	NA	4.78	2.28 [2.22]
Cadmium	390	mg/kg	NA	8.26	NA	NA	NA	18.6	30.6 [27.6]
Calcium	- -	mg/kg	NA	14700	NA	NA	NA	14500	19300 J [19700 J]
Chromium	3900	mg/kg	NA	27.1	NA	NA	NA	20.3	15.9 J [16.6 J]
Cobalt	47000	mg/kg	NA	7.25	NA	NA	NA	11.3 J	14.6 [8.66]
Copper	31000	mg/kg	NA	53.4	NA	NA	NA	55.1 J	77.1 J [138 J]
Iron	230000	mg/kg	NA	18100	NA	NA	NA	43800	28900 [29800]
Lead	1200	mg/kg	NA	254	NA	NA	NA	451	517 [469]
Magnesium	- -	mg/kg	NA	6640	NA	NA	NA	2820	8170 [8300]
Manganese	18000	mg/kg	NA	569	NA	NA	NA	725	1370 [626]
Mercury	78	mg/kg	NA	0.177 J	NA	NA	NA	0.383	0.214 [0.223]
Nickel	16000	mg/kg	NA	19.9	NA	NA	NA	34.8 J	32.8 [22.8]
Potassium	- -	mg/kg	NA	1880	NA	NA	NA	2080	1600 J [1650 J]
Selenium	3900	mg/kg	NA	1.13 U	NA	NA	NA	1.13 U	1.09 U [1.10 U]
Silver	3900	mg/kg	NA	0.603 B	NA	NA	NA	0.579 J	1.28 J [1.09 J]
Sodium	- -	mg/kg	NA	103 B	NA	NA	NA	1080	201 [274]
Thallium	- -	mg/kg	NA	1.13 U	NA	NA	NA	1.13 U	2.22 [1.86]
Vanadium	- -	mg/kg	NA	25.8	NA	NA	NA	36.0	24.9 [27.8]
Zinc	230000	mg/kg	NA	671	NA	NA	NA	2300	3470 [3140]
Miscellaneous									
Moisture Code 086	- -	%	6.9	11.6	16.5	9.6	21.3	11.2	8.4 [8.8]
pH Code 067	- -	Std. Units	7.7	7.1	7.6	7.6	7.7	7.5	7 [7.2]

Notes:
NA - not available
DW - dry weight

TABLE 3

Summary of Discrete Sample XRF and Laboratory Analytical Results

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois

Sample ID Sample Depth (Inches) Date Collected	Residential RAL	Units (as DW)	OU4-SS-14-17(6-12) 6 - 12 06/13/05	OU4-SS-14-18(1-6) 1 - 6 06/23/05	OU4-SS-14-19(0-1) 0 - 1 06/23/05	OU4-SS-14-20(0-1) 0 - 1 06/23/05	OU4-SS-15-08(0-1) 0 - 1 06/23/05	OU4-SS-15-17(1-6) 1 - 6 06/23/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	14.9 J	71.9 J	54.8 J	64.3 J	65.0 J	85.3 J
Barium	55000	mg/kg	1160 J	NA	NA	NA	NA	NA
Cadmium	390	mg/kg	38.0 U	NA	NA	NA	NA	NA
Chromium	3900	mg/kg	113 U	NA	NA	NA	NA	NA
Cobalt	47000	mg/kg	106 U	NA	NA	NA	NA	NA
Copper	31000	mg/kg	18.4 J	NA	NA	NA	NA	NA
Iron	230000	mg/kg	17900 U	NA	NA	NA	NA	NA
Lead	1200	mg/kg	166	NA	NA	NA	NA	NA
Manganese	18000	mg/kg	441 U	NA	NA	NA	NA	NA
Mercury	78	mg/kg	11.3 JQ	NA	NA	NA	NA	NA
Nickel	16000	mg/kg	25.9 JQ	NA	NA	NA	NA	NA
Selenium	3900	mg/kg	2.72 U	NA	NA	NA	NA	NA
Silver	3900	mg/kg	26.7 U	NA	NA	NA	NA	NA
Zinc	230000	mg/kg	1610	NA	NA	NA	NA	NA
Metals (USEPA SW-846 6000/7000)								
Aluminum	- -	mg/kg	9990	NA	NA	NA	NA	NA
Antimony	- -	mg/kg	6.47 U	NA	NA	NA	NA	NA
Arsenic	43	mg/kg	18.2	15.7	20.7	14.5	12.5	19.3
Barium	55000	mg/kg	2140	NA	NA	NA	NA	NA
Beryllium	- -	mg/kg	0.743	NA	NA	NA	NA	NA
Cadmium	390	mg/kg	17.2	NA	NA	NA	NA	NA
Calcium	- -	mg/kg	13700	NA	NA	NA	NA	NA
Chromium	3900	mg/kg	16.8	NA	NA	NA	NA	NA
Cobalt	47000	mg/kg	9.01	NA	NA	NA	NA	NA
Copper	31000	mg/kg	33.0	NA	NA	NA	NA	NA
Iron	230000	mg/kg	16900	NA	NA	NA	NA	NA
Lead	1200	mg/kg	146	NA	NA	NA	NA	NA
Magnesium	- -	mg/kg	6990	NA	NA	NA	NA	NA
Manganese	18000	mg/kg	844	NA	NA	NA	NA	NA
Mercury	78	mg/kg	0.0484 B	NA	NA	NA	NA	NA
Nickel	16000	mg/kg	17.6	NA	NA	NA	NA	NA
Potassium	- -	mg/kg	2280	NA	NA	NA	NA	NA
Selenium	3900	mg/kg	1.08 U	NA	NA	NA	NA	NA
Silver	3900	mg/kg	2.16 U	NA	NA	NA	NA	NA
Sodium	- -	mg/kg	155 J	NA	NA	NA	NA	NA
Thallium	- -	mg/kg	1.05 J	NA	NA	NA	NA	NA
Vanadium	- -	mg/kg	27.1	NA	NA	NA	NA	NA
Zinc	230000	mg/kg	1570 J	NA	NA	NA	NA	NA
Miscellaneous								
Moisture Code 086	- -	%	7.2	12.6	19.2 [19.2]	14.3 [14.3]	9.9 [9.9]	14.1
pH Code 067	- -	Std. Units	7.8	6.9	6.6 [6.7]	6.4 [6.5]	6.6 [6.6]	7.1

Notes:
NA - not available
DW - dry weight

TABLE 3

Summary of Discrete Sample XRF and Laboratory Analytical Results

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois

Sample ID Sample Depth (Inches) Date Collected	Residential RAL	Units (as DW)	OU4-SS-16-15(8-12) 8 - 12 08/24/05	OU4-SS-16-16(8-12) 8 - 12 08/23/05	OU4-SS-16-17(12-18) 12 - 18 08/24/05	OU4-SS-16-19(1-3) 1 - 3 08/23/06	OU4-SS-16-21(0-1) 0 - 1 08/23/06	OU4-SS-17-10(12-18) 12 - 18 08/23/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	55.5 J	56.3	36.4 U	75.9 J	160 J	88.2 J
Barium	55000	mg/kg	NA	NA	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA	NA	NA
Mercury	78	mg/kg	NA	NA	152 J	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA	NA	NA
Metals (USEPA SW-846 6000/7000)								
Aluminum	- -	mg/kg	NA	NA	NA	11700	NA	NA
Antimony	- -	mg/kg	NA	NA	NA	6.44 U	NA	NA
Arsenic	43	mg/kg	29.9 [31.1]	42.1	NA	41.5	18.6	78.5 J
Barium	55000	mg/kg	NA	NA	NA	1640	NA	NA
Beryllium	- -	mg/kg	NA	NA	NA	1.80	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	29.3	NA	NA
Calcium	- -	mg/kg	NA	NA	NA	21000	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	19.1	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	9.63	NA	NA
Copper	31000	mg/kg	NA	NA	NA	63.5	NA	NA
Iron	230000	mg/kg	NA	NA	NA	30100	NA	NA
Lead	1200	mg/kg	NA	NA	NA	453	NA	NA
Magnesium	- -	mg/kg	NA	NA	NA	6810	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	684	NA	NA
Mercury	78	mg/kg	NA	NA	1.88	0.266	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	25.7 J	NA	NA
Potassium	- -	mg/kg	NA	NA	NA	2480	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	1.07 U	NA	NA
Silver	3900	mg/kg	NA	NA	NA	1.74 J	NA	NA
Sodium	- -	mg/kg	NA	NA	NA	123 U	NA	NA
Thallium	- -	mg/kg	NA	NA	NA	1.26	NA	NA
Vanadium	- -	mg/kg	NA	NA	NA	29.6	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	2430 J	NA	NA
Miscellaneous								
Moisture Code 086	- -	%	9.2 [10.8]	14.6	20.1	6.9	24.9	13.7
pH Code 067	- -	Std. Units	6.4 [6.5]	6.8	6.8	7.3	6.6	7.3

Notes:
NA - not available
DW - dry weight

TABLE 4

Data Screening Summary for Soils

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois

Constituent	RAL Screening Value	XRF		Laboratory	
		Maximum Concentration	# Exceeding RAL	Maximum Concentration	# Exceeding RAL
Composite Samples					
Arsenic	43	47.4	2/280	26.8	0/106
Barium	55,000	4,946	0/280	8,260	0/62
Cadmium	390	150	0/280	138	0/63
Chromium	3,900	207	0/280	33.5	0/62
Cobalt	47,000	256	0/242	12.8	0/62
Copper	31,000	142	0/280	146	0/62
Iron	230,000	56,877	0/280	35,200	0/62
Lead	1,200	2,620	2/280	2,420	4/62
Manganese	18,000	1,304	0/280	1,760	0/61
Mercury	78	24.4	0/280	0.485	0/62
Nickel	16,000	42.2	0/280	25.4	0/62
Selenium	3,900	2.60	0/280	2.68	0/62
Silver	3,900	16.0	0/280	3.13	0/62
Zinc	230,000	12,189	0/280	9,980	0/62
Discrete Samples					
Arsenic	43	169	27/913	114	6/29
Barium	55,000	2,014	0/16	4,395	0/8
Cadmium	390	287	0/70	29.1	0/8
Chromium	3,900	58.5	0/16	87.15	0/8
Cobalt	47,000	66.8	0/16	11.63	0/8
Copper	31,000	48.1	0/16	121	0/8
Iron	230,000	91,383	0/20	43,800	0/8
Lead	1,200	292	0/16	609	0/8
Manganese	18,000	784	0/16	998	0/8
Mercury	78	152	2/31	1.88	0/8
Nickel	16,000	35.7	0/16	34.8	0/8
Selenium	3,900	1.51	0/16	0.565	0/8
Silver	3,900	13.6	0/16	2.95	0/8
Zinc	230,000	2,468	0/16	4,750	0/8

Notes:

1.) All criteria and maximum concentration values are in units of mg/kg.
2.) Includes all composite and discrete sample results.
3.) All duplicates were averaged with their corresponding parent sample.
4.) Non-detects are presented as half the detection limit for this comparison.

TABLE 5

Relative Standard Deviation for XRF Soils Data

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois

Constituent	Range			Average
Composites				
Arsenic	2.53	-	27.99	19.14
Barium	3.70	-	24.21	10.71
Cadmium	8.58	-	23.98	14.87
Chromium*	0.95	-	13.76	4.23
Cobalt*	0.50	-	15.22	4.96
Copper	3.53	-	25.65	9.65
Iron	0.73	-	6.81	2.45
Lead	2.05	-	11.07	5.89
Manganese	3.62	-	27.82	10.16
Mercury**	2.10	-	11.96	4.98
Nickel*	1.10	-	12.95	5.77
Selenium*	1.17	-	4.73	2.65
Silver*	0.28	-	9.84	1.94
Zinc	1.57	-	10.11	4.34
Discrete				
Arsenic	5.88	-	18.84	10.70

Notes:
1.) Relative standard deviation is calculated using the following formula:
RSD = (SD/Mean Concentration) x 100
where:
SD = standard deviation of the concentration for the analyte
Mean Concentration = mean concentration for the analyte
* Values are biased low as calculations are based upon the full detection limits.
** Values are biased low as calculations are based upon the full detection limits, except for one composite sample (OU4-SS-11-COMP3(12-18)) where concentrations were detected at levels higher than the sample detection limit.

TABLE 6a

Summary of Regression Analysis Between Laboratory and XRF Soils Data - Dry Weight

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois

Constituent	R^2	Slope	Y-Intercept
Arsenic	0.60	0.65	0.26
Barium	0.87	1.22	-0.48
Cadmium	0.60	1.35	-0.93
Chromium*	0.89	1.30	-1.40
Cobalt*	0.29	0.47	-0.16
Copper	0.68	0.77	0.41
Iron	0.52	0.54	1.90
Lead	0.81	1.13	-0.34
Manganese	0.70	0.97	0.10
Mercury	0.71	1.00	-2.10
Nickel*	0.37	0.76	0.10
Selenium*	NA	NA	NA
Silver*	NA	NA	NA
Zinc	0.94	1.02	-0.17

Notes:
1.) All constituents are log-transformed and plotted on a linear scale.
2.) Values based on dry weight analysis results.
3.) R^2 = coefficient of determination, which explains the proportion of observed y variation given by the simple linear regression model (y = ax + b).
NA = Not applicable as the constituents do not have detected data pairs within the lab and XRF results.
*Low sample sizes.

TABLE 6b

Summary of Regression Analysis Between Laboratory and XRF Soils Data - Wet Weight

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois

Constituent	R^2	Slope	Y-Intercept
Arsenic	0.61	0.67	0.26
Barium	0.85	1.190	-0.34
Cadmium	0.58	1.380	-0.93
Chromium*	0.88	1.200	-1.20
Cobalt*	0.23	0.400	0.03
Copper	0.65	0.76	0.46
Iron	0.47	0.53	2.00
Lead	0.82	1.12	-0.37
Manganese	0.65	0.95	0.21
Mercury	0.69	1.1	-2.10
Nickel*	0.36	0.76	0.13
Selenium*	NA	NA	NA
Silver*	NA	NA	NA
Zinc	0.94	1.01	-0.12

Notes:
1.) All constituents are log-transformed and plotted on a linear scale.
2.) Values based on dry weight analysis results.
3.) R^2 = coefficient of determination, which explains the proportion of observed y variation given by the simple linear regression model (y = ax + b).
NA = Not applicable as the constituents do not have detected data pairs within the lab and XRF results.
*Low sample sizes.

TABLE 7

Comparison of Laboratory and XRF Soils Data

New Jersey Zinc/ Mobil Chemical Site
DePue, Illinois

	Inferential Statistical Analysis							
Constituent	Number of Samples	Distribution/ Method[2]	p-value[3]	Significantly Different?	Number of Samples	Test Method	p-value[3]	Significantly Different?
Barium (Dry)	59	Wilcoxon Signed Rank Test	<0.001	Yes	58	Two sample paired t-test (parametric)	<0.001	Yes
Barium (Wet)	61	Wilcoxon Signed Rank Test	<0.001	Yes	58	Two sample paired t-test (parametric)	<0.001	Yes
Zinc (Dry)	64	Wilcoxon Signed Rank Test	<0.001	Yes	64	Two sample paired t-test (parametric)	<0.001	Yes
Zinc (Wet)	64	Wilcoxon Signed Rank Test	<0.001	Yes	64	Two sample paired t-test (parametric)	<0.001	Yes

Notes:

1.) XRF and laboratory data were compared using all paired analytical data for all depth intervals.
2.) Data was tested to determined if the data sets are statistically similar using the Wicoxon signed rank test and the paired t-test.
3.) p-value <0.05 = different; p-value 0.05 = similar

TABLE 8

Summary of False Negatives Between Laboratory and XRF Soils Data

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois

Constituent	Number of Paired Samples	Number of False Negatives	Percent False Negatives
Arsenic	120	5	4.2
Barium	58	52	90
Cadmium	44	0	0
Chromium*	6	NA	NA
Cobalt*	6	NA	NA
Copper	63	35	56
Iron	26	1	3.8
Lead	64	9	14
Manganese	32	16	50
Mercury	11	0	0
Nickel*	5	NA	NA
Selenium**	0	NA	NA
Silver**	0	NA	NA
Zinc	64	2	3.1

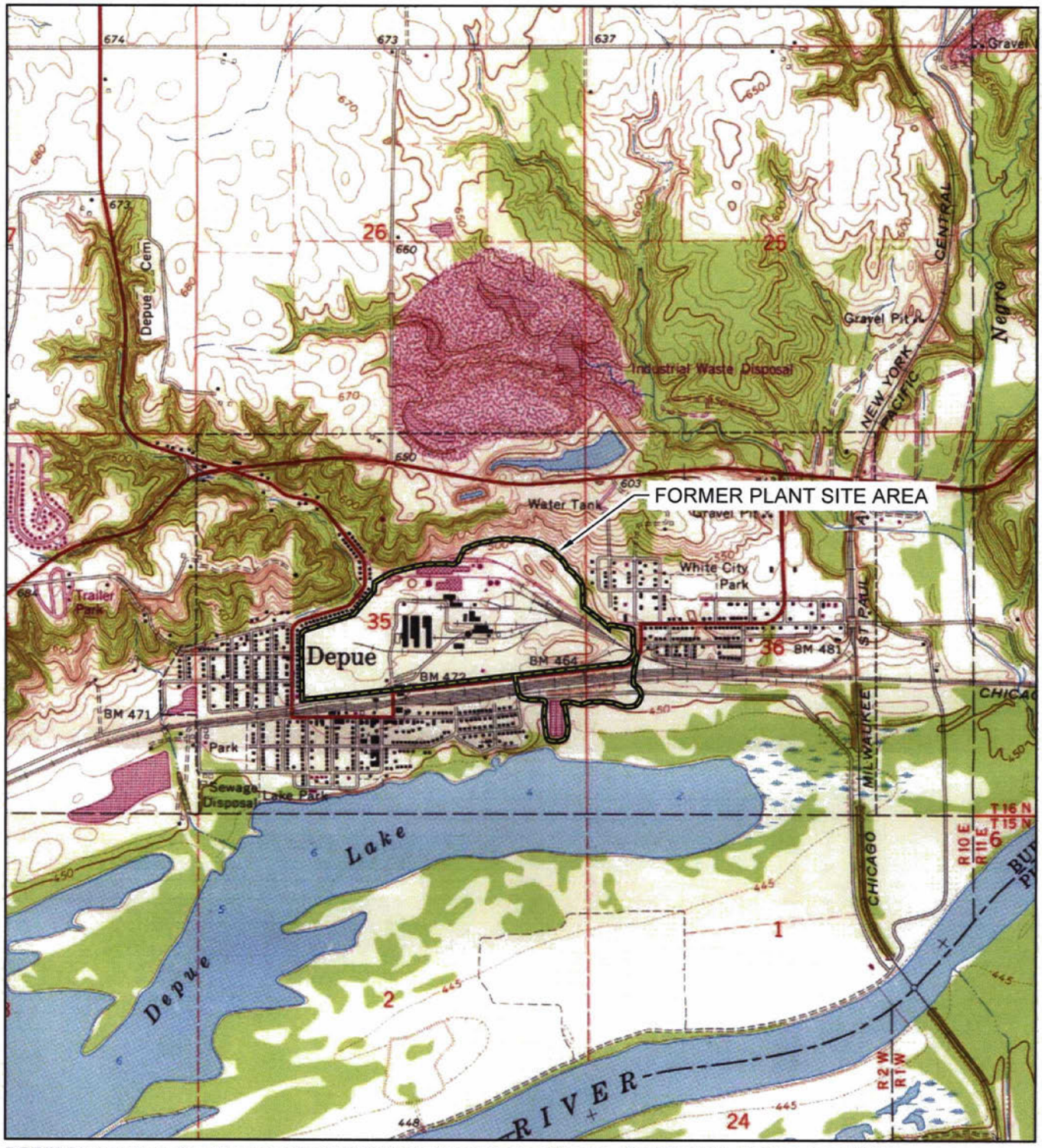
Notes:

1.) Percent false negatives are based on qualified data for detected matched pairs.
2.) Values for both laboratory and XRF data are based on dry weight analysis results.
3.) Percent false negatives occur for instances where XRF analysis underpredicts the laboratory analysis.
* Percent false negatives are not applicable due to limited sample size (<10)
** Percent false negatives could not be calculated as matched pairs do not exist.

FIGURES

FIGURES

Figures



REFERENCE: Base Map Source: USGS 7.5 Minute Quad. Series "Depue, Illinois" (1966, Photorevised 1979).

2000' 0 2000'

Approximate Scale: 1" = 2000'

Area Location

DRAWING SOURCE: REMOVAL ACTION LIMIT ASSESSMENT REPORT FIG.1 SITE LOCATION MAP, DRAFTED BY BBL, DATED 09/09/05.

ENVIRON

SITE LOCATION MAP

REMOVAL ACTION LIMIT ASSESSMENT REPORT
DEPUE SITE
DEPUE, ILLINOIS

DATE:	CONTRACT NUMBER:		FIGURE
6/7/11	21-12046C		1
DRAFTER: APR/ELS	APPROVED:	REVISED:	

R:\Client Project Files\CBS - NJ Zinc_21-12046C\Revised RAL Report and Response to Comments\Figures\01_Site Location Map.dwg

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APPENDIX A

APPENDIX A

Appendix A

RAL Assessment Field Changes and Clarifications

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FIELD CHANGE REQUEST # 1

BBL Project #: 855.38.002
Affected Document: Removal Action Limit Assessment Work Plan, May 2005 DePue Site - OU4

Requested Change:
Modification to the Sample Designation System that will facilitate sample tracking. Eliminate the letter designation for composite/discrete samples to give every location and depth it's own identifier.

ex./ OU4-SS-01-04 (0-1") from OU4-SS-01-04a-(0-1")-Discrete
ex./ OU4-SS-01-Comp1 (0-1") from OU4-SS-01-01- (0-1")-Composite

Reason for Change:
More efficient sample tracking scheme for each sample has a unique sample identification number. Composite samples will be cross-referenced in the field book back to the discrete sub-samples included in the composite

Change Requested by: Todd P. Meurer **Date:** 5/31/05

Reviewed by BBL Project Manager: Nancy Gerecke **Date:** 6/1/05

Comments:

Illinois Evironmental Protection Agency Approval: **Date:**

Comments:

Field change request.doc

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FIELD CLARIFICATION #1

BBL Project #: 855.38.002
Affected Document: Removal Action Limit Assessment Work Plan, May 2005

Requested Clarification: In meeting with IEPA on June 2, 2005, flow charts were requested to clarify field XRF and lab analytical decisions. Flow charts were reviewed with IEPA on June 6, 2005. Modifications were made as requested by IEPA (clarify Composite and Discrete Samples for lab TAL analyses.) Revised flow charts are attached.

Reason for Change: No change; clarify Work Plan.

Clarification Prepared by: Nancy Gensky Date: 6/7/05

Reviewed by BBL Project Manager: Nancy Gensky Date: 6/7/05

Comments:

Illinois Environmental Protection Agency Approval: Date:

Comments:

Field clarification_#1.doc

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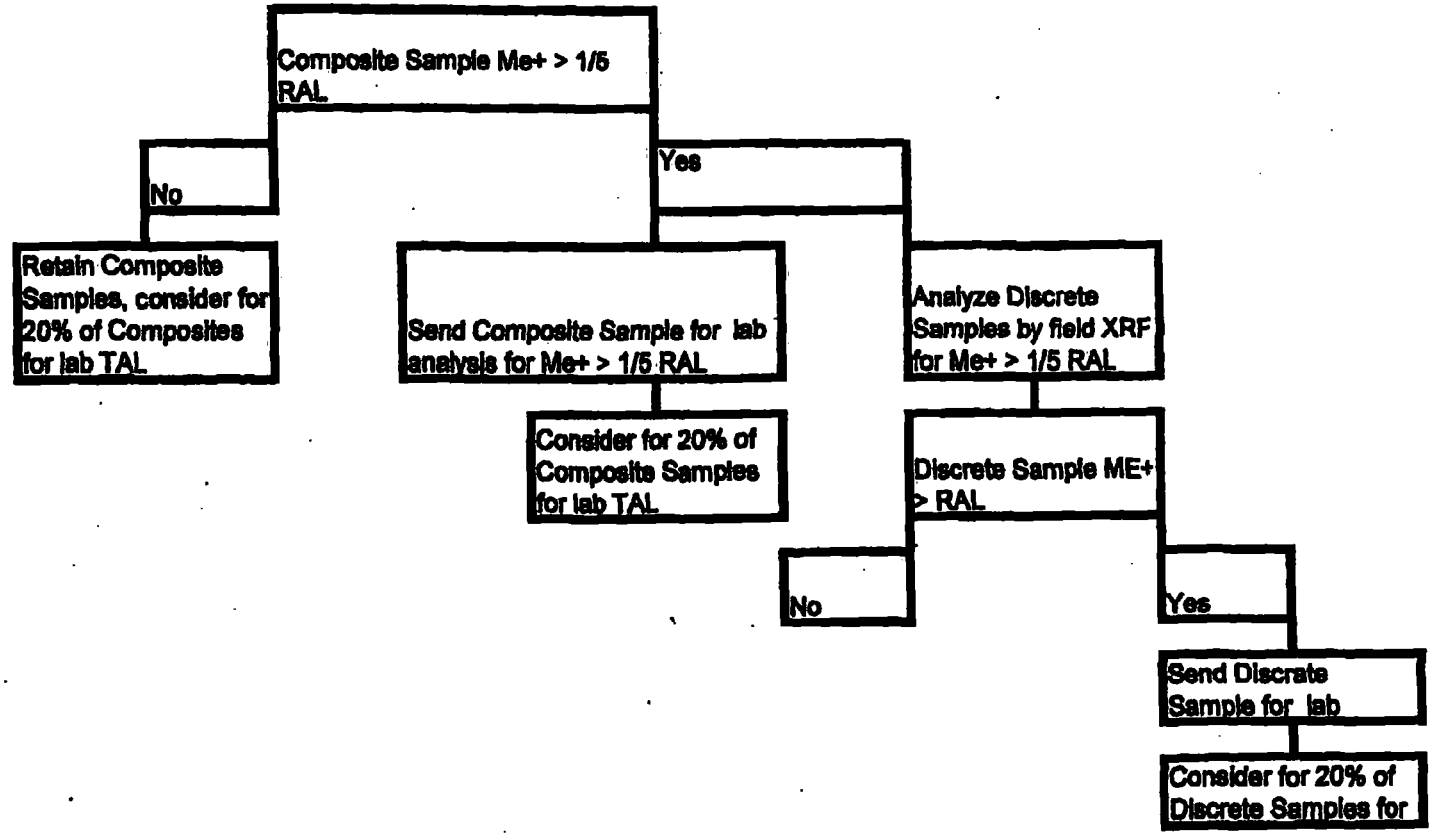
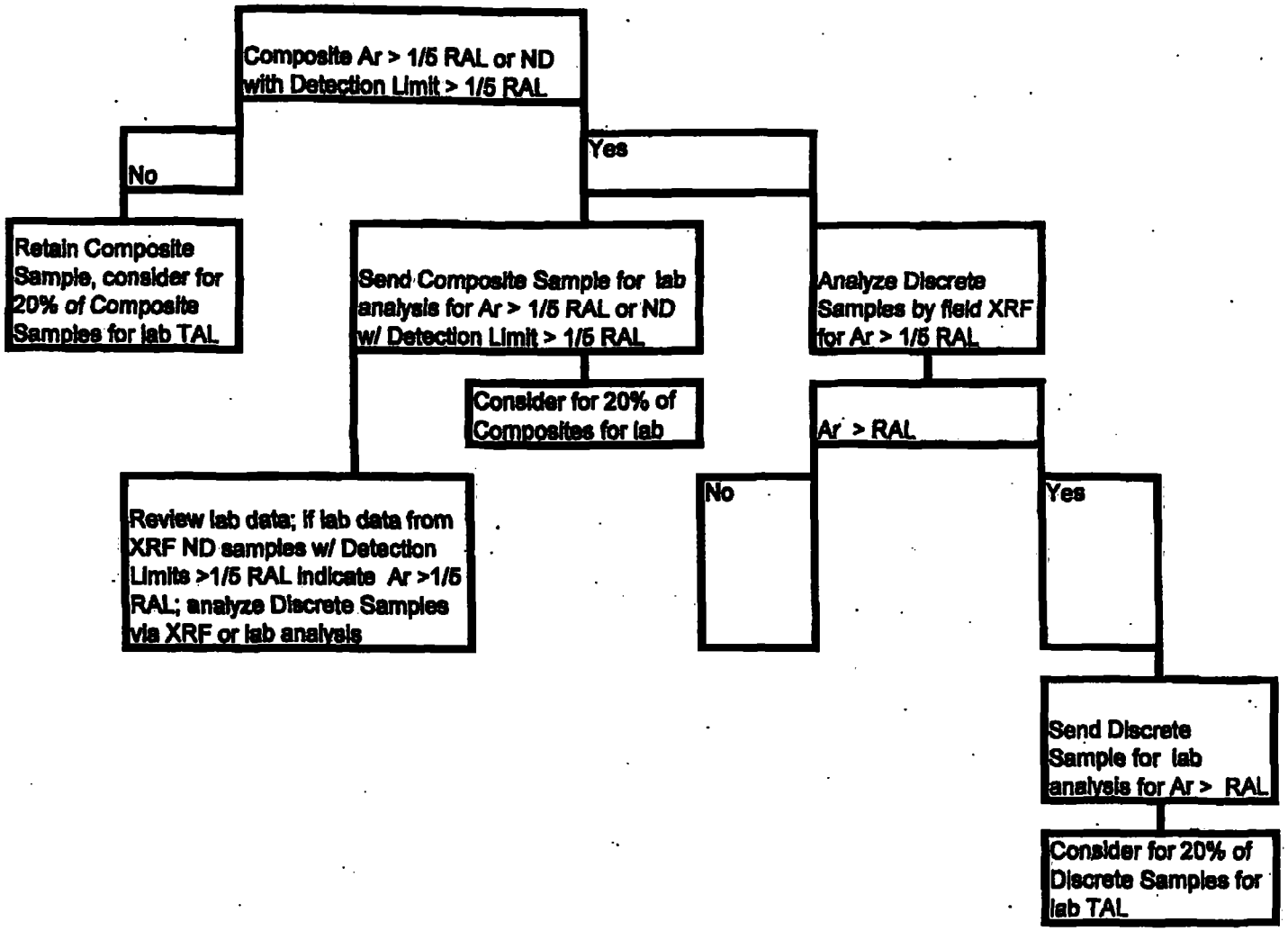
Draft
Preliminary

Metals other than Arsenic/ Lead



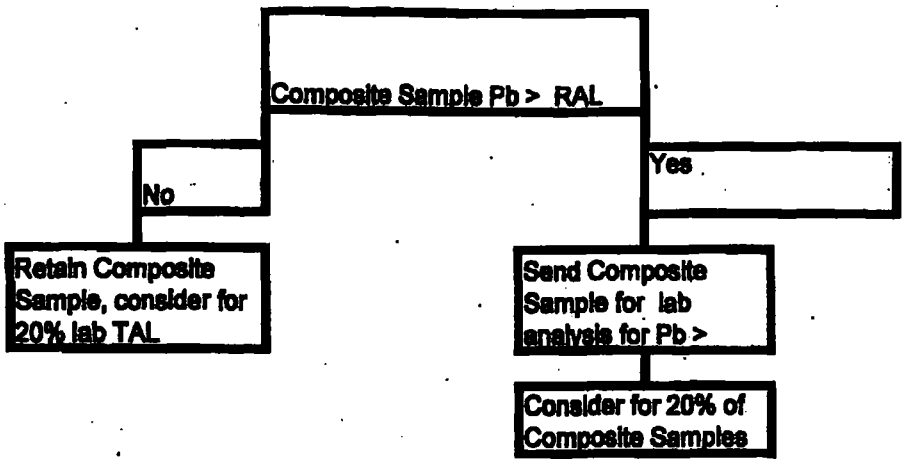
Draft
Preliminary

Arsenic



Draft
Preliminary

Lead



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FIELD CHANGE REQUEST #2

BBL Project #: 855.38.002
Affected Document: Removal Action Limit Assessment Field Sampling Plan- Attachment B XRF Protocol, May 2005

Requested Change:

Run soil samples in baggie versus cup. See attached results of comparing results from same samples in baggie vs. cup.

Reason for Change:

Less sample handling/preparation.

Change Requested by: Nancy Gensky Date: 6-6-05

Reviewed by BBL Project Manager: Nancy Gensk Date: 6-6-05

Comments:

Illinois Evironmental Protection Agency Approval: Date:

Comments:

Field change request-#2.doc

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Table
Summary of Soil Sample Analytical Results

Sample ID:		OU4-SS-QCBAG2711-1	OU4-SS-QCBAG2711-2	OU4-SS-QCBAG2711-3	OU4-SS-QCBAG2711-4	OU4-SS-QCBAG2711-5	OU4-SS-QCBAG2711-6	OU4-SS-QCBAG2711-7	OU4-SS-QCCUP2711-1
Sample Depth():									
Date Collected:	Units	06/02/05	06/02/05	06/02/05	06/02/05	06/02/05	06/02/05	06/02/05	06/02/05
Metals - XRF									
Arsenic	mg/kg	100.30	92.32	92.28	90.91	82.71	95.48	108.60	94.20
Copper	mg/kg	103.16	91.86	89.01	93.35	82.70	111.54	85.65	87.30
Iron	mg/kg	24678.11	24657.22	25038.73	24973.01	24750.00	24832.46	24922.74	24585.92
Lead	mg/kg	1158.77	1164.71	1138.52	1178.96	1167.36	1167.01	1119.69	1157.90
Zinc	mg/kg	337.04	339.25	323.62	330.68	330.36	329.00	342.62	335.06

	AVG BAG	STD BAG	% REC	MDL	AVG CUP	STD CUP	% REC	MDL
Arsenic	94.66	8.11	90.15	25.47	87.22	9.15	83.07	28.73
Copper	94.18	10.17	82.62	31.92	94.94	8.46	85.28	26.57
Iron	24836.04	148.15	85.94	465.20	24878.62	333.57	86.09	1047.42
Lead	1156.43	20.35	99.52	63.88	1155.01	24.46	99.40	76.79
Zinc	333.22	38.45	95.21	120.72	457.67	51.66	130.76	162.21

Table
Summary of Soil Sample Analytical Results

DRAFT

Sample ID: / Sample Depth(): / Date Collected:	Units	OU4-SS-QCBAG1 06/02/05	OU4-SS-QCBAG2 06/02/05	OU4-SS-QCBAG3 06/02/05	OU4-SS-QCBAG4 06/02/05	OU4-SS-QCCUP1 06/02/05	OU4-SS-QCCUP2 06/02/05	OU4-SS-QCCUP3 06/02/05	OU4-SS-QCCUP4 06/02/05	AVG BAG	STD BAG		%REC BAG	AVG CUP	%D	%REC CUP	STD CUP
Metals - XRF																	
Arsenic	mg/kg	607.12	653.17	627.17	622.45	646.33	643.28	661.91	631.84	627.48	19.15	86.94	100.24	637.28	3.33	101.80	14.99
Copper	mg/kg	3028.58	3108.98	3031.81	3036.40	3071.87	3114.41	3114.12	3102.31	3050.19	36.00	163.47	103.40	3061.02	0.84	103.76	33.57
Iron	mg/kg	37747.57	37562.48	37338.57	37324.70	38050.41	38825.87	38764.85	38393.07	37493.33	201.50	914.95	110.93	37564.04	0.46	111.14	616.44
Lead	mg/kg	5583.98	5575.71	5540.87	5422.06	5373.87	5440.96	5683.79	5708.34	5530.66	74.77	339.50	99.98	5528.13	0.11	99.93	114.69
Manganese	mg/kg	9811.55	9714.59	9405.97	9446.24	9757.50	9898.04	9933.33	9986.29	9594.36	199.50	905.86	94.99	9580.85	0.33	94.86	217.33
Mercury	mg/kg	49.59	36.57	59.11	85.18	63.79	75.96	64.73	52.47	57.61	20.57	93.40	176.73	61.16	4.33	187.62	12.52
Zinc	mg/kg	7316.90	7313.27	7239.18	7215.35	7431.43	7414.90	7582.67	7459.40	7271.18	51.65	234.52	104.59	7299.81	0.96	105.00	132.33

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FIELD CHANGE REQUEST #3

BBL Project #: 855.38.002
Affected Document: Removal Action Limit Assessment Field Sampling Plan- Attachment B XRF Protocol, May 2005

Requested Change:

Change the sample flow chart for arsenic (see attached) such that only the Composite samples from the first five properties are submitted for laboratory confirmation as discussed in site meeting on June 28, 2005.

Reason for Change:

This change is requested because the primary use of the XRF and laboratory composite samples for arsenic was to trigger the analysis of discrete samples, which were already analyzed via XRF.

Change Requested by: Nancy Gensky Date: 6-28-05

Reviewed by BBL Project Manager: Nancy Gensky Date: 6-28-05

Comments:

Illinois Environmental Protection Agency Approval: Date:

Comments:

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FIELD CLARIFICATION #2

BBL Project #: 855.38.002

Affected Document: Removal Action Limit Assessment Work Plan, May 2005

Requested Clarification: IEPA requested information to determine field XRF run times. The XRF manufacturer recommended run times up to 2 minutes (120 seconds). On June 3, 2005 BBL ran the Nist Standard (CLP D043540) four times at 60 seconds, 90 seconds, 120 seconds, 150 seconds, and 180 seconds. Percent recoveries (result compared to true value) were best at 120 seconds. As a result of this comparison, BBL ran all XRF samples at 120 seconds.

Reason for Change: No change; clarify Work Plan.

Clarification Prepared by: Nancy Gensky Date: 6/24/05

Reviewed by BBL Project Manager: Nancy Gensky Date: 6/24/05

Comments:

Illinois Environmental Protection Agency Approval: Date:

Comments:

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Sample Run Time Summary and Raw Data

APPENDIX 4
SAMPLE RUN-TIME SUMMARY
DEPUE, ILLINOIS
RAL ASSESSMENT REPORT

XRF analysis was conducted utilizing the Innov-X Environmental Metal Analyzer. The standard operating procedure for determining concentrations of metals in soil using XRF is found in SW-846 Method 6200 (USEPA, 1998). This method recommends sample run-times between 30 and 300 seconds. The sample run-times are user selectable between these ranges with the shorter measurement times (30 seconds) having less precision, and generally are used for initial screening or delineation of hot-spots. Longer measurement times have greater precision and generally are used to meet more stringent requirements for precision and accuracy. The Innov-X Environmental Metal Analyzer User Manual recommended a measurement time of 120 seconds; however, testing was conducted to evaluate the optimal run-times for field conditions.

A range of measurement times were evaluated in the field to determine the optimal run-time for the instrument. This test was conducted evaluating the percent recoveries for 14 analytes in 30 second intervals between 60 and 150 seconds run-times. The results indicated a greater percentage of samples were recovered within the range of 80 to 120% at the 120 second interval. As such, a run-time of 120 seconds was selected for the XRF field analyzer. A summary of the results are provided in the table below and the original results for the tests performed are attached.

	Time (seconds)	**% within 80 to 120% Recovery**
OU4-SS-CLPSTD-1-060205	60	36%
OU4-SS-CLPSTD-2-060205	60	36%
	Average	**36%**
OU4-SS-CLPSTD-1-060605	90	64%
OU4-SS-CLPSTD-2-060605	90	57%
OU4-SS-CLPSTD-3-060605	90	64%
OU4-SS-CLPSTD-4-060605	90	50%
	Average	**59%**
OU4-SS-CLPSTD-5-060605	120	71%
OU4-SS-CLPSTD-6-060605	120	71%
OU4-SS-CLPSTD-7-060605	120	57%
OU4-SS-CLPSTD-8-060605	120	71%
	Average	**68%**
OU4-SS-CLPSTD-9-060605	150	36%
OU4-SS-CLPSTD-10-060605	150	50%
OU4-SS-CLPSTD-11-060605	150	57%
OU4-SS-CLPSTD-12-060605	150	50%
	Average	**48%**
OU4-SS-CLPSTD-13-060605	180	36%
OU4-SS-CLPSTD-14-060605	180	29%
OU4-SS-CLPSTD-15-060605	180	64%
OU4-SS-CLPSTD-16-060605	180	36%
	Average	**41%**

Percent Recovery

Sample Name: OU4-SS-CLPSTD-1-060205 **Nist Standard:** CLP D043540

Analyte	Result Value	True Value	Percent Recovery	Acceptable (80 - 120)
[redacted]	234.8	208	112.88	Acceptable
Barium	525.44	879	59.78	Not Acceptable
[redacted]	124.44	141	88.26	Acceptable
Chromium	277.98	132	210.59	Not Acceptable
Copper	124.2	98.8	125.71	Not Acceptable
[redacted]	21257.25	24400	87.12	Acceptable
[redacted]	198.94	179	111.14	Acceptable
[redacted]	497.87	591	84.24	Acceptable
Nickel	113.97	80.1	142.28	Not Acceptable
Selenium	234.51	181	129.56	Not Acceptable
Silver	109.83	147	74.71	Not Acceptable
Zinc	336.48	263	127.94	Not Acceptable

5/14

GD

Note: The concentrations of Co and Hg contained in the reference standard CLP STD are below the level of detection.

Percent Recovery

Sample Name: OU4-SS-CLPSTD-2-060205 **Nist Standard:** CLP D043540

Analyte	Result Value	True Value	Percent Recovery	Acceptable (80 - 120)
[redacted]	245.44	208	118.00	Acceptable
Barium	684.01	879	77.82	Not Acceptable
Cadmium	169.26	141	120.04	Not Acceptable
Chromium	230.68	132	174.76	Not Acceptable
Copper	124.86	98.8	126.38	Not Acceptable
[redacted]	20643.2	24400	84.60	Acceptable
[redacted]	201.11	179	112.35	Acceptable
Manganese	423.1	591	71.59	Not Acceptable
[redacted]	88.4	80.1	110.36	Acceptable
[redacted]	214.41	181	118.46	Acceptable
Silver	114.93	147	78.18	Not Acceptable
Zinc	315.88	263	120.11	Not Acceptable

5/14

60

Note: The concentrations of Co and Hg contained in the reference standard CLP STD are below the level of detection.

Sample Name: OU4-SS-CLPSTD1-060605

NIST Standard: CLP D043540

Compare Sample To Standard

Analyte	Result Value	True Value	Percent Recovery
[redacted]	232.93	208	111.985576923077
[redacted]	782.1	879	88.9761092150171
[redacted]	152.03	141	107.822695035461
Chromium	208.76	132	158.1[illegible]1515151515
Cobalt	193.99	131	148.0[illegible]8969465649
[redacted]	114.37	98.8	115.759109311741
[redacted]	23741.1	24400	97.2995901639344
[redacted]	197.99	179	110.608938547486
Manganese	440.19	591	[illegible]74.48[illegible]2335025381
Mercury	99.02	11.2	884.1[illegible]7142857143
Nickel	105.24	80.1	131.[illegible]85767790262
[redacted]	206.17	181	113.906077348066
[redacted]	119.46	147	81.265306122449
[redacted]	307.86	263	117.057034220532

Percent Recovery

90sec

9/14

Acceptable
Acceptable
Acceptable
Acceptable
Not Acceptable
Not Acceptable
Acceptable
Acceptable
Acceptable
Not Acceptable
Not Acceptable
Not Acceptable
Acceptable
Acceptable
Acceptable

Close Form

Sample Name: OU4-SS-CLPSTD2-060605

NIST Standard: CLP D043540

Compare Sample To Standard

Analyte	Result Value	True Value	Percent Recovery
[redacted]	209.74	208	100.836538461538
Barium	632.99	879	72.[illegible]125142207053
[redacted]	156.76	141	111.177304964539
Chromium	220.86	132	167.[illegible]18181818182
Cobalt	189.06	131	144.[illegible]20610687023
[redacted]	116.32	98.8	117.732793522267
[redacted]	22364.97	24400	91.6597131147541
[redacted]	212.42	179	118.670391061452
Manganese	455.74	591	77.1[illegible]33671742809
Mercury	84.22	11.2	751.[illegible]64285714286
Nickel	112.48	80.1	140.[illegible]24469413233
[redacted]	204.55	181	113.011049723757
[redacted]	138.25	147	94.0476190476191
[redacted]	297.44	263	113.095057034221

Percent Recovery

90 see

8/14

Acceptable
Acceptable
Not Acceptable
Acceptable
Not Acceptable
Not Acceptable
Acceptable
Acceptable
Acceptable
Not Acceptable
Not Acceptable
Not Acceptable
Acceptable
Acceptable
Acceptable

Close Form

Sample Name: OU4-SS-CLPSTD3-060605

NIST Standard: CLP D043540

Compare Sample To Standard

Analyte	Result Value	True Value	Percent Recovery
[redacted]	221.72	208	106.596153846154
[redacted]	749.28	879	85.2423208191126
[redacted]	159.18	141	112.893617021277
Chromium	253.82	132	[illegible]87878787879
Cobalt	157.71	131	[illegible]9312977099
[redacted]	105.97	98.8	107.257085020243
[redacted]	22388.5	24400	91.7561475409836
[redacted]	202.58	179	113.173184357542
Manganese	458.62	591	77.6006768189509
Mercury	79.52	11.2	710
Nickel	105.56	80.1	131.7[illegible]5268414482
[redacted]	210.43	181	116.259668508287
[redacted]	136.11	147	92.5918367346939
[redacted]	278.55	263	105.912547528517

Percent Recovery

90 8e

9/14

Acceptable
Acceptable
Acceptable
Acceptable
Not Acceptable
Not Acceptable
Acceptable
Acceptable
Acceptable
Not Acceptable
Not Acceptable
Not Acceptable
Acceptable
Acceptable
Acceptable

Close Form

Sample Name: OU4-SS-CLPSTD4-060605

NIST Standard: CLP D043540

Compare Sample To Standard

Analyte	Result Value	True Value	Percent Recovery
Arsenic	215.3	208	103.509615384615
Barium	711.86	879	80.9852104664391
Cadmium	164.88	141	116.936170212766
Chromium	244.33	132	185.[illegible]8484848485
Cobalt	175.84	131	134.2[illegible]9007633588
Copper	119.86	98.8	121.[illegible]15789473684
Iron	22450.15	24400	92.0088114754098
Lead	220.67	179	123.[illegible]9329608939
Manganese	477.85	591	80.8544839255499
Mercury	89.27	11.2	797.0[illegible]571428571
Nickel	108.47	80.1	135.4[illegible]822721598
Selenium	219.5	181	[illegible]0718232044
Silver	131.98	147	89.7823129251701
Zinc	308.68	263	117.368821292776

Percent Recovery

7/14

90 see

Acceptable
Acceptable
Acceptable
Acceptable
Not Acceptable
Not Acceptable
Not Acceptable
Acceptable
Not Acceptable
Acceptable
Not Acceptable
Not Acceptable
Not Acceptable
Acceptable
Acceptable

Close Form

Sample Name: OU4-SS-CLPSTD5-060605

NIST Standard: CLP D043540

Compare Sample To Standard

Analyte	Result Value	True Value	Percent Recovery
[redacted]	220.56	208	106.038461538462
[redacted]	799.89	879	91
[redacted]	155.09	141	109.992907801418
Chromium	199.37	132	151.0[illegible]7878787879
Cobalt	167.58	131	127.92[illegible]664122137
[redacted]	115.7	98.8	117.105263157895
[redacted]	22348.07	24400	91.5904508196721
[redacted]	212.59	179	118.765363128492
[redacted]	494.08	591	83.6006768189509
Mercury	88.58	11.2	790.[illegible]2857142857
Nickel	109.4	80.1	136.57[illegible]9275905119
[redacted]	206.47	181	114.07182320442
[redacted]	133.61	147	90.891156462585
[redacted]	295.27	263	112.269961977186

Percent Recovery

10/14

120 see

Acceptable
Acceptable
Acceptable
Acceptable
Not Acceptable
Not Acceptable
Acceptable
Acceptable
Acceptable
Acceptable
Not Acceptable
Not Acceptable
Acceptable
Acceptable
Acceptable

Close Form

Sample Name: OU4-SS-CLPSTD6-060605

NIST Standard: CLP D043540

Compare Sample To Standard

Analyte	Result Value	True Value	Percent Recovery
[redacted]	221.81	208	106.639423076923
[redacted]	765.9	879	87.1331058020478
[redacted]	132.52	141	93.9858156028369
Chromium	236.5	132	179.[illegible]66666666667
[redacted]	140.3	131	107.099236641221
[redacted]	116.71	98.8	118.127530364372
[redacted]	22583.24	24400	92.554262295082
[redacted]	202.48	179	113.117318435754
Manganese	433.77	591	73.[illegible]959390862944
Mercury	81.25	11.2	725.[illegible]46428571429
Nickel	106.85	80.1	[illegible]95755305868
[redacted]	214.07	181	118.270718232044
[redacted]	146.09	147	99.3809523809524
[redacted]	293.94	263	111.764258555133

Percent Recovery

10/14

120 sec

Acceptable
Acceptable
Acceptable
Acceptable
Not Acceptable
Acceptable
Acceptable
Acceptable
Acceptable
Not Acceptable
Not Acceptable
Not Acceptable
Acceptable
Acceptable
Acceptable

Close Form

Sample Name: OU4-SS-CLPSTD7-060605

NIST Standard: CLP D043540

Compare Sample To Standard

Analyte	Result Value	True Value	Percent Recovery
[redacted]	219.88	208	105.711538461538
[redacted]	737.81	879	83.9374288964733
[redacted]	159.49	141	113.113475177305
Chromium	284.56	132	215.[illegible]757575758
Cobalt	171.03	131	130.5[illegible]7251908397
Copper	129.16	98.8	130.[illegible]28744939271
[redacted]	22403.96	24400	91.8195081967213
Lead	216.36	179	120.87[illegible]508379888
[redacted]	519.39	591	87.8832487309645
Mercury	83.87	11.2	748.[illegible]9285714286
Nickel	98.51	80.1	122.9[illegible]770287141
[redacted]	202.31	181	111.773480662983
[redacted]	129.29	147	87.9523809523809
[redacted]	298.12	263	113.3536121673

Percent Recovery

120 sec

8/14

Acceptable
Acceptable
Acceptable
Acceptable
Not Acceptable
Not Acceptable
Not Acceptable
Acceptable
Not Acceptable
Acceptable
Not Acceptable
Not Acceptable
Acceptable
Acceptable
Acceptable

Close Form

Sample Name: OU4-SS-CLPSTD8-060605

NIST Standard: CLP D043540

Compare Sample To Standard

Analyte	Result Value	True Value	Percent Recovery
Arsenic	221.76	208	106.615384615385
Barium	693.01	879	78.8407281001138
Cadmium	133.91	141	94.9716312056738
Chromium	277.3	132	210.075757575758
Cobalt	145.52	131	111.083969465649
Copper	117.51	98.8	118.937246963563
Iron	22473.05	24400	92.1026639344262
Lead	214.67	179	119.927374301676
Manganese	473.4	591	80.1015228426396
Mercury	80.78	11.2	721.[illegible]
Nickel	98.91	80.1	123.4831460674[illegible]16
Selenium	209.51	181	115.75138121547
Silver	145.88	147	99.2380952380952
Zinc	295.23	263	112.254752851711

Percent Recovery

120 sec

10/14

Acceptable
Acceptable
Not Acceptable
Acceptable
Not Acceptable
Acceptable
Acceptable
Acceptable
Acceptable
Acceptable
Not Acceptable
Not Acceptable
Acceptable
Acceptable
Acceptable

Close Form

Sample Name OU4-SS-CLPSTD9-060605

NIST Standard CLP D043540

Compare Sample To Standard

Analyte	Result Value	True Value	Percent Recovery	Acceptable
[redacted]	229.54	208	110.355769230769	Acceptable
Barium	697.29	879	79.3276450511945	Not Acceptable
[redacted]	153.23	141	108.673758865248	Acceptable
Chromium	205.79	132	155.9[illegible]515151515	Not Acceptable
Cobalt	184.06	131	140.503[illegible]16793893	Not Acceptable
Copper	118.81	98.8	120.[illegible]036437247	Not Acceptable
[redacted]	22587.6	24400	92.572131147541	Acceptable
Lead	217.56	179	121.541[illegible]99441341	Not Acceptable
Manganese	464.35	591	78.570[illegible]199661591	Not Acceptable
Mercury	83.93	11.2	749.375	Not Acceptable
Nickel	104.36	80.1	130.287[illegible]41073658	Not Acceptable
Selenium	221.89	181	122.59[illegible]160220994	Not Acceptable
[redacted]	140.21	147	95.3809523809524	Acceptable
[redacted]	313.9	263	119.3536121673	Acceptable

Percent Recovery

Close Form

150 sec

5/14

Sample Name: OU4-SS-CLPSTD10-060605

NIST Standard: CLP D043540

Compare Sample To Standard

Analyte	Result Value	True Value	Percent Recovery	Acceptable
[redacted]	231.38	208	111.240384615385	Acceptable
Barium	664.4	879	75.5858930602958	Not Acceptable
Cadmium	175.14	141	124.212765957447	Not Acceptable
Chromium	262	132	198.484848484848	Not Acceptable
Cobalt	259.41	131	198.022900763359	Not Acceptable
[redacted]	117.14	98.8	118.562753036437	Acceptable
[redacted]	22368.84	24400	91.6755737704918	Acceptable
Lead	219.95	179	122.877094972067	Not Acceptable
[redacted]	502.56	591	85.0355329949239	Acceptable
Mercury	89.28	11.2	797.142857142857	Not Acceptable
[redacted]	108.01	80.1	134.843945068664	Not Acceptable
[redacted]	214.75	181	118.646408839779	Acceptable
[redacted]	135.84	147	92.4081632653061	Acceptable
[redacted]	313.98	263	119.384030418251	Acceptable

Percent Recovery

Close Form

15DSW

7/14

Sample Name OU4-SS-CLPSTD11-060605

NIST Standard CLP D043540

Compare Sample To Standard

Analyte	Result Value	True Value	Percent Recovery	Acceptable
[redacted]	234.78	208	112.875	Acceptable
[redacted]	775.24	879	88.1956769055745	Acceptable
[redacted]	130.54	141	92.5815602836879	Acceptable
Chromium	278.1	132	210.681818181818	Not Acceptable
Cobalt	187.41	131	143.06106870229	Not Acceptable
[redacted]	117.58	98.8	119.008097165992	Acceptable
[redacted]	22802.43	24400	93.4525819672131	Acceptable
Lead	216.07	179	120.709497206704	Not Acceptable
[redacted]	489.6	591	82.8426395939086	Acceptable
Mercury	77.69	11.2	693.660714285714	Not Acceptable
Nickel	98.62	80.1	123.121098626717	Not Acceptable
Selenium	225.34	181	124.497237569061	Not Acceptable
[redacted]	153.35	147	104.319727891156	Acceptable
[redacted]	306.25	263	116.444866920152	Acceptable

Percent Recovery

Close Form

150 [illegible] 8/14

Sample Name OU4-SS-CLPSTD12-060605

NIST Standard CLP D043540

Compare Sample To Standard

Analyte	Result Value	True Value	Percent Recovery	Acceptable
Arsenic	228.8	208	110	Acceptable
Barium	762.27	879	86.7201365187713	Acceptable
Cadmium	173.69	141	123.184397163121	Not Acceptable
Chromium	312.72	132	236.909090909091	Not Acceptable
Cobalt	255.52	131	195.053435114504	Not Acceptable
Copper	123.49	98.8	124.98987854251	Not Acceptable
Iron	22325.55	24400	91.4981557377049	Acceptable
Lead	217.39	179	121.446927374302	Not Acceptable
Manganese	488.26	591	82.6159052453469	Acceptable
Mercury	87.74	11.2	783.392857142857	Not Acceptable
Nickel	70.67	80.1	88.227215980025	Acceptable
Selenium	222.51	181	122.933701657459	Not Acceptable
Silver	135.02	147	91.8503401360544	Acceptable
Zinc	312.15	263	118.688212927757	Acceptable

Percent Recovery

Close Form

7/14

150

Sample Name OU4-SS-CLPSTD13-060605

NIST Standard CLP D043540

Compare Sample To Standard

Analyte	Result Value	True Value	Percent Recovery	Acceptable
[redacted]	236.83	208	113.860576923077	Acceptable
Barium	607.51	879	69.1137656427759	Not Acceptable
[redacted]	168.36	141	119.404255319149	Acceptable
Chromium	278.16	132	210.727272727273	Not Acceptable
Cobalt	240.26	131	183.404580152672	Not Acceptable
Copper	120.06	98.8	121.518218623482	Not Acceptable
[redacted]	22463.89	24400	92.0651229508197	Acceptable
[redacted]	206.01	179	115.08938547486	Acceptable
Manganese	458.13	591	77.5177664974619	Not Acceptable
Mercury	81.74	11.2	729.821428571429	Not Acceptable
Nickel	100.9	80.1	125.967540574282	Not Acceptable
Selenium	224.84	181	124.220994475138	Not Acceptable
[redacted]	139.34	147	94.7891156462585	Acceptable
Zinc	316.14	263	120.205323193916	Not Acceptable

Percent Recovery

Close Form

5/14

180

Sample Name: OU4-SS-CLPSTD14-060605

NIST Standard: CLP D043540

Compare Sample To Standard

Analyte	Result Value	True Value	Percent Recovery	Acceptable
[redacted]	230.2	208	110.673076923077	Acceptable
[redacted]	784.8	879	89.2832764505119	Acceptable
Cadmium	175.83	141	124.702127659574	Not Acceptable
Chromium	310.55	132	235.265151515152	Not Acceptable
Cobalt	227.27	131	173.488549618321	Not Acceptable
Copper	124.09	98.8	125.597165991903	Not Acceptable
[redacted]	22686.45	24400	92.9772540983607	Acceptable
Lead	219.23	179	122.474860335196	Not Acceptable
Manganese	448.34	591	75.8612521150592	Not Acceptable
Mercury	87.56	11.2	781.785714285714	Not Acceptable
Nickel	98.76	80.1	123.295880149813	Not Acceptable
Selenium	224.07	181	123.795580110497	Not Acceptable
[redacted]	150.06	147	102.081632653061	Acceptable
Zinc	318.48	263	121.095057034221	Not Acceptable

Percent Recovery

Close Form

4/14

180 [redacted]

Sample Name OU4-SS-CLPSTD15-060605

NIST Standard CLP D043540

Compare Sample To Standard

Analyte	Result Value	True Value	Percent Recovery	Acceptable
[redacted]	228.35	208	109.783653846154	Acceptable
[redacted]	786.84	879	89.5153583617747	Acceptable
[redacted]	165.17	141	117.141843971631	Acceptable
Chromium	286.45	132	217.007575757576	Not Acceptable
Cobalt	176.14	131	134.458015267176	Not Acceptable
[redacted]	107.84	98.8	109.14979757085	Acceptable
[redacted]	22584.2	24400	92.5581967213115	Acceptable
Lead	223.12	179	124.648044692737	Not Acceptable
[redacted]	477.54	591	80.8020304568528	Acceptable
Mercury	81.97	11.2	731.875	Not Acceptable
[redacted]	91.85	80.1	114.669163545568	Acceptable
Selenium	219.72	181	121.39226519337	Not Acceptable
[redacted]	134.76	147	91.6734693877551	Acceptable
[redacted]	311.47	263	118.429657794677	Acceptable

Percent Recovery

Close Form

9/14

180 see

Sample Name: OU4-SS-CLPSTD16-060605

NIST Standard: CLP D043540

Compare Sample To Standard

Analyte	Result Value	True Value	Percent Recovery	Acceptable
[redacted]	235.37	208	113.158653846154	Acceptable
[redacted]	891.86	879	101.463026166098	Acceptable
[redacted]	162.65	141	115.354609929078	Acceptable
Chromium	208.29	132	157.795454545455	Not Acceptable
Cobalt	210.23	131	160.480916030534	Not Acceptable
Copper	125.45	98.8	126.973684210526	Not Acceptable
[redacted]	22638	24400	92.7786885245902	Acceptable
Lead	216.68	179	121.050279329609	Not Acceptable
Manganese	446.53	591	75.5549915397631	Not Acceptable
Mercury	78.51	11.2	700.982142857143	Not Acceptable
Nickel	109.91	80.1	137.215980024969	Not Acceptable
Selenium	228.88	181	126.453038674033	Not Acceptable
[redacted]	136.92	147	93.1428571428571	Acceptable
Zinc	326.27	263	124.057034220532	Not Acceptable

Percent Recovery

Close Form

5/14

~~120 sec~~

180 sec

APPENDIX B

APPENDIX B

Appendix B

Property-Specific Data Tables and Figures

Non-responsive

Table 1A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-01 (IDPH Location W11) - Composite Samples

Sample ID; Sample Depth(inches); Date Collected	Residential RAL	Units	OU4-SS-01-COMP1(0-1); 0 - 1; 05/31/05	OU4-SS-01-COMP1(1-6); 1 - 6; 05/31/05	OU4-SS-01-COMP1(6-12); 6 - 12; 05/31/05	OU4-SS-01-COMP1(12-18); 12 - 18; 05/31/05
Metals - XRF (USEPA SW-846 6200)						
Arsenic	43	mg/kg	29.0	15.9	7.46 U	7.12
Barium	55000	mg/kg	2450	1750	260 U	278
Cadmium	390	mg/kg	65.1	63.8	35.3 U	47.9
Chromium	3900	mg/kg	125 J	115 U	97.1 U	97.8 U
Cobalt	47000	mg/kg	101 U	103 U	90.9 U	97.8 U
Copper	31000	mg/kg	30.9 J	46.6 J	13.9 J	11.7 UJ
Iron	230000	mg/kg	16300 U	16100 U	14500 U	16900 U
Lead	1200	mg/kg	646 J	437 J	103 J	32.4 J
Manganese	18000	mg/kg	467 J	575 J	428 J	310 J
Mercury	78	mg/kg	10.8 UJ	10.3 UJ	8.39 UJ	7.35 UJ
Nickel	16000	mg/kg	23.3 U	22.9 U	20.0 U	20.9 U
Selenium	3900	mg/kg	3.38 U	3.11 U	2.46 U	2.47 U
Silver	3900	mg/kg	26.8 UJ	26.9 UJ	24.6 UJ	24.8 UJ
Zinc	230000	mg/kg	2950 J	2420 J	659 J	116 J
Metals (USEPA SW-846 6000/7000)						
Aluminum	--	mg/kg	8330	NA	NA	NA
Antimony	--	mg/kg	6.62 U	NA	NA	NA
Arsenic	43	mg/kg	9.05	8.82	NA	NA
Barium	55000	mg/kg	4960	NA	NA	NA
Beryllium	--	mg/kg	0.551	NA	NA	NA
Cadmium	390	mg/kg	35.3	NA	NA	NA
Calcium	--	mg/kg	8950	NA	NA	NA
Chromium	3900	mg/kg	14.5	NA	NA	NA
Cobalt	47000	mg/kg	6.97	NA	NA	NA
Copper	31000	mg/kg	43.5	NA	NA	NA
Iron	230000	mg/kg	15200	NA	NA	NA
Lead	1200	mg/kg	612	NA	NA	NA
Magnesium	--	mg/kg	4280	NA	NA	NA
Manganese	18000	mg/kg	461	NA	NA	NA
Mercury	78	mg/kg	0.101 B	NA	NA	NA
Nickel	16000	mg/kg	16.4	NA	NA	NA
Potassium	--	mg/kg	1380	NA	NA	NA
Selenium	3900	mg/kg	1.10 U	NA	NA	NA
Silver	3900	mg/kg	1.04 B	NA	NA	NA
Sodium	--	mg/kg	96.6 J	NA	NA	NA
Thallium	--	mg/kg	1.10 U	NA	NA	NA
Vanadium	--	mg/kg	21.3	NA	NA	NA
Zinc	230000	mg/kg	2540	NA	NA	NA

Table 1A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-01 (IDPH Location W11) - Composite Samples

Sample ID Sample Depth (inches) Date Collected	Residential RAL	Units	QU4-SS-01-COMP2(0-6) 0-6 05/31/05	QU4-SS-01-COMP2(6-12) 6-12 05/31/05	QU4-SS-01-COMP2(6-12) 6-12 06/07/05	QU4-SS-01-COMP2(12-18) 12-18 05/31/05
Metals - XRF (USEPA SW-846 6200)						
Arsenic	43	mg/kg	18.8	27.4	6.60	4.49 U
Barium	55000	mg/kg	2060	1610	297	245 U
Cadmium	390	mg/kg	41.0	39.3 U	34.5 U	34.4 U
Chromium	3900	mg/kg	118 U	120 U	92.4 U	90.0 U
Cobalt	47000	mg/kg	108 U	115 U	85.0 U	85.7 U
Copper	31000	mg/kg	26.9 J	16.0 J	11.5 U	11.3 U
Iron	230000	mg/kg	17600 U	19800 U	12600 U	13200 U
Lead	1200	mg/kg	629 J	405 J	28.3 U	20.7 U
Manganese	18000	mg/kg	480 J	499 J	479 J	354 U
Mercury	78	mg/kg	10.4 UJ	10.6 UJ	7.35 UJ	7.29 UJ
Nickel	16000	mg/kg	23.5 U	25.0 U	19.4 U	19.8 U
Selenium	3900	mg/kg	3.27 U	3.24 U	2.27 U	2.21 U
Silver	3900	mg/kg	27.1 UJ	27.4 UJ	24.1 UJ	24.0 UJ
Zinc	230000	mg/kg	2920 J	2280 J	380 J	81.9 J
Metals (USEPA SW-846 6000/7000)						
Aluminum	--	mg/kg	NA	8360	NA	NA
Antimony	--	mg/kg	NA	6.54 U	NA	NA
Arsenic	43	mg/kg	10.3	13.8	NA	NA
Barium	55000	mg/kg	NA	2340	NA	NA
Beryllium	--	mg/kg	NA	0.604	NA	NA
Cadmium	390	mg/kg	NA	14.6	NA	NA
Calcium	--	mg/kg	NA	5460	NA	NA
Chromium	3900	mg/kg	NA	14.7	NA	NA
Cobalt	47000	mg/kg	NA	6.72	NA	NA
Copper	31000	mg/kg	NA	28.4	NA	NA
Iron	230000	mg/kg	NA	13400	NA	NA
Lead	1200	mg/kg	NA	314	NA	NA
Magnesium	--	mg/kg	NA	3680	NA	NA
Manganese	18000	mg/kg	NA	484	NA	NA
Mercury	78	mg/kg	NA	0.196	NA	NA
Nickel	16000	mg/kg	NA	13.9	NA	NA
Potassium	--	mg/kg	NA	1450	NA	NA
Selenium	3900	mg/kg	NA	1.09 U	NA	NA
Silver	3900	mg/kg	NA	0.387 B	NA	NA
Sodium	--	mg/kg	NA	80.7 J	NA	NA
Thallium	--	mg/kg	NA	1.09 U	NA	NA
Vanadium	--	mg/kg	NA	19.7	NA	NA
Zinc	230000	mg/kg	NA	1910	NA	NA

Table 1A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-01 (IDPH Location W11) - Composite Samples

Sample ID Sample Depth (Inches) Date Collected	Residential RAL	Units	OU4-SS-01-COMP3(0-1) 0 - 1 05/31/05	OU4-SS-01-COMP3(1-6) 1 - 6 05/31/05	OU4-SS-01-COMP3(6-12) 6 - 12 05/31/05	OU4-SS-01-COMP3(12-18) 12 - 18 05/31/05
Metals - XRF (USEPA SW-846 6200)						
Arsenic	43	mg/kg	12.1	18.9	34.0	14.4
Barium	55000	mg/kg	1340	1400	895 U	591 U
Cadmium	390	mg/kg	87.9 J	61.0 J	38.4 U	44.2 J
Chromium	3900	mg/kg	115 U	113 U	115 U	108 U
Cobalt	47000	mg/kg	121 JQ	107 U	125 U	100 U
Copper	31000	mg/kg	22.6 J	35.5 J	29.4 J	13.6 U
Iron	230000	mg/kg	18700 U	18000 U	24300	16300 U
Lead	1200	mg/kg	287	230	198	80.2
Manganese	18000	mg/kg	490 UJ	485 UJ	592 UJ	431 UJ
Mercury	78	mg/kg	10.2 UJ	9.29 UJ	9.62 UJ	8.56 UJ
Nickel	16000	mg/kg	24.3 U	24.0 U	25.8 U	22.3 U
Selenium	3900	mg/kg	3.00 U	3.02 U	2.90 U	2.77 U
Silver	3900	mg/kg	26.7 UJ	26.6 UJ	27.1 UJ	26.9 UJ
Zinc	230000	mg/kg	2620 J	2220 J	1190 J	647 J
Metals (USEPA SW-846 6000/7000)						
Aluminum	--	mg/kg	6160	NA	NA	NA
Antimony	--	mg/kg	6.45 U	NA	NA	NA
Arsenic	43	mg/kg	6.30	11.5	23.0	12.3
Barium	55000	mg/kg	1340	NA	NA	NA
Beryllium	--	mg/kg	0.362	NA	NA	NA
Cadmium	390	mg/kg	17.6	NA	NA	NA
Calcium	--	mg/kg	6920	NA	NA	NA
Chromium	3900	mg/kg	11.3	NA	NA	NA
Cobalt	47000	mg/kg	4.44 B	NA	NA	NA
Copper	31000	mg/kg	24.6	NA	NA	NA
Iron	230000	mg/kg	9980	NA	NA	NA
Lead	1200	mg/kg	168	NA	NA	NA
Magnesium	--	mg/kg	4060	NA	NA	NA
Manganese	18000	mg/kg	334	NA	NA	NA
Mercury	78	mg/kg	0.0700 B	NA	NA	NA
Nickel	16000	mg/kg	10.9	NA	NA	NA
Potassium	--	mg/kg	1140	NA	NA	NA
Selenium	3900	mg/kg	1.08 U	NA	NA	NA
Silver	3900	mg/kg	0.342 B	NA	NA	NA
Sodium	--	mg/kg	55.3 J	NA	NA	NA
Thallium	--	mg/kg	1.08 U	NA	NA	NA
Vanadium	--	mg/kg	14.8	NA	NA	NA
Zinc	230000	mg/kg	1420	NA	NA	NA

Table 1A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-01 (IDPH Location W11) - Composite Samples

Sample ID / Sample Depth (Inches) / Date Collected	Residential RAL	Units	OU4-SS-01-COMP4(0-6) 0-6 06/01/05	OU4-SS-01-COMP4(6-12) 6-12 06/01/05	OU4-SS-01-COMP4(6-12) 6-12 06/01/05	OU4-SS-01-COMP4(12-18) 12-18 06/01/05
Metals - XRF (USEPA SW-846 6200)						
Arsenic	43	mg/kg	22.4	26.3	7.94	19.0
Barium	55000	mg/kg	2050	1860	266 U	294 U
Cadmium	390	mg/kg	42.2 J	39.8 J	35.2 U	40.1 U
Chromium	3900	mg/kg	121 U	119 U	112 J	119 U
Cobalt	47000	mg/kg	110 U	105 U	99.1 U	120 U
Copper	31000	mg/kg	36.2 J	18.0 J	12.6 U	13.6 U
Iron	230000	mg/kg	19200 U	17100 U	16600 U	21500 U
Lead	1200	mg/kg	547	369	85.8	80.6
Manganese	18000	mg/kg	523 UJ	558 UJ	418 UJ	402 UJ
Mercury	78	mg/kg	10.4 UJ	10.6 UJ	8.31 UJ	8.74 UJ
Nickel	16000	mg/kg	24.0 U	23.6 U	21.6 U	25.0 U
Selenium	3900	mg/kg	3.34 U	3.10 U	2.33 U	2.74 U
Silver	3900	mg/kg	26.7 UJ	26.9 UJ	24.7 UJ	28.2 UJ
Zinc	230000	mg/kg	2970 J	2860 J	680 J	374 J
Metals (USEPA SW-846 6000/7000)						
Aluminum	--	mg/kg	NA	NA	NA	NA
Antimony	--	mg/kg	NA	NA	NA	NA
Arsenic	43	mg/kg	10.1	10.6	NA	11.1
Barium	55000	mg/kg	NA	NA	NA	NA
Beryllium	--	mg/kg	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	NA
Calcium	--	mg/kg	NA	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA
Magnesium	--	mg/kg	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA
Potassium	--	mg/kg	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA
Sodium	--	mg/kg	NA	NA	NA	NA
Thallium	--	mg/kg	NA	NA	NA	NA
Vanadium	--	mg/kg	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA

Table 1A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-01 (IDPH Location W11) - Composite Samples

Sample ID Sample Depth (inches) Date Collected	Residential RAL	Units	OU4-SS-01-COMP5(0-1) 0 - 1 06/01/05	OU4-SS-01-COMP5(1-6) 1 - 6 06/01/05	OU4-SS-01-COMP5(6-12) 6 - 12 06/01/05	OU4-SS-01-COMP5(12-18) 12 - 18 06/01/05
Metals - XRF (USEPA SW-846 6200)						
Arsenic	43	mg/kg	17.0 U	17.2	9.69	4.51 U
Barium	55000	mg/kg	1100 U	1540	518 U	243 U
Cadmium	390	mg/kg	38.4 U	39.5 U	39.0 J	34.9 U
Chromium	3900	mg/kg	158 J	146 J	105 U	90.2 U
Cobalt	47000	mg/kg	109 U	108 U	96.1 U	83.7 U
Copper	31000	mg/kg	32.5 J	28.2 J	13.2 U	11.7 U
Iron	230000	mg/kg	18200 U	17300 U	14900 U	12400 U
Lead	1200	mg/kg	615	573	130	20.9 U
Manganese	18000	mg/kg	526 UJ	409 UJ	443 UJ	343 UJ
Mercury	78	mg/kg	10.7 UJ	10.5 UJ	8.70 UJ	7.40 UJ
Nickel	16000	mg/kg	24.4 U	24.3 U	21.3 U	21.1 JQ
Selenium	3900	mg/kg	3.35 U	3.31 U	2.84 U	2.38 U
Silver	3900	mg/kg	26.9 UJ	27.9 UJ	26.5 UJ	24.2 UJ
Zinc	230000	mg/kg	1890 J	2450 J	990 J	98.8 J
Metals (USEPA SW-846 6000/7000)						
Aluminum	--	mg/kg	10000	NA	NA	NA
Antimony	--	mg/kg	6.49 U	NA	NA	NA
Arsenic	43	mg/kg	8.90	10.0	5.63	NA
Barium	55000	mg/kg	2050	NA	NA	NA
Beryllium	--	mg/kg	0.482	NA	NA	NA
Cadmium	390	mg/kg	16.3	NA	NA	NA
Calcium	--	mg/kg	11700	NA	NA	NA
Chromium	3900	mg/kg	24.5	NA	NA	NA
Cobalt	47000	mg/kg	7.55	NA	NA	NA
Copper	31000	mg/kg	36.1	NA	NA	NA
Iron	230000	mg/kg	16100	NA	NA	NA
Lead	1200	mg/kg	613	NA	NA	NA
Magnesium	--	mg/kg	7670	NA	NA	NA
Manganese	18000	mg/kg	478	NA	NA	NA
Mercury	78	mg/kg	0.0755 B	NA	NA	NA
Nickel	16000	mg/kg	19.2	NA	NA	NA
Potassium	--	mg/kg	1460	NA	NA	NA
Selenium	3900	mg/kg	1.08 U	NA	NA	NA
Silver	3900	mg/kg	0.376 B	NA	NA	NA
Sodium	--	mg/kg	126 J	NA	NA	NA
Thallium	--	mg/kg	1.08 U	NA	NA	NA
Vanadium	--	mg/kg	28.8	NA	NA	NA
Zinc	230000	mg/kg	2130	NA	NA	NA

Table 1A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-01 (IDPH Location W11) - Composite Samples

Notes:

NA = Not Analyzed
RAL = Removal Action Levels: from Hazard Evaluation Handbook: A Guide to Removal Actions. October 1997. Fourth Edition. EPA 903/B-97-006.
mg/kg = milligrams per kilogram
XRF = X-Ray Fluorescence
= Values exceed Residential RAL Criteria.
J = The analyte was positively identified; however, the associated numerical value is an estimated concentration only.
U = The analyte was analyzed for but not detected.
B = The reported value was obtained from a reading less than the contract required detection limit (CRDL) but greater than or equal to the instrument detection limit (IDL).
R = The sample results are rejected.
JQ = The analyte was detected above the reported limit but below the method detection limit; therefore, the reported value should not be used for quantitative measurement.
UJ = The analyte was not detected above the reported sample detection limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.
[ ] = Field Duplicate

Table 1B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-01 (IDPH Location W11) - Discrete Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-01-01(0-1) 0 - 1 06/20/05	OU4-SS-01-01(1-6) 1 - 6 06/20/05	OU4-SS-01-02(0-1) 0 - 1 06/20/05	OU4-SS-01-02(1-6) 1 - 6 06/20/05	OU4-SS-01-03(0-1) 0 - 1 06/20/05	OU4-SS-01-03(1-6) 1 - 6 06/20/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	19.0	30.5	20.2	11.1 U	25.4	16.4 U
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Metals (USEPA SW-846 6000/7000)								
Aluminum	--	mg/kg	NA	NA	NA	NA	NA	NA
Antimony	--	mg/kg	NA	NA	NA	NA	NA	NA
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA
Barium	55000	mg/kg	NA	NA	NA	NA	NA	NA
Beryllium	--	mg/kg	NA	NA	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Calcium	--	mg/kg	NA	NA	NA	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA	NA	NA
Magnesium	--	mg/kg	NA	NA	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA	NA	NA
Potassium	--	mg/kg	NA	NA	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA	NA	NA
Sodium	--	mg/kg	NA	NA	NA	NA	NA	NA
Thallium	--	mg/kg	NA	NA	NA	NA	NA	NA
Vanadium	--	mg/kg	NA	NA	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA	NA	NA

Table 1B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-01 (IDPH Location W11) - Discrete Samples

Sample ID: Sample Depth(inches): Date Collected:	Residential RAL	Units	OU4-SS-01-04(0-1) 0 - 1 06/20/05	OU4-SS-01-04(1-6) 1 - 6 06/20/05	OU4-SS-01-05(0-1) 0 - 1 06/20/05	OU4-SS-01-05(1-6) 1 - 6 06/20/05	OU4-SS-01-06(0-1) 0 - 1 06/20/05	OU4-SS-01-06(1-6) 1 - 6 06/20/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	21.6	20.8	37.1	21.8 [17.1]	27.6	30.4
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Metals (USEPA SW-846 6000/7000)								
Aluminum	--	mg/kg	NA	NA	NA	NA	NA	NA
Antimony	--	mg/kg	NA	NA	NA	NA	NA	NA
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA
Barium	55000	mg/kg	NA	NA	NA	NA	NA	NA
Beryllium	--	mg/kg	NA	NA	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Calcium	--	mg/kg	NA	NA	NA	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA	NA	NA
Magnesium	--	mg/kg	NA	NA	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA	NA	NA
Potassium	--	mg/kg	NA	NA	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA	NA	NA
Sodium	--	mg/kg	NA	NA	NA	NA	NA	NA
Thallium	--	mg/kg	NA	NA	NA	NA	NA	NA
Vanadium	--	mg/kg	NA	NA	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA	NA	NA

Table 1B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-01 (IDPH Location W11) - Discrete Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-01-07(0-1) 0 - 1 06/20/05	OU4-SS-01-07(1-6) 1 - 6 06/20/05	OU4-SS-01-08(0-1) 0 - 1 06/20/05	OU4-SS-01-08(1-6) 1 - 6 06/01/05	OU4-SS-01-09(0-1) 0 - 1 06/20/05	OU4-SS-01-09(1-6) 1 - 6 06/20/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	17.7	9.33	13.2 U	65.3	10.6 U	42.8
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Metals (USEPA SW-846 6000/7000)								
Aluminum	--	mg/kg	NA	NA	NA	10700	NA	NA
Antimony	--	mg/kg	NA	NA	NA	6.72 U	NA	NA
Arsenic	43	mg/kg	NA	NA	NA	38.7	NA	NA
Barium	55000	mg/kg	NA	NA	NA	3040	NA	NA
Beryllium	--	mg/kg	NA	NA	NA	1.13	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	25.4	NA	NA
Calcium	--	mg/kg	NA	NA	NA	4080	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	16.6	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	4.91 J	NA	NA
Copper	31000	mg/kg	NA	NA	NA	32.0 J	NA	NA
Iron	230000	mg/kg	NA	NA	NA	23000	NA	NA
Lead	1200	mg/kg	NA	NA	NA	291	NA	NA
Magnesium	--	mg/kg	NA	NA	NA	2370	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	462	NA	NA
Mercury	78	mg/kg	NA	NA	NA	0.0850 J	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	16.2	NA	NA
Potassium	--	mg/kg	NA	NA	NA	2050	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	1.12 U	NA	NA
Silver	3900	mg/kg	NA	NA	NA	0.839 J	NA	NA
Sodium	--	mg/kg	NA	NA	NA	201 J	NA	NA
Thallium	--	mg/kg	NA	NA	NA	1.12 U	NA	NA
Vanadium	--	mg/kg	NA	NA	NA	23.7	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	1880	NA	NA

Table 1B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-01 (IDPH Location W11) - Discrete Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-01-10(0-1) 0 - 1 06/20/05	OU4-SS-01-10(1-6) 1 - 6 06/20/05	OU4-SS-01-11(0-1) 0 - 1 06/23/05	OU4-SS-01-11(1-6) 1 - 6 06/20/05	OU4-SS-01-11(6-12) 6 - 12 06/01/05	OU4-SS-01-11(12-18) 12 - 18 06/20/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	17.6	20.3	21.6 J	12.3	69.0	5.42
Cadmium	390	mg/kg	NA	NA	60.4 U	NA	NA	NA
Metals (USEPA SW-846 6000/7000)								
Aluminum	--	mg/kg	NA	NA	NA	NA	NA	NA
Antimony	--	mg/kg	NA	NA	NA	NA	NA	NA
Arsenic	43	mg/kg	NA	NA	NA	NA	50.8 [47.6 J]	NA
Barium	55000	mg/kg	NA	NA	NA	NA	NA	NA
Beryllium	--	mg/kg	NA	NA	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Calcium	--	mg/kg	NA	NA	NA	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA	NA	NA
Magnesium	--	mg/kg	NA	NA	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA	NA	NA
Potassium	--	mg/kg	NA	NA	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA	NA	NA
Sodium	--	mg/kg	NA	NA	NA	NA	NA	NA
Thallium	--	mg/kg	NA	NA	NA	NA	NA	NA
Vanadium	--	mg/kg	NA	NA	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA	NA	NA

Table 1B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-01 (IDPH Location W11) - Discrete Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-01-12(0-1) 0 - 1 06/23/05	OU4-SS-01-12(1-6) 1 - 6 06/20/05	OU4-SS-01-12(6-12) 6 - 12 06/20/05	OU4-SS-01-12(12-18) 12 - 18 06/20/05	OU4-SS-01-13(0-1) 0 - 1 06/23/05	OU4-SS-01-13(1-6) 1 - 6 06/20/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	20.4 J	18.0	10.8	5.00 U	12.4 U	11.0
Cadmium	390	mg/kg	66.7 U	NA	NA	NA	41.0 U	NA
Metals (USEPA SW-846 6000/7000)								
Aluminum	--	mg/kg	NA	NA	NA	NA	NA	NA
Antimony	--	mg/kg	NA	NA	NA	NA	NA	NA
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA
Barium	55000	mg/kg	NA	NA	NA	NA	NA	NA
Beryllium	--	mg/kg	NA	NA	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Calcium	--	mg/kg	NA	NA	NA	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA	NA	NA
Magnesium	--	mg/kg	NA	NA	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA	NA	NA
Potassium	--	mg/kg	NA	NA	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA	NA	NA
Sodium	--	mg/kg	NA	NA	NA	NA	NA	NA
Thallium	--	mg/kg	NA	NA	NA	NA	NA	NA
Vanadium	--	mg/kg	NA	NA	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA	NA	NA

Table 1B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-01 (IDPH Location W11) - Discrete Samples

Sample ID: Sample Depth(inches): Date Collected:	Residential RAL	Units	OU4-SS-01-13(6-12) 6 - 12 06/20/05	OU4-SS-01-13(12-18) 12 - 18 06/20/05	OU4-SS-01-14(0-1) 0 - 1 06/23/05	OU4-SS-01-14(1-6) 1 - 6 06/20/05	OU4-SS-01-14(6-12) 6 - 12 06/20/05	OU4-SS-01-14(12-18) 12 - 18 06/20/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	17.7	11.8	10.9 J	10.2	17.1	6.46
Cadmium	390	mg/kg	NA	NA	69.0 U	NA	NA	NA
Metals (USEPA SW-846 6000/7000)								
Aluminum	--	mg/kg	NA	NA	NA	NA	NA	NA
Antimony	--	mg/kg	NA	NA	NA	NA	NA	NA
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA
Barium	55000	mg/kg	NA	NA	NA	NA	NA	NA
Beryllium	--	mg/kg	NA	NA	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Calcium	--	mg/kg	NA	NA	NA	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA	NA	NA
Magnesium	--	mg/kg	NA	NA	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA	NA	NA
Potassium	--	mg/kg	NA	NA	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA	NA	NA
Sodium	--	mg/kg	NA	NA	NA	NA	NA	NA
Thallium	--	mg/kg	NA	NA	NA	NA	NA	NA
Vanadium	--	mg/kg	NA	NA	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA	NA	NA

Table 1B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-01 (IDPH Location W11) - Discrete Samples

Sample ID: / Sample Depth(Inches): / Date Collected:	Residential RAL	Units	OU4-SS-01-15(0-1) 0 - 1 06/23/05	OU4-SS-01-15(1-6) 1 - 6 06/20/05	OU4-SS-01-15(6-12) 6 - 12 06/20/05	OU4-SS-01-15(12-18) 12 - 18 06/20/05	OU4-SS-01-16(0-1) 0 - 1 06/20/05	OU4-SS-01-16(1-6) 1 - 6 06/20/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	10.4 J [12.7 J]	21.1 [12.2 U]	24.2	20.2	24.6	26.3
Cadmium	390	mg/kg	34.0 U [34.0 U]	NA	NA	NA	NA	NA
Metals (USEPA SW-846 6000/7000)								
Aluminum	--	mg/kg	NA	NA	NA	NA	NA	NA
Antimony	--	mg/kg	NA	NA	NA	NA	NA	NA
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA
Barium	55000	mg/kg	NA	NA	NA	NA	NA	NA
Beryllium	--	mg/kg	NA	NA	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Calcium	--	mg/kg	NA	NA	NA	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA	NA	NA
Magnesium	--	mg/kg	NA	NA	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA	NA	NA
Potassium	--	mg/kg	NA	NA	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA	NA	NA
Sodium	--	mg/kg	NA	NA	NA	NA	NA	NA
Thallium	--	mg/kg	NA	NA	NA	NA	NA	NA
Vanadium	--	mg/kg	NA	NA	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA	NA	NA

Table 1B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-01 (IDPH Location W11) - Discrete Samples

Sample ID: / Sample Depth (Inches): / Date Collected:	Residential RAL	Units	OU4-SS-01-16(12-18) 12 - 18 06/01/05	OU4-SS-01-17(0-1) 0 - 1 06/20/05	OU4-SS-01-17(1-6) 1 - 6 06/20/05	OU4-SS-01-17(12-18) 12 - 18 06/20/05	OU4-SS-01-18(0-1) 0 - 1 06/20/05	OU4-SS-01-18(1-6) 1 - 6 06/20/05
etals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	74.5	14.7	10.8	6.42 U	13.7 U	11.4 U
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
etals (USEPA SW-846 6000/7000)								
Aluminum	--	mg/kg	NA	NA	NA	NA	NA	NA
Antimony	--	mg/kg	NA	NA	NA	NA	NA	NA
Arsenic	43	mg/kg	40.4 [35.0 J]	NA	NA	NA	NA	NA
Barium	55000	mg/kg	NA	NA	NA	NA	NA	NA
Beryllium	--	mg/kg	NA	NA	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Calcium	--	mg/kg	NA	NA	NA	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA	NA	NA
Magnesium	--	mg/kg	NA	NA	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA	NA	NA
Potassium	--	mg/kg	NA	NA	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA	NA	NA
Sodium	--	mg/kg	NA	NA	NA	NA	NA	NA
Thallium	--	mg/kg	NA	NA	NA	NA	NA	NA
Vanadium	--	mg/kg	NA	NA	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA	NA	NA

Table 1B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-01 (IDPH Location W11) - Discrete Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-01-18(12-18) 12 - 18 06/20/05	OU4-SS-01-19(0-1) 0 - 1 06/20/05	OU4-SS-01-19(1-6) 1 - 6 06/20/05	OU4-SS-01-19(12-18) 12 - 18 06/20/05	OU4-SS-01-20(0-1) 0 - 1 06/20/05	OU4-SS-01-20(1-6) 1 - 6 06/20/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	4.62 U	16.0	10.9 U	14.4	21.9 U	20.8 [18.1]
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Metals (USEPA SW-846 6000/7000)								
Aluminum	--	mg/kg	NA	NA	NA	NA	NA	NA
Antimony	--	mg/kg	NA	NA	NA	NA	NA	NA
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA
Barium	55000	mg/kg	NA	NA	NA	NA	NA	NA
Beryllium	--	mg/kg	NA	NA	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Calcium	--	mg/kg	NA	NA	NA	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA	NA	NA
Magnesium	--	mg/kg	NA	NA	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA	NA	NA
Potassium	--	mg/kg	NA	NA	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA	NA	NA
Sodium	--	mg/kg	NA	NA	NA	NA	NA	NA
Thallium	--	mg/kg	NA	NA	NA	NA	NA	NA
Vanadium	--	mg/kg	NA	NA	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA	NA	NA

Table 1B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-01 (IDPH Location W11) - Discrete Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-01-20(12-18) 12 - 18 06/20/05	OU4-SS-01-21(1-6) 1 - 6 06/20/05	OU4-SS-01-21(6-12) 6 - 12 06/20/05	OU4-SS-01-22(1-6) 1 - 6 06/20/05	OU4-SS-01-22(6-12) 6 - 12 06/20/05	OU4-SS-01-23(1-6) 1 - 6 06/20/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	4.96 U	32.2	6.38	21.5	5.71 U	16.1 U
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Metals (USEPA SW-846 6000/7000)								
Aluminum	--	mg/kg	NA	NA	NA	NA	NA	NA
Antimony	--	mg/kg	NA	NA	NA	NA	NA	NA
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA
Barium	55000	mg/kg	NA	NA	NA	NA	NA	NA
Beryllium	--	mg/kg	NA	NA	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Calcium	--	mg/kg	NA	NA	NA	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA	NA	NA
Magnesium	--	mg/kg	NA	NA	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA	NA	NA
Potassium	--	mg/kg	NA	NA	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA	NA	NA
Sodium	--	mg/kg	NA	NA	NA	NA	NA	NA
Thallium	--	mg/kg	NA	NA	NA	NA	NA	NA
Vanadium	--	mg/kg	NA	NA	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA	NA	NA

Table 1B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-01 (IDPH Location W11) - Discrete Samples

Sample ID: / Sample Depth(Inches): / Date Collected:	Residential RAL	Units	OU4-SS-01-23(6-12) 6 - 12 06/20/05	OU4-SS-01-24(1-6) 1 - 6 06/20/05	OU4-SS-01-24(6-12) 6 - 12 06/20/05
Metals - XRF (USEPA SW-846 6200)					
Arsenic	43	mg/kg	8.67	15.6 U	9.56 U [9.90]
Cadmium	390	mg/kg	NA	NA	NA
Metals (USEPA SW-846 6000/7000)					
Aluminum	--	mg/kg	NA	NA	NA
Antimony	--	mg/kg	NA	NA	NA
Arsenic	43	mg/kg	NA	NA	NA
Barium	55000	mg/kg	NA	NA	NA
Beryllium	--	mg/kg	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA
Calcium	--	mg/kg	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA
Magnesium	--	mg/kg	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA
Potassium	--	mg/kg	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA
Sodium	--	mg/kg	NA	NA	NA
Thallium	--	mg/kg	NA	NA	NA
Vanadium	--	mg/kg	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA

Table 1B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-01 (IDPH Location W11) - Discrete Samples

Notes:

NA = Not Analyzed
RAL = Removal Action Levels: from Hazard Evaluation Handbook: A Guide to Removal Actions. October 1997. Fourth Edition. EPA 903/B-97-006.
mg/kg = milligrams per kilogram
XRF = X-Ray Fluorescence
= values exceed Residential RAL Criteria.
J = The analyte was positively identified; however, the associated numerical value is an estimated concentration only.
U = The analyte was analyzed for but not detected.
B = The reported value was obtained from a reading less than the contract required detection limit (CRDL) but greater than or equal to the instrument detection limit (IDL).
R = The sample results are rejected.
JQ = The analyte was detected above the reported limit but below the method detection limit; therefore, the reported value should not be used for quantitative measurement.
UJ = The analyte was not detected above the reported sample detection limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.
[ ] = Field Duplicate

Non-responsive

Table 2A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-02 (IDPH Location S11) - Composite Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-02-COMP1(0-1) 0 - 1 06/01/05	OU4-SS-02-COMP1(1-6) 1 - 6 06/01/05	OU4-SS-02-COMP1(6-12) 6 - 12 06/01/05	OU4-SS-02-COMP1(12-18) 12 - 18 06/01/05
Metals - XRF (USEPA SW-846 6200)						
Arsenic	43	mg/kg	17.8	47.4	21.7	7.36
Barium	55000	mg/kg	789 U	2580	587 U	274 U
Cadmium	390	mg/kg	38.8 U	65.1 J	41.2 U	35.5 U
Chromium	3900	mg/kg	118 U	135 U	144 U	106 U
Cobalt	47000	mg/kg	126 U	140 U	256 J	110 U
Copper	31000	mg/kg	34.6 J	68.6 J	32.6 J	13.8 J
Iron	230000	mg/kg	24700	28800	56900	20600
Lead	1200	mg/kg	298	734	147	25.6 U
Manganese	18000	mg/kg	620 UJ	737 UJ	705 UJ	442 UJ
Mercury	78	mg/kg	9.49 UJ	12.8 UJ	10.8 UJ	7.73 UJ
Nickel	16000	mg/kg	26.0 U	28.7 U	35.0 U	22.8 U
Selenium	3900	mg/kg	2.93 U	3.62 U	3.10 U	2.37 U
Silver	3900	mg/kg	27.2 UJ	28.1 UJ	29.1 UJ	24.9 UJ
Zinc	230000	mg/kg	1880 J	4880 J	1660 J	134 J
Metals (USEPA SW-846 6000/7000)						
Aluminum	--	mg/kg	NA	13700	12200	NA
Antimony	--	mg/kg	NA	6.40 U	6.47 U	NA
Arsenic	43	mg/kg	9.03	16.0	12.4	NA
Barium	55000	mg/kg	NA	3190 J	511 J	NA
Beryllium	--	mg/kg	NA	0.925	1.30	NA
Cadmium	390	mg/kg	NA	38.3 J	7.51 J	NA
Calcium	--	mg/kg	NA	15700 J	11900 J	NA
Chromium	3900	mg/kg	NA	23.2	20.6	NA
Cobalt	47000	mg/kg	NA	8.58	8.46	NA
Copper	31000	mg/kg	NA	60.2 J	30.2 J	NA
Iron	230000	mg/kg	NA	25700 J	30700 J	NA
Lead	1200	mg/kg	NA	527	117	NA
Magnesium	--	mg/kg	NA	10300	6260	NA
Manganese	18000	mg/kg	NA	745	658	NA
Mercury	78	mg/kg	NA	0.165	0.0699 B	NA
Nickel	16000	mg/kg	NA	23.4	22.7	NA
Potassium	--	mg/kg	NA	1990 J	1890 J	NA
Selenium	3900	mg/kg	NA	1.07 U	1.08 U	NA
Silver	3900	mg/kg	NA	1.48 B	0.409 B	NA
Sodium	--	mg/kg	NA	301 J	346 J	NA
Thallium	--	mg/kg	NA	2.07	2.33	NA
Vanadium	--	mg/kg	NA	41.6	33.9	NA
Zinc	230000	mg/kg	NA	3380	1140	NA

Table 2A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-02 (IDPH Location S11) - Composite Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-02-COMP2(0-1) 0 - 1 06/01/05	OU4-SS-02-COMP2(1-6) 1 - 6 06/01/05	OU4-SS-02-COMP2(6-12) 6 - 12 06/01/05	OU4-SS-02-COMP2(12-18) 12 - 18 06/01/05
Metals - XRF (USEPA SW-846 6200)						
Arsenic	43	mg/kg	6.20 U	15.9	11.9 U	10.2
Barium	55000	mg/kg	304	648	632	647
Cadmium	390	mg/kg	34.0 U	39.0 U	39.1 U	40.0 U
Chromium	3900	mg/kg	97.4 U	110 U	116 U	115 U
Cobalt	47000	mg/kg	R	141 J	R	R
Copper	31000	mg/kg	12.0 U	26.3 J	19.8 J	23.6 J
Iron	230000	mg/kg	14800	21600	23800	24500
Lead	1200	mg/kg	64.5 J	151 J	275 J	90.1 J
Manganese	18000	mg/kg	369 UJ	453 UJ	515 UJ	532 UJ
Mercury	78	mg/kg	7.65 UJ	9.13 UJ	9.84 UJ	9.59 UJ
Nickel	16000	mg/kg	19.9 U	24.1 U	26.1 U	25.9 U
Selenium	3900	mg/kg	2.39 U	2.81 U	3.07 U	2.85 U
Silver	3900	mg/kg	23.8 U	27.2 U	27.3 U	28.1 U
Zinc	230000	mg/kg	398	969 J	1200 J	747 J
Metals (USEPA SW-846 6000/7000)						
Aluminum	--	mg/kg	NA	13900	NA	NA
Antimony	--	mg/kg	NA	6.59 U	NA	NA
Arsenic	43	mg/kg	NA	9.41	9.70	10.1
Barium	55000	mg/kg	NA	602 J	NA	NA
Beryllium	--	mg/kg	NA	0.699	NA	NA
Cadmium	390	mg/kg	NA	12.5 J	NA	NA
Calcium	--	mg/kg	NA	4490 J	NA	NA
Chromium	3900	mg/kg	NA	21.6	NA	NA
Cobalt	47000	mg/kg	NA	8.17	NA	NA
Copper	31000	mg/kg	NA	27.4 J	NA	NA
Iron	230000	mg/kg	NA	20100 J	NA	NA
Lead	1200	mg/kg	NA	101	NA	NA
Magnesium	--	mg/kg	NA	3430	NA	NA
Manganese	18000	mg/kg	NA	667	NA	NA
Mercury	78	mg/kg	NA	0.0856 B	NA	NA
Nickel	16000	mg/kg	NA	16.9	NA	NA
Potassium	--	mg/kg	NA	1930 J	NA	NA
Selenium	3900	mg/kg	NA	1.10 U	NA	NA
Silver	3900	mg/kg	NA	0.552 B	NA	NA
Sodium	--	mg/kg	NA	174 J	NA	NA
Thallium	--	mg/kg	NA	1.46	NA	NA
Vanadium	--	mg/kg	NA	36.3	NA	NA
Zinc	230000	mg/kg	NA	779	NA	NA

Table 2A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-02 (IDPH Location S11) - Composite Samples

Sample ID: Sample Depth(inches): Date Collected:	Residential RAL	Units	OU4-SS-02-COMP3(0-1) 0 - 1 06/01/05	OU4-SS-02-COMP3(1-6) 1 - 6 06/01/05	OU4-SS-02-COMP3(6-12) 6 - 12 06/01/05	OU4-SS-02-COMP3(12-18) 12 - 18 06/01/05
Metals - XRF (USEPA SW-846 6200)						
Arsenic	43	mg/kg	10.7	14.3	11.9	5.92
Barium	55000	mg/kg	614	1210	587	269 U
Cadmium	390	mg/kg	41.4 J	41.7 J	39.1 U	35.2 U
Chromium	3900	mg/kg	111 U	119 U	114 U	97.7 U
Cobalt	47000	mg/kg	R	R	R	R
Copper	31000	mg/kg	30.5 J	41.5 J	17.4 J	15.3 J
Iron	230000	mg/kg	19300	23300	21000 U	18500 U
Lead	1200	mg/kg	118 J	217 J	87.2 J	47.8 J
Manganese	18000	mg/kg	459 UJ	529 J	554 J	495 J
Mercury	78	mg/kg	9.05 UJ	10.0 UJ	9.42 UJ	7.74 UJ
Nickel	16000	mg/kg	23.2 U	25.5 U	25.2 U	22.0 U
Selenium	3900	mg/kg	2.83 U	2.89 U	2.66 U	2.42 U
Silver	3900	mg/kg	26.6 U	27.3 U	27.2 U	24.6 U
Zinc	230000	mg/kg	1030 J	1730 J	1140 J	573 J
Metals (USEPA SW-846 6000/7000)						
Aluminum	--	mg/kg	NA	NA	NA	NA
Antimony	--	mg/kg	NA	NA	NA	NA
Arsenic	43	mg/kg	6.93	12.0	9.45	NA
Barium	55000	mg/kg	NA	NA	NA	NA
Beryllium	--	mg/kg	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	NA
Calcium	--	mg/kg	NA	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA
Magnesium	--	mg/kg	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA
Potassium	--	mg/kg	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA
Sodium	--	mg/kg	NA	NA	NA	NA
Thallium	--	mg/kg	NA	NA	NA	NA
Vanadium	--	mg/kg	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA

Table 2A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-02 (IDPH Location S11) - Composite Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-02-COMP4(0-1) 0 - 1 06/01/05	OU4-SS-02-COMP4(1-6) 1 - 6 06/01/05	OU4-SS-02-COMP4(6-12) 6 - 12 06/01/05	OU4-SS-02-COMP4(12-18) 12 - 18 06/01/05
Metals - XRF (USEPA SW-846 6200)						
Arsenic	43	mg/kg	8.40 U	22.1	18.4	7.10
Barium	55000	mg/kg	598	2630	612	262 U
Cadmium	390	mg/kg	33.9 U	60.1 J	39.7 U	34.7 U
Chromium	3900	mg/kg	102 U	137 U	120 U	96.0 U
Cobalt	47000	mg/kg	R	R	R	R
Copper	31000	mg/kg	46.2 J	89.8 J	28.0 J	12.2 U
Iron	230000	mg/kg	20200	28100	24600	19000 U
Lead	1200	mg/kg	147 J	412 J	170 J	27.7 J
Manganese	18000	mg/kg	455 UJ	540 J	564 J	501 J
Mercury	78	mg/kg	7.90 UJ	11.1 UJ	9.54 UJ	7.83 UJ
Nickel	16000	mg/kg	22.8 U	27.7 U	25.7 U	22.1 U
Selenium	3900	mg/kg	2.48 U	3.52 U	2.87 U	2.40 U
Silver	3900	mg/kg	23.9 U	28.6 U	27.8 U	24.3 U
Zinc	230000	mg/kg	1180 J	3070 J	1460 J	344 J
Metals (USEPA SW-846 6000/7000)						
Aluminum	--	mg/kg	NA	NA	NA	NA
Antimony	--	mg/kg	NA	NA	NA	NA
Arsenic	43	mg/kg	NA	11.9	10.4	NA
Barium	55000	mg/kg	NA	NA	NA	NA
Beryllium	--	mg/kg	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	NA
Calcium	--	mg/kg	NA	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA
Magnesium	--	mg/kg	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA
Potassium	--	mg/kg	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA
Sodium	--	mg/kg	NA	NA	NA	NA
Thallium	--	mg/kg	NA	NA	NA	NA
Vanadium	--	mg/kg	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA

Table 2A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-02 (IDPH Location S11) - Composite Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-02-COMP5(0-1) 0 - 1 06/01/05	OU4-SS-02-COMP5(1-6) 1 - 6 06/01/05	OU4-SS-02-COMP5(6-12) 6 - 12 06/01/05	OU4-SS-02-COMP5(12-18) 12 - 18 06/01/05
Metals - XRF (USEPA SW-846 6200)						
Arsenic	43	mg/kg	19.3	31.3	10.9	7.31
Barium	55000	mg/kg	606	1130	310 U	303 U
Cadmium	390	mg/kg	40.0 U	60.5 J	41.9 U	45.4 U
Chromium	3900	mg/kg	117 U	123 U	117 U	136 U
Cobalt	47000	mg/kg	R	R	R	R
Copper	31000	mg/kg	32.6 J	29.6 J	15.1 U	16.3 U
Iron	230000	mg/kg	25100	24200	21300 U	16500 U
Lead	1200	mg/kg	330 J	478 J	75.6 J	16.3 U
Manganese	18000	mg/kg	436 UJ	530 UJ	576 J	373 UJ
Mercury	78	mg/kg	10.2 UJ	10.9 UJ	9.74 UJ	9.20 UJ
Nickel	16000	mg/kg	25.8 U	25.9 U	25.9 U	27.3 U
Selenium	3900	mg/kg	3.24 U	3.60 U	2.88 U	3.06 U
Silver	3900	mg/kg	27.9 U	28.4 U	29.3 U	32.1 U
Zinc	230000	mg/kg	1700 J	2450 J	966 J	85.1 J
Metals (USEPA SW-846 6000/7000)						
Aluminum	--	mg/kg	NA	10800	NA	NA
Antimony	--	mg/kg	NA	6.83 U	NA	NA
Arsenic	43	mg/kg	13.5	14.1	9.02	NA
Barium	55000	mg/kg	NA	2370 J	NA	NA
Beryllium	--	mg/kg	NA	0.853	NA	NA
Cadmium	390	mg/kg	NA	26.0 J	NA	NA
Calcium	--	mg/kg	NA	5360 J	NA	NA
Chromium	3900	mg/kg	NA	21.7	NA	NA
Cobalt	47000	mg/kg	NA	6.20	NA	NA
Copper	31000	mg/kg	NA	40.2 J	NA	NA
Iron	230000	mg/kg	NA	20700 J	NA	NA
Lead	1200	mg/kg	NA	405	NA	NA
Magnesium	--	mg/kg	NA	3400	NA	NA
Manganese	18000	mg/kg	NA	598	NA	NA
Mercury	78	mg/kg	NA	0.137	NA	NA
Nickel	16000	mg/kg	NA	18.3	NA	NA
Potassium	--	mg/kg	NA	1600 J	NA	NA
Selenium	3900	mg/kg	NA	1.14 U	NA	NA
Silver	3900	mg/kg	NA	0.769 B	NA	NA
Sodium	--	mg/kg	NA	170 J	NA	NA
Thallium	--	mg/kg	NA	2.19	NA	NA
Vanadium	--	mg/kg	NA	30.6	NA	NA
Zinc	230000	mg/kg	NA	1970	NA	NA

Table 2A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-02 (IDPH Location S11) - Composite Samples

Notes:

NA = Not Analyzed
RAL = Removal Action Levels: from Hazard Evaluation Handbook: A Guide to Removal Actions. October 1997. Fourth Edition. EPA 903/B-97-006.
mg/kg = milligrams per kilogram
XRF = X-Ray Fluorescence
= values exceed Residential RAL Criteria.
J = The analyte was positively identified; however, the associated numerical value is an estimated concentration only.
U = The analyte was analyzed for but not detected.
B = The reported value was obtained from a reading less than the contract required detection limit (CRDL) but greater than or equal to the instrument detection limit (IDL).
R = The sample results are rejected.
JQ = The analyte was detected above the reported limit but below the method detection limit; therefore, the reported value should not be used for quantitative measurement.
UJ = The analyte was not detected above the reported sample detection limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.
[ ] = Field Duplicate

Table 2B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-02 (IDPH Location S11 - Discrete Samples)

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-02-01(0-1) 0 - 1 06/20/05	OU4-SS-02-01(1-6) 1 - 6 06/20/05	OU4-SS-02-01(6-12) 6 - 12 06/23/05	OU4-SS-02-02(0-1) 0 - 1 06/20/05	OU4-SS-02-02(1-6) 1 - 6 06/20/05	OU4-SS-02-02(6-12) 6 - 12 06/23/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	10.6	38.8	NA	9.24	40.7	NA
Iron	230000	mg/kg	NA	NA	23300	NA	NA	91400

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-02-03(0-1) 0 - 1 06/20/05	OU4-SS-02-03(1-6) 1 - 6 06/20/05	OU4-SS-02-03(6-12) 6 - 12 06/23/05	OU4-SS-02-04(0-1) 0 - 1 06/20/05	OU4-SS-02-04(1-6) 1 - 6 06/20/05	OU4-SS-02-04(6-12) 6 - 12 06/23/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	12.8 U	42.6	NA	14.5	21.6	NA
Iron	230000	mg/kg	NA	NA	23100	NA	NA	20400

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-02-05(1-6) 1 - 6 06/20/05	OU4-SS-02-05(6-12) 6 - 12 06/23/05	OU4-SS-02-05(12-18) 12 - 18 06/20/05	OU4-SS-02-06(1-6) 1 - 6 06/20/05	OU4-SS-02-06(6-12) 6 - 12 06/23/05	OU4-SS-02-06(12-18) 12 - 18 06/20/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	10.2	6.18 J	9.49	9.36	14.0 J	4.91
Iron	230000	mg/kg	NA	NA	NA	NA	NA	NA

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-02-07(1-6) 1 - 6 06/20/05	OU4-SS-02-07(6-12) 6 - 12 06/23/05	OU4-SS-02-07(12-18) 12 - 18 06/20/05	OU4-SS-02-08(1-6) 1 - 6 06/20/05	OU4-SS-02-08(6-12) 6 - 12 06/23/05	OU4-SS-02-08(12-18) 12 - 18 06/20/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	12.8 U	21.4 J	14.3	7.62	10.3 J	8.72
Iron	230000	mg/kg	NA	NA	NA	NA	NA	NA

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-02-09(1-6) 1 - 6 06/20/05	OU4-SS-02-09(6-12) 6 - 12 06/23/05	OU4-SS-02-09(12-18) 12 - 18 06/20/05	OU4-SS-02-10(0-1) 0 - 1 06/20/05	OU4-SS-02-10(1-6) 1 - 6 06/20/05	OU4-SS-02-10(6-12) 6 - 12 06/20/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	10.1	8.15 J	7.03 [8.02]	6.23 U	10.4	11.6
Iron	230000	mg/kg	NA	NA	NA	NA	NA	NA

Table 2B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-02 (IDPH Location S11 - Discrete Samples)

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-02-11(0-1) 0 - 1 06/20/05	OU4-SS-02-11(1-6) 1 - 6 06/20/05	OU4-SS-02-11(6-12) 6 - 12 06/20/05	OU4-SS-02-12(0-1) 0 - 1 06/20/05	OU4-SS-02-12(1-6) 1 - 6 06/20/05	OU4-SS-02-12(6-12) 6 - 12 06/20/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	6.13 U	15.1	6.37	7.54	15.1	12.8
Iron	230000	mg/kg	NA	NA	NA	NA	NA	NA

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-02-13(0-1) 0 - 1 06/20/05	OU4-SS-02-13(1-6) 1 - 6 06/20/05	OU4-SS-02-13(6-12) 6 - 12 06/20/05	OU4-SS-02-14(0-1) 0 - 1 06/20/05	OU4-SS-02-14(1-6) 1 - 6 06/20/05	OU4-SS-02-14(6-12) 6 - 12 06/20/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	10.1 U	14.5	7.94	8.16	11.7 U	11.3
Iron	230000	mg/kg	NA	NA	NA	NA	NA	NA

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-02-15(1-6) 1 - 6 06/20/05	OU4-SS-02-15(6-12) 6 - 12 06/20/05	OU4-SS-02-16(1-6) 1 - 6 06/20/05	OU4-SS-02-16(6-12) 6 - 12 06/20/05	OU4-SS-02-17(1-6) 1 - 6 06/20/05	OU4-SS-02-17(6-12) 6 - 12 06/20/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	29.6	14.5	12.1	10.9	24.3	6.02
Iron	230000	mg/kg	NA	NA	NA	NA	NA	NA

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-02-18(1-6) 1 - 6 06/20/05	OU4-SS-02-18(6-12) 6 - 12 06/20/05	OU4-SS-02-19(1-6) 1 - 6 06/20/05	OU4-SS-02-19(6-12) 6 - 12 06/20/05	OU4-SS-02-20(0-1) 0 - 1 06/20/05	OU4-SS-02-20(1-6) 1 - 6 06/20/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	14.4	4.77 U	28.3 [37.0]	19.3	11.2	12.4 U
Iron	230000	mg/kg	NA	NA	NA	NA	NA	NA

Table 2B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-02 (IDPH Location S11 - Discrete Samples)

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-02-20(6-12) 6 - 12 06/20/05	OU4-SS-02-21(0-1) 0 - 1 06/20/05	OU4-SS-02-21(1-6) 1 - 6 06/20/05	OU4-SS-02-21(6-12) 6 - 12 06/20/05	OU4-SS-02-22(0-1) 0 - 1 06/20/05	OU4-SS-02-22(1-6) 1 - 6 06/20/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	9.52	8.31	15.9	7.08	27.3	22.1
Iron	230000	mg/kg	NA	NA	NA	NA	NA	NA

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-02-22(6-12) 6 - 12 06/20/05	OU4-SS-02-23(0-1) 0 - 1 06/20/05	OU4-SS-02-23(1-6) 1 - 6 06/20/05	OU4-SS-02-23(6-12) 6 - 12 06/20/05
Metals - XRF (USEPA SW-846 6200)						
Arsenic	43	mg/kg	9.86	24.9	32.3	8.51 [6.96 U]
Iron	230000	mg/kg	NA	NA	NA	NA

Notes:
NA = Not Analyzed
RAL = Removal Action Levels: from Hazard Evaluation Handbook: A Guide to Removal Actions. October 1997. Fourth Edition. EPA 903/B-97-006.
g/kg = milligrams per kilogram
XRF = X-Ray Fluorescence
= values exceed Residential RAL Criteria.
J = The analyte was positively identified; however, the associated numerical value is an estimated concentration only.
U = The analyte was analyzed for but not detected.
B = The reported value was obtained from a reading less than the contract required detection limit (CRDL) but greater than or equal to the instrument detection limit (IDL).
R = The sample results are rejected.
JQ = The analyte was detected above the reported limit but below the method detection limit; therefore, the reported value should not be used for quantitative measurement.
UJ = The analyte was not detected above the reported sample detection limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.
[ ] = Field Duplicate

Non-responsive

Table 3A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-03 (IDPH Location S16) - Composite Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-03-COMP1(0-1) 0 - 1 06/02/05	OU4-SS-03-COMP1(1-6) 1 - 6 06/02/05	OU4-SS-03-COMP1(6-12) 6 - 12 06/02/05	OU4-SS-03-COMP1(12-18) 12 - 18 06/02/05
Metals - XRF (USEPA SW-846 6200)						
Arsenic	43	mg/kg	26.4	19.9	22.4	5.14 U
Barium	55000	mg/kg	2900	998	583	260 U
Cadmium	390	mg/kg	111	85.5	37.9 U	34.7 U
Chromium	3900	mg/kg	139 U	130 U	112 U	95.2 U
Cobalt	47000	mg/kg	R	R	R	R
Copper	31000	mg/kg	82.5 J	49.3 J	29.8 J	12.5 UJ
Iron	230000	mg/kg	29000	29500	23100 U	17600 U
Lead	1200	mg/kg	640 J	290 J	229 J	33.9 J
Manganese	18000	mg/kg	916 J	1030 J	956 J	817 J
Mercury	78	mg/kg	12.8 UJ	11.3 UJ	9.75 UJ	7.68 UJ
Nickel	16000	mg/kg	28.0 U	27.1 U	24.9 U	20.7 U
Selenium	3900	mg/kg	3.52 U	2.99 U	2.76 U	2.43 U
Silver	3900	mg/kg	28.2 U	27.6 U	26.5 U	24.3 U
Zinc	230000	mg/kg	7150 J	5030 J	2270 J	527 J
Metals (USEPA SW-846 6000/7000)						
Aluminum	--	mg/kg	11600	NA	NA	NA
Antimony	--	mg/kg	6.60 UJ	NA	NA	NA
Arsenic	43	mg/kg	18.2	19.8	11.1	NA
Barium	55000	mg/kg	6200	NA	NA	NA
Beryllium	--	mg/kg	0.823	NA	NA	NA
Cadmium	390	mg/kg	109 J	49.7 J	NA	NA
Calcium	--	mg/kg	9510	NA	NA	NA
Chromium	3900	mg/kg	21.3	NA	NA	NA
Cobalt	47000	mg/kg	9.71	NA	NA	NA
Copper	31000	mg/kg	97.1	NA	NA	NA
Iron	230000	mg/kg	28500	NA	NA	NA
Lead	1200	mg/kg	584	NA	NA	NA
Magnesium	--	mg/kg	3140	NA	NA	NA
Manganese	18000	mg/kg	832	NA	NA	NA
Mercury	78	mg/kg	0.208	NA	NA	NA
Nickel	16000	mg/kg	18.9	NA	NA	NA
Potassium	--	mg/kg	1940	NA	NA	NA
Selenium	3900	mg/kg	2.68	NA	NA	NA
Silver	3900	mg/kg	2.06 J	NA	NA	NA
Sodium	--	mg/kg	175	NA	NA	NA
Thallium	--	mg/kg	2.55	NA	NA	NA
Vanadium	--	mg/kg	31.2 J	NA	NA	NA
Zinc	230000	mg/kg	5850 J	NA	NA	NA

Table 3A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-03 (IDPH Location S16) - Composite Samples

Sample ID: Sample Depth(inches): Date Collected:	Residential RAL	Units	OU4-SS-03-COMP2(0-1) 0 - 1 06/02/05	OU4-SS-03-COMP2(1-6) 1 - 6 06/02/05	OU4-SS-03-COMP2(6-12) 6 - 12 06/02/05	OU4-SS-03-COMP2(12-18) 12 - 18 06/02/05
Metals - XRF (USEPA SW-846 6200)						
Arsenic	43	mg/kg	18.9	30.1	26.5	14.0
Barium	55000	mg/kg	916	1610	865	386
Cadmium	390	mg/kg	37.2 U	51.3	40.0 U	39.3 U
Chromium	3900	mg/kg	113 U	124 U	126 U	119 U
Cobalt	47000	mg/kg	R	R	R	R
Copper	31000	mg/kg	42.3 J	53.6 J	45.8 J	26.3 J
Iron	230000	mg/kg	21500 U	27600	30700	24200 U
Lead	1200	mg/kg	285 J	425 J	398 J	291 J
Manganese	18000	mg/kg	551 UJ	702 J	729 J	794 J
Mercury	78	mg/kg	9.94 UJ	11.9 UJ	11.5 UJ	10.3 UJ
Nickel	16000	mg/kg	23.8 U	28.4 U	28.3 U	26.2 U
Selenium	3900	mg/kg	3.08 U	3.12 U	3.22 U	3.10 U
Silver	3900	mg/kg	26.0 U	27.7 U	28.1 U	27.7 U
Zinc	230000	mg/kg	2840 J	5180 J	4390 J	2330 J
Metals (USEPA SW-846 6000/7000)						
Aluminum	--	mg/kg	NA	NA	NA	NA
Antimony	--	mg/kg	NA	NA	NA	NA
Arsenic	43	mg/kg	12.8	17.8	16.2	12.5
Barium	55000	mg/kg	NA	NA	NA	NA
Beryllium	--	mg/kg	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	NA
Calcium	--	mg/kg	NA	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA
Magnesium	--	mg/kg	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA
Potassium	--	mg/kg	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA
Sodium	--	mg/kg	NA	NA	NA	NA
Thallium	--	mg/kg	NA	NA	NA	NA
Vanadium	--	mg/kg	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA

Table 3A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-03 (IDPH Location S16) - Composite Samples

Sample ID: Sample Depth(inches): Date Collected:	Residential RAL	Units	OU4-SS-03-COMP3(0-1) 0 - 1 06/02/05	OU4-SS-03-COMP3(1-6) 1 - 6 06/02/05	OU4-SS-03-COMP3(6-12) 6 - 12 06/02/05	OU4-SS-03-COMP3(12-18) 12 - 18 06/02/05
Metals - XRF (USEPA SW-846 6200)						
Arsenic	43	mg/kg	15.2	29.8	20.1	31.6
Barium	55000	mg/kg	788	1140	868	343 U
Cadmium	390	mg/kg	56.0	79.6	41.4 U	40.6 U
Chromium	3900	mg/kg	120 U	135 U	136 U	132 U
Cobalt	47000	mg/kg	R	R	R	R
Copper	31000	mg/kg	61.2 J	54.3 J	37.6 J	29.2 J
Iron	230000	mg/kg	27200	34400	42700	39500
Lead	1200	mg/kg	404 J	442 J	346 J	269 J
Manganese	18000	mg/kg	600 UJ	714 J	909 J	652 UJ
Mercury	78	mg/kg	11.0 UJ	12.2 UJ	11.8 UJ	11.4 UJ
Nickel	16000	mg/kg	27.2 U	30.0 U	31.7 U	30.6 U
Selenium	3900	mg/kg	3.29 U	3.37 U	3.45 U	3.01 U
Silver	3900	mg/kg	27.3 U	28.3 U	29.5 U	28.5 U
Zinc	230000	mg/kg	3860 J	4660 J	3560 J	2100 J
Metals (USEPA SW-846 6000/7000)						
Aluminum	--	mg/kg	NA	9330	NA	NA
Antimony	--	mg/kg	NA	1.12 J	NA	NA
Arsenic	43	mg/kg	15.4	19.7	23.5	20.5
Barium	55000	mg/kg	NA	1850	NA	NA
Beryllium	--	mg/kg	NA	0.947	NA	NA
Cadmium	390	mg/kg	NA	41.6 J	NA	NA
Calcium	--	mg/kg	NA	21800	NA	NA
Chromium	3900	mg/kg	NA	18.7	NA	NA
Cobalt	47000	mg/kg	NA	10.2	NA	NA
Copper	31000	mg/kg	NA	99.9	NA	NA
Iron	230000	mg/kg	NA	28600	NA	NA
Lead	1200	mg/kg	NA	519	NA	NA
Magnesium	--	mg/kg	NA	10100	NA	NA
Manganese	18000	mg/kg	NA	939	NA	NA
Mercury	78	mg/kg	NA	0.146	NA	NA
Nickel	16000	mg/kg	NA	18.4	NA	NA
Potassium	--	mg/kg	NA	1580	NA	NA
Selenium	3900	mg/kg	NA	1.83	NA	NA
Silver	3900	mg/kg	NA	1.36 J	NA	NA
Sodium	--	mg/kg	NA	187	NA	NA
Thallium	--	mg/kg	NA	1.98	NA	NA
Vanadium	--	mg/kg	NA	26.8 J	NA	NA
Zinc	230000	mg/kg	NA	4050 J	NA	NA

Table 3A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-03 (IDPH Location S16) - Composite Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-03-COMP4(0-1) 0 - 1 06/02/05	OU4-SS-03-COMP4(1-6) 1 - 6 06/02/05	OU4-SS-03-COMP4(6-12) 6 - 12 06/02/05	OU4-SS-03-COMP4(12-18) 12 - 18 06/02/05
Metals - XRF (USEPA SW-846 6200)						
Arsenic	43	mg/kg	45.1	8.45	7.25 U	20.1
Barium	55000	mg/kg	688	437	352	342
Cadmium	390	mg/kg	39.6 U	35.1 U	33.9 U	41.8 U
Chromium	3900	mg/kg	124 U	97.5 U	92.6 U	127 U
Cobalt	47000	mg/kg	R	R	R	R
Copper	31000	mg/kg	48.6 J	16.5 J	12.2 UJ	37.8 J
Iron	230000	mg/kg	25500 U	16300 U	16500 U	28000
Lead	1200	mg/kg	778 J	112 J	106 J	270 J
Manganese	18000	mg/kg	754 J	638 UJ	643 UJ	807 J
Mercury	78	mg/kg	11.3 UJ	7.86 UJ	7.58 UJ	12.1 JQ
Nickel	16000	mg/kg	27.4 U	20.3 U	20.6 U	28.4 U
Selenium	3900	mg/kg	3.78 U	2.41 U	2.40 U	3.01 U
Silver	3900	mg/kg	27.8 U	24.3 U	23.5 U	29.2 U
Zinc	230000	mg/kg	3300 J	955 J	869 J	2070 J
Metals (USEPA SW-846 6000/7000)						
Aluminum	--	mg/kg	7930	NA	NA	NA
Antimony	--	mg/kg	1.27 J	NA	NA	NA
Arsenic	43	mg/kg	12.1	NA	NA	10.9
Barium	55000	mg/kg	1390	NA	NA	NA
Beryllium	--	mg/kg	0.726	NA	NA	NA
Cadmium	390	mg/kg	30.0 J	NA	NA	NA
Calcium	--	mg/kg	7610	NA	NA	NA
Chromium	3900	mg/kg	23.7	NA	NA	NA
Cobalt	47000	mg/kg	7.83	NA	NA	NA
Copper	31000	mg/kg	57.9	NA	NA	NA
Iron	230000	mg/kg	22100	NA	NA	NA
Lead	1200	mg/kg	769	NA	NA	NA
Magnesium	--	mg/kg	3030	NA	NA	NA
Manganese	18000	mg/kg	671	NA	NA	NA
Mercury	78	mg/kg	0.259	NA	NA	NA
Nickel	16000	mg/kg	17.3	NA	NA	NA
Potassium	--	mg/kg	1160	NA	NA	NA
Selenium	3900	mg/kg	1.58	NA	NA	NA
Silver	3900	mg/kg	1.14 J	NA	NA	NA
Sodium	--	mg/kg	122	NA	NA	NA
Thallium	--	mg/kg	1.78	NA	NA	NA
Vanadium	--	mg/kg	24.4 J	NA	NA	NA
Zinc	230000	mg/kg	2480 J	NA	NA	NA

Table 3A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-03 (IDPH Location S16) - Composite Samples

Notes:

NA = Not Analyzed
RAL = Removal Action Levels: from Hazard Evaluation Handbook: A Guide to Removal Actions. October 1997. Fourth Edition. EPA 903/B-97-006.
mg/kg = milligrams per kilogram
XRF = X-Ray Fluorescence
= values exceed Residential RAL Criteria.
J = The analyte was positively identified; however, the associated numerical value is an estimated concentration only.
U = The analyte was analyzed for but not detected.
B = The reported value was obtained from a reading less than the contract required detection limit (CRDL) but greater than or equal to the instrument detection limit (IDL).
R = The sample results are rejected.
JQ = The analyte was detected above the reported limit but below the method detection limit; therefore, the reported value should not be used for quantitative measurement.
UJ = The analyte was not detected above the reported sample detection limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.
[ ] = Field Duplicate

Table 3B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-03 (IDPH Location S16) - Discrete Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-03-01(0-1) 0 - 1 06/23/05	OU4-SS-03-01(1-6) 1 - 6 06/23/05	OU4-SS-03-01(6-12) 6 - 12 06/21/05	OU4-SS-03-02(0-1) 0 - 1 06/23/05	OU4-SS-03-02(1-6) 1 - 6 06/23/05	OU4-SS-03-02(6-12) 6 - 12 06/21/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	13.7 U	25.9 J	12.8 U	17.2 U	17.7 J	6.47 J
Cadmium	390	mg/kg	67.4 U	80.1 U	NA	116 U	35.7 U	NA
Metals (USEPA SW-846 6000/7000)								
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-03-03(0-1) 0 - 1 06/23/05	OU4-SS-03-03(1-6) 1 - 6 06/23/05	OU4-SS-03-03(6-12) 6 - 12 06/21/05	OU4-SS-03-04(0-1) 0 - 1 06/23/05	OU4-SS-03-04(1-6) 1 - 6 06/23/05	OU4-SS-03-04(6-12) 6 - 12 06/21/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	21.6 J	13.4 J	7.98 U	20.3 J	24.1 J	34.8 J
Cadmium	390	mg/kg	109 U	56.4 U	NA	74.6 U	114 U	NA
Metals (USEPA SW-846 6000/7000)								
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-03-05(0-1) 0 - 1 06/23/05	OU4-SS-03-05(1-6) 1 - 6 06/23/05	OU4-SS-03-05(6-12) 6 - 12 06/21/05	OU4-SS-03-06(0-1) 0 - 1 06/21/05	OU4-SS-03-06(1-6) 1 - 6 06/21/05	OU4-SS-03-06(6-12) 6 - 12 06/21/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	40.1 J	17.8 J	5.17 U	7.54 J	17.5 J	11.6
Cadmium	390	mg/kg	228	52.0 U	NA	NA	NA	NA
Metals (USEPA SW-846 6000/7000)								
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-03-06(12-18) 12 - 18 06/21/05	OU4-SS-03-07(0-1) 0 - 1 06/21/05	OU4-SS-03-07(1-6) 1 - 6 06/21/05	OU4-SS-03-07(6-12) 6 - 12 06/21/05	OU4-SS-03-07(12-18) 12 - 18 06/21/05	OU4-SS-03-08(0-1) 0 - 1 06/21/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	8.80	7.72 U	13.1 U	23.7	16.1	9.76 U
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Metals (USEPA SW-846 6000/7000)								
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA

Table 3B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-03 (IDPH Location S16) - Discrete Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-03-08(1-6) 1 - 6 06/21/05	OU4-SS-03-08(6-12) 6 - 12 06/21/05	OU4-SS-03-08(12-18) 12 - 18 06/21/05	OU4-SS-03-09(0-1) 0 - 1 06/21/05	OU4-SS-03-09(1-6) 1 - 6 06/21/05	OU4-SS-03-09(6-12) 6 - 12 06/21/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	25.9 J	23.7	24.0	16.1 U	29.8 J	18.3
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Metals (USEPA SW-846 6000/7000)								
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-03-09(12-18) 12 - 18 06/21/05	OU4-SS-03-10(0-1) 0 - 1 06/21/05	OU4-SS-03-10(1-6) 1 - 6 06/21/05	OU4-SS-03-10(6-12) 6 - 12 06/21/05	OU4-SS-03-10(12-18) 12 - 18 06/21/05	OU4-SS-03-11(0-1) 0 - 1 06/21/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	21.8	24.4 J	31.0 J [26.2 J]	12.3	12.4	24.1 J
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Metals (USEPA SW-846 6000/7000)								
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-03-11(1-6) 1 - 6 06/21/05	OU4-SS-03-11(6-12) 6 - 12 06/21/05	OU4-SS-03-11(12-18) 12 - 18 06/21/05	OU4-SS-03-12(0-1) 0 - 1 06/21/05	OU4-SS-03-12(1-6) 1 - 6 06/21/05	OU4-SS-03-12(6-12) 6 - 12 06/21/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	16.3 J	12.9 U	18.8 J	18.4 J	25.2 J	16.4 J
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Metals (USEPA SW-846 6000/7000)								
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-03-12(12-18) 12 - 18 06/21/05	OU4-SS-03-13(0-1) 0 - 1 06/21/05	OU4-SS-03-13(1-6) 1 - 6 06/21/05	OU4-SS-03-13(6-12) 6 - 12 06/21/05	OU4-SS-03-13(12-18) 12 - 18 06/02/05	OU4-SS-03-14(0-1) 0 - 1 06/21/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	32.0 J	13.3 U	21.8 J	29.3 J	69.2 J	17.4 J
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Metals (USEPA SW-846 6000/7000)								
Arsenic	43	mg/kg	NA	NA	NA	NA	43.4 [50.5 J]	NA

Table 3B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-03 (IDPH Location S16) - Discrete Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-03-14(1-6) 1 - 6 06/21/05	OU4-SS-03-14(6-12) 6 - 12 06/21/05	OU4-SS-03-14(12-18) 12 - 18 06/21/05	OU4-SS-03-15(0-1) 0 - 1 06/21/05	OU4-SS-03-15(1-6) 1 - 6 06/21/05	OU4-SS-03-15(6-12) 6 - 12 06/21/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	20.1 J	24.3 J	13.5 J	19.4 J	31.5 J	32.1 J [29.5 J]
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Metals (USEPA SW-846 6000/7000)								
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-03-15(12-18) 12 - 18 06/21/05	OU4-SS-03-16(0-1) 0 - 1 06/21/05	OU4-SS-03-16(12-18) 12 - 18 06/21/05	OU4-SS-03-17(0-1) 0 - 1 06/21/05	OU4-SS-03-17(12-18) 12 - 18 06/21/05	OU4-SS-03-18(0-1) 0 - 1 06/02/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	15.5 J	21.0 J	16.6 J	25.2 J	19.7 J	54.2 J
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Metals (USEPA SW-846 6000/7000)								
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	9.02 [8.38 J]

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-03-18(12-18) 12 - 18 06/21/05	OU4-SS-03-19(0-1) 0 - 1 06/21/05	OU4-SS-03-19(12-18) 12 - 18 06/21/05
Metals - XRF (USEPA SW-846 6200)					
Arsenic	43	mg/kg	5.34 U	18.7 J	11.6 J
Cadmium	390	mg/kg	NA	NA	NA
Metals (USEPA SW-846 6000/7000)					
Arsenic	43	mg/kg	NA	NA	NA

Notes:

NA = Not Analyzed
RAL = Removal Action Levels: from Hazard Evaluation Handbook: A Guide to Removal Actions. October 1997. Fourth Edition. EPA 903/B-97-006.
mg/kg = milligrams per kilogram
XRF = X-Ray Fluorescence
= values exceed Residential RAL Criteria.
J = The analyte was positively identified; however, the associated numerical value is an estimated concentration only.
U = The analyte was analyzed for but not detected.
B = The reported value was obtained from a reading less than the contract required detection limit (CRDL) but greater than or equal to the instrument detection limit (IDL).
R = The sample results are rejected.
JQ = The analyte was detected above the reported limit but below the method detection limit; therefore, the reported value should not be used for quantitative measurement.
UJ = The analyte was not detected above the reported sample detection limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.
[ ] = Field Duplicate

Non-responsive

Table 4A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-04 (IDPH Location E06) - Composite Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-04-COMP1(0-1) 0 - 1 06/03/05	OU4-SS-04-COMP1(1-6) 1 - 6 06/03/05	OU4-SS-04-COMP1(6-12) 6 - 12 06/03/05	OU4-SS-04-COMP1(12-18) 12 - 18 06/03/05
Metals - XRF (USEPA SW-846 6200)						
Arsenic	43	mg/kg	11.9 U	13.8 U	13.3	6.22 U
Barium	55000	mg/kg	384 J	579 J	382 J	353 J
Cadmium	390	mg/kg	38.8 U	63.9	40.0 U	34.7 U
Chromium	3900	mg/kg	115 U	122 U	124 J	91.9 U
Cobalt	47000	mg/kg	R	R	R	R
Copper	31000	mg/kg	45.7 J	45.7 J	103 J	11.9 U
Iron	230000	mg/kg	22400 U	24800	19500 U	11300 U
Lead	1200	mg/kg	276 J	361 J	225 J	68.1 J
Manganese	18000	mg/kg	724 J	874 J	1100 J	1030 J
Mercury	78	mg/kg	10.5 UJ	10.7 UJ	10.4 UJ	7.77 UJ
Nickel	16000	mg/kg	26.0 U	27.1 U	24.9 U	19.5 U
Selenium	3900	mg/kg	2.93 U	3.17 U	2.97 U	2.37 U
Silver	3900	mg/kg	27.3 UJ	27.8 UJ	27.9 UJ	24.3 UJ
Zinc	230000	mg/kg	2450 J	3240 J	2580 J	377 J
Metals (USEPA SW-846 6000/7000)						
Aluminum	--	mg/kg	NA	NA	11000	NA
Antimony	--	mg/kg	NA	NA	6.64 U	NA
Arsenic	43	mg/kg	9.78 J	14.2 J	7.96 J	NA
Barium	55000	mg/kg	NA	NA	442 J	NA
Beryllium	--	mg/kg	NA	NA	0.839	NA
Cadmium	390	mg/kg	NA	NA	7.82 J	NA
Calcium	--	mg/kg	NA	NA	2930	NA
Chromium	3900	mg/kg	NA	NA	18.1 J	NA
Cobalt	47000	mg/kg	NA	NA	9.18	NA
Copper	31000	mg/kg	NA	NA	64.0 J	NA
Iron	230000	mg/kg	NA	NA	14900 J	NA
Lead	1200	mg/kg	NA	NA	129 J	NA
Magnesium	--	mg/kg	NA	NA	2110	NA
Manganese	18000	mg/kg	NA	NA	1760 J	NA
Mercury	78	mg/kg	NA	NA	0.0860 B	NA
Nickel	16000	mg/kg	NA	NA	23.3	NA
Potassium	--	mg/kg	NA	NA	1630 J	NA
Selenium	3900	mg/kg	NA	NA	1.11 U	NA
Silver	3900	mg/kg	NA	NA	0.286 B	NA
Sodium	--	mg/kg	NA	NA	72.2 B	NA
Thallium	--	mg/kg	NA	NA	1.70	NA
Vanadium	--	mg/kg	NA	NA	29.9 J	NA
Zinc	230000	mg/kg	NA	NA	1560 J	NA

Table 4A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-04 (IDPH Location E06) - Composite Samples

Sample ID: Sample Depth(inches): Date Collected:	Residential RAL	Units	OU4-SS-04-COMP2(0-1) 0 - 1 06/03/05	OU4-SS-04-COMP2(1-6) 1 - 6 06/03/05	OU4-SS-04-COMP2(6-12) 6 - 12 06/03/05	OU4-SS-04-COMP2(12-18) 12 - 18 06/03/05
Metals - XRF (USEPA SW-846 6200)						
Arsenic	43	mg/kg	22.8	10.9 U	6.70	9.85
Barium	55000	mg/kg	456 J	636 J	330 J	326 U
Cadmium	390	mg/kg	45.3	37.6 U	36.0 U	40.5 U
Chromium	3900	mg/kg	110 U	109 U	100 U	123 U
Cobalt	47000	mg/kg	R	R	R	166 J
Copper	31000	mg/kg	46.7 J	61.4 J	22.5 J	15.2 U
Iron	230000	mg/kg	17800 U	16400 U	16700 U	24300 U
Lead	1200	mg/kg	221 J	234 J	64.2 J	148 J
Manganese	18000	mg/kg	647 J	802 J	754 J	843 J
Mercury	78	mg/kg	10.3 UJ	9.74 UJ	8.01 UJ	10.3 UJ
Nickel	16000	mg/kg	24.2 U	23.8 U	22.1 U	27.2 U
Selenium	3900	mg/kg	2.93 U	2.88 U	2.45 U	3.12 U
Silver	3900	mg/kg	26.8 UJ	26.2 UJ	25.3 UJ	28.5 UJ
Zinc	230000	mg/kg	2480 J	2510 J	1090 J	1770 J
Metals (USEPA SW-846 6000/7000)						
Aluminum	--	mg/kg	11100	NA	NA	NA
Antimony	--	mg/kg	6.56 U	NA	NA	NA
Arsenic	43	mg/kg	7.89 J	8.87 J	NA	8.51 J
Barium	55000	mg/kg	472 J	NA	NA	NA
Beryllium	--	mg/kg	0.544	NA	NA	NA
Cadmium	390	mg/kg	19.8 J	NA	NA	NA
Calcium	--	mg/kg	31500	NA	NA	NA
Chromium	3900	mg/kg	17.7 J	NA	NA	NA
Cobalt	47000	mg/kg	8.46	NA	NA	NA
Copper	31000	mg/kg	38.8 J	NA	NA	NA
Iron	230000	mg/kg	15000 J	NA	NA	NA
Lead	1200	mg/kg	143 J	NA	NA	NA
Magnesium	--	mg/kg	16800	NA	NA	NA
Manganese	18000	mg/kg	815 J	NA	NA	NA
Mercury	78	mg/kg	0.0569 B	NA	NA	NA
Nickel	16000	mg/kg	15.4	NA	NA	NA
Potassium	--	mg/kg	2170 J	NA	NA	NA
Selenium	3900	mg/kg	1.09 U	NA	NA	NA
Silver	3900	mg/kg	0.560 B	NA	NA	NA
Sodium	--	mg/kg	80.5 B	NA	NA	NA
Thallium	--	mg/kg	1.09 U	NA	NA	NA
Vanadium	--	mg/kg	29.3 J	NA	NA	NA
Zinc	230000	mg/kg	1460 J	NA	NA	NA

Table 4A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-04 (IDPH Location E06) - Composite Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-04-COMP3(0-1) 0 - 1 06/03/05	OU4-SS-04-COMP3(1-6) 1 - 6 06/03/05	OU4-SS-04-COMP3(6-12) 6 - 12 06/03/05	OU4-SS-04-COMP3(12-18) 12 - 18 06/03/05
Metals - XRF (USEPA SW-846 6200)						
Arsenic	43	mg/kg	12.3 U	18.0	6.53	5.99
Barium	55000	mg/kg	761 J	644 J	280 J	316 J
Cadmium	390	mg/kg	38.3 U	50.7	35.9 U	36.0 U
Chromium	3900	mg/kg	117 U	117 U	102 U	103 U
Cobalt	47000	mg/kg	126 U	125 U	104 U	115 U
Copper	31000	mg/kg	61.4 J	54.8 J	16.9 J	12.8 U
Iron	230000	mg/kg	23900 U	23200 U	18100 U	21500 U
Lead	1200	mg/kg	293 J	218 J	32.5 U	16.3 U
Manganese	18000	mg/kg	724 UJ	772 UJ	509 UJ	342 UJ
Mercury	78	mg/kg	10.6 UJ	10.9 UJ	8.27 UJ	7.71 U
Nickel	16000	mg/kg	26.8 U	26.4 U	22.5 U	23.4 U
Selenium	3900	mg/kg	2.96 U	3.05 U	2.48 U	2.48 U
Silver	3900	mg/kg	27.0 UJ	27.2 UJ	25.0 UJ	25.4 UJ
Zinc	230000	mg/kg	3240 J	3290 J	929 J	176 UJ
Metals (USEPA SW-846 6000/7000)						
Aluminum	--	mg/kg	NA	12300	NA	NA
Antimony	--	mg/kg	NA	6.32 U	NA	NA
Arsenic	43	mg/kg	10.3 J	9.99 J	NA	NA
Barium	55000	mg/kg	NA	564 J	NA	NA
Beryllium	--	mg/kg	NA	0.787	NA	NA
Cadmium	390	mg/kg	NA	26.9 J	NA	NA
Calcium	--	mg/kg	NA	5030	NA	NA
Chromium	3900	mg/kg	NA	18.7 J	NA	NA
Cobalt	47000	mg/kg	NA	9.55	NA	NA
Copper	31000	mg/kg	NA	45.0 J	NA	NA
Iron	230000	mg/kg	NA	19300 J	NA	NA
Lead	1200	mg/kg	NA	166 J	NA	NA
Magnesium	--	mg/kg	NA	2470	NA	NA
Manganese	18000	mg/kg	NA	830 J	NA	NA
Mercury	78	mg/kg	NA	0.0465 B	NA	NA
Nickel	16000	mg/kg	NA	19.7	NA	NA
Potassium	--	mg/kg	NA	1710 J	NA	NA
Selenium	3900	mg/kg	NA	1.05 U	NA	NA
Silver	3900	mg/kg	NA	0.635 B	NA	NA
Sodium	--	mg/kg	NA	66.4 B	NA	NA
Thallium	--	mg/kg	NA	1.05 U	NA	NA
Vanadium	--	mg/kg	NA	34.2 J	NA	NA
Zinc	230000	mg/kg	NA	2520 J	NA	NA

Table 4A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-04 (IDPH Location E06) - Composite Samples

Sample ID: Sample Depth(inches): Date Collected:	Residential RAL	Units	OU4-SS-04-COMP4(0-1) 0 - 1 06/02/05	OU4-SS-04-COMP4(1-6) 1 - 6 06/02/05	OU4-SS-04-COMP4(6-12) 6 - 12 06/02/05	OU4-SS-04-COMP4(12-18) 12 - 18 06/02/05
Metals - XRF (USEPA SW-846 6200)						
Arsenic	43	mg/kg	20.9	11.5 U	7.66	4.43 U
Barium	55000	mg/kg	349 J	572 J	270 UJ	261 UJ
Cadmium	390	mg/kg	45.5	38.8 U	35.3 U	35.0 U
Chromium	3900	mg/kg	114 U	113 U	95.6 U	93.7 U
Cobalt	47000	mg/kg	120 U	115 U	90.0 U	81.2 U
Copper	31000	mg/kg	34.3 J	78.3 J	20.5 J	11.5 U
Iron	230000	mg/kg	22000 U	20100 U	13700 U	10700 U
Lead	1200	mg/kg	361 J	247 J	84.1 J	17.9 U
Manganese	18000	mg/kg	837 UJ	832 UJ	904 J	683 UJ
Mercury	78	mg/kg	10.4 UJ	9.98 UJ	8.44 UJ	7.52 UJ
Nickel	16000	mg/kg	25.9 U	24.5 U	20.6 U	19.9 U
Selenium	3900	mg/kg	3.14 U	2.91 U	2.56 U	2.38 U
Silver	3900	mg/kg	27.0 UJ	27.2 UJ	24.6 UJ	24.5 UJ
Zinc	230000	mg/kg	1510 J	1950 J	975 J	154 J
Metals (USEPA SW-846 6000/7000)						
Aluminum	--	mg/kg	NA	NA	NA	NA
Antimony	--	mg/kg	NA	NA	NA	NA
Arsenic	43	mg/kg	9.17 J	8.31 J	NA	NA
Barium	55000	mg/kg	NA	NA	NA	NA
Beryllium	--	mg/kg	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	NA
Calcium	--	mg/kg	NA	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA
Magnesium	--	mg/kg	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA
Potassium	--	mg/kg	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA
Sodium	--	mg/kg	NA	NA	NA	NA
Thallium	--	mg/kg	NA	NA	NA	NA
Vanadium	--	mg/kg	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA

Table 4A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-04 (IDPH Location E06) - Composite Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-04-COMP5(0-1) 0 - 1 06/02/05	OU4-SS-04-COMP5(1-6) 1 - 6 06/02/05	OU4-SS-04-COMP5(6-12) 6 - 12 06/02/05	OU4-SS-04-COMP5(12-18) 12 - 18 06/02/05
Metals - XRF (USEPA SW-846 6200)						
Arsenic	43	mg/kg	10.9	7.17 U	4.35 U	9.95 U
Barium	55000	mg/kg	280 J	301 U	253 UJ	570 J
Cadmium	390	mg/kg	36.5 U	42.1 U	35.3 U	41.2 U
Chromium	3900	mg/kg	102 U	111 U	94.6 U	117 U
Cobalt	47000	mg/kg	96.7 U	104 U	81.6 U	130 JQ
Copper	31000	mg/kg	22.6 J	14.6 U	11.7 U	39.3 J
Iron	230000	mg/kg	14900 U	14900 U	10500 U	18300 U
Lead	1200	mg/kg	80.5 J	69.7 J	14.9 U	166 J
Manganese	18000	mg/kg	555 UJ	1200 J	554 UJ	893 UJ
Mercury	78	mg/kg	9.03 UJ	8.99 UJ	7.29 UJ	10.1 UJ
Nickel	16000	mg/kg	22.3 U	24.2 U	19.2 U	25.1 U
Selenium	3900	mg/kg	2.71 U	2.88 U	2.30 U	3.03 U
Silver	3900	mg/kg	25.6 UJ	29.2 UJ	24.7 UJ	28.7 UJ
Zinc	230000	mg/kg	1090 J	1040 J	97.6 J	1710 J
Metals (USEPA SW-846 6000/7000)						
Aluminum	--	mg/kg	NA	9010	NA	NA
Antimony	--	mg/kg	NA	7.24 U	NA	NA
Arsenic	43	mg/kg	NA	5.27 J	NA	9.26 J
Barium	55000	mg/kg	NA	256 J	NA	NA
Beryllium	--	mg/kg	NA	0.579	NA	NA
Cadmium	390	mg/kg	NA	5.02 J	NA	NA
Calcium	--	mg/kg	NA	3210	NA	NA
Chromium	3900	mg/kg	NA	15.5 J	NA	NA
Cobalt	47000	mg/kg	NA	8.39	NA	NA
Copper	31000	mg/kg	NA	17.4 J	NA	NA
Iron	230000	mg/kg	NA	12400 J	NA	NA
Lead	1200	mg/kg	NA	39.4 J	NA	NA
Magnesium	--	mg/kg	NA	1710	NA	NA
Manganese	18000	mg/kg	NA	1320 J	NA	NA
Mercury	78	mg/kg	NA	0.0298 B	NA	NA
Nickel	16000	mg/kg	NA	19.0	NA	NA
Potassium	--	mg/kg	NA	2510 J	NA	NA
Selenium	3900	mg/kg	NA	1.21 U	NA	NA
Silver	3900	mg/kg	NA	2.41 U	NA	NA
Sodium	--	mg/kg	NA	69.9 B	NA	NA
Thallium	--	mg/kg	NA	1.34	NA	NA
Vanadium	--	mg/kg	NA	22.7 J	NA	NA
Zinc	230000	mg/kg	NA	680 J	NA	NA

Table 4A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-04 (IDPH Location E06) - Composite Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-04-COMP6(0-1) 0 - 1 06/03/05	OU4-SS-04-COMP6(1-6) 1 - 6 06/03/05	OU4-SS-04-COMP6(6-12) 6 - 12 06/03/05	OU4-SS-04-COMP6(12-18) 12 - 18 06/03/05
Metals - XRF (USEPA SW-846 6200)						
Arsenic	43	mg/kg	28.1	25.7	7.21 U	4.63 U
Barium	55000	mg/kg	284 UJ	669 J	383 J	237 UJ
Cadmium	390	mg/kg	37.9 U	42.0 U	35.3 U	34.3 U
Chromium	3900	mg/kg	107 U	126 U	101 U	91.9 U
Cobalt	47000	mg/kg	107 U	133 U	90.1 U	73.2 U
Copper	31000	mg/kg	36.1 J	71.6 J	12.0 U	11.3 U
Iron	230000	mg/kg	17500 U	24800 U	13500 U	8790 U
Lead	1200	mg/kg	316 J	415 J	98.8 J	24.0 U
Manganese	18000	mg/kg	515 UJ	657 UJ	848 UJ	720 UJ
Mercury	78	mg/kg	8.97 UJ	11.0 UJ	7.88 UJ	7.10 UJ
Nickel	16000	mg/kg	23.7 U	27.5 U	19.8 U	18.0 U
Selenium	3900	mg/kg	3.05 U	3.35 U	2.39 U	2.22 U
Silver	3900	mg/kg	26.5 UJ	29.4 UJ	24.6 UJ	23.9 UJ
Zinc	230000	mg/kg	1690 J	2950 J	975 J	170 J
Metals (USEPA SW-846 6000/7000)						
Aluminum	--	mg/kg	NA	12800	NA	NA
Antimony	--	mg/kg	NA	6.91 U	NA	NA
Arsenic	43	mg/kg	12.5 J	10.0 J	NA	NA
Barium	55000	mg/kg	NA	577 J	NA	NA
Beryllium	--	mg/kg	NA	0.667	NA	NA
Cadmium	390	mg/kg	NA	23.9 J	NA	NA
Calcium	--	mg/kg	NA	43700	NA	NA
Chromium	3900	mg/kg	NA	25.8 J	NA	NA
Cobalt	47000	mg/kg	NA	9.55	NA	NA
Copper	31000	mg/kg	NA	47.8 J	NA	NA
Iron	230000	mg/kg	NA	17700 J	NA	NA
Lead	1200	mg/kg	NA	233 J	NA	NA
Magnesium	--	mg/kg	NA	27100	NA	NA
Manganese	18000	mg/kg	NA	956 J	NA	NA
Mercury	78	mg/kg	NA	0.0889 B	NA	NA
Nickel	16000	mg/kg	NA	18.5	NA	NA
Potassium	--	mg/kg	NA	2000 J	NA	NA
Selenium	3900	mg/kg	NA	1.15 U	NA	NA
Silver	3900	mg/kg	NA	0.614 B	NA	NA
Sodium	--	mg/kg	NA	99.5 B	NA	NA
Thallium	--	mg/kg	NA	1.15 U	NA	NA
Vanadium	--	mg/kg	NA	32.1 J	NA	NA
Zinc	230000	mg/kg	NA	2000 J	NA	NA

Table 4A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-04 (IDPH Location E06) - Composite Samples

Notes:

NA = Not Analyzed
RAL = Removal Action Levels: from Hazard Evaluation Handbook: A Guide to Removal Actions. October 1997. Fourth Edition. EPA 903/B-97-006.
mg/kg = milligrams per kilogram
XRF = X-Ray Fluorescence
= values exceed Residential RAL Criteria.
J = The analyte was positively identified; however, the associated numerical value is an estimated concentration only.
U = The analyte was analyzed for but not detected.
B = The reported value was obtained from a reading less than the contract required detection limit (CRDL) but greater than or equal to the instrument detection limit (IDL).
R = The sample results are rejected.
JQ = The analyte was detected above the reported limit but below the method detection limit; therefore, the reported value should not be used for quantitative measurement.
UJ = The analyte was not detected above the reported sample detection limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.
[ ] = Field Duplicate

Table 4B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-04 (IDPH Location E06) - Discrete Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-04-01(0-1) 0 - 1 06/23/05	OU4-SS-04-01(1-6) 1 - 6 06/23/05	OU4-SS-04-01(6-12) 6 - 12 06/21/05	OU4-SS-04-02(0-1) 0 - 1 06/23/05	OU4-SS-04-02(1-6) 1 - 6 06/23/05	OU4-SS-04-02(6-12) 6 - 12 06/21/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	26.4 J	13.7 U	8.35 U	16.1 J	11.5 U	6.69 J

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-04-03(0-1) 0 - 1 06/23/05	OU4-SS-04-03(1-6) 1 - 6 06/23/05	OU4-SS-04-03(6-12) 6 - 12 06/21/05	OU4-SS-04-04(0-1) 0 - 1 06/23/05	OU4-SS-04-04(1-6) 1 - 6 06/23/05	OU4-SS-04-04(6-12) 6 - 12 06/21/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	11.0 U	11.3 U	36.7 J	18.0 J	32.3 J	10.2 J

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-04-05(0-1) 0 - 1 06/23/05	OU4-SS-04-05(1-6) 1 - 6 06/23/05	OU4-SS-04-05(6-12) 6 - 12 06/21/05	OU4-SS-04-06(0-1) 0 - 1 06/21/05	OU4-SS-04-06(1-6) 1 - 6 06/23/05	OU4-SS-04-06(12-18) 12 - 18 06/21/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	15.2 J	19.5 J [14.3 J]	16.4 J [10.9 J]	8.03 J	5.11 J	10.7 J

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-04-07(0-1) 0 - 1 06/21/05	OU4-SS-04-07(1-6) 1 - 6 06/23/05	OU4-SS-04-07(12-18) 12 - 18 06/21/05	OU4-SS-04-08(0-1) 0 - 1 06/21/05	OU4-SS-04-08(1-6) 1 - 6 06/23/05	OU4-SS-04-08(12-18) 12 - 18 06/21/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	15.3 J	16.4 J	6.32 J	6.89 U	15.4 J	15.8 J

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-04-09(0-1) 0 - 1 06/21/05	OU4-SS-04-09(1-6) 1 - 6 06/23/05	OU4-SS-04-09(12-18) 12 - 18 06/21/05	OU4-SS-04-10(0-1) 0 - 1 06/21/05	OU4-SS-04-10(1-6) 1 - 6 06/23/05	OU4-SS-04-10(12-18) 12 - 18 06/21/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	18.9 J	10.2 U	8.07 J	10.5 U	11.5 U	6.51 J

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-04-11(0-1) 0 - 1 06/23/05	OU4-SS-04-11(1-6) 1 - 6 06/21/05	OU4-SS-04-12(0-1) 0 - 1 06/23/05	OU4-SS-04-12(1-6) 1 - 6 06/21/05	OU4-SS-04-13(0-1) 0 - 1 06/23/05	OU4-SS-04-13(1-6) 1 - 6 06/21/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	26.2 J	23.6 J	9.14 J	11.7 U	23.0 J	12.2 J

Table 4B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-04 (IDPH Location E06) - Discrete Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-04-14(0-1) 0 - 1 06/23/05	OU4-SS-04-14(1-6) 1 - 6 06/21/05	OU4-SS-04-15(0-1) 0 - 1 06/23/05	OU4-SS-04-15(1-6) 1 - 6 06/21/05	OU4-SS-04-16(0-1) 0 - 1 06/21/05	OU4-SS-04-16(1-6) 1 - 6 06/23/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	13.3 J	12.0 J	12.1 U	12.9 J	16.7 J	19.1 J

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-04-17(0-1) 0 - 1 06/21/05	OU4-SS-04-17(1-6) 1 - 6 06/23/05	OU4-SS-04-18(0-1) 0 - 1 06/21/05	OU4-SS-04-18(1-6) 1 - 6 06/23/05	OU4-SS-04-19(0-1) 0 - 1 06/21/05	OU4-SS-04-19(1-6) 1 - 6 06/23/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	8.36 U	17.9 J	8.98 J	10.1 U	8.21 J	8.06 U

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-04-20(0-1) 0 - 1 06/21/05	OU4-SS-04-20(1-6) 1 - 6 06/23/05	OU4-SS-04-24(0-1) 0 - 1 06/21/05	OU4-SS-04-24(1-6) 1 - 6 06/21/05	OU4-SS-04-25(0-1) 0 - 1 06/21/05	OU4-SS-04-25(1-6) 1 - 6 06/21/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	10.7 U [10.5 U]	11.0 U	9.35 J	19.2 J	7.00 U	8.61 U

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-04-26(0-1) 0 - 1 06/21/05	OU4-SS-04-26(1-6) 1 - 6 06/21/05	OU4-SS-04-27(0-1) 0 - 1 06/21/05	OU4-SS-04-27(1-6) 1 - 6 06/21/05
Metals - XRF (USEPA SW-846 6200)						
Arsenic	43	mg/kg	33.6 J	17.2 J	12.9 U	7.67 J

Notes:

NA = Not Analyzed
RAL = Removal Action Levels: from Hazard Evaluation Handbook: A Guide to Removal Actions. October 1997. Fourth Edition. EPA 903/B-97-006.
mg/kg = milligrams per kilogram
XRF = X-Ray Fluorescence
= values exceed Residential RAL Criteria.
J = The analyte was positively identified; however, the associated numerical value is an estimated concentration only.
U = The analyte was analyzed for but not detected.
B = The reported value was obtained from a reading less than the contract required detection limit (CRDL) but greater than or equal to the instrument detection limit (IDL).
R = The sample results are rejected.
JQ = The analyte was detected above the reported limit but below the method detection limit; therefore, the reported value should not be used for quantitative measurement.
UJ = The analyte was not detected above the reported sample detection limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.
[ ] = Field Duplicate

Non-responsive

Table 5A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-05 (IDPH Location W05) - Composite Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-05-COMP1(0-1) 0 - 1 06/06/05	OU4-SS-05-COMP1(1-6) 1 - 6 06/06/05	OU4-SS-05-COMP1(6-12) 6 - 12 06/06/05	OU4-SS-05-COMP1(12-18) 12 - 18 06/06/05
Metals - XRF (USEPA SW-846 6200)						
Arsenic	43	mg/kg	17.2	16.5	8.12 U	4.51 U
Barium	55000	mg/kg	2660 J	1760 J	258 J	242 UJ
Cadmium	390	mg/kg	45.1 J	43.7 J	35.1 U	34.6 U
Chromium	3900	mg/kg	124 U	118 U	95.2 U	92.3 U
Cobalt	47000	mg/kg	102 U	105 U	84.8 U	80.5 U
Copper	31000	mg/kg	32.6 J	30.8 J	37.3 J	11.5 U
Iron	230000	mg/kg	16200 U	17400 U	12500 U	11400 U
Lead	1200	mg/kg	359 J	290 J	161 J	22.6 U
Manganese	18000	mg/kg	480 UJ	526 UJ	392 UJ	366 UJ
Mercury	78	mg/kg	9.83 UJ	9.63 UJ	8.08 UJ	7.02 UJ
Nickel	16000	mg/kg	23.2 U	23.2 U	20.3 U	18.8 U
Selenium	3900	mg/kg	3.06 U	2.88 U	2.39 U	2.31 U
Silver	3900	mg/kg	26.9 UJ	26.7 UJ	24.5 UJ	24.2 UJ
Zinc	230000	mg/kg	2510 J	2460 J	526 J	96.1 J
Metals (USEPA SW-846 6000/7000)						
Aluminum	--	mg/kg	NA	NA	NA	NA
Antimony	--	mg/kg	NA	NA	NA	NA
Arsenic	43	mg/kg	9.03	10.3	NA	NA
Barium	55000	mg/kg	NA	NA	NA	NA
Beryllium	--	mg/kg	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	NA
Calcium	--	mg/kg	NA	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA
Magnesium	--	mg/kg	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA
Potassium	--	mg/kg	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA
Sodium	--	mg/kg	NA	NA	NA	NA
Thallium	--	mg/kg	NA	NA	NA	NA
Vanadium	--	mg/kg	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA

Table 5A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-05 (IDPH Location W05) - Composite Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-05-COMP2(0-1) 0 - 1 06/06/05	OU4-SS-05-COMP2(1-6) 1 - 6 06/06/05	OU4-SS-05-COMP2(6-12) 6 - 12 06/06/05	OU4-SS-05-COMP2(12-18) 12 - 18 06/06/05
Metals - XRF (USEPA SW-846 6200)						
Arsenic	43	mg/kg	13.3 U	26.7	21.3	8.71
Barium	55000	mg/kg	1890 J	1570 J	266 UJ	245 UJ
Cadmium	390	mg/kg	38.0 U	45.9 J	36.8 U	35.1 U
Chromium	3900	mg/kg	111 U	207 J	104 U	96.8 U
Cobalt	47000	mg/kg	105 U	124 U	87.9 U	86.7 U
Copper	31000	mg/kg	32.4 J	68.0 J	32.3 J	11.4 U
Iron	230000	mg/kg	18300 U	24900 U	12900 U	13100 U
Lead	1200	mg/kg	382 J	228 J	47.8 U	11.7 U
Manganese	18000	mg/kg	595 J	575 J	321 J	303 J
Mercury	78	mg/kg	10.2 UJ	10.1 UJ	7.44 UJ	7.49 UJ
Nickel	16000	mg/kg	26.7 JQ	25.8 U	20.5 U	19.8 U
Selenium	3900	mg/kg	2.97 U	2.98 U	2.52 U	2.35 U
Silver	3900	mg/kg	26.5 UJ	26.8 UJ	25.7 UJ	24.3 UJ
Zinc	230000	mg/kg	2300 J	2050 J	363 J	92.9 J
Metals (USEPA SW-846 6000/7000)						
Aluminum	--	mg/kg	NA	7890	NA	NA
Antimony	--	mg/kg	NA	6.35 U	NA	NA
Arsenic	43	mg/kg	12.8	26.8	16.9	NA
Barium	55000	mg/kg	NA	2400	NA	NA
Beryllium	--	mg/kg	NA	0.759	NA	NA
Cadmium	390	mg/kg	NA	14.0	NA	NA
Calcium	--	mg/kg	NA	39900	NA	NA
Chromium	3900	mg/kg	NA	30.8	NA	NA
Cobalt	47000	mg/kg	NA	5.68	NA	NA
Copper	31000	mg/kg	NA	39.2 J	NA	NA
Iron	230000	mg/kg	NA	14000	NA	NA
Lead	1200	mg/kg	NA	179	NA	NA
Magnesium	--	mg/kg	NA	22800	NA	NA
Manganese	18000	mg/kg	NA	439	NA	NA
Mercury	78	mg/kg	NA	0.149	NA	NA
Nickel	16000	mg/kg	NA	14.2	NA	NA
Potassium	--	mg/kg	NA	1540	NA	NA
Selenium	3900	mg/kg	NA	1.06 U	NA	NA
Silver	3900	mg/kg	NA	0.359 B	NA	NA
Sodium	--	mg/kg	NA	178	NA	NA
Thallium	--	mg/kg	NA	1.06 U	NA	NA
Vanadium	--	mg/kg	NA	20.0	NA	NA
Zinc	230000	mg/kg	NA	1280	NA	NA

Table 5A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-05 (IDPH Location W05) - Composite Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-05-COMP3(0-1) 0 - 1 06/06/05	OU4-SS-05-COMP3(1-6) 1 - 6 06/06/05	OU4-SS-05-COMP3(6-12) 6 - 12 06/06/05	OU4-SS-05-COMP3(12-18) 12 - 18 06/06/05
Metals - XRF (USEPA SW-846 6200)						
Arsenic	43	mg/kg	8.49 U	17.8	10.8	5.89 U
Barium	55000	mg/kg	1090 J	1640 J	535 J	266 UJ
Cadmium	390	mg/kg	34.6 U	38.5 U	43.6 J	36.1 U
Chromium	3900	mg/kg	101 U	119 U	109 U	98.7 U
Cobalt	47000	mg/kg	88.9 U	107 U	112 U	107 U
Copper	31000	mg/kg	21.3 J	36.8 J	13.6 U	12.7 U
Iron	230000	mg/kg	13800 U	18200 U	19700 U	19700 U
Lead	1200	mg/kg	150 J	215 J	85.0 J	50.2 J
Manganese	18000	mg/kg	349 UJ	472 UJ	452 UJ	369 UJ
Mercury	78	mg/kg	8.45 UJ	9.37 UJ	8.82 UJ	8.90 JQ
Nickel	16000	mg/kg	20.7 U	24.2 U	23.7 U	25.1 JQ
Selenium	3900	mg/kg	2.41 U	2.96 U	2.69 U	2.46 U
Silver	3900	mg/kg	24.1 UJ	27.0 UJ	26.5 UJ	25.2 UJ
Zinc	230000	mg/kg	1180 J	2130 J	947 J	338 J
Metals (USEPA SW-846 6000/7000)						
Aluminum	--	mg/kg	NA	9570	NA	NA
Antimony	--	mg/kg	NA	6.38 U	NA	NA
Arsenic	43	mg/kg	NA	9.01	7.59	NA
Barium	55000	mg/kg	NA	2440	NA	NA
Beryllium	--	mg/kg	NA	0.571	NA	NA
Cadmium	390	mg/kg	NA	14.7	NA	NA
Calcium	--	mg/kg	NA	33000	NA	NA
Chromium	3900	mg/kg	NA	21.0	NA	NA
Cobalt	47000	mg/kg	NA	8.12	NA	NA
Copper	31000	mg/kg	NA	26.5 J	NA	NA
Iron	230000	mg/kg	NA	14600	NA	NA
Lead	1200	mg/kg	NA	123	NA	NA
Magnesium	--	mg/kg	NA	20600	NA	NA
Manganese	18000	mg/kg	NA	506	NA	NA
Mercury	78	mg/kg	NA	0.109	NA	NA
Nickel	16000	mg/kg	NA	16.2	NA	NA
Potassium	--	mg/kg	NA	1940	NA	NA
Selenium	3900	mg/kg	NA	1.06 U	NA	NA
Silver	3900	mg/kg	NA	0.381 B	NA	NA
Sodium	--	mg/kg	NA	132	NA	NA
Thallium	--	mg/kg	NA	1.00 B	NA	NA
Vanadium	--	mg/kg	NA	23.3	NA	NA
Zinc	230000	mg/kg	NA	1350	NA	NA

Table 5A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-05 (IDPH Location W05) - Composite Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL:	Units:	OU4-SS-05-COMP4(0-1) 0 - 1 06/06/05	OU4-SS-05-COMP4(1-6) 1 - 6 06/06/05	OU4-SS-05-COMP4(6-12) 6 - 12 06/06/05	OU4-SS-05-COMP4(12-18) 12 - 18 06/06/05
Metals - XRF (USEPA SW-846 6200)						
Arsenic	43	mg/kg	16.5	9.40	4.57 U	3.96 U
Barium	55000	mg/kg	1640 J	829 J	251 UJ	217 UJ
Cadmium	390	mg/kg	39.5 U	35.1 U	35.8 U	37.4
Chromium	3900	mg/kg	115 U	98.3 U	96.1 U	87.0 U
Cobalt	47000	mg/kg	96.9 U	87.4 U	91.6 U	69.2 U
Copper	31000	mg/kg	24.8 J	14.1 J	11.7 U	10.4 U
Iron	230000	mg/kg	13700 U	12900 U	14100 U	8160 U
Lead	1200	mg/kg	555 J	145 J	19.9 U	13.5 U
Manganese	18000	mg/kg	414 UJ	411 UJ	370 UJ	353 UJ
Mercury	78	mg/kg	10.5 UJ	7.89 UJ	7.44 UJ	6.93 UJ
Nickel	16000	mg/kg	23.3 U	20.2 U	20.6 U	17.1 U
Selenium	3900	mg/kg	3.25 U	2.52 U	2.29 U	2.29 U
Silver	3900	mg/kg	27.4 UJ	24.6 UJ	24.9 UJ	23.7 UJ
Zinc	230000	mg/kg	2550 J	1290 J	95.5 J	53.5 U
Metals (USEPA SW-846 6000/7000)						
Aluminum	--	mg/kg	8480	NA	NA	NA
Antimony	--	mg/kg	6.85 U	NA	NA	NA
Arsenic	43	mg/kg	8.20	NA	NA	NA
Barium	55000	mg/kg	3970	NA	NA	NA
Beryllium	--	mg/kg	0.452	NA	NA	NA
Cadmium	390	mg/kg	19.6	NA	NA	NA
Calcium	--	mg/kg	5740	NA	NA	NA
Chromium	3900	mg/kg	22.3	NA	NA	NA
Cobalt	47000	mg/kg	7.20	NA	NA	NA
Copper	31000	mg/kg	34.2 J	NA	NA	NA
Iron	230000	mg/kg	14100	NA	NA	NA
Lead	1200	mg/kg	1080	NA	NA	NA
Magnesium	--	mg/kg	3840	NA	NA	NA
Manganese	18000	mg/kg	450	NA	NA	NA
Mercury	78	mg/kg	0.0950 B	NA	NA	NA
Nickel	16000	mg/kg	14.6	NA	NA	NA
Potassium	--	mg/kg	1600	NA	NA	NA
Selenium	3900	mg/kg	1.14 U	NA	NA	NA
Silver	3900	mg/kg	0.552 B	NA	NA	NA
Sodium	--	mg/kg	83.3 B	NA	NA	NA
Thallium	--	mg/kg	1.14 U	NA	NA	NA
Vanadium	--	mg/kg	22.7	NA	NA	NA
Zinc	230000	mg/kg	2470	NA	NA	NA

Table 5A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-05 (IDPH Location W05) - Composite Samples

Notes:

NA = Not Analyzed
RAL = Removal Action Levels: from Hazard Evaluation Handbook: A Guide to Removal Actions. October 1997. Fourth Edition. EPA 903/B-97-006.
mg/kg = milligrams per kilogram
XRF = X-Ray Fluorescence
= values exceed Residential RAL Criteria.
J = The analyte was positively identified; however, the associated numerical value is an estimated concentration only.
U = The analyte was analyzed for but not detected.
B = The reported value was obtained from a reading less than the contract required detection limit (CRDL) but greater than or equal to the instrument detection limit (IDL).
R = The sample results are rejected.
JQ = The analyte was detected above the reported limit but below the method detection limit; therefore, the reported value should not be used for quantitative measurement.
UJ = The analyte was not detected above the reported sample detection limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.
[ ] = Field Duplicate

Table 5B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-05 (IDPH Location W05) - Discrete Samples

Sample ID: Sample Depth(inches): Date Collected:	Residential RAL	Units	OU4-SS-05-01(0-1) 0 - 1 06/21/05	OU4-SS-05-01(1-6) 1 - 6 06/21/05	OU4-SS-05-02(0-1) 0 - 1 06/21/05	OU4-SS-05-02(1-6) 1 - 6 06/21/05	OU4-SS-05-03(0-1) 0 - 1 06/21/05	OU4-SS-05-03(1-6) 1 - 6 06/21/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	16.5 U	13.2 U	13.8 U	17.2 J	16.9 U	11.7 J
Metals (USEPA SW-846 6000/7000)								
Aluminum	--	mg/kg	NA	NA	NA	NA	NA	NA
Antimony	--	mg/kg	NA	NA	NA	NA	NA	NA
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA
Barium	55000	mg/kg	NA	NA	NA	NA	NA	NA
Beryllium	--	mg/kg	NA	NA	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Calcium	--	mg/kg	NA	NA	NA	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA	NA	NA
Magnesium	--	mg/kg	NA	NA	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA	NA	NA
Potassium	--	mg/kg	NA	NA	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA	NA	NA
Sodium	--	mg/kg	NA	NA	NA	NA	NA	NA
Thallium	--	mg/kg	NA	NA	NA	NA	NA	NA
Vanadium	--	mg/kg	NA	NA	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA	NA	NA

Table 5B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-05 (IDPH Location W05) - Discrete Samples

Sample ID: Sample Depth(inches): Date Collected:	Residential RAL	Units	OU4-SS-05-04(0-1) 0 - 1 06/21/05	OU4-SS-05-04(1-6) 1 - 6 06/21/05	OU4-SS-05-05(0-1) 0 - 1 06/21/05	OU4-SS-05-05(1-6) 1 - 6 06/21/05	OU4-SS-05-06(0-1) 0 - 1 06/23/05	OU4-SS-05-06(1-6) 1 - 6 06/21/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	10.6 U	7.95 U	17.9 J [11.7 U]	10.5 J	13.6 J	14.6 J
Metals (USEPA SW-846 6000/7000)								
Aluminum	--	mg/kg	NA	NA	NA	NA	NA	NA
Antimony	--	mg/kg	NA	NA	NA	NA	NA	NA
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA
Barium	55000	mg/kg	NA	NA	NA	NA	NA	NA
Beryllium	--	mg/kg	NA	NA	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Calcium	--	mg/kg	NA	NA	NA	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA	NA	NA
Magnesium	--	mg/kg	NA	NA	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA	NA	NA
Potassium	--	mg/kg	NA	NA	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA	NA	NA
Sodium	--	mg/kg	NA	NA	NA	NA	NA	NA
Thallium	--	mg/kg	NA	NA	NA	NA	NA	NA
Vanadium	--	mg/kg	NA	NA	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA	NA	NA

Table 5B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-05 (IDPH Location W05) - Discrete Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-05-06(6-12) 6 - 12 06/21/05	OU4-SS-05-07(0-1) 0 - 1 06/23/05	OU4-SS-05-07(1-6) 1 - 6 06/21/05	OU4-SS-05-07(6-12) 6 - 12 06/21/05	OU4-SS-05-08(0-1) 0 - 1 06/23/05	OU4-SS-05-08(1-6) 1 - 6 06/21/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	4.27 U	25.2 J	24.7 J	3.99 U	11.1 U	10.9 J
Metals (USEPA SW-846 6000/7000)								
Aluminum	--	mg/kg	NA	NA	NA	NA	NA	NA
Antimony	--	mg/kg	NA	NA	NA	NA	NA	NA
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA
Barium	55000	mg/kg	NA	NA	NA	NA	NA	NA
Beryllium	--	mg/kg	NA	NA	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Calcium	--	mg/kg	NA	NA	NA	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA	NA	NA
Magnesium	--	mg/kg	NA	NA	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA	NA	NA
Potassium	--	mg/kg	NA	NA	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA	NA	NA
Sodium	--	mg/kg	NA	NA	NA	NA	NA	NA
Thallium	--	mg/kg	NA	NA	NA	NA	NA	NA
Vanadium	--	mg/kg	NA	NA	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA	NA	NA

Table 5B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-05 (IDPH Location W05) - Discrete Samples

Sample ID: Sample Depth(inches): Date Collected:	Residential RAL	Units	OU4-SS-05-08(6-12) 6 - 12 06/21/05	OU4-SS-05-09(0-1) 0 - 1 06/23/05	OU4-SS-05-09(1-6) 1 - 6 06/06/05	OU4-SS-05-09(6-12) 6 - 12 06/06/05	OU4-SS-05-10(1-6) 1 - 6 06/21/05	OU4-SS-05-10(6-12) 6 - 12 06/21/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	4.48 U	14.4 J [15.9 J]	169 J	85.4 J	11.6 J	7.76 J
Metals (USEPA SW-846 6000/7000)								
Aluminum	--	mg/kg	NA	NA	9620	NA	NA	NA
Antimony	--	mg/kg	NA	NA	6.68 U	NA	NA	NA
Arsenic	43	mg/kg	NA	NA	111	55.7 [66.1 J]	NA	NA
Barium	55000	mg/kg	NA	NA	2650	NA	NA	NA
Beryllium	--	mg/kg	NA	NA	0.587	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	17.9	NA	NA	NA
Calcium	--	mg/kg	NA	NA	19000	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	90.4	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	4.45 J	NA	NA	NA
Copper	31000	mg/kg	NA	NA	93.8 J	NA	NA	NA
Iron	230000	mg/kg	NA	NA	17700	NA	NA	NA
Lead	1200	mg/kg	NA	NA	532	NA	NA	NA
Magnesium	--	mg/kg	NA	NA	5930	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	469	NA	NA	NA
Mercury	78	mg/kg	NA	NA	0.174	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	18.4	NA	NA	NA
Potassium	--	mg/kg	NA	NA	1970	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	1.11 U	NA	NA	NA
Silver	3900	mg/kg	NA	NA	0.723 J	NA	NA	NA
Sodium	--	mg/kg	NA	NA	250 J	NA	NA	NA
Thallium	--	mg/kg	NA	NA	1.17	NA	NA	NA
Vanadium	--	mg/kg	NA	NA	23.1	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	1780	NA	NA	NA

Table 5B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-05 (IDPH Location W05) - Discrete Samples

Sample ID: Sample Depth(inches): Date Collected:	Residential RAL	Units	OU4-SS-05-11(1-6) 1 - 6 06/21/05	OU4-SS-05-11(6-12) 6 - 12 06/21/05	OU4-SS-05-12(1-6) 1 - 6 06/21/05	OU4-SS-05-12(6-12) 6 - 12 06/21/05	OU4-SS-05-13(1-6) 1 - 6 06/21/05	OU4-SS-05-13(6-12) 6 - 12 06/21/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	11.2 J	5.22 J	9.30 J	12.4 J	10.4 J	10.1 J
Metals (USEPA SW-846 6000/7000)								
Aluminum	--	mg/kg	NA	NA	NA	NA	NA	NA
Antimony	--	mg/kg	NA	NA	NA	NA	NA	NA
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA
Barium	55000	mg/kg	NA	NA	NA	NA	NA	NA
Beryllium	--	mg/kg	NA	NA	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Calcium	--	mg/kg	NA	NA	NA	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA	NA	NA
Magnesium	--	mg/kg	NA	NA	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA	NA	NA
Potassium	--	mg/kg	NA	NA	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA	NA	NA
Sodium	--	mg/kg	NA	NA	NA	NA	NA	NA
Thallium	--	mg/kg	NA	NA	NA	NA	NA	NA
Vanadium	--	mg/kg	NA	NA	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA	NA	NA

Table 5B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-05 (IDPH Location W05) - Discrete Samples

Sample ID: Sample Depth(inches): Date Collected:	Residential RAL	Units	OU4-SS-05-14(1-6) 1 - 6 06/21/05	OU4-SS-05-14(6-12) 6 - 12 06/21/05	OU4-SS-05-15(0-1) 0 - 1 06/21/05	OU4-SS-05-15(1-6) 1 - 6 06/21/05	OU4-SS-05-15(6-12) 6 - 12 06/21/05	OU4-SS-05-15(12-18) 12 - 18 06/21/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	12.4 UJ	9.05 J [7.61 J]	10.1 U	20.0 J	9.91 U	10.2 J
Metals (USEPA SW-846 6000/7000)								
Aluminum	--	mg/kg	NA	NA	NA	8240	11900	9430
Antimony	--	mg/kg	NA	NA	NA	7.43 UJ	7.00 UJ	6.77 UJ
Arsenic	43	mg/kg	NA	NA	NA	12.4	12.5	10.5
Barium	55000	mg/kg	NA	NA	NA	4530	1300	359
Beryllium	--	mg/kg	NA	NA	NA	0.505	2.24	0.775
Cadmium	390	mg/kg	NA	NA	NA	17.1	8.89	3.75
Calcium	--	mg/kg	NA	NA	NA	25400	10400	2960
Chromium	3900	mg/kg	NA	NA	NA	20.4 J	19.1 J	18.4 J
Cobalt	47000	mg/kg	NA	NA	NA	2.35 J	8.45	6.73
Copper	31000	mg/kg	NA	NA	NA	33.6	27.1	19.2
Iron	230000	mg/kg	NA	NA	NA	14200	27300	29700
Lead	1200	mg/kg	NA	NA	NA	253	214	67.0
Magnesium	--	mg/kg	NA	NA	NA	8730	4870	2920
Manganese	18000	mg/kg	NA	NA	NA	403	576	631
Mercury	78	mg/kg	NA	NA	NA	0.111 J	0.194 J	0.155 J
Nickel	16000	mg/kg	NA	NA	NA	13.6	26.8	16.5
Potassium	--	mg/kg	NA	NA	NA	1790	1780	1530
Selenium	3900	mg/kg	NA	NA	NA	1.24 U	1.17 U	1.13 U
Silver	3900	mg/kg	NA	NA	NA	0.700 J	0.666 J	0.404 J
Sodium	--	mg/kg	NA	NA	NA	325	411	138
Thallium	--	mg/kg	NA	NA	NA	1.18 J	1.52	1.38
Vanadium	--	mg/kg	NA	NA	NA	20.2	26.9	32.8
Zinc	230000	mg/kg	NA	NA	NA	1380	1320	468

Table 5B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-05 (IDPH Location W05) - Discrete Samples

Sample ID: Sample Depth (inches): Date Collected:	Residential RAL	Units	OU4-SS-05-16(0-1) 0 - 1 06/21/05	OU4-SS-05-17(0-1) 0 - 1 06/21/05	OU4-SS-05-18(0-1) 0 - 1 06/21/05	OU4-SS-05-19(0-1) 0 - 1 06/21/05
Metals - XRF (USEPA SW-846 6200)						
Arsenic	43	mg/kg	23.5 U	13.7 U	19.5 J	12.4 J
Metals (USEPA SW-846 6000/7000)						
Aluminum	--	mg/kg	NA	NA	NA	NA
Antimony	--	mg/kg	NA	NA	NA	NA
Arsenic	43	mg/kg	NA	NA	NA	NA
Barium	55000	mg/kg	NA	NA	NA	NA
Beryllium	--	mg/kg	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	NA
Calcium	--	mg/kg	NA	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA
Magnesium	--	mg/kg	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA
Potassium	--	mg/kg	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA
Sodium	--	mg/kg	NA	NA	NA	NA
Thallium	--	mg/kg	NA	NA	NA	NA
Vanadium	--	mg/kg	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA

Table 5B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-05 (IDPH Location W05) - Discrete Samples

Notes:

NA = Not Analyzed
RAL = Removal Action Levels: from Hazard Evaluation Handbook: A Guide to Removal Actions. October 1997. Fourth Edition. EPA 903/B-97-006.
mg/kg = milligrams per kilogram
XRF = X-Ray Fluorescence
= values exceed Residential RAL Criteria.
J = The analyte was positively identified; however, the associated numerical value is an estimated concentration only.
U = The analyte was analyzed for but not detected.
B = The reported value was obtained from a reading less than the contract required detection limit (CRDL) but greater than or equal to the instrument detection limit (IDL).
R = The sample results are rejected.
JQ = The analyte was detected above the reported limit but below the method detection limit; therefore, the reported value should not be used for quantitative measurement.
UJ = The analyte was not detected above the reported sample detection limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.
[ ] = Field Duplicate

Non-responsive

Table 6A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-06 (IDPH Location D19) - Composite Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-06-COMP1(0-1) 0 - 1 06/07/05	OU4-SS-06-COMP1(1-6) 1 - 6 06/07/05	OU4-SS-06-COMP1(6-12) 6 - 12 06/07/05	OU4-SS-06-COMP1(12-18) 12 - 18 06/07/05
Metals - XRF (USEPA SW-846 6200)						
Arsenic	43	mg/kg	9.47 U	12.4 U	5.56 U	4.89
Barium	55000	mg/kg	417 J	1190 J	349 J	282 J
Cadmium	390	mg/kg	33.5 U	52.7 J	35.0 U	34.8 U
Chromium	3900	mg/kg	99.1 U	144 J	98.6 U	96.6 U
Cobalt	47000	mg/kg	99.6 U	127 U	97.7 U	97.9 U
Copper	31000	mg/kg	22.4 J	51.0 J	13.4 J	12.2 U
Iron	230000	mg/kg	17100 UJ	24500 UJ	16200 UJ	16900 UJ
Lead	1200	mg/kg	190 J	295 J	43.3 J	13.3 U
Manganese	18000	mg/kg	442 UJ	839 UJ	458 UJ	316 UJ
Mercury	78	mg/kg	8.27 UJ	11.4 UJ	8.31 UJ	7.09 UJ
Nickel	16000	mg/kg	21.0 U	26.5 U	21.1 U	21.6 U
Selenium	3900	mg/kg	2.42 U	3.05 U	2.45 U	2.31 U
Silver	3900	mg/kg	23.6 UJ	27.2 UJ	24.5 UJ	24.4 UJ
Zinc	230000	mg/kg	2310	4570	683	67.5
Metals (USEPA SW-846 6000/7000)						
Aluminum	--	mg/kg	NA	10700	NA	NA
Antimony	--	mg/kg	NA	6.39 U	NA	NA
Arsenic	43	mg/kg	NA	15.0	NA	NA
Barium	55000	mg/kg	NA	1960	NA	NA
Beryllium	--	mg/kg	NA	0.825	NA	NA
Cadmium	390	mg/kg	NA	37.5	NA	NA
Calcium	--	mg/kg	NA	5190	NA	NA
Chromium	3900	mg/kg	NA	20.3	NA	NA
Cobalt	47000	mg/kg	NA	9.73	NA	NA
Copper	31000	mg/kg	NA	49.9 J	NA	NA
Iron	230000	mg/kg	NA	24200	NA	NA
Lead	1200	mg/kg	NA	252	NA	NA
Magnesium	--	mg/kg	NA	2600	NA	NA
Manganese	18000	mg/kg	NA	774	NA	NA
Mercury	78	mg/kg	NA	0.0719 B	NA	NA
Nickel	16000	mg/kg	NA	20.1	NA	NA
Potassium	--	mg/kg	NA	1630	NA	NA
Selenium	3900	mg/kg	NA	1.06 U	NA	NA
Silver	3900	mg/kg	NA	0.906 B	NA	NA
Sodium	--	mg/kg	NA	60.1 B	NA	NA
Thallium	--	mg/kg	NA	1.10	NA	NA
Vanadium	--	mg/kg	NA	31.9	NA	NA
Zinc	230000	mg/kg	NA	4050	NA	NA

Table 6A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-06 (IDPH Location D19) - Composite Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-06-COMP2(0-1) 0 - 1 06/06/05	OU4-SS-06-COMP2(1-6) 1 - 6 06/06/05	OU4-SS-06-COMP2(6-12) 6 - 12 06/06/05	OU4-SS-06-COMP2(12-18) 12 - 18 06/06/05
Metals - XRF (USEPA SW-846 6200)						
Arsenic	43	mg/kg	12.8	17.7	11.3 U	8.17
Barium	55000	mg/kg	745 J	1300 J	434 J	249 UJ
Cadmium	390	mg/kg	37.8 J	71.0 J	38.4 J	35.1 U
Chromium	3900	mg/kg	107 U	125 U	107 U	97.0 U
Cobalt	47000	mg/kg	105 U	125 U	124 JQ	97.7 U
Copper	31000	mg/kg	27.9 J	52.2 J	28.8 J	13.1 J
Iron	230000	mg/kg	18700 UJ	23400 UJ	19400 UJ	17000 UJ
Lead	1200	mg/kg	177 J	356 J	266 J	46.8 J
Manganese	18000	mg/kg	577 UJ	694 UJ	572 UJ	527 UJ
Mercury	78	mg/kg	9.45 U	11.6 UJ	9.56 UJ	7.67 UJ
Nickel	16000	mg/kg	22.6 U	26.0 U	23.2 U	21.0 U
Selenium	3900	mg/kg	2.74 U	3.25 U	2.90 U	2.55 U
Silver	3900	mg/kg	24.8 UJ	27.5 UJ	25.4 UJ	24.4 UJ
Zinc	230000	mg/kg	2370	4690	2710	577
Metals (USEPA SW-846 6000/7000)						
Aluminum	- -	mg/kg	NA	10400	NA	NA
Antimony	- -	mg/kg	NA	6.37 U	NA	NA
Arsenic	43	mg/kg	NA	14.3	NA	NA
Barium	55000	mg/kg	NA	2490	NA	NA
Beryllium	- -	mg/kg	NA	0.754	NA	NA
Cadmium	390	mg/kg	NA	37.5	NA	NA
Calcium	- -	mg/kg	NA	3900	NA	NA
Chromium	3900	mg/kg	NA	17.4	NA	NA
Cobalt	47000	mg/kg	NA	8.22	NA	NA
Copper	31000	mg/kg	NA	52.0 J	NA	NA
Iron	230000	mg/kg	NA	20600	NA	NA
Lead	1200	mg/kg	NA	326	NA	NA
Magnesium	- -	mg/kg	NA	2210	NA	NA
Manganese	18000	mg/kg	NA	788	NA	NA
Mercury	78	mg/kg	NA	0.0837 B	NA	NA
Nickel	16000	mg/kg	NA	17.5	NA	NA
Potassium	- -	mg/kg	NA	1640	NA	NA
Selenium	3900	mg/kg	NA	1.09	NA	NA
Silver	3900	mg/kg	NA	1.25 B	NA	NA
Sodium	- -	mg/kg	NA	41.7 B	NA	NA
Thallium	- -	mg/kg	NA	1.06 U	NA	NA
Vanadium	- -	mg/kg	NA	28.5	NA	NA
Zinc	230000	mg/kg	NA	4130	NA	NA

Table 6A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-06 (IDPH Location D19) - Composite Samples

Sample ID: Sample Depth(inches): Date Collected:	Residential RAL	Units	OU4-SS-06-COMP3(0-1) 0 - 1 06/07/05	OU4-SS-06-COMP3(1-6) 1 - 6 06/07/05	OU4-SS-06-COMP3(6-12) 6 - 12 06/07/05	OU4-SS-06-COMP3(12-18) 12 - 18 06/07/05
Metals - XRF (USEPA SW-846 6200)						
Arsenic	43	mg/kg	10.8	15.6	15.6	8.78
Barium	55000	mg/kg	872 J	1980 J	942 J	256 UJ
Cadmium	390	mg/kg	55.4	71.4	36.5 U	35.2 U
Chromium	3900	mg/kg	105 U	133 U	112 U	98.2 U
Cobalt	47000	mg/kg	112 JQ	142 U	118 U	102 U
Copper	31000	mg/kg	32.5	48.0	38.9	12.7 U
Iron	230000	mg/kg	19800 J	28800 J	23300 J	18000 UJ
Lead	1200	mg/kg	230 J	360 J	274 J	46.5 J
Manganese	18000	mg/kg	557 J	725 J	603 J	467 UJ
Mercury	78	mg/kg	9.25 UJ	12.6 UJ	10.4 UJ	7.73 UJ
Nickel	16000	mg/kg	22.2 U	28.8 U	24.5 U	22.1 U
Selenium	3900	mg/kg	2.81 U	3.29 U	3.03 U	2.34 U
Silver	3900	mg/kg	24.5 UJ	28.1 UJ	25.5 UJ	24.6 UJ
Zinc	230000	mg/kg	2990	5780	3440	553
Metals (USEPA SW-846 6000/7000)						
Aluminum	--	mg/kg	NA	11700	NA	NA
Antimony	--	mg/kg	NA	6.47 U	NA	NA
Arsenic	43	mg/kg	NA	13.6	NA	NA
Barium	55000	mg/kg	NA	2740	NA	NA
Beryllium	--	mg/kg	NA	0.836	NA	NA
Cadmium	390	mg/kg	NA	56.4	NA	NA
Calcium	--	mg/kg	NA	7940	NA	NA
Chromium	3900	mg/kg	NA	19.1	NA	NA
Cobalt	47000	mg/kg	NA	8.64	NA	NA
Copper	31000	mg/kg	NA	60.4 J	NA	NA
Iron	230000	mg/kg	NA	20100	NA	NA
Lead	1200	mg/kg	NA	281	NA	NA
Magnesium	--	mg/kg	NA	4840	NA	NA
Manganese	18000	mg/kg	NA	711	NA	NA
Mercury	78	mg/kg	NA	0.0704 B	NA	NA
Nickel	16000	mg/kg	NA	18.7	NA	NA
Potassium	--	mg/kg	NA	1960	NA	NA
Selenium	3900	mg/kg	NA	1.08 U	NA	NA
Silver	3900	mg/kg	NA	1.26 B	NA	NA
Sodium	--	mg/kg	NA	50.4 B	NA	NA
Thallium	--	mg/kg	NA	1.29	NA	NA
Vanadium	--	mg/kg	NA	30.4	NA	NA
Zinc	230000	mg/kg	NA	4250	NA	NA

Table 6A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-06 (IDPH Location D19) - Composite Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-06-COMP4(0-1) 0 - 1 06/07/05	OU4-SS-06-COMP4(1-6) 1 - 6 06/07/05	OU4-SS-06-COMP4(6-12) 6 - 12 06/07/05	OU4-SS-06-COMP4(12-18) 12 - 18 06/07/05
Metals - XRF (USEPA SW-846 6200)						
Arsenic	43	mg/kg	9.35 U	29.2	11.6	6.86
Barium	55000	mg/kg	644 J	1380 J	288 J	242 UJ
Cadmium	390	mg/kg	35.4 U	87.6	35.9 U	36.4
Chromium	3900	mg/kg	106 U	136 U	103 U	93.3 U
Cobalt	47000	mg/kg	111 U	152 U	112 U	89.5 U
Copper	31000	mg/kg	24.0	66.7	13.7	11.5 U
Iron	230000	mg/kg	20700 J	33000 J	20700 J	14600 UJ
Lead	1200	mg/kg	174 J	472 J	96.4 J	17.9 J
Manganese	18000	mg/kg	543 UJ	709 J	544 UJ	370 UJ
Mercury	78	mg/kg	9.15 UJ	12.3 UJ	7.98 UJ	7.16 UJ
Nickel	16000	mg/kg	22.6 U	29.7 U	23.4 U	19.6 U
Selenium	3900	mg/kg	2.55 U	3.30 U	2.68 U	2.22 U
Silver	3900	mg/kg	24.6 UJ	28.6 UJ	25.2 UJ	23.7 UJ
Zinc	230000	mg/kg	2420	5090	1320	114
Metals (USEPA SW-846 6000/7000)						
Aluminum	--	mg/kg	NA	13300	NA	NA
Antimony	--	mg/kg	NA	6.38 U	NA	NA
Arsenic	43	mg/kg	NA	15.4	NA	NA
Barium	55000	mg/kg	NA	1680	NA	NA
Beryllium	--	mg/kg	NA	1.15	NA	NA
Cadmium	390	mg/kg	NA	38.4	NA	NA
Calcium	--	mg/kg	NA	9200	NA	NA
Chromium	3900	mg/kg	NA	24.1	NA	NA
Cobalt	47000	mg/kg	NA	11.0	NA	NA
Copper	31000	mg/kg	NA	55.7 J	NA	NA
Iron	230000	mg/kg	NA	24800	NA	NA
Lead	1200	mg/kg	NA	287	NA	NA
Magnesium	--	mg/kg	NA	4580	NA	NA
Manganese	18000	mg/kg	NA	855	NA	NA
Mercury	78	mg/kg	NA	0.125	NA	NA
Nickel	16000	mg/kg	NA	23.1	NA	NA
Potassium	--	mg/kg	NA	1950	NA	NA
Selenium	3900	mg/kg	NA	1.06 U	NA	NA
Silver	3900	mg/kg	NA	1.07 B	NA	NA
Sodium	--	mg/kg	NA	127	NA	NA
Thallium	--	mg/kg	NA	1.29	NA	NA
Vanadium	--	mg/kg	NA	34.9	NA	NA
Zinc	230000	mg/kg	NA	2960	NA	NA

Table 6A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-06 (IDPH Location D19) - Composite Samples

Sample ID: Sample Depth(inches): Date Collected:	Residential RAL	Units	OU4-SS-06-COMP5(0-1) 0 - 1 06/07/05	OU4-SS-06-COMP5(1-6) 1 - 6 06/07/05	OU4-SS-06-COMP5(6-12) 6 - 12 06/07/05	OU4-SS-06-COMP5(12-18) 12 - 18 06/07/05
Metals - XRF (USEPA SW-846 6200)						
Arsenic	43	mg/kg	13.2	19.4	13.2	8.49
Barium	55000	mg/kg	783 J	1070 J	327 UJ	316 J
Cadmium	390	mg/kg	45.8	74.4	41.6 U	35.3 U
Chromium	3900	mg/kg	108 U	109 U	125 U	97.1 U
Cobalt	47000	mg/kg	112 U	115 U	145 U	103 U
Copper	31000	mg/kg	31.2	57.2	36.2	12.6 U
Iron	230000	mg/kg	20400 J	22400 J	30400 J	18400 UJ
Lead	1200	mg/kg	274 J	313 J	168 J	52.0 J
Manganese	18000	mg/kg	483 UJ	543 UJ	508 UJ	427 UJ
Mercury	78	mg/kg	9.54 UJ	10.2 UJ	11.9 JQ	7.58 UJ
Nickel	16000	mg/kg	23.3 U	24.4 U	28.7 U	21.3 U
Selenium	3900	mg/kg	2.84 U	2.87 U	2.99 U	2.52 U
Silver	3900	mg/kg	24.8 UJ	25.0 UJ	28.8 UJ	24.6 UJ
Zinc	230000	mg/kg	3250	3900	2100	668
Metals (USEPA SW-846 6000/7000)						
Aluminum	--	mg/kg	NA	NA	10500	NA
Antimony	--	mg/kg	NA	NA	6.85 U	NA
Arsenic	43	mg/kg	NA	NA	13.0	NA
Barium	55000	mg/kg	NA	NA	252	NA
Beryllium	--	mg/kg	NA	NA	1.06	NA
Cadmium	390	mg/kg	NA	NA	16.8	NA
Calcium	--	mg/kg	NA	NA	3830	NA
Chromium	3900	mg/kg	NA	NA	21.6	NA
Cobalt	47000	mg/kg	NA	NA	7.48	NA
Copper	31000	mg/kg	NA	NA	34.5 J	NA
Iron	230000	mg/kg	NA	NA	26400	NA
Lead	1200	mg/kg	NA	NA	134	NA
Magnesium	--	mg/kg	NA	NA	2290	NA
Manganese	18000	mg/kg	NA	NA	628	NA
Mercury	78	mg/kg	NA	NA	0.0524 B	NA
Nickel	16000	mg/kg	NA	NA	20.7	NA
Potassium	--	mg/kg	NA	NA	1560	NA
Selenium	3900	mg/kg	NA	NA	1.14 U	NA
Silver	3900	mg/kg	NA	NA	0.326 B	NA
Sodium	--	mg/kg	NA	NA	135	NA
Thallium	--	mg/kg	NA	NA	1.23	NA
Vanadium	--	mg/kg	NA	NA	31.2	NA
Zinc	230000	mg/kg	NA	NA	2160	NA

Table 6A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-06 (IDPH Location D19) - Composite Samples

Notes:

NA = Not Analyzed
RAL = Removal Action Levels: from Hazard Evaluation Handbook: A Guide to Removal Actions. October 1997. Fourth Edition. EPA 903/B-97-006.
mg/kg = milligrams per kilogram
XRF = X-Ray Fluorescence
= values exceed Residential RAL Criteria.
J = The analyte was positively identified; however, the associated numerical value is an estimated concentration only.
U = The analyte was analyzed for but not detected.
B = The reported value was obtained from a reading less than the contract required detection limit (CRDL) but greater than or equal to the instrument detection limit (IDL).
R = The sample results are rejected.
JQ = The analyte was detected above the reported limit but below the method detection limit; therefore, the reported value should not be used for quantitative measurement.
UJ = The analyte was not detected above the reported sample detection limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.
[ ] = Field Duplicate

Table 6B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-06 (IDPH Location D19) - Discrete Samples

Sample ID: Sample Depth(inches): Date Collected:	Residential RAL	Units	OU4-SS-06-01(1-6) 1 - 6 06/21/05	OU4-SS-06-02(1-6) 1 - 6 06/21/05	OU4-SS-06-03(1-6) 1 - 6 06/21/05	OU4-SS-06-04(1-6) 1 - 6 06/21/05	OU4-SS-06-05(0-1) 0 - 1 06/21/05	OU4-SS-06-05(1-6) 1 - 6 06/21/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	24.5	24.8 J	13.3 J	11.4 U	10.3 J	15.5 J
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Metals (USEPA SW-846 6000/7000)								
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA

Sample ID: Sample Depth(inches): Date Collected:	Residential RAL	Units	OU4-SS-06-05(6-12) 6 - 12 06/21/05	OU4-SS-06-06(0-1) 0 - 1 06/21/05	OU4-SS-06-06(1-6) 1 - 6 06/21/05	OU4-SS-06-06(6-12) 6 - 12 06/21/05	OU4-SS-06-07(0-1) 0 - 1 06/21/05	OU4-SS-06-07(1-6) 1 - 6 06/21/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	20.3 J	9.08 J	14.1 J	10.5 U	15.7 J	21.5 J
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Metals (USEPA SW-846 6000/7000)								
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA

Sample ID: Sample Depth(inches): Date Collected:	Residential RAL	Units	OU4-SS-06-07(6-12) 6 - 12 06/21/05	OU4-SS-06-08(0-1) 0 - 1 06/21/05	OU4-SS-06-08(1-6) 1 - 6 06/21/05	OU4-SS-06-08(6-12) 6 - 12 06/21/05	OU4-SS-06-09(0-1) 0 - 1 06/21/05	OU4-SS-06-09(1-6) 1 - 6 06/21/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	10.4 J	9.40 J	17.1 J	12.3 U	9.94 J	11.7 U [18.8 J]
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Metals (USEPA SW-846 6000/7000)								
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA

Sample ID: Sample Depth(inches): Date Collected:	Residential RAL	Units	OU4-SS-06-09(6-12) 6 - 12 06/21/05	OU4-SS-06-10(0-1) 0 - 1 06/21/05	OU4-SS-06-10(1-6) 1 - 6 06/21/05	OU4-SS-06-10(6-12) 6 - 12 06/21/05	OU4-SS-06-10(12-18) 12 - 18 06/21/05	OU4-SS-06-11(0-1) 0 - 1 06/21/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	11.0 U	10.3 J	17.9 J	19.6 J	8.96 J	13.5 J
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Metals (USEPA SW-846 6000/7000)								
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA

Table 6B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-06 (IDPH Location D19) - Discrete Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-06-11(1-6) 1 - 6 06/21/05	OU4-SS-06-11(6-12) 6 - 12 06/21/05	OU4-SS-06-11(12-18) 12 - 18 06/21/05	OU4-SS-06-12(0-1) 0 - 1 06/21/05	OU4-SS-06-12(1-6) 1 - 6 06/21/05	OU4-SS-06-12(6-12) 6 - 12 06/21/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	16.1 J	15.3 J	4.75 U	12.0 J	11.5 J	8.52 J
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Metals (USEPA SW-846 6000/7000)								
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-06-12(12-18) 12 - 18 06/21/05	OU4-SS-06-13(0-1) 0 - 1 06/21/05	OU4-SS-06-13(1-6) 1 - 6 06/21/05	OU4-SS-06-13(6-12) 6 - 12 06/21/05	OU4-SS-06-13(12-18) 12 - 18 06/21/05	OU4-SS-06-14(0-1) 0 - 1 06/21/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	4.91 J	17.6 J	22.7 J	28.1 J	9.88 J	16.3 J [18.8 J]
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Metals (USEPA SW-846 6000/7000)								
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-06-14(1-6) 1 - 6 06/21/05	OU4-SS-06-14(6-12) 6 - 12 06/21/05	OU4-SS-06-14(12-18) 12 - 18 06/21/05	OU4-SS-06-15(0-1) 0 - 1 06/21/05	OU4-SS-06-15(1-6) 1 - 6 06/23/05	OU4-SS-06-15(6-12) 6 - 12 06/21/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	18.2 J	20.8 J [14.8 J]	6.29 J	14.7 J	27.1 J	6.30 J
Cadmium	390	mg/kg	NA	NA	NA	NA	107 U	NA
Metals (USEPA SW-846 6000/7000)								
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-06-16(0-1) 0 - 1 06/21/05	OU4-SS-06-16(1-6) 1 - 6 06/23/05	OU4-SS-06-16(6-12) 6 - 12 06/21/05	OU4-SS-06-17(0-1) 0 - 1 06/21/05	OU4-SS-06-17(1-6) 1 - 6 06/23/05	OU4-SS-06-17(6-12) 6 - 12 06/21/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	10.7 J	23.0 J	13.0 J	9.57 U	29.3 J	5.99 U
Cadmium	390	mg/kg	NA	99.2 U	NA	NA	85.4 U	NA
Metals (USEPA SW-846 6000/7000)								
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA

Table 6B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-06 (IDPH Location D19) - Discrete Samples

Sample ID: Sample Depth(inches): Date Collected:	Residential RAL	Units	OU4-SS-06-18(0-1) 0 - 1 06/21/05	OU4-SS-06-18(1-6) 1 - 6 06/23/05	OU4-SS-06-18(6-12) 6 - 12 06/21/05	OU4-SS-06-19(0-1) 0 - 1 06/21/05	OU4-SS-06-19(1-6) 1 - 6 06/23/05	OU4-SS-06-19(6-12) 6 - 12 06/21/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	11.2 J	32.4 J	11.3 J	7.18 J	11.2 J [12.7 J]	20.4 J [18.7 J]
Cadmium	390	mg/kg	NA	85.8 U	NA	NA	40.9 U [57.0 U]	NA
Metals (USEPA SW-846 6000/7000)								
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA

Sample ID: Sample Depth(inches): Date Collected:	Residential RAL	Units	OU4-SS-06-20(0-1) 0 - 1 06/21/05	OU4-SS-06-20(1-6) 1 - 6 06/21/05	OU4-SS-06-20(6-12) 6 - 12 06/21/05	OU4-SS-06-21(0-1) 0 - 1 06/21/05	OU4-SS-06-21(1-6) 1 - 6 06/21/05	OU4-SS-06-21(6-12) 6 - 12 06/21/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	11.6 J	20.0 J	4.79 U	15.7 J	18.6 J	10.3
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Metals (USEPA SW-846 6000/7000)								
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA

Sample ID: Sample Depth(inches): Date Collected:	Residential RAL	Units	OU4-SS-06-22(0-1) 0 - 1 06/21/05	OU4-SS-06-22(1-6) 1 - 6 06/21/05	OU4-SS-06-22(6-12) 6 - 12 06/07/05	OU4-SS-06-23(0-1) 0 - 1 06/21/05	OU4-SS-06-23(1-6) 1 - 6 06/21/05	OU4-SS-06-23(6-12) 6 - 12 06/21/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	21.4 J	12.2 J	66.7	8.10 U	27.7 J	10.3 J [9.83 J]
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
etals (USEPA SW-846 6000/7000)								
Arsenic	43	mg/kg	NA	NA	28.0 [24.7 J]	NA	NA	NA

Table 6B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-06 (IDPH Location D19) - Discrete Samples

Notes:

NA = Not Analyzed
RAL = Removal Action Levels: from Hazard Evaluation Handbook: A Guide to Removal Actions. October 1997. Fourth Edition. EPA 903/B-97-006.
mg/kg = milligrams per kilogram
XRF = X-Ray Fluorescence
= values exceed Residential RAL Criteria.
J = The analyte was positively identified; however, the associated numerical value is an estimated concentration only.
U = The analyte was analyzed for but not detected.
B = The reported value was obtained from a reading less than the contract required detection limit (CRDL) but greater than or equal to the instrument detection limit (IDL).
R = The sample results are rejected.
JQ = The analyte was detected above the reported limit but below the method detection limit; therefore, the reported value should not be used for quantitative measurement.
UJ = The analyte was not detected above the reported sample detection limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.
[ ] = Field Duplicate

Non-responsive

Table 7A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-07 (IDPH Location W02) - Composite Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-07-COMP1(0-1) 0 - 1 06/07/05	OU4-SS-07-COMP1(1-6) 1 - 6 06/07/05	OU4-SS-07-COMP1(6-12) 6 - 12 06/07/05	OU4-SS-07-COMP1(12-18) 12 - 18 06/07/05
Metals - XRF (USEPA SW-846 6200)						
Arsenic	43	mg/kg	16.4	26.1	14.7	6.38
Barium	55000	mg/kg	2010 J	3990 J	2490 J	403 J
Cadmium	390	mg/kg	53.2	59.7	50.5	35.2 U
Chromium	3900	mg/kg	123 J	143 U	125 U	96.3 U
Cobalt	47000	mg/kg	112 U	134 U	132 U	92.6 U
Copper	31000	mg/kg	37.7	81.5	49.8	16.7
Iron	230000	mg/kg	20300 J	25700 J	28200 J	14800 UJ
Lead	1200	mg/kg	361 J	498 J	393 J	37.7 J
Manganese	18000	mg/kg	479 UJ	748 J	519 UJ	419 UJ
Mercury	78	mg/kg	10.8 UJ	13.1 UJ	11.2 UJ	7.79 UJ
Nickel	16000	mg/kg	23.9 U	28.8 U	27.0 U	20.9 U
Selenium	3900	mg/kg	2.87 U	3.40 U	3.06 U	2.36 U
Silver	3900	mg/kg	25.5 UJ	28.6 UJ	25.9 UJ	24.6 UJ
Zinc	230000	mg/kg	3870	5100	3450	360
Metals (USEPA SW-846 6000/7000)						
Aluminum	--	mg/kg	NA	9660	NA	NA
Antimony	--	mg/kg	NA	6.33 U	NA	NA
Arsenic	43	mg/kg	NA	14.3	NA	NA
Barium	55000	mg/kg	NA	6030	NA	NA
Beryllium	--	mg/kg	NA	1.20	NA	NA
Cadmium	390	mg/kg	NA	42.3	NA	NA
Calcium	--	mg/kg	NA	13600	NA	NA
Chromium	3900	mg/kg	NA	16.8	NA	NA
Cobalt	47000	mg/kg	NA	8.19	NA	NA
Copper	31000	mg/kg	NA	69.6 J	NA	NA
Iron	230000	mg/kg	NA	18800	NA	NA
Lead	1200	mg/kg	NA	404	NA	NA
Magnesium	--	mg/kg	NA	6790	NA	NA
Manganese	18000	mg/kg	NA	586	NA	NA
Mercury	78	mg/kg	NA	0.114	NA	NA
Nickel	16000	mg/kg	NA	19.0	NA	NA
Potassium	--	mg/kg	NA	1930	NA	NA
Selenium	3900	mg/kg	NA	1.05 U	NA	NA
Silver	3900	mg/kg	NA	1.77 B	NA	NA
Sodium	--	mg/kg	NA	135	NA	NA
Thallium	--	mg/kg	NA	1.20	NA	NA
Vanadium	--	mg/kg	NA	26.8	NA	NA
Zinc	230000	mg/kg	NA	4100	NA	NA

Table 7A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-07 (IDPH Location W02) - Composite Samples

Sample ID: Sample Depth(inches): Date Collected:	Residential RAL	Units	OU4-SS-07-COMP2(0-1) 0 - 1 06/07/05	OU4-SS-07-COMP2(1-6) 1 - 6 06/07/05	OU4-SS-07-COMP2(6-12) 6 - 12 06/07/05	OU4-SS-07-COMP2(12-18) 12 - 18 06/07/05
Metals - XRF (USEPA SW-846 6200)						
Arsenic	43	mg/kg	10.7 U	19.6	16.0	4.71 U
Barium	55000	mg/kg	1110 J	1980 J	1100 J	306 J
Cadmium	390	mg/kg	52.2	44.4 J	39.3 U	35.2 U
Chromium	3900	mg/kg	107 U	119 U	123 U	99.5 U
Cobalt	47000	mg/kg	104 U	116 U	133 U	90.4 U
Copper	31000	mg/kg	29.4	44.0 J	41.2 J	11.7 U
Iron	230000	mg/kg	18100 UJ	22000 J	27400 J	13800 UJ
Lead	1200	mg/kg	237 J	306 J	275 J	24.5 U
Manganese	18000	mg/kg	507 UJ	535 UJ	490 UJ	379 UJ
Mercury	78	mg/kg	10.2 UJ	10.4 UJ	16.1 JQ	7.66 UJ
Nickel	16000	mg/kg	23.2 U	26.2	26.9 U	20.7 U
Selenium	3900	mg/kg	2.79 U	2.80 U	3.03 U	2.39 U
Silver	3900	mg/kg	25.0 UJ	25.9 UJ	27.6 UJ	24.5 UJ
Zinc	230000	mg/kg	2540	2990	1920	169
Metals (USEPA SW-846 6000/7000)						
Aluminum	--	mg/kg	NA	NA	10300	NA
Antimony	--	mg/kg	NA	NA	6.31 U	NA
Arsenic	43	mg/kg	NA	NA	9.56	NA
Barium	55000	mg/kg	NA	NA	1090	NA
Beryllium	--	mg/kg	NA	NA	0.875	NA
Cadmium	390	mg/kg	NA	NA	6.39	NA
Calcium	--	mg/kg	NA	NA	11600	NA
Chromium	3900	mg/kg	NA	NA	17.0	NA
Cobalt	47000	mg/kg	NA	NA	6.86	NA
Copper	31000	mg/kg	NA	NA	29.7 J	NA
Iron	230000	mg/kg	NA	NA	17100	NA
Lead	1200	mg/kg	NA	NA	182	NA
Magnesium	--	mg/kg	NA	NA	6810	NA
Manganese	18000	mg/kg	NA	NA	472	NA
Mercury	78	mg/kg	NA	NA	0.102 B	NA
Nickel	16000	mg/kg	NA	NA	17.7	NA
Potassium	--	mg/kg	NA	NA	1880	NA
Selenium	3900	mg/kg	NA	NA	1.05 U	NA
Silver	3900	mg/kg	NA	NA	0.652 B	NA
Sodium	--	mg/kg	NA	NA	135	NA
Thallium	--	mg/kg	NA	NA	1.10	NA
Vanadium	--	mg/kg	NA	NA	26.5	NA
Zinc	230000	mg/kg	NA	NA	1120	NA

Table 7A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-07 (IDPH Location W02) - Composite Samples

Sample ID: Sample Depth(inches): Date Collected:	Residential RAL	Units	OU4-SS-07-COMP3(0-1) 0 - 1 06/07/05	OU4-SS-07-COMP3(1-6) 1 - 6 06/07/05	OU4-SS-07-COMP3(6-12) 6 - 12 06/07/05	OU4-SS-07-COMP3(12-18) 12 - 18 06/07/05
Metals - XRF (USEPA SW-846 6200)						
Arsenic	43	mg/kg	10.9	13.1	11.7 U	6.27 U
Barium	55000	mg/kg	1140 J	1950 J	2520 J	484 J
Cadmium	390	mg/kg	66.8 J	39.3 J	54.5 J	35.8 U
Chromium	3900	mg/kg	105 U	130 J	122 U	98.1 U
Cobalt	47000	mg/kg	93.5 U	104 U	114 U	96.0 U
Copper	31000	mg/kg	36.9 J	51.6 J	44.8 J	12.5 U
Iron	230000	mg/kg	14100 U	17200 U	20500 U	15300 U
Lead	1200	mg/kg	185	236	271	64.3
Manganese	18000	mg/kg	372 U	359 U	513 U	388 U
Mercury	78	mg/kg	9.27 U	9.71 U	10.5 U	7.75 U
Nickel	16000	mg/kg	21.5 U	23.5 U	26.6	21.7 U
Selenium	3900	mg/kg	2.69 U	2.77 U	3.00 U	2.48 U
Silver	3900	mg/kg	25.2 U	26.0 U	26.4 U	24.9 U
Zinc	230000	mg/kg	2260	2740	2950	704
Metals (USEPA SW-846 6000/7000)						
Aluminum	--	mg/kg	NA	NA	NA	NA
Antimony	--	mg/kg	NA	NA	NA	NA
Arsenic	43	mg/kg	NA	NA	NA	NA
Barium	55000	mg/kg	NA	NA	NA	NA
Beryllium	--	mg/kg	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	NA
Calcium	--	mg/kg	NA	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA
Magnesium	--	mg/kg	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA
Potassium	--	mg/kg	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA
Sodium	--	mg/kg	NA	NA	NA	NA
Thallium	--	mg/kg	NA	NA	NA	NA
Vanadium	--	mg/kg	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA

Table 7A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-07 (IDPH Location W02) - Composite Samples

Sample ID: Sample Depth(inches): Date Collected:	Residential RAL	Units	OU4-SS-07-COMP4(0-1) 0 - 1 06/07/05	OU4-SS-07-COMP4(1-6) 1 - 6 06/07/05	OU4-SS-07-COMP4(6-12) 6 - 12 06/07/05	OU4-SS-07-COMP4(12-18) 12 - 18 06/07/05
Metals - XRF (USEPA SW-846 6200)						
Arsenic	43	mg/kg	22.1	16.5	11.3	6.28
Barium	55000	mg/kg	1860 J	1710 J	850 J	352 J
Cadmium	390	mg/kg	43.9 J	72.6 J	34.9 U	35.1 U
Chromium	3900	mg/kg	119 U	131 U	104 U	94.3 U
Cobalt	47000	mg/kg	108 U	116 U	95.8 U	90.2 U
Copper	31000	mg/kg	66.7 J	65.2 J	26.1 J	11.6 U
Iron	230000	mg/kg	17900 U	18100 U	16100 U	13800 U
Lead	1200	mg/kg	301	298	140	12.5
Manganese	18000	mg/kg	545 U	458 U	419 U	371 U
Mercury	78	mg/kg	10.7 U	11.4 U	8.51 U	7.15 U
Nickel	16000	mg/kg	24.2 U	26.5 U	21.2 U	19.9 U
Selenium	3900	mg/kg	3.01 U	3.41 U	2.57 U	2.33 U
Silver	3900	mg/kg	25.9 U	30.1 U	24.3 U	24.5 U
Zinc	230000	mg/kg	3310	3340	1710	206
Metals (USEPA SW-846 6000/7000)						
Aluminum	--	mg/kg	NA	8550	NA	NA
Antimony	--	mg/kg	NA	7.36 U	NA	NA
Arsenic	43	mg/kg	NA	11.2	NA	NA
Barium	55000	mg/kg	NA	4760	NA	NA
Beryllium	--	mg/kg	NA	0.668	NA	NA
Cadmium	390	mg/kg	NA	31.7	NA	NA
Calcium	--	mg/kg	NA	39500	NA	NA
Chromium	3900	mg/kg	NA	18.3	NA	NA
Cobalt	47000	mg/kg	NA	6.55	NA	NA
Copper	31000	mg/kg	NA	63.2 J	NA	NA
Iron	230000	mg/kg	NA	14800	NA	NA
Lead	1200	mg/kg	NA	265	NA	NA
Magnesium	--	mg/kg	NA	11200	NA	NA
Manganese	18000	mg/kg	NA	516	NA	NA
Mercury	78	mg/kg	NA	0.0946 B	NA	NA
Nickel	16000	mg/kg	NA	15.8	NA	NA
Potassium	--	mg/kg	NA	2320	NA	NA
Selenium	3900	mg/kg	NA	1.23 U	NA	NA
Silver	3900	mg/kg	NA	1.29 B	NA	NA
Sodium	--	mg/kg	NA	125	NA	NA
Thallium	--	mg/kg	NA	1.23 U	NA	NA
Vanadium	--	mg/kg	NA	22.7	NA	NA
Zinc	230000	mg/kg	NA	2570	NA	NA

Table 7A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-07 (IDPH Location W02) - Composite Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-07-COMP5(0-1) 0 - 1 06/07/05	OU4-SS-07-COMP5(1-6) 1 - 6 06/07/05	OU4-SS-07-COMP5(6-12) 6 - 12 06/07/05	OU4-SS-07-COMP5(12-18) 12 - 18 06/07/05
Metals - XRF (USEPA SW-846 6200)						
Arsenic	43	mg/kg	19.9	15.8	10.9	10.6
Barium	55000	mg/kg	1340 J	1650 J	1090 J	268 UJ
Cadmium	390	mg/kg	55.8 J	77.8 J	43.4 J	35.7 U
Chromium	3900	mg/kg	109 U	123 U	108 U	100 U
Cobalt	47000	mg/kg	105 U	115 U	111 U	106 U
Copper	31000	mg/kg	41.6 J	47.8 J	26.2 J	12.9 U
Iron	230000	mg/kg	18300 U	19300 U	21300	19100 U
Lead	1200	mg/kg	308	311	156	67.3
Manganese	18000	mg/kg	411 U	520 U	434 U	452 U
Mercury	78	mg/kg	9.34 U	10.5 U	9.06 U	8.49 U
Nickel	16000	mg/kg	23.3 U	25.4 U	37.8	22.4 U
Selenium	3900	mg/kg	2.78 U	3.34 U	2.56 U	2.49 U
Silver	3900	mg/kg	25.0 U	28.3 U	24.9 U	24.8 U
Zinc	230000	mg/kg	2780	3450	1570	533
Metals (USEPA SW-846 6000/7000)						
Aluminum	--	mg/kg	NA	10400	NA	NA
Antimony	--	mg/kg	NA	6.81 U	NA	NA
Arsenic	43	mg/kg	NA	10.6	NA	NA
Barium	55000	mg/kg	NA	3570	NA	NA
Beryllium	--	mg/kg	NA	0.725	NA	NA
Cadmium	390	mg/kg	NA	45.3	NA	NA
Calcium	--	mg/kg	NA	13900	NA	NA
Chromium	3900	mg/kg	NA	19.5	NA	NA
Cobalt	47000	mg/kg	NA	7.42	NA	NA
Copper	31000	mg/kg	NA	52.1 J	NA	NA
Iron	230000	mg/kg	NA	16300	NA	NA
Lead	1200	mg/kg	NA	271	NA	NA
Magnesium	--	mg/kg	NA	7590	NA	NA
Manganese	18000	mg/kg	NA	503	NA	NA
Mercury	78	mg/kg	NA	0.107 B	NA	NA
Nickel	16000	mg/kg	NA	20.2	NA	NA
Potassium	--	mg/kg	NA	2030	NA	NA
Selenium	3900	mg/kg	NA	1.16	NA	NA
Silver	3900	mg/kg	NA	1.04 B	NA	NA
Sodium	--	mg/kg	NA	109 B	NA	NA
Thallium	--	mg/kg	NA	1.08 B	NA	NA
Vanadium	--	mg/kg	NA	26.3	NA	NA
Zinc	230000	mg/kg	NA	2750	NA	NA

Table 7A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-07 (IDPH Location W02) - Composite Samples

Notes:

NA = Not Analyzed
RAL = Removal Action Levels: from Hazard Evaluation Handbook: A Guide to Removal Actions. October 1997. Fourth Edition. EPA 903/B-97-006.
mg/kg = milligrams per kilogram
XRF = X-Ray Fluorescence
= values exceed Residential RAL Criteria.
J = The analyte was positively identified; however, the associated numerical value is an estimated concentration only.
U = The analyte was analyzed for but not detected.
B = The reported value was obtained from a reading less than the contract required detection limit (CRDL) but greater than or equal to the instrument detection limit (IDL).
R = The sample results are rejected.
JQ = The analyte was detected above the reported limit but below the method detection limit; therefore, the reported value should not be used for quantitative measurement.
UJ = The analyte was not detected above the reported sample detection limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.
[ ] = Field Duplicate

Table 7B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-07 (IDPH Location W02) - Discrete Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-07-01(0-1) 0 - 1 06/21/05	OU4-SS-07-01(1-6) 1 - 6 06/21/05	OU4-SS-07-01(6-12) 6 - 12 06/21/05	OU4-SS-07-02(0-1) 0 - 1 06/21/05	OU4-SS-07-02(1-6) 1 - 6 06/21/05	OU4-SS-07-02(6-12) 6 - 12 06/21/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	19.5 J	24.2 J	6.60 J	15.8 U	21.7 J	17.3 J
Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-07-03(0-1) 0 - 1 06/21/05	OU4-SS-07-03(1-6) 1 - 6 06/21/05	OU4-SS-07-03(6-12) 6 - 12 06/21/05	OU4-SS-07-04(0-1) 0 - 1 06/21/05	OU4-SS-07-04(1-6) 1 - 6 06/21/05	OU4-SS-07-04(6-12) 6 - 12 06/21/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	15.4 J	26.4 J	21.4 J	17.2 J	17.7 J	26.3 J
Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-07-05(0-1) 0 - 1 06/21/05	OU4-SS-07-05(1-6) 1 - 6 06/21/05	OU4-SS-07-05(6-12) 6 - 12 06/21/05	OU4-SS-07-06(1-6) 1 - 6 06/21/05	OU4-SS-07-06(6-12) 6 - 12 06/21/05	OU4-SS-07-07(1-6) 1 - 6 06/21/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	10.6 U	8.39 U	14.6 J [15.9 J]	14.8 J	7.60 J	30.7 J
Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-07-07(6-12) 6 - 12 06/21/05	OU4-SS-07-08(1-6) 1 - 6 06/21/05	OU4-SS-07-08(6-12) 6 - 12 06/21/05	OU4-SS-07-09(1-6) 1 - 6 06/21/05	OU4-SS-07-09(6-12) 6 - 12 06/21/05	OU4-SS-07-10(0-1) 0 - 1 06/21/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	18.9 J	8.54 U	7.40 U	8.26 U	18.1 J	6.10 J
Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-07-10(1-6) 1 - 6 06/21/05	OU4-SS-07-10(6-12) 6 - 12 06/21/05	OU4-SS-07-11(0-1) 0 - 1 06/21/05	OU4-SS-07-11(1-6) 1 - 6 06/21/05	OU4-SS-07-11(6-12) 6 - 12 06/21/05	OU4-SS-07-12(0-1) 0 - 1 06/21/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	6.76 J	16.4 J	12.2 J	11.3 U	10.4 U	15.8 J
Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-07-12(1-6) 1 - 6 06/21/05	OU4-SS-07-12(6-12) 6 - 12 06/21/05	OU4-SS-07-13(0-1) 0 - 1 06/21/05	OU4-SS-07-13(1-6) 1 - 6 06/21/05	OU4-SS-07-13(6-12) 6 - 12 06/21/05	OU4-SS-07-14(0-1) 0 - 1 06/21/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	18.8 J	15.6 J	11.0 J	22.6 J	11.0 U	12.8 J

Table 7B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-07 (IDPH Location W02) - Discrete Samples

Sample ID: Sample Depth(inches): Date Collected:	Residential RAL	Units	OU4-SS-07-14(1-6) 1 - 6 06/21/05	OU4-SS-07-14(6-12) 6 - 12 06/21/05	OU4-SS-07-15(0-1) 0 - 1 06/21/05	OU4-SS-07-16(0-1) 0 - 1 06/21/05	OU4-SS-07-17(0-1) 0 - 1 06/21/05	OU4-SS-07-18(0-1) 0 - 1 06/21/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	13.2 U [13.4 U]	9.17 U	15.5 J	10.0 U	14.8 J	11.0 U

Sample ID: Sample Depth(inches): Date Collected:	Residential RAL	Units	OU4-SS-07-18(1-6) 1 - 6 06/21/05	OU4-SS-07-18(6-12) 6 - 12 06/21/05	OU4-SS-07-19(0-1) 0 - 1 06/21/05	OU4-SS-07-19(1-6) 1 - 6 06/21/05	OU4-SS-07-19(6-12) 6 - 12 06/21/05	OU4-SS-07-20(0-1) 0 - 1 06/21/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	16.0 J	28.8	19.2 J	13.1 U	8.19	10.1 J

Sample ID: Sample Depth(inches): Date Collected:	Residential RAL	Units	OU4-SS-07-20(1-6) 1 - 6 06/21/05	OU4-SS-07-20(6-12) 6 - 12 06/21/05	OU4-SS-07-21(0-1) 0 - 1 06/21/05	OU4-SS-07-21(1-6) 1 - 6 06/21/05	OU4-SS-07-21(6-12) 6 - 12 06/21/05
Metals - XRF (USEPA SW-846 6200)							
Arsenic	43	mg/kg	15.0 J	9.63	11.5 U	10.9 U	8.19 U [10.8 J]

Notes:

NA = Not Analyzed
RAL = Removal Action Levels: from Hazard Evaluation Handbook: A Guide to Removal Actions. October 1997. Fourth Edition. EPA 903/B-97-006.
mg/kg = milligrams per kilogram
XRF = X-Ray Fluorescence
= values exceed Residential RAL Criteria.
J = The analyte was positively identified; however, the associated numerical value is an estimated concentration only.
U = The analyte was analyzed for but not detected.
B = The reported value was obtained from a reading less than the contract required detection limit (CRDL) but greater than or equal to the instrument detection limit (IDL).
R = The sample results are rejected.
JQ = The analyte was detected above the reported limit but below the method detection limit; therefore, the reported value should not be used for quantitative measurement.
UJ = The analyte was not detected above the reported sample detection limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.
[ ] = Field Duplicate

Non-responsive

Table 8A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-08 (IDPH Location D11) - Composite Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-08-COMP1(0-1) 0 - 1 06/08/05	OU4-SS-08-COMP1(1-6) 1 - 6 06/08/05	OU4-SS-08-COMP1(6-12) 6 - 12 06/08/05	OU4-SS-08-COMP1(12-18) 12 - 18 06/08/05
Metals - XRF (USEPA SW-846 6200)						
Arsenic	43	mg/kg	13.1 J	8.31 U	9.38 U	6.67 U
Barium	55000	mg/kg	542 J	522 J	989 J	484 J
Cadmium	390	mg/kg	51.0 J	35.9 U	55.0 J	35.5 U
Chromium	3900	mg/kg	98.6 U	103 U	109 U	102 U
Cobalt	47000	mg/kg	98.7 U	102 U	108 U	94.7 U
Copper	31000	mg/kg	36.7 J	26.0 J	20.3 J	14.8 J
Iron	230000	mg/kg	16300 U	16900 U	18300 U	15000 U
Lead	1200	mg/kg	213 J	136 J	167 J	76.9 J
Manganese	18000	mg/kg	417 J	385 UJ	492 J	411 J
Mercury	78	mg/kg	9.75 UJ	8.59 U	9.89 UJ	8.29 UJ
Nickel	16000	mg/kg	21.9 U	22.0 U	23.4 U	21.2 U
Selenium	3900	mg/kg	2.62 U	2.67 U	2.63 U	2.50 U
Silver	3900	mg/kg	24.6 U	25.0 U	25.5 U	24.8 U
Zinc	230000	mg/kg	3890 J	2250 J	2600 J	1330 J
Metals (USEPA SW-846 6000/7000)						
Aluminum	--	mg/kg	NA	NA	NA	NA
Antimony	--	mg/kg	NA	NA	NA	NA
Arsenic	43	mg/kg	NA	NA	NA	NA
Barium	55000	mg/kg	NA	NA	NA	NA
Beryllium	--	mg/kg	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	NA
Calcium	--	mg/kg	NA	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA
Magnesium	--	mg/kg	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA
Potassium	--	mg/kg	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA
Sodium	--	mg/kg	NA	NA	NA	NA
Thallium	--	mg/kg	NA	NA	NA	NA
Vanadium	--	mg/kg	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA

Table 8A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-08 (IDPH Location D11) - Composite Samples

Sample ID: / Sample Depth(Inches): / Date Collected:	Residential RAL	Units	OU4-SS-08-COMP2(0-1) 0 - 1 06/08/05	OU4-SS-08-COMP2(1-6) 1 - 6 06/08/05	OU4-SS-08-COMP2(6-12) 6 - 12 06/08/05	OU4-SS-08-COMP2(12-18) 12 - 18 06/08/05
Metals - XRF (USEPA SW-846 6200)						
Arsenic	43	mg/kg	21.2 J	13.1 J	8.30 U	8.40 J
Barium	55000	mg/kg	1290 J	2080 J	700 J	691 J
Cadmium	390	mg/kg	102 J	50.4 J	36.4 U	40.0 J
Chromium	3900	mg/kg	124 U	120 U	109 U	103 U
Cobalt	47000	mg/kg	115 U	118 U	111 U	102 U
Copper	31000	mg/kg	63.5 J	46.8 J	19.3 J	12.5 U
Iron	230000	mg/kg	19400 U	21500 U	19600 U	17800 U
Lead	1200	mg/kg	338 J	228 J	124 J	108 J
Manganese	18000	mg/kg	516 J	449 J	492 J	432 UJ
Mercury	78	mg/kg	11.9 UJ	10.4 UJ	9.47 UJ	8.29 UJ
Nickel	16000	mg/kg	26.2 U	25.5 U	23.4 U	22.5 U
Selenium	3900	mg/kg	3.16 U	3.06 U	2.51 U	2.47 U
Silver	3900	mg/kg	27.6 U	26.2 U	25.4 U	24.5 U
Zinc	230000	mg/kg	5960 J	4360 J	2360 J	1320 J
Metals (USEPA SW-846 6000/7000)						
Aluminum	--	mg/kg	11300	NA	NA	NA
Antimony	--	mg/kg	6.59 U	NA	NA	NA
Arsenic	43	mg/kg	9.31	NA	NA	NA
Barium	55000	mg/kg	2170 J	NA	NA	NA
Beryllium	--	mg/kg	0.638	NA	NA	NA
Cadmium	390	mg/kg	52.7	NA	NA	NA
Calcium	--	mg/kg	9520	NA	NA	NA
Chromium	3900	mg/kg	18.0	NA	NA	NA
Cobalt	47000	mg/kg	7.61	NA	NA	NA
Copper	31000	mg/kg	62.6	NA	NA	NA
Iron	230000	mg/kg	16400	NA	NA	NA
Lead	1200	mg/kg	285	NA	NA	NA
Magnesium	--	mg/kg	4360	NA	NA	NA
Manganese	18000	mg/kg	537	NA	NA	NA
Mercury	78	mg/kg	0.0704 J	NA	NA	NA
Nickel	16000	mg/kg	17.6	NA	NA	NA
Potassium	--	mg/kg	2440	NA	NA	NA
Selenium	3900	mg/kg	1.11	NA	NA	NA
Silver	3900	mg/kg	1.14 B	NA	NA	NA
Sodium	--	mg/kg	84.5 B	NA	NA	NA
Thallium	--	mg/kg	1.10 U	NA	NA	NA
Vanadium	--	mg/kg	27.8	NA	NA	NA
Zinc	230000	mg/kg	4250	NA	NA	NA

Table 8A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-08 (IDPH Location D11) - Composite Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-08-COMP3(0-1) 0 - 1 06/08/05	OU4-SS-08-COMP3(1-6) 1 - 6 06/08/05	OU4-SS-08-COMP3(6-12) 6 - 12 06/08/05	OU4-SS-08-COMP3(12-18) 12 - 18 06/08/05
Metals - XRF (USEPA SW-846 6200)						
Arsenic	43	mg/kg	27.2 J	31.5 J	9.48 U	5.58 U
Barium	55000	mg/kg	4820 J	4950 J	922 J	433 J
Cadmium	390	mg/kg	150 J	128 J	35.2 U	35.7 U
Chromium	3900	mg/kg	159 U	162 U	105 U	104 U
Cobalt	47000	mg/kg	151 U	158 U	101 U	99.5 U
Copper	31000	mg/kg	142 J	113 J	14.7 J	12.3 U
Iron	230000	mg/kg	29200	31900	17300 U	16700 U
Lead	1200	mg/kg	808 J	674 J	182 J	41.2 U
Manganese	18000	mg/kg	701 UJ	637 UJ	481 UJ	424 UJ
Mercury	78	mg/kg	16.4 UJ	16.0 UJ	9.59 UJ	7.57 UJ
Nickel	16000	mg/kg	32.3 U	31.4 U	21.7 U	21.7 U
Selenium	3900	mg/kg	4.21 U	3.98 U	2.58 U	2.47 U
Silver	3900	mg/kg	31.0 UJ	31.1 UJ	24.7 UJ	24.8 UJ
Zinc	230000	mg/kg	12200 J	11300 J	2630 J	700 J
Metals (USEPA SW-846 6000/7000)						
Aluminum	--	mg/kg	9910	9990	NA	NA
Antimony	--	mg/kg	6.89 U	7.05 U	NA	NA
Arsenic	43	mg/kg	19.5	21.9	NA	NA
Barium	55000	mg/kg	8260 J	7080 J	NA	NA
Beryllium	--	mg/kg	1.10	1.37	NA	NA
Cadmium	390	mg/kg	138	93.1	NA	NA
Calcium	--	mg/kg	9530	4540	NA	NA
Chromium	3900	mg/kg	18.5	18.2	NA	NA
Cobalt	47000	mg/kg	9.38	9.71	NA	NA
Copper	31000	mg/kg	146	96.7	NA	NA
Iron	230000	mg/kg	21000	24700	NA	NA
Lead	1200	mg/kg	712	675	NA	NA
Magnesium	--	mg/kg	3370	2130	NA	NA
Manganese	18000	mg/kg	523	599	NA	NA
Mercury	78	mg/kg	0.146 J	0.174 J	NA	NA
Nickel	16000	mg/kg	18.6	20.1	NA	NA
Potassium	--	mg/kg	1830	1960	NA	NA
Selenium	3900	mg/kg	1.82	1.27	NA	NA
Silver	3900	mg/kg	3.13	2.50	NA	NA
Sodium	--	mg/kg	87.0 B	83.3 B	NA	NA
Thallium	--	mg/kg	1.12 B	1.18 U	NA	NA
Vanadium	--	mg/kg	26.6	27.4	NA	NA
Zinc	230000	mg/kg	9980	8590	NA	NA

Table 8A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-08 (IDPH Location D11) - Composite Samples

Sample ID: Sample Depth(inches): Date Collected:	Residential RAL	Units	OU4-SS-08-COMP4(0-1) 0 - 1 06/08/05	OU4-SS-08-COMP4(1-6) 1 - 6 06/08/05	OU4-SS-08-COMP4(6-12) 6 - 12 06/08/05	OU4-SS-08-COMP4(12-18) 12 - 18 06/08/05
Metals - XRF (USEPA SW-846 6200)						
Arsenic	43	mg/kg	15.2 J	11.3 U	12.4 J	17.0 J
Barium	55000	mg/kg	713 J	1340 J	1090 J	1520 J
Cadmium	390	mg/kg	102 J	77.6 J	59.4 J	42.4 J
Chromium	3900	mg/kg	121 U	109 U	106 U	112 U
Cobalt	47000	mg/kg	122 U	107 U	102 U	104 U
Copper	31000	mg/kg	47.3 J	44.8 J	13.6 U	16.0 J
Iron	230000	mg/kg	21000 U	18500 U	17700 U	18200 U
Lead	1200	mg/kg	327 J	262 J	134 J	121 J
Manganese	18000	mg/kg	707 UJ	441 UJ	400 UJ	368 UJ
Mercury	78	mg/kg	11.8 UJ	9.78 J	9.32 UJ	9.10 UJ
Nickel	16000	mg/kg	26.6 U	23.1 U	22.1 U	21.5 U
Selenium	3900	mg/kg	3.30 U	2.78 U	2.66 U	2.69 U
Silver	3900	mg/kg	28.7 UJ	25.2 UJ	24.9 UJ	25.5 UJ
Zinc	230000	mg/kg	4700 J	3390 J	2370 J	2340 J
Metals (USEPA SW-846 6000/7000)						
Aluminum	--	mg/kg	10900	NA	NA	NA
Antimony	--	mg/kg	7.08 U	NA	NA	NA
Arsenic	43	mg/kg	10.1	NA	NA	NA
Barium	55000	mg/kg	1400 J	NA	NA	NA
Beryllium	--	mg/kg	0.557	NA	NA	NA
Cadmium	390	mg/kg	47.3	NA	NA	NA
Calcium	--	mg/kg	12500	NA	NA	NA
Chromium	3900	mg/kg	22.6	NA	NA	NA
Cobalt	47000	mg/kg	12.8	NA	NA	NA
Copper	31000	mg/kg	58.4	NA	NA	NA
Iron	230000	mg/kg	27700	NA	NA	NA
Lead	1200	mg/kg	284	NA	NA	NA
Magnesium	--	mg/kg	6270	NA	NA	NA
Manganese	18000	mg/kg	1060	NA	NA	NA
Mercury	78	mg/kg	0.104 J	NA	NA	NA
Nickel	16000	mg/kg	20.2	NA	NA	NA
Potassium	--	mg/kg	1800	NA	NA	NA
Selenium	3900	mg/kg	1.34	NA	NA	NA
Silver	3900	mg/kg	0.969 B	NA	NA	NA
Sodium	--	mg/kg	129	NA	NA	NA
Thallium	--	mg/kg	1.18 U	NA	NA	NA
Vanadium	--	mg/kg	34.3	NA	NA	NA
Zinc	230000	mg/kg	3320	NA	NA	NA

Table 8A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-08 (IDPH Location D11) - Composite Samples

Notes:

NA = Not Analyzed
RAL = Removal Action Levels: from Hazard Evaluation Handbook: A Guide to Removal Actions. October 1997. Fourth Edition. EPA 903/B-97-006.
mg/kg = milligrams per kilogram
XRF = X-Ray Fluorescence
= values exceed Residential RAL Criteria.
J = The analyte was positively identified; however, the associated numerical value is an estimated concentration only.
U = The analyte was analyzed for but not detected.
B = The reported value was obtained from a reading less than the contract required detection limit (CRDL) but greater than or equal to the instrument detection limit (IDL).
R = The sample results are rejected.
JQ = The analyte was detected above the reported limit but below the method detection limit; therefore, the reported value should not be used for quantitative measurement.
UJ = The analyte was not detected above the reported sample detection limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.
[ ] = Field Duplicate

Table 8B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-08 (IDPH Location D11) - Discrete Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-08-01(0-1) 0 - 1 06/22/05	OU4-SS-08-01(6-12) 6 - 12 06/22/05	OU4-SS-08-02(0-1) 0 - 1 06/22/05	OU4-SS-08-02(6-12) 6 - 12 06/22/05	OU4-SS-08-03(0-1) 0 - 1 06/22/05	OU4-SS-08-03(6-12) 6 - 12 06/22/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	12.0	6.26 U	13.2	6.46 U	7.51 U	18.1
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Metals (USEPA SW-846 6000/7000)								
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-08-04(0-1) 0 - 1 06/22/05	OU4-SS-08-04(6-12) 6 - 12 06/22/05	OU4-SS-08-05(0-1) 0 - 1 06/22/05	OU4-SS-08-05(6-12) 6 - 12 06/22/05	OU4-SS-08-06(0-1) 0 - 1 06/23/05	OU4-SS-08-06(1-6) 1 - 6 06/22/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	9.17 U	5.69 U	11.2	5.96	10.3 J	9.31
Cadmium	390	mg/kg	NA	NA	NA	NA	34.4 U	NA
Metals (USEPA SW-846 6000/7000)								
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-08-07(0-1) 0 - 1 06/23/05	OU4-SS-08-07(1-6) 1 - 6 06/22/05	OU4-SS-08-08(0-1) 0 - 1 06/23/05	OU4-SS-08-08(1-6) 1 - 6 06/22/05	OU4-SS-08-09(0-1) 0 - 1 06/23/05	OU4-SS-08-09(1-6) 1 - 6 06/22/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	13.3 U	26.1	12.3 J	33.0	10.9 U	8.43
Cadmium	390	mg/kg	98.8 U	NA	97.1 U	NA	49.4 U	NA
Metals (USEPA SW-846 6000/7000)								
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-08-10(0-1) 0 - 1 06/23/05	OU4-SS-08-10(1-6) 1 - 6 06/22/05	OU4-SS-08-11(0-1) 0 - 1 06/23/05	OU4-SS-08-11(1-6) 1 - 6 06/23/05	OU4-SS-08-11(6-12) 6 - 12 06/22/05	OU4-SS-08-12(0-1) 0 - 1 06/23/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	15.8 U	10.2 [12.0]	24.4 J	26.9 J	15.5	20.2 J
Cadmium	390	mg/kg	172	NA	149	95.0	NA	173
Metals (USEPA SW-846 6000/7000)								
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA

Table 8B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-08 (IDPH Location D11) - Discrete Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-08-12(1-6) 1 - 6 06/23/05	OU4-SS-08-12(6-12) 6 - 12 06/22/05	OU4-SS-08-13(0-1) 0 - 1 06/23/05	OU4-SS-08-13(1-6) 1 - 6 06/23/05	OU4-SS-08-13(6-12) 6 - 12 06/22/05	OU4-SS-08-14(0-1) 0 - 1 06/23/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	69.0 J	25.4	23.2 J	18.6 U	7.81 U	23.8 J
Cadmium	390	mg/kg	287	NA	125	107	NA	202
Metals (USEPA SW-846 6000/7000)								
Arsenic	43	mg/kg	29.6	NA	NA	NA	NA	NA

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-08-14(1-6) 1 - 6 06/23/05	OU4-SS-08-14(6-12) 6 - 12 06/22/05	OU4-SS-08-15(0-1) 0 - 1 06/23/05	OU4-SS-08-15(1-6) 1 - 6 06/23/05	OU4-SS-08-15(6-12) 6 - 12 06/22/05	OU4-SS-08-16(0-1) 0 - 1 06/22/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	23.6 J	5.24 U	21.3 J	34.4 J	6.82 U	13.4
Cadmium	390	mg/kg	88.5	NA	169	113	NA	NA
Metals (USEPA SW-846 6000/7000)								
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-08-16(1-6) 1 - 6 06/22/05	OU4-SS-08-16(6-12) 6 - 12 06/22/05	OU4-SS-08-16(12-18) 12 - 18 06/22/05	OU4-SS-08-17(0-1) 0 - 1 06/22/05	OU4-SS-08-17(1-6) 1 - 6 06/22/05	OU4-SS-08-17(6-12) 6 - 12 06/22/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	19.1	5.89 U	4.90 U	11.8 U	24.5	7.13
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Metals (USEPA SW-846 6000/7000)								
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-08-17(12-18) 12 - 18 06/22/05	OU4-SS-08-18(0-1) 0 - 1 06/22/05	OU4-SS-08-18(1-6) 1 - 6 06/22/05	OU4-SS-08-18(6-12) 6 - 12 06/22/05	OU4-SS-08-18(12-18) 12 - 18 06/22/05	OU4-SS-08-19(0-1) 0 - 1 06/22/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	11.6	13.6	8.42 U	10.7	5.42 U	10.4 [9.56 U]
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Metals (USEPA SW-846 6000/7000)								
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA

Table 8B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-08 (IDPH Location D11) - Discrete Samples

Sample ID:			OU4-SS-08-19(1-6)	OU4-SS-08-19(6-12)	OU4-SS-08-19(12-18)
Sample Depth(Inches):			1 - 6	6 - 12	12 - 18
Date Collected:	Residential RAL	Units	06/22/05	06/22/05	06/22/05
Metals - XRF (USEPA SW-846 6200)					
Arsenic	43	mg/kg	8.45 U	13.5	15.5 U
Cadmium	390	mg/kg	NA	NA	NA
Metals (USEPA SW-846 6000/7000)					
Arsenic	43	mg/kg	NA	NA	NA

Notes:

NA = Not Analyzed
RAL = Removal Action Levels: from Hazard Evaluation Handbook: A Guide to Removal Actions. October 1997. Fourth Edition. EPA 903/B-97-006.
mg/kg = milligrams per kilogram
XRF = X-Ray Fluorescence
= values exceed Residential RAL Criteria.
J = The analyte was positively identified; however, the associated numerical value is an estimated concentration only.
U = The analyte was analyzed for but not detected.
B = The reported value was obtained from a reading less than the contract required detection limit (CRDL) but greater than or equal to the instrument detection limit (IDL).
R = The sample results are rejected.
JQ = The analyte was detected above the reported limit but below the method detection limit; therefore, the reported value should not be used for quantitative measurement.
UJ = The analyte was not detected above the reported sample detection limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.
[ ] = Field Duplicate

Non-responsive

Table 9A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-09 (IDPH Location S13) - Composite Samples

Sample ID: Sample Depth (inches): Date Collected:	Residential RAL	Units	OU4-SS-09-COMP1(0-1) 0 - 1 06/08/05	OU4-SS-09-COMP1(1-6) 1 - 6 06/08/05	OU4-SS-09-COMP1(6-12) 6 - 12 06/08/05	OU4-SS-09-COMP1(12-18) 12 - 18 06/08/05
Metals - XRF (USEPA SW-846 6200)						
Arsenic	43	mg/kg	13.9 J	24.7 J	10.8 J	6.90 J
Barium	55000	mg/kg	413 J	1340 J	393 J	267 J
Cadmium	390	mg/kg	38.1 J	43.4 J	35.4 U	35.0 U
Chromium	3900	mg/kg	102 U	130 U	99.4 U	95.1 U
Cobalt	47000	mg/kg	109 U	149 U	110 U	94.8 U
Copper	31000	mg/kg	26.3 J	65.8 J	16.9 J	11.6 U
Iron	230000	mg/kg	21100 U	33500	21200 U	15500 U
Lead	1200	mg/kg	273 J	333 J	92.2 J	30.1 U
Manganese	18000	mg/kg	532 UJ	684 J	488 UJ	527 UJ
Mercury	78	mg/kg	9.46 UJ	11.4 UJ	8.44 UJ	7.04 UJ
Nickel	16000	mg/kg	22.4 U	29.3 U	22.0 U	19.9 U
Selenium	3900	mg/kg	2.55 U	3.16 U	2.53 U	2.36 U
Silver	3900	mg/kg	23.9 UJ	27.8 UJ	24.8 UJ	24.2 UJ
Zinc	230000	mg/kg	2830 J	3330 J	575 J	196 J
Metals (USEPA SW-846 6000/7000)						
Aluminum	--	mg/kg	NA	13500	NA	NA
Antimony	--	mg/kg	NA	6.32 U	NA	NA
Arsenic	43	mg/kg	NA	16.0	NA	NA
Barium	55000	mg/kg	NA	1650 J	NA	NA
Beryllium	--	mg/kg	NA	1.21	NA	NA
Cadmium	390	mg/kg	NA	23.5	NA	NA
Calcium	--	mg/kg	NA	11100	NA	NA
Chromium	3900	mg/kg	NA	20.4	NA	NA
Cobalt	47000	mg/kg	NA	8.30	NA	NA
Copper	31000	mg/kg	NA	57.8	NA	NA
Iron	230000	mg/kg	NA	24800	NA	NA
Lead	1200	mg/kg	NA	232	NA	NA
Magnesium	--	mg/kg	NA	4860	NA	NA
Manganese	18000	mg/kg	NA	583	NA	NA
Mercury	78	mg/kg	NA	0.157 J	NA	NA
Nickel	16000	mg/kg	NA	22.3	NA	NA
Potassium	--	mg/kg	NA	2290	NA	NA
Selenium	3900	mg/kg	NA	1.05 U	NA	NA
Silver	3900	mg/kg	NA	0.855 B	NA	NA
Sodium	--	mg/kg	NA	489	NA	NA
Thallium	--	mg/kg	NA	1.05 U	NA	NA
Vanadium	--	mg/kg	NA	35.6	NA	NA
Zinc	230000	mg/kg	NA	2230	NA	NA

Table 9A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-09 (IDPH Location S13) - Composite Samples

Sample ID: Sample Depth(inches): Date Collected:	Residential RAL	Units	OU4-SS-09-COMP2(0-1) 0 - 1 06/08/05	OU4-SS-09-COMP2(1-6) 1 - 6 06/08/05	OU4-SS-09-COMP2(6-12) 6 - 12 06/08/05	OU4-SS-09-COMP2(12-18) 12 - 18 06/08/05
Metals - XRF (USEPA SW-846 6200)						
Arsenic	43	mg/kg	13.5 U	12.6 U	9.57 J	4.58 U
Barium	55000	mg/kg	846 J	1370 J	404 J	256 UJ
Cadmium	390	mg/kg	72.3 J	60.9 J	35.1 U	34.8 U
Chromium	3900	mg/kg	114 U	128 U	98.6 U	94.7 U
Cobalt	47000	mg/kg	120 U	139 U	96.7 U	91.3 U
Copper	31000	mg/kg	59.9 J	63.8 J	12.8 U	11.7 U
Iron	230000	mg/kg	23100	29100	16300 U	14700 U
Lead	1200	mg/kg	377 J	292 J	83.9 J	20.6 U
Manganese	18000	mg/kg	577 UJ	560 UJ	444 UJ	288 UJ
Mercury	78	mg/kg	10.4 UJ	11.5 UJ	8.26 UJ	7.36 UJ
Nickel	16000	mg/kg	24.0 U	42.2 J	25.9 JQ	20.1 U
Selenium	3900	mg/kg	2.90 U	3.18 U	2.44 U	2.34 U
Silver	3900	mg/kg	25.3 UJ	28.0 UJ	24.5 UJ	24.4 UJ
Zinc	230000	mg/kg	2760 J	2880 J	913 J	149 J
Metals (USEPA SW-846 6000/7000)						
Aluminum	--	mg/kg	NA	11500	NA	NA
Antimony	--	mg/kg	NA	6.49 U	NA	NA
Arsenic	43	mg/kg	NA	24.5	NA	NA
Barium	55000	mg/kg	NA	2510 J	NA	NA
Beryllium	--	mg/kg	NA	1.22	NA	NA
Cadmium	390	mg/kg	NA	37.7	NA	NA
Calcium	--	mg/kg	NA	7720	NA	NA
Chromium	3900	mg/kg	NA	21.0	NA	NA
Cobalt	47000	mg/kg	NA	10.9	NA	NA
Copper	31000	mg/kg	NA	60.3	NA	NA
Iron	230000	mg/kg	NA	24600	NA	NA
Lead	1200	mg/kg	NA	306	NA	NA
Magnesium	--	mg/kg	NA	2880	NA	NA
Manganese	18000	mg/kg	NA	923	NA	NA
Mercury	78	mg/kg	NA	0.333 J	NA	NA
Nickel	16000	mg/kg	NA	24.9	NA	NA
Potassium	--	mg/kg	NA	2210	NA	NA
Selenium	3900	mg/kg	NA	1.23	NA	NA
Silver	3900	mg/kg	NA	0.952 B	NA	NA
Sodium	--	mg/kg	NA	188	NA	NA
Thallium	--	mg/kg	NA	1.08 U	NA	NA
Vanadium	--	mg/kg	NA	32.8	NA	NA
Zinc	230000	mg/kg	NA	2690	NA	NA

Table 9A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-09 (IDPH Location S13) - Composite Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-09-COMP3(0-1) 0 - 1 06/08/05	OU4-SS-09-COMP3(1-6) 1 - 6 06/08/05	OU4-SS-09-COMP3(6-12) 6 - 12 06/08/05	OU4-SS-09-COMP3(12-18) 12 - 18 06/08/05
Metals - XRF (USEPA SW-846 6200)						
Arsenic	43	mg/kg	10.6 U	26.1 J	15.3 J	6.04 J
Barium	55000	mg/kg	946 J	2080 J	669 J	392 J
Cadmium	390	mg/kg	51.4 J	62.7 J	38.3 U	35.2 U
Chromium	3900	mg/kg	105 U	121 U	112 U	93.8 U
Cobalt	47000	mg/kg	103 U	119 U	116 U	96.3 U
Copper	31000	mg/kg	38.1 J	54.7 J	37.2 J	14.4 J
Iron	230000	mg/kg	18300 U	23100	21600 U	16100 U
Lead	1200	mg/kg	236 J	379 J	204 J	28.6 U
Manganese	18000	mg/kg	435 UJ	461 UJ	538 UJ	334 UJ
Mercury	78	mg/kg	9.55 UJ	10.7 UJ	10.6 JQ	7.49 UJ
Nickel	16000	mg/kg	22.3 U	26.6 J	24.5 U	20.4 U
Selenium	3900	mg/kg	2.62 U	3.05 U	2.85 U	2.42 U
Silver	3900	mg/kg	24.5 UJ	25.9 UJ	26.8 UJ	24.4 UJ
Zinc	230000	mg/kg	2750 J	4200 J	1780 J	233 J
Metals (USEPA SW-846 6000/7000)						
Aluminum	--	mg/kg	NA	NA	9120	NA
Antimony	--	mg/kg	NA	NA	6.45 U	NA
Arsenic	43	mg/kg	NA	NA	11.3	NA
Barium	55000	mg/kg	NA	NA	816 J	NA
Beryllium	--	mg/kg	NA	NA	0.803	NA
Cadmium	390	mg/kg	NA	NA	9.26	NA
Calcium	--	mg/kg	NA	NA	10100	NA
Chromium	3900	mg/kg	NA	NA	16.5	NA
Cobalt	47000	mg/kg	NA	NA	7.08	NA
Copper	31000	mg/kg	NA	NA	35.2	NA
Iron	230000	mg/kg	NA	NA	18400	NA
Lead	1200	mg/kg	NA	NA	173	NA
Magnesium	--	mg/kg	NA	NA	6190	NA
Manganese	18000	mg/kg	NA	NA	659	NA
Mercury	78	mg/kg	NA	NA	0.139 J	NA
Nickel	16000	mg/kg	NA	NA	18.4	NA
Potassium	--	mg/kg	NA	NA	1800	NA
Selenium	3900	mg/kg	NA	NA	1.08 U	NA
Silver	3900	mg/kg	NA	NA	0.538 B	NA
Sodium	--	mg/kg	NA	NA	67.7 B	NA
Thallium	--	mg/kg	NA	NA	1.08 U	NA
Vanadium	--	mg/kg	NA	NA	25.7	NA
Zinc	230000	mg/kg	NA	NA	1550	NA

Table 9A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-09 (IDPH Location S13) - Composite Samples

Sample ID: Sample Depth(inches): Date Collected:	Residential RAL	Units	OU4-SS-09-COMP4(0-1) 0 - 1 06/09/05	OU4-SS-09-COMP4(1-6) 1 - 6 06/09/05	OU4-SS-09-COMP4(6-12) 6 - 12 06/09/05	OU4-SS-09-COMP4(12-18) 12 - 18 06/09/05
Metals - XRF (USEPA SW-846 6200)						
Arsenic	43	mg/kg	14.0 J	20.4 J	10.5 J	5.88 J
Barium	55000	mg/kg	715 J	1070 J	553 J	248 UJ
Cadmium	390	mg/kg	59.1	67.3	35.6 U	34.8 U
Chromium	3900	mg/kg	107 U	116 U	103 U	93.4 U
Cobalt	47000	mg/kg	110 U	114 U	97.2 U	89.5 U
Copper	31000	mg/kg	31.7 J	36.6 J	18.6 J	13.6 J
Iron	230000	mg/kg	20700 U	19700 U	16800 U	14400 U
Lead	1200	mg/kg	196 J	275 J	103 J	19.5 U
Manganese	18000	mg/kg	588 UJ	615 UJ	913 J	506 UJ
Mercury	78	mg/kg	8.73 UJ	10.1 UJ	8.58 UJ	7.16 UJ
Nickel	16000	mg/kg	23.1 U	26.2 JQ	35.4 J	19.9 U
Selenium	3900	mg/kg	2.66 U	3.16 U	2.47 U	2.32 U
Silver	3900	mg/kg	24.8 UJ	27.5 UJ	24.9 UJ	24.2 UJ
Zinc	230000	mg/kg	1950	3170	1510	125
Metals (USEPA SW-846 6000/7000)						
Aluminum	--	mg/kg	NA	9630	NA	NA
Antimony	--	mg/kg	NA	6.61 U	NA	NA
Arsenic	43	mg/kg	NA	14.2	NA	NA
Barium	55000	mg/kg	NA	2080 J	NA	NA
Beryllium	--	mg/kg	NA	0.698	NA	NA
Cadmium	390	mg/kg	NA	30.6	NA	NA
Calcium	--	mg/kg	NA	7660	NA	NA
Chromium	3900	mg/kg	NA	16.5	NA	NA
Cobalt	47000	mg/kg	NA	8.38	NA	NA
Copper	31000	mg/kg	NA	48.9	NA	NA
Iron	230000	mg/kg	NA	17900	NA	NA
Lead	1200	mg/kg	NA	270	NA	NA
Magnesium	--	mg/kg	NA	2670	NA	NA
Manganese	18000	mg/kg	NA	723	NA	NA
Mercury	78	mg/kg	NA	0.0648 J	NA	NA
Nickel	16000	mg/kg	NA	17.2	NA	NA
Potassium	--	mg/kg	NA	1580	NA	NA
Selenium	3900	mg/kg	NA	1.10 U	NA	NA
Silver	3900	mg/kg	NA	0.917 B	NA	NA
Sodium	--	mg/kg	NA	44.8 B	NA	NA
Thallium	--	mg/kg	NA	1.10 U	NA	NA
Vanadium	--	mg/kg	NA	27.3	NA	NA
Zinc	230000	mg/kg	NA	2690	NA	NA

Table 9A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-09 (IDPH Location S13) - Composite Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-09-COMP5(0-1) 0 - 1 06/09/05	OU4-SS-09-COMP5(1-6) 1 - 6 06/09/05	OU4-SS-09-COMP5(6-12) 6 - 12 06/09/05	OU4-SS-09-COMP5(12-18) 12 - 18 06/09/05
Metals - XRF (USEPA SW-846 6200)						
Arsenic	43	mg/kg	10.7 U	19.6 J	10.7 J	5.64 J
Barium	55000	mg/kg	505 J	1660 J	682 J	271 J
Cadmium	390	mg/kg	35.1 U	106	35.5 U	34.6 U
Chromium	3900	mg/kg	102 U	125 U	103 U	90.1 U
Cobalt	47000	mg/kg	101 U	129 U	103 U	83.5 U
Copper	31000	mg/kg	28.6 J	58.0 J	34.1 J	11.7 U
Iron	230000	mg/kg	17300 U	24700 U	18500 U	12400 U
Lead	1200	mg/kg	245 J	448 J	173 J	21.9 U
Manganese	18000	mg/kg	448 UJ	817 UJ	540 UJ	374 UJ
Mercury	78	mg/kg	8.57 UJ	11.5 UJ	8.62 UJ	7.42 UJ
Nickel	16000	mg/kg	21.6 U	27.8 U	22.1 U	19.1 U
Selenium	3900	mg/kg	2.72 U	3.42 U	2.63 U	2.34 U
Silver	3900	mg/kg	24.3 UJ	28.1 UJ	24.6 UJ	23.9 UJ
Zinc	230000	mg/kg	1830	3700	1640	315
Metals (USEPA SW-846 6000/7000)						
Aluminum	--	mg/kg	NA	9840	NA	NA
Antimony	--	mg/kg	NA	6.80 U	NA	NA
Arsenic	43	mg/kg	NA	16.7	NA	NA
Barium	55000	mg/kg	NA	3280 J	NA	NA
Beryllium	--	mg/kg	NA	0.839	NA	NA
Cadmium	390	mg/kg	NA	40.7	NA	NA
Calcium	--	mg/kg	NA	6470	NA	NA
Chromium	3900	mg/kg	NA	17.8	NA	NA
Cobalt	47000	mg/kg	NA	8.33	NA	NA
Copper	31000	mg/kg	NA	63.6	NA	NA
Iron	230000	mg/kg	NA	19700	NA	NA
Lead	1200	mg/kg	NA	434	NA	NA
Magnesium	--	mg/kg	NA	3880	NA	NA
Manganese	18000	mg/kg	NA	720	NA	NA
Mercury	78	mg/kg	NA	0.198 J	NA	NA
Nickel	16000	mg/kg	NA	18.2	NA	NA
Potassium	--	mg/kg	NA	1670	NA	NA
Selenium	3900	mg/kg	NA	1.13 U	NA	NA
Silver	3900	mg/kg	NA	1.23 B	NA	NA
Sodium	--	mg/kg	NA	50.0 B	NA	NA
Thallium	--	mg/kg	NA	1.13 U	NA	NA
Vanadium	--	mg/kg	NA	27.6	NA	NA
Zinc	230000	mg/kg	NA	3150	NA	NA

Table 9A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-09 (IDPH Location S13) - Composite Samples

Notes:

NA = Not Analyzed
RAL = Removal Action Levels: from Hazard Evaluation Handbook: A Guide to Removal Actions. October 1997. Fourth Edition. EPA 903/B-97-006.
mg/kg = milligrams per kilogram
XRF = X-Ray Fluorescence
= values exceed Residential RAL Criteria.
J = The analyte was positively identified; however, the associated numerical value is an estimated concentration only.
U = The analyte was analyzed for but not detected.
B = The reported value was obtained from a reading less than the contract required detection limit (CRDL) but greater than or equal to the instrument detection limit (IDL).
R = The sample results are rejected.
JQ = The analyte was detected above the reported limit but below the method detection limit; therefore, the reported value should not be used for quantitative measurement.
UJ = The analyte was not detected above the reported sample detection limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.
[ ] = Field Duplicate

Table 9B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-09 (IDPH Location S13) - Discrete Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-09-01(0-1) 0 - 1 06/22/05	OU4-SS-09-01(1-6) 1 - 6 06/22/05	OU4-SS-09-01(6-12) 6 - 12 06/22/05	OU4-SS-09-02(0-1) 0 - 1 06/22/05	OU4-SS-09-02(1-6) 1 - 6 06/22/05	OU4-SS-09-02(6-12) 6 - 12 06/22/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	7.00	11.8	5.72	10.1 U	15.8	21.2
Metals (USEPA SW-846 6000/7000)								
Aluminum	--	mg/kg	NA	NA	NA	NA	NA	NA
Antimony	--	mg/kg	NA	NA	NA	NA	NA	NA
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA
Barium	55000	mg/kg	NA	NA	NA	NA	NA	NA
Beryllium	--	mg/kg	NA	NA	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Calcium	--	mg/kg	NA	NA	NA	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA	NA	NA
Magnesium	--	mg/kg	NA	NA	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA	NA	NA
Potassium	--	mg/kg	NA	NA	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA	NA	NA
Sodium	--	mg/kg	NA	NA	NA	NA	NA	NA
Thallium	--	mg/kg	NA	NA	NA	NA	NA	NA
Vanadium	--	mg/kg	NA	NA	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA	NA	NA

Table 9B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-09 (IDPH Location S13) - Discrete Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-09-03(0-1) 0 - 1 06/22/05	OU4-SS-09-03(1-6) 1 - 6 06/22/05	OU4-SS-09-03(6-12) 6 - 12 06/22/05	OU4-SS-09-04(0-1) 0 - 1 06/22/05	OU4-SS-09-04(1-6) 1 - 6 06/22/05	OU4-SS-09-04(6-12) 6 - 12 06/22/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	16.6	18.6	9.72	15.2	31.9	14.7
Metals (USEPA SW-846 6000/7000)								
Aluminum	--	mg/kg	NA	NA	NA	NA	NA	NA
Antimony	--	mg/kg	NA	NA	NA	NA	NA	NA
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA
Barium	55000	mg/kg	NA	NA	NA	NA	NA	NA
Beryllium	--	mg/kg	NA	NA	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Calcium	--	mg/kg	NA	NA	NA	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA	NA	NA
Magnesium	--	mg/kg	NA	NA	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA	NA	NA
Potassium	--	mg/kg	NA	NA	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA	NA	NA
Sodium	--	mg/kg	NA	NA	NA	NA	NA	NA
Thallium	--	mg/kg	NA	NA	NA	NA	NA	NA
Vanadium	--	mg/kg	NA	NA	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA	NA	NA

Table 9B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-09 (IDPH Location S13) - Discrete Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-09-05(0-1) 0 - 1 06/22/05	OU4-SS-09-05(1-6) 1 - 6 06/08/05	OU4-SS-09-05(6-12) 6 - 12 06/22/05	OU4-SS-09-06(0-1) 0 - 1 06/22/05	OU4-SS-09-06(1-6) 1 - 6 06/22/05	OU4-SS-09-06(6-12) 6 - 12 06/22/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	18.6 [16.0]	54.6	7.07	10.3 U	16.1	10.9
Metals (USEPA SW-846 6000/7000)								
Aluminum	--	mg/kg	NA	10800	NA	NA	NA	NA
Antimony	--	mg/kg	NA	6.60 U	NA	NA	NA	NA
Arsenic	43	mg/kg	NA	31.6	NA	NA	NA	NA
Barium	55000	mg/kg	NA	2490	NA	NA	NA	NA
Beryllium	--	mg/kg	NA	1.07	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	23.0	NA	NA	NA	NA
Calcium	--	mg/kg	NA	11300	NA	NA	NA	NA
Chromium	3900	mg/kg	NA	17.4	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	7.12	NA	NA	NA	NA
Copper	31000	mg/kg	NA	121 J	NA	NA	NA	NA
Iron	230000	mg/kg	NA	27800	NA	NA	NA	NA
Lead	1200	mg/kg	NA	609	NA	NA	NA	NA
Magnesium	--	mg/kg	NA	4100	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	893	NA	NA	NA	NA
Mercury	78	mg/kg	NA	0.456	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	19.4	NA	NA	NA	NA
Potassium	--	mg/kg	NA	2210	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	1.10 U	NA	NA	NA	NA
Silver	3900	mg/kg	NA	2.95	NA	NA	NA	NA
Sodium	--	mg/kg	NA	256 J	NA	NA	NA	NA
Thallium	--	mg/kg	NA	1.52	NA	NA	NA	NA
Vanadium	--	mg/kg	NA	25.6	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	4750	NA	NA	NA	NA

Table 9B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-09 (IDPH Location S13) - Discrete Samples

Sample ID: Sample Depth(inches): Date Collected:	Residential RAL	Units	OU4-SS-09-07(0-1) 0 - 1 06/08/05	OU4-SS-09-07(1-6) 1 - 6 06/08/05	OU4-SS-09-07(6-12) 6 - 12 06/22/05	OU4-SS-09-08(0-1) 0 - 1 06/22/05	OU4-SS-09-08(1-6) 1 - 6 06/22/05	OU4-SS-09-08(6-12) 6 - 12 06/22/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	50.5	69.2	8.59	10.5	20.2	12.9
Metals (USEPA SW-846 6000/7000)								
Aluminum	--	mg/kg	NA	NA	NA	NA	NA	NA
Antimony	--	mg/kg	NA	NA	NA	NA	NA	NA
Arsenic	43	mg/kg	25.8	40.7	NA	NA	NA	NA
Barium	55000	mg/kg	NA	NA	NA	NA	NA	NA
Beryllium	--	mg/kg	NA	NA	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Calcium	--	mg/kg	NA	NA	NA	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA	NA	NA
Magnesium	--	mg/kg	NA	NA	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA	NA	NA
Potassium	--	mg/kg	NA	NA	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA	NA	NA
Sodium	--	mg/kg	NA	NA	NA	NA	NA	NA
Thallium	--	mg/kg	NA	NA	NA	NA	NA	NA
Vanadium	--	mg/kg	NA	NA	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA	NA	NA

Table 9B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-09 (IDPH Location S13) - Discrete Samples

Sample ID: / Sample Depth(Inches): / Date Collected:	Residential RAL	Units	OU4-SS-09-09(0-1) 0 - 1 06/22/05	OU4-SS-09-09(1-6) 1 - 6 06/22/05	OU4-SS-09-09(6-12) 6 - 12 06/22/05	OU4-SS-09-10(0-1) 0 - 1 06/22/05	OU4-SS-09-10(1-6) 1 - 6 06/22/05	OU4-SS-09-10(6-12) 6 - 12 06/22/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	10.1 U	22.5	15.0	10.2	20.7 [11.9 U]	10.1
Metals (USEPA SW-846 6000/7000)								
Aluminum	--	mg/kg	NA	NA	NA	NA	NA	NA
Antimony	--	mg/kg	NA	NA	NA	NA	NA	NA
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA
Barium	55000	mg/kg	NA	NA	NA	NA	NA	NA
Beryllium	--	mg/kg	NA	NA	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Calcium	--	mg/kg	NA	NA	NA	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA	NA	NA
Magnesium	--	mg/kg	NA	NA	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA	NA	NA
Potassium	--	mg/kg	NA	NA	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA	NA	NA
Sodium	--	mg/kg	NA	NA	NA	NA	NA	NA
Thallium	--	mg/kg	NA	NA	NA	NA	NA	NA
Vanadium	--	mg/kg	NA	NA	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA	NA	NA

Table 9B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-09 (IDPH Location S13) - Discrete Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-09-11(0-1) 0 - 1 06/22/05	OU4-SS-09-11(1-6) 1 - 6 06/22/05	OU4-SS-09-11(6-12) 6 - 12 06/22/05	OU4-SS-09-12(0-1) 0 - 1 06/22/05	OU4-SS-09-12(1-6) 1 - 6 06/22/05	OU4-SS-09-12(6-12) 6 - 12 06/22/05
etals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	12.0	14.1	9.32 U	15.6 U	25.2	16.9
Metals (USEPA SW-846 6000/7000)								
Aluminum	--	mg/kg	NA	NA	NA	NA	NA	NA
Antimony	--	mg/kg	NA	NA	NA	NA	NA	NA
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA
Barium	55000	mg/kg	NA	NA	NA	NA	NA	NA
Beryllium	--	mg/kg	NA	NA	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Calcium	--	mg/kg	NA	NA	NA	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA	NA	NA
Magnesium	--	mg/kg	NA	NA	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA	NA	NA
Potassium	--	mg/kg	NA	NA	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA	NA	NA
Sodium	--	mg/kg	NA	NA	NA	NA	NA	NA
Thallium	--	mg/kg	NA	NA	NA	NA	NA	NA
Vanadium	--	mg/kg	NA	NA	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA	NA	NA

Table 9B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-09 (IDPH Location S13) - Discrete Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-09-13(0-1) 0 - 1 06/22/05	OU4-SS-09-13(1-6) 1 - 6 06/22/05	OU4-SS-09-13(6-12) 6 - 12 06/22/05	OU4-SS-09-14(0-1) 0 - 1 06/22/05	OU4-SS-09-14(1-6) 1 - 6 06/22/05	OU4-SS-09-14(6-12) 6 - 12 06/22/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	7.19 U	20.8	10.5	11.3	27.0	10.6
Metals (USEPA SW-846 6000/7000)								
Aluminum	--	mg/kg	NA	NA	NA	NA	NA	NA
Antimony	--	mg/kg	NA	NA	NA	NA	NA	NA
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA
Barium	55000	mg/kg	NA	NA	NA	NA	NA	NA
Beryllium	--	mg/kg	NA	NA	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Calcium	--	mg/kg	NA	NA	NA	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA	NA	NA
Magnesium	--	mg/kg	NA	NA	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA	NA	NA
Potassium	--	mg/kg	NA	NA	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA	NA	NA
Sodium	--	mg/kg	NA	NA	NA	NA	NA	NA
Thallium	--	mg/kg	NA	NA	NA	NA	NA	NA
Vanadium	--	mg/kg	NA	NA	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA	NA	NA

Table 9B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-09 (IDPH Location S13) - Discrete Samples

Sample ID: Sample Depth(inches): Date Collected:	Residential RAL	Units	OU4-SS-09-15(0-1) 0 - 1 06/22/05	OU4-SS-09-15(1-6) 1 - 6 06/22/05	OU4-SS-09-15(6-12) 6 - 12 06/22/05	OU4-SS-09-16(0-1) 0 - 1 06/22/05	OU4-SS-09-16(1-6) 1 - 6 06/22/05	OU4-SS-09-17(0-1) 0 - 1 06/22/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	8.35	22.8 [17.6]	9.89	8.07	8.02	18.8
Metals (USEPA SW-846 6000/7000)								
Aluminum	--	mg/kg	NA	NA	NA	NA	NA	NA
Antimony	--	mg/kg	NA	NA	NA	NA	NA	NA
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA
Barium	55000	mg/kg	NA	NA	NA	NA	NA	NA
Beryllium	--	mg/kg	NA	NA	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Calcium	--	mg/kg	NA	NA	NA	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA	NA	NA
Magnesium	--	mg/kg	NA	NA	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA	NA	NA
Potassium	--	mg/kg	NA	NA	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA	NA	NA
Sodium	--	mg/kg	NA	NA	NA	NA	NA	NA
Thallium	--	mg/kg	NA	NA	NA	NA	NA	NA
Vanadium	--	mg/kg	NA	NA	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA	NA	NA

Table 9B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-09 (IDPH Location S13) - Discrete Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-09-17(1-6) 1 - 6 06/22/05	OU4-SS-09-18(0-1) 0 - 1 06/22/05	OU4-SS-09-18(1-6) 1 - 6 06/22/05	OU4-SS-09-19(0-1) 0 - 1 06/22/05	OU4-SS-09-19(1-6) 1 - 6 06/22/05	OU4-SS-09-20(1-6) 1 - 6 06/22/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	9.16 U	9.76	18.0	18.1	13.7	23.3
Metals (USEPA SW-846 6000/7000)								
Aluminum	--	mg/kg	NA	NA	NA	NA	NA	NA
Antimony	--	mg/kg	NA	NA	NA	NA	NA	NA
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA
Barium	55000	mg/kg	NA	NA	NA	NA	NA	NA
Beryllium	--	mg/kg	NA	NA	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Calcium	--	mg/kg	NA	NA	NA	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA	NA	NA
Magnesium	--	mg/kg	NA	NA	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA	NA	NA
Potassium	--	mg/kg	NA	NA	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA	NA	NA
Sodium	--	mg/kg	NA	NA	NA	NA	NA	NA
Thallium	--	mg/kg	NA	NA	NA	NA	NA	NA
Vanadium	--	mg/kg	NA	NA	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA	NA	NA

Table 9B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-09 (IDPH Location S13) - Discrete Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-09-21(1-6) 1 - 6 06/22/05	OU4-SS-09-22(1-6) 1 - 6 06/22/05	OU4-SS-09-23(1-6) 1 - 6 06/22/05
Metals - XRF (USEPA SW-846 6200)					
Arsenic	43	mg/kg	11.2	12.0 U	31.7 [29.4]
Metals (USEPA SW-846 6000/7000)					
Aluminum	--	mg/kg	NA	NA	NA
Antimony	--	mg/kg	NA	NA	NA
Arsenic	43	mg/kg	NA	NA	NA
Barium	55000	mg/kg	NA	NA	NA
Beryllium	--	mg/kg	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA
Calcium	--	mg/kg	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA
Magnesium	--	mg/kg	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA
Potassium	--	mg/kg	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA
Sodium	--	mg/kg	NA	NA	NA
Thallium	--	mg/kg	NA	NA	NA
Vanadium	--	mg/kg	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA

Table 9B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-09 (IDPH Location S13) - Discrete Samples

Notes:

NA = Not Analyzed
RAL = Removal Action Levels: from Hazard Evaluation Handbook: A Guide to Removal Actions. October 1997. Fourth Edition. EPA 903/B-97-006.
mg/kg = milligrams per kilogram
XRF = X-Ray Fluorescence
= values exceed Residential RAL Criteria.
J = The analyte was positively identified; however, the associated numerical value is an estimated concentration only.
U = The analyte was analyzed for but not detected.
B = The reported value was obtained from a reading less than the contract required detection limit (CRDL) but greater than or equal to the instrument detection limit (IDL).
R = The sample results are rejected.
JQ = The analyte was detected above the reported limit but below the method detection limit; therefore, the reported value should not be used for quantitative measurement.
UJ = The analyte was not detected above the reported sample detection limit. However, the reported limit is approximate and may or may not represent the actual limit of detectic
[ ] = Field Duplicate

Non-responsive

Table 10A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment

Soil Sample Analytical Results for Property SS-10 (IDPH Location S21) - Composite Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-10-COMP1(0-1) 0 - 1 06/09/05	OU4-SS-10-COMP1(1-6) 1 - 6 06/09/05	OU4-SS-10-COMP1(6-12) 6 - 12 06/09/05	OU4-SS-10-COMP1(12-18) 12 - 18 06/09/05
Metals - XRF (USEPA SW-846 6200)						
Arsenic	43	mg/kg	18.9 J	18.5 J	4.60 U	6.06
Barium	55000	mg/kg	1110 J	940 J	239 UJ	243 U
Cadmium	390	mg/kg	39.8	62.3	34.4 U	34.5 U
Chromium	3900	mg/kg	118 U	112 U	90.4 U	91.2 U
Cobalt	47000	mg/kg	122 U	113 U	81.2 U	79.6 U
Copper	31000	mg/kg	34.8 J	38.4 J	11.6 U	11.3 U
Iron	230000	mg/kg	23200 U	22600 U	11800 U	11600
Lead	1200	mg/kg	470 J	354 J	24.6 U	10.8
Manganese	18000	mg/kg	939 J	1050 J	724 UJ	475
Mercury	78	mg/kg	11.1 UJ	10.4 UJ	6.83 UJ	6.86 U
Nickel	16000	mg/kg	31.4 J	23.2 U	19.6 U	18.8 U
Selenium	3900	mg/kg	3.24 U	2.98 U	2.28 U	2.15 U
Silver	3900	mg/kg	27.2 UJ	25.1 UJ	24.0 UJ	23.9 U
Zinc	230000	mg/kg	3960	3880	376	41.0
Metals (USEPA SW-846 6000/7000)						
Aluminum	--	mg/kg	6550	NA	NA	NA
Antimony	--	mg/kg	6.61 U	NA	NA	NA
Arsenic	43	mg/kg	13.9	NA	NA	NA
Barium	55000	mg/kg	1500 J	NA	NA	NA
Beryllium	--	mg/kg	0.522	NA	NA	NA
Cadmium	390	mg/kg	30.2	NA	NA	NA
Calcium	--	mg/kg	3940	NA	NA	NA
Chromium	3900	mg/kg	13.1	NA	NA	NA
Cobalt	47000	mg/kg	6.20	NA	NA	NA
Copper	31000	mg/kg	43.5	NA	NA	NA
Iron	230000	mg/kg	16900	NA	NA	NA
Lead	1200	mg/kg	400	NA	NA	NA
Magnesium	--	mg/kg	1630	NA	NA	NA
Manganese	18000	mg/kg	829	NA	NA	NA
Mercury	78	mg/kg	0.0933 J	NA	NA	NA
Nickel	16000	mg/kg	12.9	NA	NA	NA
Potassium	--	mg/kg	970	NA	NA	NA
Selenium	3900	mg/kg	1.10 U	NA	NA	NA
Silver	3900	mg/kg	0.793 B	NA	NA	NA
Sodium	--	mg/kg	44.0 B	NA	NA	NA
Thallium	--	mg/kg	1.10 U	NA	NA	NA
Vanadium	--	mg/kg	20.1	NA	NA	NA
Zinc	230000	mg/kg	2710	NA	NA	NA

Table 10A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment

Soil Sample Analytical Results for Property SS-10 (IDPH Location S21) - Composite Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-10-COMP2(0-1) 0 - 1 06/09/05	OU4-SS-10-COMP2(1-6) 1 - 6 06/09/05	OU4-SS-10-COMP2(6-12) 6 - 12 06/09/05	OU4-SS-10-COMP2(12-18) 12 - 18 06/09/05
Metals - XRF (USEPA SW-846 6200)						
Arsenic	43	mg/kg	31.4 J	26.9 J	10.3 J	4.74 U
Barium	55000	mg/kg	918 J	1310 J	309 J	232 UJ
Cadmium	390	mg/kg	67.3	98.9	42.1	34.1 U
Chromium	3900	mg/kg	110 U	119 U	92.0 U	84.8 U
Cobalt	47000	mg/kg	106 U	112 U	91.2 U	79.7 U
Copper	31000	mg/kg	46.8 J	71.3 J	12.8 U	11.2 U
Iron	230000	mg/kg	18700 U	19700 U	15200 U	11200 U
Lead	1200	mg/kg	560 J	566 J	135 J	27.9 U
Manganese	18000	mg/kg	719 UJ	713 UJ	739 UJ	434 UJ
Mercury	78	mg/kg	10.5 UJ	11.7 UJ	8.26 UJ	7.06 UJ
Nickel	16000	mg/kg	22.8 U	24.8 U	19.9 U	18.4 U
Selenium	3900	mg/kg	3.13 U	3.30 U	2.46 U	2.29 U
Silver	3900	mg/kg	25.1 UJ	27.3 UJ	24.0 UJ	23.7 UJ
Zinc	230000	mg/kg	3740	3920	1830	577
Metals (USEPA SW-846 6000/7000)						
Aluminum	--	mg/kg	NA	7270	NA	NA
Antimony	--	mg/kg	NA	6.59 U	NA	NA
Arsenic	43	mg/kg	NA	14.8	NA	NA
Barium	55000	mg/kg	NA	1950 J	NA	NA
Beryllium	--	mg/kg	NA	0.733	NA	NA
Cadmium	390	mg/kg	NA	61.5	NA	NA
Calcium	--	mg/kg	NA	6070	NA	NA
Chromium	3900	mg/kg	NA	12.5	NA	NA
Cobalt	47000	mg/kg	NA	6.53	NA	NA
Copper	31000	mg/kg	NA	66.7	NA	NA
Iron	230000	mg/kg	NA	16800	NA	NA
Lead	1200	mg/kg	NA	609	NA	NA
Magnesium	--	mg/kg	NA	2060	NA	NA
Manganese	18000	mg/kg	NA	738	NA	NA
Mercury	78	mg/kg	NA	0.379 J	NA	NA
Nickel	16000	mg/kg	NA	13.2	NA	NA
Potassium	--	mg/kg	NA	1060	NA	NA
Selenium	3900	mg/kg	NA	1.35	NA	NA
Silver	3900	mg/kg	NA	1.25 B	NA	NA
Sodium	--	mg/kg	NA	110 U	NA	NA
Thallium	--	mg/kg	NA	1.10 U	NA	NA
Vanadium	--	mg/kg	NA	20.9	NA	NA
Zinc	230000	mg/kg	NA	3230	NA	NA

Table 10A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment

Soil Sample Analytical Results for Property SS-10 (IDPH Location S21) - Composite Samples

Sample ID: / Sample Depth(Inches): / Date Collected:	Residential RAL	Units	OU4-SS-10-COMP3(0-1) 0 - 1 06/09/05	OU4-SS-10-COMP3(1-6) 1 - 6 06/09/05	OU4-SS-10-COMP3(6-12) 6 - 12 06/09/05	OU4-SS-10-COMP3(12-18) 12 - 18 06/09/05
Metals - XRF (USEPA SW-846 6200)						
Arsenic	43	mg/kg	10.2 J	13.6 U	8.85 U	4.09 U
Barium	55000	mg/kg	362 J	754 J	313 J	225 UJ
Cadmium	390	mg/kg	45.2	48.6	35.5 U	34.5 U
Chromium	3900	mg/kg	96.2 U	104 U	98.0 U	88.7 U
Cobalt	47000	mg/kg	100 U	104 U	89.7 U	77.7 U
Copper	31000	mg/kg	36.9 J	38.1 J	12.2 U	11.1 U
Iron	230000	mg/kg	18500 U	19200 U	13200 U	10600 U
Lead	1200	mg/kg	233	428	156	13.6 U
Manganese	18000	mg/kg	505 UJ	810 J	745 UJ	458 UJ
Mercury	78	mg/kg	7.99 J	10.3 UJ	8.04 UJ	7.03 UJ
Nickel	16000	mg/kg	22.7 JQ	22.3 U	21.3 U	18.5 U
Selenium	3900	mg/kg	2.46 U	2.91 U	2.59 U	2.19 U
Silver	3900	mg/kg	23.6 UJ	24.5 UJ	24.9 UJ	23.9 UJ
Zinc	230000	mg/kg	1450	3620	1450	227
Metals (USEPA SW-846 6000/7000)						
Aluminum	--	mg/kg	NA	NA	NA	NA
Antimony	--	mg/kg	NA	NA	NA	NA
Arsenic	43	mg/kg	NA	NA	NA	NA
Barium	55000	mg/kg	NA	NA	NA	NA
Beryllium	--	mg/kg	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	NA
Calcium	--	mg/kg	NA	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA
Magnesium	--	mg/kg	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA
Potassium	--	mg/kg	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA
Sodium	--	mg/kg	NA	NA	NA	NA
Thallium	--	mg/kg	NA	NA	NA	NA
Vanadium	--	mg/kg	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA

Table 10A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment

Soil Sample Analytical Results for Property SS-10 (IDPH Location S21) - Composite Samples

Notes:

NA = Not Analyzed
RAL = Removal Action Levels: from Hazard Evaluation Handbook: A Guide to Removal Actions. October 1997. Fourth Edition. EPA 903/B-97-006.
mg/kg = milligrams per kilogram
XRF = X-Ray Fluorescence
= Values exceed Residential RAL Criteria.
J = The analyte was positively identified; however, the associated numerical value is an estimated concentration only.
U = The analyte was analyzed for but not detected.
B = The reported value was obtained from a reading less than the contract required detection limit (CRDL) but greater than or equal to the instrument detection limit (IDL).
R = The sample results are rejected.
JQ = The analyte was detected above the reported limit but below the method detection limit; therefore, the reported value should not be used for quantitative measurement.
UJ = The analyte was not detected above the reported sample detection limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.
[ ] = Field Duplicate

Table 10B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-10 (IDPH Location S21) - Discrete Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-10-01(0-1) 0 - 1 06/22/05	OU4-SS-10-01(1-6) 1 - 6 06/22/05	OU4-SS-10-02(0-1) 0 - 1 06/22/05	OU4-SS-10-02(1-6) 1 - 6 06/22/05	OU4-SS-10-03(0-1) 0 - 1 06/22/05	OU4-SS-10-03(1-6) 1 - 6 06/22/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	13.0 U	14.5	17.5	21.4	19.7	24.1
Barium	55000	mg/kg	NA	NA	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA	NA	NA
Metals (USEPA SW-846 6000/7000)								
Aluminum	--	mg/kg	NA	NA	NA	NA	NA	NA
Antimony	--	mg/kg	NA	NA	NA	NA	NA	NA
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA
Barium	55000	mg/kg	NA	NA	NA	NA	NA	NA
Beryllium	--	mg/kg	NA	NA	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Calcium	--	mg/kg	NA	NA	NA	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA	NA	NA
Magnesium	--	mg/kg	NA	NA	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA	NA	NA
Potassium	--	mg/kg	NA	NA	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA	NA	NA
Sodium	--	mg/kg	NA	NA	NA	NA	NA	NA
Thallium	--	mg/kg	NA	NA	NA	NA	NA	NA
Vanadium	--	mg/kg	NA	NA	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA	NA	NA

Table 10B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-10 (IDPH Location S21) - Discrete Samples

Sample ID: Sample Depth(inches): Date Collected:	Residential RAL	Units	OU4-SS-10-04(0-1) 0 - 1 06/22/05	OU4-SS-10-04(1-6) 1 - 6 06/22/05	OU4-SS-10-05(0-1) 0 - 1 06/22/05	OU4-SS-10-05(1-6) 1 - 6 06/22/05	OU4-SS-10-06(0-1) 0 - 1 06/22/05	OU4-SS-10-06(1-6) 1 - 6 06/22/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	14.1	15.8	14.1	16.6	33.0	19.9
Barium	55000	mg/kg	NA	NA	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA	NA	NA
Metals (USEPA SW-846 6000/7000)								
Aluminum	--	mg/kg	NA	NA	NA	NA	NA	NA
Antimony	--	mg/kg	NA	NA	NA	NA	NA	NA
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA
Barium	55000	mg/kg	NA	NA	NA	NA	NA	NA
Beryllium	--	mg/kg	NA	NA	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Calcium	--	mg/kg	NA	NA	NA	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA	NA	NA
Magnesium	--	mg/kg	NA	NA	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA	NA	NA
Potassium	--	mg/kg	NA	NA	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA	NA	NA
Sodium	--	mg/kg	NA	NA	NA	NA	NA	NA
Thallium	--	mg/kg	NA	NA	NA	NA	NA	NA
Vanadium	--	mg/kg	NA	NA	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA	NA	NA

Table 10B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-10 (IDPH Location S21) - Discrete Samples

Sample ID: / Sample Depth(inches): / Date Collected:	Residential RAL	Units	OU4-SS-10-07(0-1) 0 - 1 06/22/05	OU4-SS-10-07(1-6) 1 - 6 06/22/05	OU4-SS-10-08(0-1) 0 - 1 06/22/05	OU4-SS-10-08(1-6) 1 - 6 06/22/05	OU4-SS-10-09(0-1) 0 - 1 06/14/05	OU4-SS-10-09(1-6) 1 - 6 06/14/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	21.7	28.7	40.2	13.8 U	6.76 U	7.79 U
Barium	55000	mg/kg	NA	NA	NA	NA	284 UJ	371 J
Cadmium	390	mg/kg	NA	NA	NA	NA	38.0 U	34.1 U
Chromium	3900	mg/kg	NA	NA	NA	NA	113 U	93.7 U
Cobalt	47000	mg/kg	NA	NA	NA	NA	119 U	86.6 U
Copper	31000	mg/kg	NA	NA	NA	NA	33.6 J	16.8 J
Iron	230000	mg/kg	NA	NA	NA	NA	20400 U	13700 U
Lead	1200	mg/kg	NA	NA	NA	NA	62.8	128
Manganese	18000	mg/kg	NA	NA	NA	NA	336 UJ	506 UJ
Mercury	78	mg/kg	NA	NA	NA	NA	8.33 UJ	8.40 UJ
Nickel	16000	mg/kg	NA	NA	NA	NA	25.5 U	20.1 U
Selenium	3900	mg/kg	NA	NA	NA	NA	2.65 U	2.43 U
Silver	3900	mg/kg	NA	NA	NA	NA	26.5 UJ	23.7 UJ
Zinc	230000	mg/kg	NA	NA	NA	NA	302	1280
Metals (USEPA SW-846 6000/7000)								
Aluminum	--	mg/kg	NA	NA	NA	NA	NA	NA
Antimony	--	mg/kg	NA	NA	NA	NA	NA	NA
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA
Barium	55000	mg/kg	NA	NA	NA	NA	NA	NA
Beryllium	--	mg/kg	NA	NA	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Calcium	--	mg/kg	NA	NA	NA	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA	NA	NA
Magnesium	--	mg/kg	NA	NA	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA	NA	NA
Potassium	--	mg/kg	NA	NA	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA	NA	NA
Sodium	--	mg/kg	NA	NA	NA	NA	NA	NA
Thallium	--	mg/kg	NA	NA	NA	NA	NA	NA
Vanadium	--	mg/kg	NA	NA	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA	NA	NA

Table 10B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-10 (IDPH Location S21) - Discrete Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-10-09(6-12) 6 - 12 06/14/05	OU4-SS-10-09(12-18) 12 - 18 06/14/05	OU4-SS-10-10(0-1) 0 - 1 06/14/05	OU4-SS-10-10(1-6) 1 - 6 06/09/05	OU4-SS-10-10(6-12) 6 - 12 06/14/05	OU4-SS-10-10(12-18) 12 - 18 06/14/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	11.4 U	4.77 J	8.70 J	12.1 U	9.65 J	4.03 U
Barium	55000	mg/kg	617 J	233 UJ	264 UJ	278 UJ	329 J	221 UJ
Cadmium	390	mg/kg	37.0	44.8	35.5 U	39.0 U	47.8	33.3 U
Chromium	3900	mg/kg	99.6 U	85.2 U	107 U	107 U	94.7 U	87.6 U
Cobalt	47000	mg/kg	96.7 U	79.8 U	114 U	105 U	80.4 U	74.2 U
Copper	31000	mg/kg	16.1 J	11.6 U	23.7 J	48.1 J	12.0 U	10.5 U
Iron	230000	mg/kg	16200 U	11400 U	21700 U	17200 U	12200 U	10300 U
Lead	1200	mg/kg	286	26.1 U	44.2	292	97.7	14.3 U
Manganese	18000	mg/kg	784 J	720 UJ	431 UJ	533 UJ	497 UJ	681 UJ
Mercury	78	mg/kg	9.18 UJ	7.37 UJ	8.19 UJ	9.06 UJ	7.18 UJ	7.31 UJ
Nickel	16000	mg/kg	21.6 U	18.8 U	35.7 J	22.9 U	19.2 U	17.8 U
Selenium	3900	mg/kg	2.65 U	2.20 U	2.46 U	3.02 U	2.31 U	2.16 U
Silver	3900	mg/kg	24.7 UJ	23.4 UJ	24.9 UJ	27.2 UJ	23.8 UJ	23.1 UJ
Zinc	230000	mg/kg	2470	782	194	954	605	557
Metals (USEPA SW-846 6000/7000)								
Aluminum	--	mg/kg	NA	NA	NA	10500	NA	NA
Antimony	--	mg/kg	NA	NA	NA	6.79 U	NA	NA
Arsenic	43	mg/kg	NA	NA	NA	7.81	NA	NA
Barium	55000	mg/kg	NA	NA	NA	589 J	NA	NA
Beryllium	--	mg/kg	NA	NA	NA	0.613	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	8.26	NA	NA
Calcium	--	mg/kg	NA	NA	NA	14700	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	27.1	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	7.25	NA	NA
Copper	31000	mg/kg	NA	NA	NA	53.4	NA	NA
Iron	230000	mg/kg	NA	NA	NA	18100	NA	NA
Lead	1200	mg/kg	NA	NA	NA	254	NA	NA
Magnesium	--	mg/kg	NA	NA	NA	6640	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	569	NA	NA
Mercury	78	mg/kg	NA	NA	NA	0.177 J	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	19.9	NA	NA
Potassium	--	mg/kg	NA	NA	NA	1880	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	1.13 U	NA	NA
Silver	3900	mg/kg	NA	NA	NA	0.603 B	NA	NA
Sodium	--	mg/kg	NA	NA	NA	103 B	NA	NA
Thallium	--	mg/kg	NA	NA	NA	1.13 U	NA	NA
Vanadium	--	mg/kg	NA	NA	NA	25.8	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	671	NA	NA

Table 10B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-10 (IDPH Location S21) - Discrete Samples

Sample ID: / Sample Depth(Inches): / Date Collected:	Residential RAL	Units	OU4-SS-10-11(1-6) 1 - 6 06/22/05	OU4-SS-10-12(1-6) 1 - 6 06/22/05	OU4-SS-10-13(1-6) 1 - 6 06/22/05	OU4-SS-10-14(1-6) 1 - 6 06/22/05
Metals - XRF (USEPA SW-846 6200)						
Arsenic	43	mg/kg	11.5 U	15.2 U	22.7	18.2 U [18.3 U]
Barium	55000	mg/kg	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA
Metals (USEPA SW-846 6000/7000)						
Aluminum	--	mg/kg	NA	NA	NA	NA
Antimony	--	mg/kg	NA	NA	NA	NA
Arsenic	43	mg/kg	NA	NA	NA	NA
Barium	55000	mg/kg	NA	NA	NA	NA
Beryllium	--	mg/kg	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	NA
Calcium	--	mg/kg	NA	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA
Magnesium	--	mg/kg	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA
Potassium	--	mg/kg	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA
Sodium	--	mg/kg	NA	NA	NA	NA
Thallium	--	mg/kg	NA	NA	NA	NA
Vanadium	--	mg/kg	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA

Table 10B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-10 (IDPH Location S21) - Discrete Samples

Notes:

NA = Not Analyzed
RAL = Removal Action Levels: from Hazard Evaluation Handbook: A Guide to Removal Actions. October 1997. Fourth Edition. EPA 903/B-97-006.
mg/kg = milligrams per kilogram
XRF = X-Ray Fluorescence
= Values exceed Residential RAL Criteria.
J = The analyte was positively identified; however, the associated numerical value is an estimated concentration only.
U = The analyte was analyzed for but not detected.
B = The reported value was obtained from a reading less than the contract required detection limit (CRDL) but greater than or equal to the instrument detection limit (IDL).
R = The sample results are rejected.
JQ = The analyte was detected above the reported limit but below the method detection limit; therefore, the reported value should not be used for quantitative measurement.
UJ = The analyte was not detected above the reported sample detection limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.
[ ] = Field Duplicate

LEGEND:

- BUILDING
- PLANTER
- PAVEMENT
- ALLEYWAY
- PROPERTY LINE
- DECIDUOUS TREE
- EVERGREEN TREE
- SHRUB
- SHRUB/PLANTER
- STUMP
- GAS METER
- POWER POLE
- ANTENNA TOWER
- CLOTHESLINE POLE
- FENCE
- IRON PIPE

NNEL

BBL

CALE

DRAWING SOURCE: REVISED REMOVAL ACTION LIMIT ASSESSMENT REPO

ENVIRON

SAMPLE LOCATION SS-11
(IDPH LOCATION D16)
REMOVAL ACTION LIMIT ASSESSMENT REPORT
DEPUE SITE
DEPUE, ILLINOIS

DATE:	CONTRACT NUMBER:		FIGURE
5/20/10	21-12046C		11
DRAFTER: APR	APPROVED:	REVISED:	

R:\Client Project Files\CBS - NJ Zinc_21-12046C\FINAL RAL Assesment Report_May 2010\Figures\11A & 10B.dwg

Table 11A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-11 (IDPH Location D16) - Composite Samples

Sample ID: / Sample Depth(Inches): / Date Collected:	Residential RAL[1]	Units	OU4-SS-11-COMP1(0-1) 0 - 1 06/09/05	OU4-SS-11-COMP1(1-6) 1 - 6 06/09/05	OU4-SS-11-COMP1(6-12) 6 - 12 06/09/05	OU4-SS-11-COMP1(12-18) 12 - 18 06/09/05
Metals - XRF (USEPA SW-846 6200)						
Arsenic	43	mg/kg	20.7 J	23.8 J	17.5 J	17.2 J
Barium	55000	mg/kg	1120 J	2140 J	1390 J	561 J
Cadmium	390	mg/kg	63.8	115	38.1	36.3 U
Chromium	3900	mg/kg	113 U	141 U	118 U	113 U
Cobalt	47000	mg/kg	121 U	142 U	123 U	131 U
Copper	31000	mg/kg	54.0 J	70.5 J	39.1 J	47.6 J
Iron	230000	mg/kg	24600	28200	24600	28400
Lead	1200	mg/kg	342 J	499 J	238 J	483 J
Manganese	18000	mg/kg	665 J	980 J	766 J	373 J
Mercury	78	mg/kg	10.6 UJ	12.6 UJ	10.2 UJ	10.3 UJ
Nickel	16000	mg/kg	24.3 UJ	29.1 UJ	28.6 J	25.8 UJ
Selenium	3900	mg/kg	2.94 U	3.68 U	2.80 U	2.95 U
Silver	3900	mg/kg	24.6 UJ	29.1 UJ	25.6 UJ	25.4 UJ
Zinc	230000	mg/kg	4940	6910	3100	2290
Metals (USEPA SW-846 6000/7000)						
Aluminum	--	mg/kg	NA	12700	NA	NA
Antimony	--	mg/kg	NA	6.55 U	NA	NA
Arsenic	43	mg/kg	NA	21.2	NA	NA
Barium	55000	mg/kg	NA	3760 J	NA	NA
Beryllium	--	mg/kg	NA	0.873	NA	NA
Cadmium	390	mg/kg	NA	88.7	NA	NA
Calcium	--	mg/kg	NA	12200	NA	NA
Chromium	3900	mg/kg	NA	20.3	NA	NA
Cobalt	47000	mg/kg	NA	9.86	NA	NA
Copper	31000	mg/kg	NA	108	NA	NA
Iron	230000	mg/kg	NA	24800	NA	NA
Lead	1200	mg/kg	NA	464	NA	NA
Magnesium	--	mg/kg	NA	5290	NA	NA
Manganese	18000	mg/kg	NA	893	NA	NA
Mercury	78	mg/kg	NA	0.102 J	NA	NA
Nickel	16000	mg/kg	NA	18.9	NA	NA
Potassium	--	mg/kg	NA	2280	NA	NA
Selenium	3900	mg/kg	NA	1.50	NA	NA
Silver	3900	mg/kg	NA	2.11 B	NA	NA
Sodium	--	mg/kg	NA	52.0 B	NA	NA
Thallium	--	mg/kg	NA	1.14	NA	NA
Vanadium	--	mg/kg	NA	31.2	NA	NA
Zinc	230000	mg/kg	NA	6330	NA	NA

Table 11A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-11 (IDPH Location D16) - Composite Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-11-COMP2(0-1) 0 - 1 06/09/05	OU4-SS-11-COMP2(1-6) 1 - 6 06/09/05	OU4-SS-11-COMP2(6-12) 6 - 12 06/09/05	OU4-SS-11-COMP2(12-18) 12 - 18 06/09/05
Metals - XRF (USEPA SW-846 6200)						
Arsenic	43	mg/kg	13.6 U	19.2 J	14.5 J	14.7 J [15.4 J]
Barium	55000	mg/kg	1200 J	1070 J	1450 J	693 J [706 J]
Cadmium	390	mg/kg	81.5	69.2	44.5	36.7 U [36.6 U]
Chromium	3900	mg/kg	124 U	111 U	117 U	108 U [112 U]
Cobalt	47000	mg/kg	138 JQ	117 U	120 U	126 JQ [116 U]
Copper	31000	mg/kg	62.7 J	48.9 J	38.5 J	29.9 J [25.4 J]
Iron	230000	mg/kg	24900	22700	22300	21900 [21800]
Lead	1200	mg/kg	365 J	270 J	228 J	187 J [193 J]
Manganese	18000	mg/kg	508 J	624 J	505 J	450 J [420 J]
Mercury	78	mg/kg	11.5 UJ	10.3 UJ	10.4 UJ	9.46 UJ [9.01 UJ]
Nickel	16000	mg/kg	26.9 UJ	23.9 UJ	25.6 UJ	22.7 UJ [24.2 UJ]
Selenium	3900	mg/kg	3.22 U	2.72 U	2.82 U	2.77 U [2.77 U]
Silver	3900	mg/kg	28.2 UJ	25.4 UJ	26.1 UJ	25.6 UJ [25.6 UJ]
Zinc	230000	mg/kg	4270	4150	2930	1850 J [1800 J]
Metals (USEPA SW-846 6000/7000)						
Aluminum	--	mg/kg	12100	NA	NA	NA
Antimony	--	mg/kg	6.97 U	NA	NA	NA
Arsenic	43	mg/kg	14.2	NA	NA	NA
Barium	55000	mg/kg	2260 J	NA	NA	NA
Beryllium	--	mg/kg	0.805	NA	NA	NA
Cadmium	390	mg/kg	52.6	NA	NA	NA
Calcium	--	mg/kg	10500	NA	NA	NA
Chromium	3900	mg/kg	20.4	NA	NA	NA
Cobalt	47000	mg/kg	8.39	NA	NA	NA
Copper	31000	mg/kg	70.2	NA	NA	NA
Iron	230000	mg/kg	22100	NA	NA	NA
Lead	1200	mg/kg	346	NA	NA	NA
Magnesium	--	mg/kg	5100	NA	NA	NA
Manganese	18000	mg/kg	695	NA	NA	NA
Mercury	78	mg/kg	0.115 J	NA	NA	NA
Nickel	16000	mg/kg	18.4	NA	NA	NA
Potassium	--	mg/kg	2190	NA	NA	NA
Selenium	3900	mg/kg	1.12 B	NA	NA	NA
Silver	3900	mg/kg	1.21 B	NA	NA	NA
Sodium	--	mg/kg	161	NA	NA	NA
Thallium	--	mg/kg	1.16 U	NA	NA	NA
Vanadium	--	mg/kg	30.8	NA	NA	NA
Zinc	230000	mg/kg	3530	NA	NA	NA

Table 11A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-11 (IDPH Location D16) - Composite Samples

Sample ID: Sample Depth(inches): Date Collected:	Residential RAL	Units	OU4-SS-11-COMP3(0-1) 0 - 1 06/09/05	OU4-SS-11-COMP3(1-6) 1 - 6 06/09/05	OU4-SS-11-COMP3(6-12) 6 - 12 06/09/05	OU4-SS-11-COMP3(12-18) 12 - 18 06/09/05
Metals - XRF (USEPA SW-846 6200)						
Arsenic	43	mg/kg	12.0 U	14.2 J	12.7 J	25.5 J
Barium	55000	mg/kg	1110	1140	772	482
Cadmium	390	mg/kg	71.9 J	63.5 J	36.2 U	44.3 U
Chromium	3900	mg/kg	113 U	111 U	108 U	143 U
Cobalt	47000	mg/kg	135 J	111 U	116 U	186 U
Copper	31000	mg/kg	53.9 J	40.5 J	20.3 J	59.9 J
Iron	230000	mg/kg	25700	20100	22100	46600
Lead	1200	mg/kg	314 J	243 J	183 J	671 J
Manganese	18000	mg/kg	517 J	469 J	421 UJ	589 J
Mercury	78	mg/kg	10.2 UJ	10.4 UJ	9.22 UJ	21.9 JQ
Nickel	16000	mg/kg	25.2 U	23.6 U	24.0 U	34.0 U
Selenium	3900	mg/kg	2.90 U	2.79 U	2.73 U	3.98 U
Silver	3900	mg/kg	24.7 UJ	25.3 UJ	25.3 UJ	31.1 UJ
Zinc	230000	mg/kg	4120	3010	1600	3970
Metals (USEPA SW-846 6000/7000)						
Aluminum	--	mg/kg	NA	NA	NA	14700
Antimony	--	mg/kg	NA	NA	NA	7.35 U
Arsenic	43	mg/kg	NA	NA	NA	21.6
Barium	55000	mg/kg	NA	NA	NA	688 J
Beryllium	--	mg/kg	NA	NA	NA	1.92
Cadmium	390	mg/kg	NA	NA	NA	15.6
Calcium	--	mg/kg	NA	NA	NA	9680
Chromium	3900	mg/kg	NA	NA	NA	24.3
Cobalt	47000	mg/kg	NA	NA	NA	8.78
Copper	31000	mg/kg	NA	NA	NA	66.3
Iron	230000	mg/kg	NA	NA	NA	28400
Lead	1200	mg/kg	NA	NA	NA	567
Magnesium	--	mg/kg	NA	NA	NA	3260
Manganese	18000	mg/kg	NA	NA	NA	676
Mercury	78	mg/kg	NA	NA	NA	0.312 J
Nickel	16000	mg/kg	NA	NA	NA	25.4
Potassium	--	mg/kg	NA	NA	NA	2450
Selenium	3900	mg/kg	NA	NA	NA	1.31
Silver	3900	mg/kg	NA	NA	NA	1.49 B
Sodium	--	mg/kg	NA	NA	NA	301
Thallium	--	mg/kg	NA	NA	NA	1.91
Vanadium	--	mg/kg	NA	NA	NA	34.5
Zinc	230000	mg/kg	NA	NA	NA	2790

Table 11A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-11 (IDPH Location D16) - Composite Samples

Notes:

NA = Not Analyzed
RAL = Removal Action Levels: from Hazard Evaluation Handbook: A Guide to Removal Actions. October 1997. Fourth Edition. EPA 903/B-97-006.
mg/kg = milligrams per kilogram
XRF = X-Ray Fluorescence
= Values exceed Residential RAL Criteria.
J = The analyte was positively identified; however, the associated numerical value is an estimated concentration only.
U = The analyte was analyzed for but not detected.
B = The reported value was obtained from a reading less than the contract required detection limit (CRDL) but greater than or equal to the instrument detection limit (IDL).
R = The sample results are rejected.
JQ = The analyte was detected above the reported limit but below the method detection limit; therefore, the reported value should not be used for quantitative measurement.
UJ = The analyte was not detected above the reported sample detection limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.
[ ] = Field Duplicate

Table 11B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-11 (IDHP Location D16) - Discrete Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-11-01(0-1) 0 - 1 06/22/05	OU4-SS-11-01(1-6) 1 - 6 06/23/05	OU4-SS-11-01(6-12) 6 - 12 06/22/05	OU4-SS-11-01(12-18) 12 - 18 06/09/05	OU4-SS-11-02(0-1) 0 - 1 06/22/05	OU4-SS-11-02(1-6) 1 - 6 06/23/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	13.8	12.6 J	21.9	75.3	19.2	14.4 U
Cadmium	390	mg/kg	NA	89.2	NA	NA	NA	113
Metals (USEPA SW-846 6000/7000)								
Arsenic	43	mg/kg	NA	NA	NA	17.0	NA	NA

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-11-02(6-12) 6 - 12 06/22/05	OU4-SS-11-02(12-18) 12 - 18 06/09/05	OU4-SS-11-03(0-1) 0 - 1 06/22/05	OU4-SS-11-03(1-6) 1 - 6 06/23/05	OU4-SS-11-03(6-12) 6 - 12 06/22/05	OU4-SS-11-03(12-18) 12 - 18 06/22/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	20.1	96.5	13.7	32.7 J	14.4	6.35 U
Cadmium	390	mg/kg	NA	NA	NA	136	NA	NA
Metals (USEPA SW-846 6000/7000)								
Arsenic	43	mg/kg	NA	23.3	NA	NA	NA	NA

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-11-04(0-1) 0 - 1 06/22/05	OU4-SS-11-04(1-6) 1 - 6 06/23/05	OU4-SS-11-04(6-12) 6 - 12 06/22/05	OU4-SS-11-04(12-18) 12 - 18 06/22/05	OU4-SS-11-05(0-1) 0 - 1 06/22/05	OU4-SS-11-05(1-6) 1 - 6 06/22/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	13.8 U	35.0 J [29.1 J]	25.2	16.3	13.2	15.3
Cadmium	390	mg/kg	NA	81.8 [92.3]	NA	NA	NA	NA
Metals (USEPA SW-846 6000/7000)								
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-11-05(6-12) 6 - 12 06/22/05	OU4-SS-11-05(12-18) 12 - 18 06/22/05	OU4-SS-11-06(0-1) 0 - 1 06/22/05	OU4-SS-11-06(1-6) 1 - 6 06/22/05	OU4-SS-11-06(6-12) 6 - 12 06/22/05	OU4-SS-11-06(12-18) 12 - 18 06/22/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	14.1	11.7	13.2	12.8 U	18.9	17.4
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Metals (USEPA SW-846 6000/7000)								
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA

Table 11B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-11 (IDHP Location D16) - Discrete Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-11-07(0-1) 0 - 1 06/22/05	OU4-SS-11-07(1-6) 1 - 6 06/22/05	OU4-SS-11-07(6-12) 6 - 12 06/22/05	OU4-SS-11-07(12-18) 12 - 18 06/22/05	OU4-SS-11-08(0-1) 0 - 1 06/22/05	OU4-SS-11-08(1-6) 1 - 6 06/22/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	19.8	17.3	18.1	12.3	17.1	12.2 U
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Metals (USEPA SW-846 6000/7000)								
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-11-08(6-12) 6 - 12 06/22/05	OU4-SS-11-08(12-18) 12 - 18 06/22/05	OU4-SS-11-09(0-1) 0 - 1 06/22/05	OU4-SS-11-09(1-6) 1 - 6 06/22/05	OU4-SS-11-09(6-12) 6 - 12 06/22/05	OU4-SS-11-09(12-18) 12 - 18 06/22/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	16.1	22.0	13.5 [11.9 U]	19.8	11.3 U	9.67 U
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Metals (USEPA SW-846 6000/7000)								
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-11-10(0-1) 0 - 1 06/22/05	OU4-SS-11-10(1-6) 1 - 6 06/22/05	OU4-SS-11-10(6-12) 6 - 12 06/22/05	OU4-SS-11-10(12-18) 12 - 18 06/22/05	OU4-SS-11-11(0-1) 0 - 1 06/22/05	OU4-SS-11-11(1-6) 1 - 6 06/22/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	19.2	12.1 U	9.30 U	15.1	12.0 U	17.5
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Metals (USEPA SW-846 6000/7000)								
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-11-11(6-12) 6 - 12 06/22/05	OU4-SS-11-11(12-18) 12 - 18 06/22/05	OU4-SS-11-12(0-1) 0 - 1 06/22/05	OU4-SS-11-12(1-6) 1 - 6 06/22/05	OU4-SS-11-12(6-12) 6 - 12 06/22/05	OU4-SS-11-12(12-18) 12 - 18 06/09/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	14.8	38.7	15.7	11.7	20.0	75.8
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Metals (USEPA SW-846 6000/7000)								
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	43.7

Table 11B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-11 (IDHP Location D16) - Discrete Samples

Sample ID: / Sample Depth(Inches): / Date Collected:	Residential RAL	Units	OU4-SS-11-13(0-1) 0 - 1 06/22/05	OU4-SS-11-13(1-6) 1 - 6 06/22/05	OU4-SS-11-13(6-12) 6 - 12 06/22/05	OU4-SS-11-13(12-18) 12 - 18 06/22/05
Metals - XRF (USEPA SW-846 6200)						
Arsenic	43	mg/kg	14.7 [11.1 U]	11.4 U	8.27 U	16.2 U
Cadmium	390	mg/kg	NA	NA	NA	NA
Metals (USEPA SW-846 6000/7000)						
Arsenic	43	mg/kg	NA	NA	NA	NA

Notes:

NA = Not Analyzed
RAL = Removal Action Levels: from Hazard Evaluation Handbook: A Guide to Removal Actions. October 1997. Fourth Edition. EPA 903/B-97-006.
mg/kg = milligrams per kilogram
XRF = X-Ray Fluorescence
= Values exceed Residential RAL Criteria.
J = The analyte was positively identified; however, the associated numerical value is an estimated concentration only.
U = The analyte was analyzed for but not detected.
B = The reported value was obtained from a reading less than the contract required detection limit (CRDL) but greater than or equal to the instrument detection limit (IDL).
R = The sample results are rejected.
JQ = The analyte was detected above the reported limit but below the method detection limit; therefore, the reported value should not be used for quantitative measurement.
UJ = The analyte was not detected above the reported sample detection limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.
[ ] = Field Duplicate

Non-responsive

Table 12A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report
Summary of Soil Sample Analytical Results

Soil Sample Analytical Results for Property SS-12 (IDHP Location S19) - Composite Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-12-COMP1(0-1) 0 - 1 06/10/05	OU4-SS-12-COMP1(1-6) 1 - 6 06/10/05	OU4-SS-12-COMP1(6-12) 6 - 12 06/10/05	OU4-SS-12-COMP1(12-18) 12 - 18 06/10/05
Metals - XRF (USEPA SW-846 6200)						
Arsenic	43	mg/kg	12.6 J	15.7 J	7.55 J	3.86 U
Barium	55000	mg/kg	452	833	295	281
Cadmium	390	mg/kg	38.6 U	46.3	34.6 U	34.0 U
Chromium	3900	mg/kg	110 U	110 U	96.9 U	88.6 U
Cobalt	47000	mg/kg	108 JQ	108 U	88.9 U	77.3 U
Copper	31000	mg/kg	22.8 J	43.0	12.5 U	10.8 U
Iron	230000	mg/kg	17300 U	19600	14300 U	11100 U
Lead	1200	mg/kg	164 J	282 J	90.0 J	10.8 U
Manganese	18000	mg/kg	537 J	701 J	712 J	677 J
Mercury	78	mg/kg	9.23 UJ	10.3 UJ	8.17 UJ	7.34 UJ
Nickel	16000	mg/kg	22.6 U	23.4 U	20.4 U	18.1 U
Selenium	3900	mg/kg	2.75 U	2.73 U	2.37 U	2.07 U
Silver	3900	mg/kg	26.9 UJ	25.0 UJ	24.0 UJ	23.6 UJ
Zinc	230000	mg/kg	2020	4190	1400	54.4
Metals (USEPA SW-846 6000/7000)						
Aluminum	--	mg/kg	11800	NA	NA	NA
Antimony	--	mg/kg	6.94 UJ	NA	NA	NA
Arsenic	43	mg/kg	7.45	NA	NA	NA
Barium	55000	mg/kg	632	NA	NA	NA
Beryllium	--	mg/kg	0.840	NA	NA	NA
Cadmium	390	mg/kg	17.0	NA	NA	NA
Calcium	--	mg/kg	7880	NA	NA	NA
Chromium	3900	mg/kg	19.8 J	NA	NA	NA
Cobalt	47000	mg/kg	6.90	NA	NA	NA
Copper	31000	mg/kg	27.9 J	NA	NA	NA
Iron	230000	mg/kg	19100	NA	NA	NA
Lead	1200	mg/kg	147	NA	NA	NA
Magnesium	--	mg/kg	2280	NA	NA	NA
Manganese	18000	mg/kg	690	NA	NA	NA
Mercury	78	mg/kg	0.0267 B	NA	NA	NA
Nickel	16000	mg/kg	14.4	NA	NA	NA
Potassium	--	mg/kg	1780	NA	NA	NA
Selenium	3900	mg/kg	1.16 U	NA	NA	NA
Silver	3900	mg/kg	0.711 B	NA	NA	NA
Sodium	--	mg/kg	279	NA	NA	NA
Thallium	--	mg/kg	1.16 U	NA	NA	NA
Vanadium	--	mg/kg	29.0	NA	NA	NA
Zinc	230000	mg/kg	1650	NA	NA	NA

Table 12A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report
Summary of Soil Sample Analytical Results

Soil Sample Analytical Results for Property SS-12 (IDHP Location S19) - Composite Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-12-COMP2(0-1) 0 - 1 06/10/05	OU4-SS-12-COMP2(1-6) 1 - 6 06/10/05	OU4-SS-12-COMP2(6-12) 6 - 12 06/10/05	OU4-SS-12-COMP2(12-18) 12 - 18 06/10/05
Metals - XRF (USEPA SW-846 6200)						
Arsenic	43	mg/kg	8.83 U	18.7 J	7.57 U	4.09 U
Barium	55000	mg/kg	536	1650	253	237 U
Cadmium	390	mg/kg	36.8	87.0	34.8 U	34.6
Chromium	3900	mg/kg	100 U	124 U	94.0 U	92.7 U
Cobalt	47000	mg/kg	96.8 U	126 U	92.8 U	85.3 U
Copper	31000	mg/kg	25.9	62.2 J	12.4 U	10.9 U
Iron	230000	mg/kg	17000	25700	15500 U	13300 U
Lead	1200	mg/kg	164	306 J	113 J	18.6 U
Manganese	18000	mg/kg	420	576 J	532 J	360 UJ
Mercury	78	mg/kg	8.26 U	10.8 UJ	8.31 UJ	6.96 UJ
Nickel	16000	mg/kg	20.6 U	27.9	20.5 U	18.8 U
Selenium	3900	mg/kg	2.46 U	2.90 U	2.33 U	2.26 U
Silver	3900	mg/kg	23.8 U	26.7 UJ	24.2 UJ	23.7 UJ
Zinc	230000	mg/kg	1840	4430	1380	161
Metals (USEPA SW-846 6000/7000)						
Aluminum	--	mg/kg	NA	6800	NA	NA
Antimony	--	mg/kg	NA	2.63 J	NA	NA
Arsenic	43	mg/kg	NA	15.1	NA	NA
Barium	55000	mg/kg	NA	2000	NA	NA
Beryllium	--	mg/kg	NA	0.735	NA	NA
Cadmium	390	mg/kg	NA	47.6	NA	NA
Calcium	--	mg/kg	NA	5760	NA	NA
Chromium	3900	mg/kg	NA	14.1 J	NA	NA
Cobalt	47000	mg/kg	NA	5.10 B	NA	NA
Copper	31000	mg/kg	NA	57.9 J	NA	NA
Iron	230000	mg/kg	NA	18100	NA	NA
Lead	1200	mg/kg	NA	297	NA	NA
Magnesium	--	mg/kg	NA	2060	NA	NA
Manganese	18000	mg/kg	NA	576	NA	NA
Mercury	78	mg/kg	NA	0.0763 B	NA	NA
Nickel	16000	mg/kg	NA	14.2	NA	NA
Potassium	--	mg/kg	NA	1020	NA	NA
Selenium	3900	mg/kg	NA	1.05 U	NA	NA
Silver	3900	mg/kg	NA	1.31 B	NA	NA
Sodium	--	mg/kg	NA	163	NA	NA
Thallium	--	mg/kg	NA	1.05 U	NA	NA
Vanadium	--	mg/kg	NA	22.0	NA	NA
Zinc	230000	mg/kg	NA	3370	NA	NA

Table 12A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report
Summary of Soil Sample Analytical Results

Soil Sample Analytical Results for Property SS-12 (IDHP Location S19) - Composite Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-12-COMP3(0-1) 0 - 1 06/10/05	OU4-SS-12-COMP3(1-6) 1 - 6 06/10/05	OU4-SS-12-COMP3(6-12) 6 - 12 06/10/05	OU4-SS-12-COMP3(12-18) 12 - 18 06/10/05
Metals - XRF (USEPA SW-846 6200)						
Arsenic	43	mg/kg	18.1 J	12.8 U	6.09 U	4.36 U [4.20 U]
Barium	55000	mg/kg	561	834	239 U	225 U [214 U]
Cadmium	390	mg/kg	34.9 U	62.6	36.0	33.9 U [33.8 U]
Chromium	3900	mg/kg	99.4 U	117 U	90.1 U	90.7 U [87.2 U]
Cobalt	47000	mg/kg	95.1 U	112 U	81.1 U	73.4 U [73.8 U]
Copper	31000	mg/kg	35.1 J	48.0 J	11.6 U	10.9 U [10.4 U]
Iron	230000	mg/kg	15900 U	19800 U	11400 U	9870 U [9760 U]
Lead	1200	mg/kg	358 J	332 J	65.3 J	20.4 U [19.8 U]
Manganese	18000	mg/kg	492 J	661 J	500 J	393 UJ [368 UJ]
Mercury	78	mg/kg	9.94 UJ	10.7 UJ	7.82 UJ	6.62 U [6.85 U]
Nickel	16000	mg/kg	21.0 U	24.1 U	19.1 U	17.4 U [18.1 U]
Selenium	3900	mg/kg	2.70 U	3.06 U	2.25 U	2.13 U [2.15 U]
Silver	3900	mg/kg	24.3 UJ	27.2 UJ	24.5 UJ	23.6 UJ [23.6 UJ]
Zinc	230000	mg/kg	3020	3420	794	301 [309]
Metals (USEPA SW-846 6000/7000)						
Aluminum	--	mg/kg	NA	6010	NA	NA
Antimony	--	mg/kg	NA	6.70 UJ	NA	NA
Arsenic	43	mg/kg	NA	10.9	NA	NA
Barium	55000	mg/kg	NA	1230	NA	NA
Beryllium	--	mg/kg	NA	0.551	NA	NA
Cadmium	390	mg/kg	NA	42.6	NA	NA
Calcium	--	mg/kg	NA	3020	NA	NA
Chromium	3900	mg/kg	NA	12.2 J	NA	NA
Cobalt	47000	mg/kg	NA	5.01 B	NA	NA
Copper	31000	mg/kg	NA	44.2 J	NA	NA
Iron	230000	mg/kg	NA	17800	NA	NA
Lead	1200	mg/kg	NA	313	NA	NA
Magnesium	--	mg/kg	NA	1600	NA	NA
Manganese	18000	mg/kg	NA	693	NA	NA
Mercury	78	mg/kg	NA	0.0639 B	NA	NA
Nickel	16000	mg/kg	NA	12.6	NA	NA
Potassium	--	mg/kg	NA	799	NA	NA
Selenium	3900	mg/kg	NA	1.12 U	NA	NA
Silver	3900	mg/kg	NA	0.995 B	NA	NA
Sodium	--	mg/kg	NA	142 U	NA	NA
Thallium	--	mg/kg	NA	1.12 U	NA	NA
Vanadium	--	mg/kg	NA	19.5	NA	NA
Zinc	230000	mg/kg	NA	3190	NA	NA

Table 12A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report
Summary of Soil Sample Analytical Results

Soil Sample Analytical Results for Property SS-12 (IDHP Location S19) - Composite Samples

Notes:

NA = Not Analyzed
RAL = Removal Action Levels: from Hazard Evaluation Handbook: A Guide to Removal Actions. October 1997. Fourth Edition. EPA 903/B-97-006.
mg/kg = milligrams per kilogram
XRF = X-Ray Fluorescence
= Values exceed Residential RAL Criteria.
J = The analyte was positively identified; however, the associated numerical value is an estimated concentration only.
U = The analyte was analyzed for but not detected.
B = The reported value was obtained from a reading less than the contract required detection limit (CRDL) but greater than or equal to the instrument detection limit (IDL).
R = The sample results are rejected.
JQ = The analyte was detected above the reported limit but below the method detection limit; therefore, the reported value should not be used for quantitative measurement.
UJ = The analyte was not detected above the reported sample detection limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.
[ ] = Field Duplicate

Table 12B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-12 (IDHP Location S19) - Discrete Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-12-01(0-1) 0 - 1 06/22/05	OU4-SS-12-01(1-6) 1 - 6 06/22/05	OU4-SS-12-02(0-1) 0 - 1 06/22/05	OU4-SS-12-02(1-6) 1 - 6 06/22/05	OU4-SS-12-03(0-1) 0 - 1 06/22/05	OU4-SS-12-03(1-6) 1 - 6 06/22/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	10.8	11.0 U	7.90 U	15.6	7.41 U	12.1 U
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-12-04(0-1) 0 - 1 06/22/05	OU4-SS-12-04(1-6) 1 - 6 06/22/05	OU4-SS-12-05(0-1) 0 - 1 06/22/05	OU4-SS-12-05(1-6) 1 - 6 06/22/05	OU4-SS-12-06(0-1) 0 - 1 06/22/05	OU4-SS-12-06(1-6) 1 - 6 06/23/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	10.1	20.4	14.3 [13.2]	17.1	9.82 U	29.6 J
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	73.7

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-12-07(0-1) 0 - 1 06/22/05	OU4-SS-12-07(1-6) 1 - 6 06/23/05	OU4-SS-12-08(0-1) 0 - 1 06/22/05	OU4-SS-12-08(1-6) 1 - 6 06/23/05	OU4-SS-12-09(0-1) 0 - 1 06/22/05	OU4-SS-12-09(1-6) 1 - 6 06/23/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	9.73	25.8 J	12.4	16.9 J	16.4	24.5 J
Cadmium	390	mg/kg	NA	88.3	NA	61.3	NA	46.7

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-12-10(0-1) 0 - 1 06/22/05	OU4-SS-12-10(1-6) 1 - 6 06/23/05	OU4-SS-12-11(0-1) 0 - 1 06/22/05	OU4-SS-12-11(1-6) 1 - 6 06/22/05	OU4-SS-12-12(0-1) 0 - 1 06/22/05	OU4-SS-12-12(1-6) 1 - 6 06/22/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	7.94 U	25.8 J	14.1	24.3	16.8 U	15.6
Cadmium	390	mg/kg	NA	61.3	NA	NA	NA	NA

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-12-13(0-1) 0 - 1 06/22/05	OU4-SS-12-13(1-6) 1 - 6 06/22/05	OU4-SS-12-14(0-1) 0 - 1 06/22/05	OU4-SS-12-14(1-6) 1 - 6 06/22/05
Metals - XRF (USEPA SW-846 6200)						
Arsenic	43	mg/kg	10.5 U	7.90 U	12.4	9.77 U [10.0 U]
Cadmium	390	mg/kg	NA	NA	NA	NA

Table 12B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-12 (IDHP Location S19) - Discrete Samples

Notes:

NA = Not Analyzed
RAL = Removal Action Levels: from Hazard Evaluation Handbook: A Guide to Removal Actions. October 1997. Fourth Edition. EPA 903/B-97-006.
ıg/kg = milligrams per kilogram
XRF = X-Ray Fluorescence
= Values exceed Residential RAL Criteria.
J = The analyte was positively identified; however, the associated numerical value is an estimated concentration only.
U = The analyte was analyzed for but not detected.
B = The reported value was obtained from a reading less than the contract required detection limit (CRDL) but greater than or equal to the instrument detection limit (IDL).
R = The sample results are rejected.
JQ = The analyte was detected above the reported limit but below the method detection limit; therefore, the reported value should not be used for quantitative measurement.
UJ = The analyte was not detected above the reported sample detection limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.
[ ] = Field Duplicate

Non-responsive

Table 13A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-13 (IDPH Location S02) - Composite Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-13-COMP1(0-1) 0 - 1 06/13/05	OU4-SS-13-COMP1(1-6) 1 - 6 06/13/05	OU4-SS-13-COMP1(6-12) 6 - 12 06/13/05	OU4-SS-13-COMP1(12-18) 12 - 18 06/13/05
Metals - XRF (USEPA SW-846 6200)						
Arsenic	43	mg/kg	11.0 U	15.9 J	26.7 J	12.2 J
Barium	55000	mg/kg	1160	1180	683	659
Cadmium	390	mg/kg	41.3	36.4 U	44.7	35.5 U
Chromium	3900	mg/kg	107 U	110 U	125 U	104 U
Cobalt	47000	mg/kg	105 U	110 U	156 U	108 U
Copper	31000	mg/kg	35.5	28.3	34.9	24.8
Iron	230000	mg/kg	18600 U	19700	36500	20300
Lead	1200	mg/kg	258	192	244	202
Manganese	18000	mg/kg	405 UJ	448 UJ	584 UJ	518 UJ
Mercury	78	mg/kg	9.50 UJ	9.66 UJ	24.4 J	14.1 JQ
Nickel	16000	mg/kg	24.6 JQ	23.5 U	29.8 U	22.4 U
Selenium	3900	mg/kg	2.72 U	2.79 U	3.11 U	2.62 U
Silver	3900	mg/kg	24.8 UJ	25.5 UJ	28.0 UJ	24.7 UJ
Zinc	230000	mg/kg	2460	1780	1200	1070
Metals (USEPA SW-846 6000/7000)						
Aluminum	--	mg/kg	NA	NA	11500	NA
Antimony	--	mg/kg	NA	NA	6.47 UJ	NA
Arsenic	43	mg/kg	NA	NA	14.4	NA
Barium	55000	mg/kg	NA	NA	693	NA
Beryllium	--	mg/kg	NA	NA	1.75	NA
Cadmium	390	mg/kg	NA	NA	6.86	NA
Calcium	--	mg/kg	NA	NA	14500	NA
Chromium	3900	mg/kg	NA	NA	20.4 J	NA
Cobalt	47000	mg/kg	NA	NA	8.10	NA
Copper	31000	mg/kg	NA	NA	30.2 J	NA
Iron	230000	mg/kg	NA	NA	27600	NA
Lead	1200	mg/kg	NA	NA	181	NA
Magnesium	--	mg/kg	NA	NA	7190	NA
Manganese	18000	mg/kg	NA	NA	632	NA
Mercury	78	mg/kg	NA	NA	0.173	NA
Nickel	16000	mg/kg	NA	NA	23.1	NA
Potassium	--	mg/kg	NA	NA	1980	NA
Selenium	3900	mg/kg	NA	NA	1.08 U	NA
Silver	3900	mg/kg	NA	NA	0.572 B	NA
Sodium	--	mg/kg	NA	NA	296	NA
Thallium	--	mg/kg	NA	NA	1.08 U	NA
Vanadium	--	mg/kg	NA	NA	30.7	NA
Zinc	230000	mg/kg	NA	NA	821	NA

Table 13A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-13 (IDPH Location S02) - Composite Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-13-COMP2(0-1) 0 - 1 06/13/05	OU4-SS-13-COMP2(1-6) 1 - 6 06/13/05	OU4-SS-13-COMP2(6-12) 6 - 12 06/13/05	OU4-SS-13-COMP2(12-18) 12 - 18 06/13/05
Metals - XRF (USEPA SW-846 6200)						
Arsenic	43	mg/kg	10.9 J	12.1 J	12.8 J	16.1 J
Barium	55000	mg/kg	605	885	645	948
Cadmium	390	mg/kg	47.4	35.6 U	39.9 U	35.1 U
Chromium	3900	mg/kg	101 U	103 U	117 U	104 U
Cobalt	47000	mg/kg	99.5 U	105 U	120 U	154
Copper	31000	mg/kg	26.5	27.9	26.8	33.6
Iron	230000	mg/kg	17100 U	18800	22800	22100
Lead	1200	mg/kg	171	147	139	208
Manganese	18000	mg/kg	371 UJ	404 UJ	409 UJ	489 UJ
Mercury	78	mg/kg	8.64 UJ	9.31 UJ	19.1 JQ	10.1 JQ
Nickel	16000	mg/kg	22.3 U	22.1 U	25.2 U	23.4 U
Selenium	3900	mg/kg	2.53 U	2.62 U	3.05 U	2.73 U
Silver	3900	mg/kg	24.8 UJ	24.9 UJ	27.8 UJ	24.6 UJ
Zinc	230000	mg/kg	1330	1410	592	1290
Metals (USEPA SW-846 6000/7000)						
Aluminum	--	mg/kg	NA	NA	10300	NA
Antimony	--	mg/kg	NA	NA	6.86 UJ	NA
Arsenic	43	mg/kg	NA	NA	8.62	NA
Barium	55000	mg/kg	NA	NA	519	NA
Beryllium	--	mg/kg	NA	NA	0.953	NA
Cadmium	390	mg/kg	NA	NA	3.69	NA
Calcium	--	mg/kg	NA	NA	15300	NA
Chromium	3900	mg/kg	NA	NA	17.5 J	NA
Cobalt	47000	mg/kg	NA	NA	7.42	NA
Copper	31000	mg/kg	NA	NA	25.9 J	NA
Iron	230000	mg/kg	NA	NA	19000	NA
Lead	1200	mg/kg	NA	NA	115	NA
Magnesium	--	mg/kg	NA	NA	8830	NA
Manganese	18000	mg/kg	NA	NA	487	NA
Mercury	78	mg/kg	NA	NA	0.159	NA
Nickel	16000	mg/kg	NA	NA	18.1	NA
Potassium	--	mg/kg	NA	NA	1900	NA
Selenium	3900	mg/kg	NA	NA	1.14 U	NA
Silver	3900	mg/kg	NA	NA	0.430 B	NA
Sodium	--	mg/kg	NA	NA	155 U	NA
Thallium	--	mg/kg	NA	NA	1.14 U	NA
Vanadium	--	mg/kg	NA	NA	25.8	NA
Zinc	230000	mg/kg	NA	NA	446	NA

Table 13A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-13 (IDPH Location S02) - Composite Samples

Sample ID: Sample Depth(inches): Date Collected:	Residential RAL	Units	OU4-SS-13-COMP3(0-1) 0 - 1 06/13/05	OU4-SS-13-COMP3(1-6) 1 - 6 06/13/05	OU4-SS-13-COMP3(6-12) 6 - 12 06/13/05	OU4-SS-13-COMP3(12-18) 12 - 18 06/13/05
Metals - XRF (USEPA SW-846 6200)						
Arsenic	43	mg/kg	20.8 J	13.7 J	10.4 J	10.0 J [10.6 J]
Barium	55000	mg/kg	707	579	326	289 [433]
Cadmium	390	mg/kg	39.5 U	45.6	34.8 U	53.6 [36.0 U]
Chromium	3900	mg/kg	117 U	112 U	98.1 U	101 U [105 U]
Cobalt	47000	mg/kg	119 U	123 U	141 J	106 U [106 U]
Copper	31000	mg/kg	39.8	21.3	17.2	12.8 U [15.8]
Iron	230000	mg/kg	22200 U	26400	21100	18300 U [18500 U]
Lead	1200	mg/kg	360	214	155	133 [129]
Manganese	18000	mg/kg	601 UJ	419 UJ	411 UJ	454 UJ [461 UJ]
Mercury	78	mg/kg	10.7 UJ	8.81 UJ	9.75 JQ	10.6 JQ [8.28 U]
Nickel	16000	mg/kg	26.0 U	24.4 U	22.2 U	22.2 U [22.5 U]
Selenium	3900	mg/kg	3.19 U	2.66 U	2.41 U	2.62 U [2.53 U]
Silver	3900	mg/kg	27.6 UJ	25.0 UJ	24.2 UJ	25.1 UJ [25.2 UJ]
Zinc	230000	mg/kg	2400	1650	771	498 [496]
Metals (USEPA SW-846 6000/7000)						
Aluminum	--	mg/kg	7100	NA	NA	NA
Antimony	--	mg/kg	23.4 J	NA	NA	NA
Arsenic	43	mg/kg	7.78	NA	NA	NA
Barium	55000	mg/kg	1340	NA	NA	NA
Beryllium	--	mg/kg	0.774	NA	NA	NA
Cadmium	390	mg/kg	24.9	NA	NA	NA
Calcium	--	mg/kg	21100	NA	NA	NA
Chromium	3900	mg/kg	14.7 J	NA	NA	NA
Cobalt	47000	mg/kg	5.52 B	NA	NA	NA
Copper	31000	mg/kg	46.1 J	NA	NA	NA
Iron	230000	mg/kg	16100	NA	NA	NA
Lead	1200	mg/kg	1890	NA	NA	NA
Magnesium	--	mg/kg	10900	NA	NA	NA
Manganese	18000	mg/kg	486	NA	NA	NA
Mercury	78	mg/kg	0.121	NA	NA	NA
Nickel	16000	mg/kg	15.2	NA	NA	NA
Potassium	--	mg/kg	1270	NA	NA	NA
Selenium	3900	mg/kg	1.18 U	NA	NA	NA
Silver	3900	mg/kg	0.967 B	NA	NA	NA
Sodium	--	mg/kg	288	NA	NA	NA
Thallium	--	mg/kg	1.18 U	NA	NA	NA
Vanadium	--	mg/kg	20.1	NA	NA	NA
Zinc	230000	mg/kg	1830	NA	NA	NA

Table 13A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-13 (IDPH Location S02) - Composite Samples

Notes:

NA = Not Analyzed
RAL = Removal Action Levels: from Hazard Evaluation Handbook: A Guide to Removal Actions. October 1997. Fourth Edition. EPA 903/B-97-006.
mg/kg = milligrams per kilogram
XRF = X-Ray Fluorescence
= Values exceed Residential RAL Criteria.
J = The analyte was positively identified; however, the associated numerical value is an estimated concentration only.
U = The analyte was analyzed for but not detected.
B = The reported value was obtained from a reading less than the contract required detection limit (CRDL) but greater than or equal to the instrument detection limit (IDL).
R = The sample results are rejected.
JQ = The analyte was detected above the reported limit but below the method detection limit; therefore, the reported value should not be used for quantitative measurement.
UJ = The analyte was not detected above the reported sample detection limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.
[ ] = Field Duplicate

Table 13B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-13 (IDHP Location S02) - Discrete Samples

Sample ID: Sample Depth(inches): Date Collected:	Residential RAL	Units	OU4-SS-13-01(0-1) 0 - 1 06/22/05	OU4-SS-13-01(1-6) 1 - 6 06/22/05	OU4-SS-13-01(6-12) 6 - 12 06/24/05	OU4-SS-13-01(12-18) 12 - 18 06/22/05	OU4-SS-13-02(0-1) 0 - 1 06/22/05	OU4-SS-13-02(1-6) 1 - 6 06/22/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	13.4	27.3	29.2 J	4.66 U	12.4 U	7.75
Mercury	78	mg/kg	NA	NA	17.7 JQ	NA	NA	NA
Metals (USEPA SW-846 6000/7000)								
Aluminum	--	mg/kg	NA	NA	NA	NA	NA	NA
Antimony	--	mg/kg	NA	NA	NA	NA	NA	NA
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA
Barium	55000	mg/kg	NA	NA	NA	NA	NA	NA
Beryllium	--	mg/kg	NA	NA	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Calcium	--	mg/kg	NA	NA	NA	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA	NA	NA
Magnesium	--	mg/kg	NA	NA	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA	NA	NA
Potassium	--	mg/kg	NA	NA	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA	NA	NA
Sodium	--	mg/kg	NA	NA	NA	NA	NA	NA
Thallium	--	mg/kg	NA	NA	NA	NA	NA	NA
Vanadium	--	mg/kg	NA	NA	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA	NA	NA

Table 13B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-13 (IDHP Location S02) - Discrete Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-13-02(6-12) 6 - 12 06/24/05	OU4-SS-13-02(12-18) 12 - 18 06/22/05	OU4-SS-13-03(0-1) 0 - 1 06/22/05	OU4-SS-13-03(1-6) 1 - 6 06/22/05	OU4-SS-13-03(6-12) 6 - 12 06/24/05	OU4-SS-13-03(12-18) 12 - 18 06/22/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	12.4 J	16.1	12.2 U	7.65	67.5 J	12.1
Mercury	78	mg/kg	7.78 UJ	NA	NA	NA	92.7 J	NA
Metals (USEPA SW-846 6000/7000)								
Aluminum	--	mg/kg	NA	NA	NA	NA	12800	NA
Antimony	--	mg/kg	NA	NA	NA	NA	1.15 J	NA
Arsenic	43	mg/kg	NA	NA	NA	NA	37.7	NA
Barium	55000	mg/kg	NA	NA	NA	NA	2000	NA
Beryllium	--	mg/kg	NA	NA	NA	NA	4.78	NA
Cadmium	390	mg/kg	NA	NA	NA	NA	18.6	NA
Calcium	--	mg/kg	NA	NA	NA	NA	14500	NA
Chromium	3900	mg/kg	NA	NA	NA	NA	20.3	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA	11.3 J	NA
Copper	31000	mg/kg	NA	NA	NA	NA	55.1 J	NA
Iron	230000	mg/kg	NA	NA	NA	NA	43800	NA
Lead	1200	mg/kg	NA	NA	NA	NA	451	NA
Magnesium	--	mg/kg	NA	NA	NA	NA	2820	NA
Manganese	18000	mg/kg	NA	NA	NA	NA	725	NA
Mercury	78	mg/kg	NA	NA	NA	NA	0.383	NA
Nickel	16000	mg/kg	NA	NA	NA	NA	34.8 J	NA
Potassium	--	mg/kg	NA	NA	NA	NA	2080	NA
Selenium	3900	mg/kg	NA	NA	NA	NA	1.13 U	NA
Silver	3900	mg/kg	NA	NA	NA	NA	0.579 J	NA
Sodium	--	mg/kg	NA	NA	NA	NA	1080	NA
Thallium	--	mg/kg	NA	NA	NA	NA	1.13 U	NA
Vanadium	--	mg/kg	NA	NA	NA	NA	36.0	NA
Zinc	230000	mg/kg	NA	NA	NA	NA	2300	NA

Table 13B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-13 (IDHP Location S02) - Discrete Samples

Sample ID: Sample Depth (inches): Date Collected:	Residential RAL	Units	OU4-SS-13-04(0-1) 0 - 1 06/22/05	OU4-SS-13-04(1-6) 1 - 6 06/22/05	OU4-SS-13-04(6-12) 6 - 12 06/24/05	OU4-SS-13-04(12-18) 12 - 18 06/22/05	OU4-SS-13-05(0-1) 0 - 1 06/22/05	OU4-SS-13-05(1-6) 1 - 6 06/22/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	9.45 U	8.81 U	6.87 U	16.8	11.7 U	15.7
Mercury	78	mg/kg	NA	NA	7.88 UJ	NA	NA	NA
Metals (USEPA SW-846 6000/7000)								
Aluminum	--	mg/kg	NA	NA	NA	NA	NA	NA
Antimony	--	mg/kg	NA	NA	NA	NA	NA	NA
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA
Barium	55000	mg/kg	NA	NA	NA	NA	NA	NA
Beryllium	--	mg/kg	NA	NA	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Calcium	--	mg/kg	NA	NA	NA	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA	NA	NA
Magnesium	--	mg/kg	NA	NA	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA	NA	NA
Potassium	--	mg/kg	NA	NA	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA	NA	NA
Sodium	--	mg/kg	NA	NA	NA	NA	NA	NA
Thallium	--	mg/kg	NA	NA	NA	NA	NA	NA
Vanadium	--	mg/kg	NA	NA	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA	NA	NA

Table 13B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-13 (IDHP Location S02) - Discrete Samples

Sample ID: Sample Depth(inches): Date Collected:	Residential RAL	Units	OU4-SS-13-05(6-12) 6 - 12 06/24/05	OU4-SS-13-05(12-18) 12 - 18 06/22/05	OU4-SS-13-06(0-1) 0 - 1 06/22/05	OU4-SS-13-06(1-6) 1 - 6 06/22/05	OU4-SS-13-06(6-12) 6 - 12 06/24/05	OU4-SS-13-06(12-18) 12 - 18 06/22/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	12.1 J	11.7	10.3 U	11.5 U	12.8 J	24.2
Mercury	78	mg/kg	7.98 UJ	NA	NA	NA	19.9 JQ	NA
Metals (USEPA SW-846 6000/7000)								
Aluminum	--	mg/kg	NA	NA	NA	NA	NA	NA
Antimony	--	mg/kg	NA	NA	NA	NA	NA	NA
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA
Barium	55000	mg/kg	NA	NA	NA	NA	NA	NA
Beryllium	--	mg/kg	NA	NA	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Calcium	--	mg/kg	NA	NA	NA	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA	NA	NA
Magnesium	--	mg/kg	NA	NA	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA	NA	NA
Potassium	--	mg/kg	NA	NA	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA	NA	NA
Sodium	--	mg/kg	NA	NA	NA	NA	NA	NA
Thallium	--	mg/kg	NA	NA	NA	NA	NA	NA
Vanadium	--	mg/kg	NA	NA	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA	NA	NA

Table 13B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-13 (IDHP Location S02) - Discrete Samples

Sample ID: Sample Depth(inches): Date Collected:	Residential RAL	Units	OU4-SS-13-07(0-1) 0 - 1 06/22/05	OU4-SS-13-07(1-6) 1 - 6 06/22/05	OU4-SS-13-07(6-12) 6 - 12 06/24/05	OU4-SS-13-07(12-18) 12 - 18 06/22/05	OU4-SS-13-08(0-1) 0 - 1 06/22/05	OU4-SS-13-08(1-6) 1 - 6 06/22/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	8.95 U	27.1	11.0 J	8.80 U	10.6	7.68 U
Mercury	78	mg/kg	NA	NA	8.08 U	NA	NA	NA
Metals (USEPA SW-846 6000/7000)								
Aluminum	--	mg/kg	NA	NA	NA	NA	NA	NA
Antimony	--	mg/kg	NA	NA	NA	NA	NA	NA
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA
Barium	55000	mg/kg	NA	NA	NA	NA	NA	NA
Beryllium	--	mg/kg	NA	NA	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Calcium	--	mg/kg	NA	NA	NA	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA	NA	NA
Magnesium	--	mg/kg	NA	NA	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA	NA	NA
Potassium	--	mg/kg	NA	NA	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA	NA	NA
Sodium	--	mg/kg	NA	NA	NA	NA	NA	NA
Thallium	--	mg/kg	NA	NA	NA	NA	NA	NA
Vanadium	--	mg/kg	NA	NA	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA	NA	NA

Table 13B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-13 (IDHP Location S02) - Discrete Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-13-08(6-12) 6 - 12 06/24/05	OU4-SS-13-08(12-18) 12 - 18 06/22/05	OU4-SS-13-09(0-1) 0 - 1 06/22/05	OU4-SS-13-09(1-6) 1 - 6 06/22/05	OU4-SS-13-09(6-12) 6 - 12 06/24/05	OU4-SS-13-09(12-18) 12 - 18 06/22/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	12.9	22.7	12.3	10.6	7.09 U	9.54 U
Mercury	78	mg/kg	10.2 JQ	NA	NA	NA	7.83 UJ	NA
Metals (USEPA SW-846 6000/7000)								
Aluminum	--	mg/kg	NA	NA	NA	NA	NA	NA
Antimony	--	mg/kg	NA	NA	NA	NA	NA	NA
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA
Barium	55000	mg/kg	NA	NA	NA	NA	NA	NA
Beryllium	--	mg/kg	NA	NA	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Calcium	--	mg/kg	NA	NA	NA	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA	NA	NA
Magnesium	--	mg/kg	NA	NA	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA	NA	NA
Potassium	--	mg/kg	NA	NA	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA	NA	NA
Sodium	--	mg/kg	NA	NA	NA	NA	NA	NA
Thallium	--	mg/kg	NA	NA	NA	NA	NA	NA
Vanadium	--	mg/kg	NA	NA	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA	NA	NA

Table 13B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-13 (IDHP Location S02) - Discrete Samples

Sample ID: Sample Depth(inches): Date Collected:	Residential RAL	Units	OU4-SS-13-10(0-1) 0 - 1 06/22/05	OU4-SS-13-10(1-6) 1 - 6 06/22/05	OU4-SS-13-10(6-12) 6 - 12 06/24/05	OU4-SS-13-10(12-18) 12 - 18 06/22/05	OU4-SS-13-11(0-1) 0 - 1 06/22/05	OU4-SS-13-11(1-6) 1 - 6 06/22/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	17.5	7.78 U [7.82 U]	11.6 J	8.47	15.0	5.56 U
Mercury	78	mg/kg	NA	NA	7.76 UJ	NA	NA	NA
Metals (USEPA SW-846 6000/7000)								
Aluminum	--	mg/kg	NA	NA	NA	NA	NA	NA
Antimony	--	mg/kg	NA	NA	NA	NA	NA	NA
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA
Barium	55000	mg/kg	NA	NA	NA	NA	NA	NA
Beryllium	--	mg/kg	NA	NA	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Calcium	--	mg/kg	NA	NA	NA	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA	NA	NA
Magnesium	--	mg/kg	NA	NA	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA	NA	NA
Potassium	--	mg/kg	NA	NA	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA	NA	NA
Sodium	--	mg/kg	NA	NA	NA	NA	NA	NA
Thallium	--	mg/kg	NA	NA	NA	NA	NA	NA
Vanadium	--	mg/kg	NA	NA	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA	NA	NA

Table 13B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-13 (IDHP Location S02) - Discrete Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-13-12(0-1) 0 - 1 06/22/05	OU4-SS-13-12(1-6) 1 - 6 06/22/05	OU4-SS-13-13(0-1) 0 - 1 06/22/05	OU4-SS-13-13(1-6) 1 - 6 06/22/05	OU4-SS-13-14(0-1) 0 - 1 06/22/05	OU4-SS-13-14(1-6) 1 - 6 06/22/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	18.1	22.4	11.5 U	13.6	9.46	13.2 [9.49 U]
Mercury	78	mg/kg	NA	NA	NA	NA	NA	NA
Metals (USEPA SW-846 6000/7000)								
Aluminum	--	mg/kg	NA	NA	NA	NA	NA	NA
Antimony	--	mg/kg	NA	NA	NA	NA	NA	NA
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA
Barium	55000	mg/kg	NA	NA	NA	NA	NA	NA
Beryllium	--	mg/kg	NA	NA	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Calcium	--	mg/kg	NA	NA	NA	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA	NA	NA
Magnesium	--	mg/kg	NA	NA	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA	NA	NA
Potassium	--	mg/kg	NA	NA	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA	NA	NA
Sodium	--	mg/kg	NA	NA	NA	NA	NA	NA
Thallium	--	mg/kg	NA	NA	NA	NA	NA	NA
Vanadium	--	mg/kg	NA	NA	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA	NA	NA

Table 13B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-13 (IDHP Location S02) - Discrete Samples

Notes:

NA = Not Analyzed
RAL = Removal Action Levels: from Hazard Evaluation Handbook: A Guide to Removal Actions. October 1997. Fourth Edition. EPA 903/B-97-006.
mg/kg = milligrams per kilogram
XRF = X-Ray Fluorescence
= Values exceed Residential RAL Criteria.
J = The analyte was positively identified; however, the associated numerical value is an estimated concentration only.
U = The analyte was analyzed for but not detected.
B = The reported value was obtained from a reading less than the contract required detection limit (CRDL) but greater than or equal to the instrument detection limit (IDL).
R = The sample results are rejected.
JQ = The analyte was detected above the reported limit but below the method detection limit; therefore, the reported value should not be used for quantitative measurement.
UJ = The analyte was not detected above the reported sample detection limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.
[ ] = Field Duplicate

Non-responsive

Table 14A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-14 (IDPH Location W14) - Composite Samples

Sample ID: Sample Depth(inches): Date Collected:	Residential RAL	Units	OU4-SS-14-COMP1(0-1) 0 - 1 06/13/05	OU4-SS-14-COMP1(1-6) 1 - 6 06/13/05	OU4-SS-14-COMP1(6-12) 6 - 12 06/13/05	OU4-SS-14-COMP1(12-18) 12 - 18 06/13/05
Metals - XRF (USEPA SW-846 6200)						
Arsenic	43	mg/kg	11.5 U	18.4 J	11.4 J	7.76 J
Barium	55000	mg/kg	1470 J	2130 J	962 J	249 J
Cadmium	390	mg/kg	54.5	62.0	37.7	35.3 U
Chromium	3900	mg/kg	108 U	115 U	110 U	95.2 U
Cobalt	47000	mg/kg	102 U	108 U	102 U	88.5 U
Copper	31000	mg/kg	42.5 J	29.2 J	25.7 J	12.1 U
Iron	230000	mg/kg	16800 U	18900 U	16800 U	13400 U
Lead	1200	mg/kg	279	270	163	39.3
Manganese	18000	mg/kg	555 J	658 J	445 UJ	416 UJ
Mercury	78	mg/kg	9.74 UJ	10.1 UJ	9.20 UJ	7.78 UJ
Nickel	16000	mg/kg	22.8 U	24.0 U	23.1 U	20.2 U
Selenium	3900	mg/kg	2.70 U	2.95 U	2.60 U	2.44 U
Silver	3900	mg/kg	25.0 UJ	25.7 UJ	25.5 UJ	24.7 UJ
Zinc	230000	mg/kg	2890 J	2890 J	1560 J	353 J
Metals (USEPA SW-846 6000/7000)						
Aluminum	--	mg/kg	NA	NA	NA	NA
Antimony	--	mg/kg	NA	NA	NA	NA
Arsenic	43	mg/kg	NA	NA	NA	NA
Barium	55000	mg/kg	NA	NA	NA	NA
Beryllium	--	mg/kg	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	NA
Calcium	--	mg/kg	NA	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA
Magnesium	--	mg/kg	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA
Potassium	--	mg/kg	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA
Sodium	--	mg/kg	NA	NA	NA	NA
Thallium	--	mg/kg	NA	NA	NA	NA
Vanadium	--	mg/kg	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA

Table 14A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-14 (IDPH Location W14) - Composite Samples

Sample ID: Sample Depth(inches): Date Collected:	Residential RAL	Units	OU4-SS-14-COMP2(0-1) 0 - 1 06/13/05	OU4-SS-14-COMP2(1-6) 1 - 6 06/13/05	OU4-SS-14-COMP2(6-12) 6 - 12 06/13/05	OU4-SS-14-COMP2(12-18) 12 - 18 06/13/05
Metals - XRF (USEPA SW-846 6200)						
Arsenic	43	mg/kg	17.9 J	11.6 U	13.5 J	12.4 J [8.71 J]
Barium	55000	mg/kg	1360 J	1440 J	1130 J	333 J [510 J]
Cadmium	390	mg/kg	86.3	64.9	42.4	35.1 U [35.4]
Chromium	3900	mg/kg	111 U	112 U	106 U	101 U [99.4 U]
Cobalt	47000	mg/kg	108 U	104 U	100 U	89.7 U [90.0 U]
Copper	31000	mg/kg	41.0 J	39.4 J	22.6 J	12.3 U [13.2]
Iron	230000	mg/kg	18600 U	17900 U	16600 U	13800 U [13600 U]
Lead	1200	mg/kg	267	279	207	88.2 [94.4]
Manganese	18000	mg/kg	646 J	602 J	610 J	410 UJ [432 UJ]
Mercury	78	mg/kg	10.4 UJ	9.24 UJ	9.80 UJ	7.63 U [8.12 U]
Nickel	16000	mg/kg	23.6 U	23.1 U	22.1 U	20.4 U [20.3 U]
Selenium	3900	mg/kg	2.92 U	2.85 U	2.65 U	2.46 U [2.43 U]
Silver	3900	mg/kg	26.3 UJ	25.2 UJ	25.1 UJ	24.7 UJ [24.7 UJ]
Zinc	230000	mg/kg	2580 J	2650 J	2080 J	911 J [907 J]
Metals (USEPA SW-846 6000/7000)						
Aluminum	--	mg/kg	8860	NA	NA	NA
Antimony	--	mg/kg	6.40 U	NA	NA	NA
Arsenic	43	mg/kg	16.9	NA	NA	NA
Barium	55000	mg/kg	2740	NA	NA	NA
Beryllium	--	mg/kg	0.719	NA	NA	NA
Cadmium	390	mg/kg	28.6	NA	NA	NA
Calcium	--	mg/kg	15600	NA	NA	NA
Chromium	3900	mg/kg	17.2	NA	NA	NA
Cobalt	47000	mg/kg	7.97	NA	NA	NA
Copper	31000	mg/kg	40.7	NA	NA	NA
Iron	230000	mg/kg	35200	NA	NA	NA
Lead	1200	mg/kg	357	NA	NA	NA
Magnesium	--	mg/kg	8350	NA	NA	NA
Manganese	18000	mg/kg	704	NA	NA	NA
Mercury	78	mg/kg	0.0638 B	NA	NA	NA
Nickel	16000	mg/kg	14.5	NA	NA	NA
Potassium	--	mg/kg	2040	NA	NA	NA
Selenium	3900	mg/kg	1.07 U	NA	NA	NA
Silver	3900	mg/kg	0.649 J	NA	NA	NA
Sodium	--	mg/kg	121 J	NA	NA	NA
Thallium	--	mg/kg	1.34	NA	NA	NA
Vanadium	--	mg/kg	24.9	NA	NA	NA
Zinc	230000	mg/kg	2100 J	NA	NA	NA

Table 14A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-14 (IDPH Location W14) - Composite Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL:	Units	OU4-SS-14-COMP3(0-1) 0 - 1 06/14/05	OU4-SS-14-COMP3(1-6) 1 - 6 06/14/05	OU4-SS-14-COMP3(6-12) 6 - 12 06/14/05	OU4-SS-14-COMP3(12-18) 12 - 18 06/14/05
Metals - XRF (USEPA SW-846 6200)						
Arsenic	43	mg/kg	36.8 J	31.1 J	16.3 J	12.3 J
Barium	55000	mg/kg	1820 J	2240 J	655 J	257 J
Cadmium	390	mg/kg	76.5	38.1 U	36.3 U	35.4 U
Chromium	3900	mg/kg	136 U	129 U	105 U	99.3 U
Cobalt	47000	mg/kg	152 U	144 U	115 U	101 U
Copper	31000	mg/kg	54.5 J	56.6 J	33.6 J	12.8 JQ
Iron	230000	mg/kg	32800	31600	21100 U	17200 U
Lead	1200	mg/kg	574	398	226	86.0
Manganese	18000	mg/kg	570	546	464 U	396 U
Mercury	78	mg/kg	17.0 JQ	15.0 JQ	9.65 UJ	10.4 JQ
Nickel	16000	mg/kg	29.8 U	28.6 U	23.7 U	21.2 U
Selenium	3900	mg/kg	3.64 U	3.03 U	2.74 U	2.50 U
Silver	3900	mg/kg	29.1 UJ	27.0 UJ	25.6 UJ	24.6 UJ
Zinc	230000	mg/kg	4100	3440	1310	493
Metals (USEPA SW-846 6000/7000)						
Aluminum	--	mg/kg	9070	NA	NA	NA
Antimony	--	mg/kg	6.81 U	NA	NA	NA
Arsenic	43	mg/kg	15.2	NA	NA	NA
Barium	55000	mg/kg	3840	NA	NA	NA
Beryllium	--	mg/kg	1.14	NA	NA	NA
Cadmium	390	mg/kg	44.7	NA	NA	NA
Calcium	--	mg/kg	16700	NA	NA	NA
Chromium	3900	mg/kg	16.6	NA	NA	NA
Cobalt	47000	mg/kg	7.41	NA	NA	NA
Copper	31000	mg/kg	59.8	NA	NA	NA
Iron	230000	mg/kg	23000	NA	NA	NA
Lead	1200	mg/kg	434	NA	NA	NA
Magnesium	--	mg/kg	7810	NA	NA	NA
Manganese	18000	mg/kg	558	NA	NA	NA
Mercury	78	mg/kg	0.171	NA	NA	NA
Nickel	16000	mg/kg	16.1	NA	NA	NA
Potassium	--	mg/kg	1830	NA	NA	NA
Selenium	3900	mg/kg	1.54	NA	NA	NA
Silver	3900	mg/kg	1.30 B	NA	NA	NA
Sodium	--	mg/kg	154 J	NA	NA	NA
Thallium	--	mg/kg	1.17	NA	NA	NA
Vanadium	--	mg/kg	24.8	NA	NA	NA
Zinc	230000	mg/kg	3110 J	NA	NA	NA

Table 14A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-14 (IDPH Location W14) - Composite Samples

Sample ID: / Sample Depth(inches): / Date Collected:	Residential RAL	Units	OU4-SS-14-COMP4(0-1) 0 - 1 06/14/05	OU4-SS-14-COMP4(1-6) 1 - 6 06/14/05	OU4-SS-14-COMP4(6-12) 6 - 12 06/14/05	OU4-SS-14-COMP4(12-18) 12 - 18 06/14/05
Metals - XRF (USEPA SW-846 6200)						
Arsenic	43	mg/kg	36.9 U	29.0 J	17.5 J	6.32 J
Barium	55000	mg/kg	2760 J	1640 J	380 J	246 UJ
Cadmium	390	mg/kg	76.4	68.9	36.5 U	34.5 U
Chromium	3900	mg/kg	143 U	117 U	110 U	92.0 U
Cobalt	47000	mg/kg	129 U	112 U	112 U	93.1 U
Copper	31000	mg/kg	61.2 J	41.4 J	23.5 J	11.8 U
Iron	230000	mg/kg	22300 U	20200 U	20200 U	15800 U
Lead	1200	mg/kg	2620	1080	307	62.0
Manganese	18000	mg/kg	702	472 U	561	349 U
Mercury	78	mg/kg	13.7 UJ	11.7 UJ	9.32 UJ	7.89 UJ
Nickel	16000	mg/kg	28.7 U	23.6 U	24.0 U	20.3 U
Selenium	3900	mg/kg	5.19 U	3.50 U	2.82 U	2.32 U
Silver	3900	mg/kg	30.6 UJ	25.2 UJ	25.6 UJ	24.1 UJ
Zinc	230000	mg/kg	5140	4420	1720	461
Metals (USEPA SW-846 6000/7000)						
Aluminum	--	mg/kg	8580	NA	NA	NA
Antimony	--	mg/kg	7.19 U	NA	NA	NA
Arsenic	43	mg/kg	12.7	NA	NA	NA
Barium	55000	mg/kg	5620	NA	NA	NA
Beryllium	--	mg/kg	0.708	NA	NA	NA
Cadmium	390	mg/kg	39.3	NA	NA	NA
Calcium	--	mg/kg	24900	NA	NA	NA
Chromium	3900	mg/kg	16.9	NA	NA	NA
Cobalt	47000	mg/kg	7.81	NA	NA	NA
Copper	31000	mg/kg	63.5	NA	NA	NA
Iron	230000	mg/kg	19000	NA	NA	NA
Lead	1200	mg/kg	1670	NA	NA	NA
Magnesium	--	mg/kg	13000	NA	NA	NA
Manganese	18000	mg/kg	563	NA	NA	NA
Mercury	78	mg/kg	0.150	NA	NA	NA
Nickel	16000	mg/kg	15.5	NA	NA	NA
Potassium	--	mg/kg	1680	NA	NA	NA
Selenium	3900	mg/kg	1.20 U	NA	NA	NA
Silver	3900	mg/kg	1.39 B	NA	NA	NA
Sodium	--	mg/kg	151 J	NA	NA	NA
Thallium	--	mg/kg	1.20 U	NA	NA	NA
Vanadium	--	mg/kg	24.9	NA	NA	NA
Zinc	230000	mg/kg	3720 J	NA	NA	NA

Table 14A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-14 (IDPH Location W14) - Composite Samples

Notes:
NA = Not Analyzed
RAL = Removal Action Levels: from Hazard Evaluation Handbook: A Guide to Removal Actions. October 1997. Fourth Edition. EPA 903/B-97-006.
g/kg = milligrams per kilogram
XRF = X-Ray Fluorescence
= Values exceed Residential RAL Criteria.
J = The analyte was positively identified; however, the associated numerical value is an estimated concentration only.
U = The analyte was analyzed for but not detected.
B = The reported value was obtained from a reading less than the contract required detection limit (CRDL) but greater than or equal to the instrument detection limit (IDL).
R = The sample results are rejected.
JQ = The analyte was detected above the reported limit but below the method detection limit; therefore, the reported value should not be used for quantitative measurement.
UJ = The analyte was not detected above the reported sample detection limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.
[ ] = Field Duplicate

Table 14B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-14 (IDPH Location W14) - Discrete Samples

Sample ID: Sample Depth(inches): Date Collected:	Residential RAL	Units	OU4-SS-14-01(0-1) 0 - 1 06/23/05	OU4-SS-14-01(1-6) 1 - 6 06/23/05	OU4-SS-14-01(6-12) 6 - 12 06/23/05	OU4-SS-14-02(0-1) 0 - 1 06/23/05	OU4-SS-14-02(1-6) 1 - 6 06/23/05	OU4-SS-14-02(6-12) 6 - 12 06/23/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	11.9 J	20.3	17.9 J	15.8 J	9.25 J	9.36 U
Barium	55000	mg/kg	NA	NA	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA	NA	NA
etals (USEPA SW-846 6000/7000)								
Aluminum	--	mg/kg	NA	NA	NA	NA	NA	NA
Antimony	--	mg/kg	NA	NA	NA	NA	NA	NA
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA
Barium	55000	mg/kg	NA	NA	NA	NA	NA	NA
Beryllium	--	mg/kg	NA	NA	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Calcium	--	mg/kg	NA	NA	NA	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA	NA	NA
Magnesium	--	mg/kg	NA	NA	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA	NA	NA
Potassium	--	mg/kg	NA	NA	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA	NA	NA
Sodium	--	mg/kg	NA	NA	NA	NA	NA	NA
Thallium	--	mg/kg	NA	NA	NA	NA	NA	NA
Vanadium	--	mg/kg	NA	NA	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA	NA	NA

Table 14B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-14 (IDPH Location W14) - Discrete Samples

Sample ID: Sample Depth(inches): Date Collected:	Residential RAL	Units	OU4-SS-14-03(0-1) 0 - 1 06/23/05	OU4-SS-14-03(1-6) 1 - 6 06/23/05	OU4-SS-14-03(6-12) 6 - 12 06/23/05	OU4-SS-14-04(0-1) 0 - 1 06/23/05	OU4-SS-14-04(1-6) 1 - 6 06/23/05	OU4-SS-14-04(6-12) 6 - 12 06/23/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	17.8 J	22.8 J	12.2 J	14.2 J	15.9 J	15.9 J
Barium	55000	mg/kg	NA	NA	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA	NA	NA
Metals (USEPA SW-846 6000/7000)								
Aluminum	--	mg/kg	NA	NA	NA	NA	NA	NA
Antimony	--	mg/kg	NA	NA	NA	NA	NA	NA
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA
Barium	55000	mg/kg	NA	NA	NA	NA	NA	NA
Beryllium	--	mg/kg	NA	NA	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Calcium	--	mg/kg	NA	NA	NA	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA	NA	NA
Magnesium	--	mg/kg	NA	NA	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA	NA	NA
Potassium	--	mg/kg	NA	NA	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA	NA	NA
Sodium	--	mg/kg	NA	NA	NA	NA	NA	NA
Thallium	--	mg/kg	NA	NA	NA	NA	NA	NA
Vanadium	--	mg/kg	NA	NA	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA	NA	NA

Table 14B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-14 (IDPH Location W14) - Discrete Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-14-05(0-1) 0 - 1 06/23/05	OU4-SS-14-05(1-6) 1 - 6 06/23/05	OU4-SS-14-05(6-12) 6 - 12 06/23/05	OU4-SS-14-06(0-1) 0 - 1 06/23/05	OU4-SS-14-06(1-6) 1 - 6 06/23/05	OU4-SS-14-06(6-12) 6 - 12 06/23/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	14.3 J	27.7 J	11.7 J [16.1 J]	10.6 U	24.4 J	12.7 J
Barium	55000	mg/kg	NA	NA	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	64.8	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA	NA	NA
Metals (USEPA SW-846 6000/7000)								
Aluminum	--	mg/kg	NA	NA	NA	NA	NA	NA
Antimony	--	mg/kg	NA	NA	NA	NA	NA	NA
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA
Barium	55000	mg/kg	NA	NA	NA	NA	NA	NA
Beryllium	--	mg/kg	NA	NA	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Calcium	--	mg/kg	NA	NA	NA	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA	NA	NA
Magnesium	--	mg/kg	NA	NA	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA	NA	NA
Potassium	--	mg/kg	NA	NA	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA	NA	NA
Sodium	--	mg/kg	NA	NA	NA	NA	NA	NA
Thallium	--	mg/kg	NA	NA	NA	NA	NA	NA
Vanadium	--	mg/kg	NA	NA	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA	NA	NA

Table 14B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-14 (IDPH Location W14) - Discrete Samples

Sample ID; Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-14-06(12-18) 12 - 18 06/23/05	OU4-SS-14-07(0-1) 0 - 1 06/23/05	OU4-SS-14-07(1-6) 1 - 6 06/23/05	OU4-SS-14-07(6-12) 6 - 12 06/23/05	OU4-SS-14-07(12-18) 12 - 18 06/23/05	OU4-SS-14-08(0-1) 0 - 1 06/23/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	8.19 J	18.1 J	12.3 J	11.3 J	7.14 J	9.01 U
Barium	55000	mg/kg	NA	NA	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	65.3	NA	NA	NA	41.1
Chromium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA	NA	NA
Metals (USEPA SW-846 6000/7000)								
Aluminum	--	mg/kg	NA	NA	NA	NA	NA	NA
Antimony	--	mg/kg	NA	NA	NA	NA	NA	NA
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA
Barium	55000	mg/kg	NA	NA	NA	NA	NA	NA
Beryllium	--	mg/kg	NA	NA	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Calcium	--	mg/kg	NA	NA	NA	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA	NA	NA
Magnesium	--	mg/kg	NA	NA	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA	NA	NA
Potassium	--	mg/kg	NA	NA	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA	NA	NA
Sodium	--	mg/kg	NA	NA	NA	NA	NA	NA
Thallium	--	mg/kg	NA	NA	NA	NA	NA	NA
Vanadium	--	mg/kg	NA	NA	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA	NA	NA

Table 14B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-14 (IDPH Location W14) - Discrete Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-14-08(1-6) 1 - 6 06/23/05	OU4-SS-14-08(6-12) 6 - 12 06/23/05	OU4-SS-14-08(12-18) 12 - 18 06/23/05	OU4-SS-14-09(0-1) 0 - 1 06/23/05	OU4-SS-14-09(1-6) 1 - 6 06/23/05	OU4-SS-14-09(6-12) 6 - 12 06/23/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	9.46 U	12.6 J	13.1 J	8.72 U	9.36 U	11.8 J
Barium	55000	mg/kg	NA	NA	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	36.9	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA	NA	NA
Metals (USEPA SW-846 6000/7000)								
Aluminum	--	mg/kg	NA	NA	NA	NA	NA	NA
Antimony	--	mg/kg	NA	NA	NA	NA	NA	NA
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA
Barium	55000	mg/kg	NA	NA	NA	NA	NA	NA
Beryllium	--	mg/kg	NA	NA	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Calcium	--	mg/kg	NA	NA	NA	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA	NA	NA
Magnesium	--	mg/kg	NA	NA	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA	NA	NA
Potassium	--	mg/kg	NA	NA	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA	NA	NA
Sodium	--	mg/kg	NA	NA	NA	NA	NA	NA
Thallium	--	mg/kg	NA	NA	NA	NA	NA	NA
Vanadium	--	mg/kg	NA	NA	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA	NA	NA

Table 14B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-14 (IDPH Location W14) - Discrete Samples

Sample ID: Sample Depth(inches): Date Collected:	Residential RAL	Units	OU4-SS-14-09(12-18) 12 - 18 06/23/05	OU4-SS-14-10(0-1) 0 - 1 06/24/05	OU4-SS-14-10(1-6) 1 - 6 06/23/05	OU4-SS-14-10(6-12) 6 - 12 06/23/05	OU4-SS-14-10(12-18) 12 - 18 06/23/05	OU4-SS-14-11(0-1) 0 - 1 06/23/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	6.47 U	18.5 J	22.0 J	24.7 J [25.5 J]	16.6 J	12.2 J
Barium	55000	mg/kg	NA	NA	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	49.0	NA	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA	NA	NA
Metals (USEPA SW-846 6000/7000)								
Aluminum	--	mg/kg	NA	NA	NA	NA	NA	NA
Antimony	--	mg/kg	NA	NA	NA	NA	NA	NA
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA
Barium	55000	mg/kg	NA	NA	NA	NA	NA	NA
Beryllium	--	mg/kg	NA	NA	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Calcium	--	mg/kg	NA	NA	NA	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA	NA	NA
Magnesium	--	mg/kg	NA	NA	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA	NA	NA
Potassium	--	mg/kg	NA	NA	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA	NA	NA
Sodium	--	mg/kg	NA	NA	NA	NA	NA	NA
Thallium	--	mg/kg	NA	NA	NA	NA	NA	NA
Vanadium	--	mg/kg	NA	NA	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA	NA	NA

Table 14B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-14 (IDPH Location W14) - Discrete Samples

Sample ID: Sample Depth(inches): Date Collected:	Residential RAL	Units	OU4-SS-14-11(1-6) 1 - 6 06/23/05	OU4-SS-14-11(6-12) 6 - 12 06/23/05	OU4-SS-14-11(12-18) 12 - 18 06/23/05	OU4-SS-14-12(0-1) 0 - 1 06/23/05	OU4-SS-14-12(1-6) 1 - 6 06/23/05	OU4-SS-14-12(6-12) 6 - 12 06/23/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	28.6 J	4.86 U	20.6 J	33.4 J	47.1 J	18.8 J
Barium	55000	mg/kg	NA	NA	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA	NA	NA
Metals (USEPA SW-846 6000/7000)								
Aluminum	--	mg/kg	NA	NA	NA	NA	8770 [9530]	NA
Antimony	--	mg/kg	NA	NA	NA	NA	1.03 J [1.44 J]	NA
Arsenic	43	mg/kg	NA	NA	NA	NA	28.9 [29.4]	NA
Barium	55000	mg/kg	NA	NA	NA	NA	4510 [4280]	NA
Beryllium	--	mg/kg	NA	NA	NA	NA	2.28 [2.22]	NA
Cadmium	390	mg/kg	NA	NA	NA	NA	30.6 [27.6]	NA
Calcium	--	mg/kg	NA	NA	NA	NA	19300 J [19700 J]	NA
Chromium	3900	mg/kg	NA	NA	NA	NA	15.9 J [16.6 J]	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA	14.6 [8.66]	NA
Copper	31000	mg/kg	NA	NA	NA	NA	77.1 J [138 J]	NA
Iron	230000	mg/kg	NA	NA	NA	NA	28900 [29800]	NA
Lead	1200	mg/kg	NA	NA	NA	NA	517 [469]	NA
Magnesium	--	mg/kg	NA	NA	NA	NA	8170 [8300]	NA
Manganese	18000	mg/kg	NA	NA	NA	NA	1370 [626]	NA
Mercury	78	mg/kg	NA	NA	NA	NA	0.214 [0.223]	NA
Nickel	16000	mg/kg	NA	NA	NA	NA	32.8 [22.8]	NA
Potassium	--	mg/kg	NA	NA	NA	NA	1600 J [1650 J]	NA
Selenium	3900	mg/kg	NA	NA	NA	NA	1.09 U [1.10 U]	NA
Silver	3900	mg/kg	NA	NA	NA	NA	1.28 J [1.09 J]	NA
Sodium	--	mg/kg	NA	NA	NA	NA	201 [274]	NA
Thallium	--	mg/kg	NA	NA	NA	NA	2.22 [1.86]	NA
Vanadium	--	mg/kg	NA	NA	NA	NA	24.9 [27.8]	NA
Zinc	230000	mg/kg	NA	NA	NA	NA	3470 [3140]	NA

Table 14B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-14 (IDPH Location W14) - Discrete Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-14-12(12-18) 12 - 18 06/23/05	OU4-SS-14-13(0-1) 0 - 1 06/23/05	OU4-SS-14-13(1-6) 1 - 6 06/23/05	OU4-SS-14-13(6-12) 6 - 12 06/23/05	OU4-SS-14-13(12-18) 12 - 18 06/23/05	OU4-SS-14-14(0-1) 0 - 1 06/23/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	10.6 J	19.8 J	29.4 J	24.0 J	9.33 J	12.6 U
Barium	55000	mg/kg	NA	NA	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA	NA	NA
etals (USEPA SW-846 6000/7000)								
Aluminum	--	mg/kg	NA	NA	NA	NA	NA	NA
Antimony	--	mg/kg	NA	NA	NA	NA	NA	NA
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA
Barium	55000	mg/kg	NA	NA	NA	NA	NA	NA
Beryllium	--	mg/kg	NA	NA	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Calcium	--	mg/kg	NA	NA	NA	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA	NA	NA
Magnesium	--	mg/kg	NA	NA	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA	NA	NA
Potassium	--	mg/kg	NA	NA	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA	NA	NA
Sodium	--	mg/kg	NA	NA	NA	NA	NA	NA
Thallium	--	mg/kg	NA	NA	NA	NA	NA	NA
Vanadium	--	mg/kg	NA	NA	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA	NA	NA

Table 14B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-14 (IDPH Location W14) - Discrete Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-14-14(1-6) 1 - 6 06/23/05	OU4-SS-14-14(6-12) 6 - 12 06/23/05	OU4-SS-14-14(12-18) 12 - 18 06/23/05	OU4-SS-14-15(0-1) 0 - 1 06/23/05	OU4-SS-14-15(1-6) 1 - 6 06/23/05	OU4-SS-14-15(6-12) 6 - 12 06/23/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	38.9 J	28.6 J	6.18 U	14.7 U	17.5 J [18.6 J]	11.9 J
Barium	55000	mg/kg	NA	NA	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA	NA	NA
Metals (USEPA SW-846 6000/7000)								
Aluminum	--	mg/kg	NA	NA	NA	NA	NA	NA
Antimony	--	mg/kg	NA	NA	NA	NA	NA	NA
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA
Barium	55000	mg/kg	NA	NA	NA	NA	NA	NA
Beryllium	--	mg/kg	NA	NA	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Calcium	--	mg/kg	NA	NA	NA	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA	NA	NA
Magnesium	--	mg/kg	NA	NA	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA	NA	NA
Potassium	--	mg/kg	NA	NA	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA	NA	NA
Sodium	--	mg/kg	NA	NA	NA	NA	NA	NA
Thallium	--	mg/kg	NA	NA	NA	NA	NA	NA
Vanadium	--	mg/kg	NA	NA	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA	NA	NA

Table 14B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-14 (IDPH Location W14) - Discrete Samples

Sample ID: Sample Depth(inches): Date Collected:	Residential RAL	Units	OU4-SS-14-15(12-18) 12 - 18 06/23/05	OU4-SS-14-16(0-1) 0 - 1 06/16/05	OU4-SS-14-16(1-6) 1 - 6 06/16/05	OU4-SS-14-16(6-12) 6 - 12 06/16/05	OU4-SS-14-16(12-18) 12 - 18 06/16/05	OU4-SS-14-17(0-1) 0 - 1 06/16/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	9.16 U	10.6 J	9.81 U	18.3 J	10.7 J	10.1 U
Barium	55000	mg/kg	NA	790 J	1080 J	2010 J	811 J	1020 J
Cadmium	390	mg/kg	NA	35.6 U	36.0 U	41.6	44.0	35.8
Chromium	3900	mg/kg	NA	104 U	105 U	117 U	96.7 U	108 U
Cobalt	47000	mg/kg	NA	92.6 U	95.0 U	109 U	90.1 U	106 U
Copper	31000	mg/kg	NA	26.2 J	31.5 J	41.5 J	15.0 J	32.5 J
Iron	230000	mg/kg	NA	13900 U	14600 U	18000 U	13900 U	18200 U
Lead	1200	mg/kg	NA	180	190	260	144	203
Manganese	18000	mg/kg	NA	686	737	540	425 U	528
Mercury	78	mg/kg	NA	9.32 UJ	9.58 UJ	10.2 UJ	8.54 UJ	13.4 JQ
Nickel	16000	mg/kg	NA	21.8 U	21.9 U	24.2 U	21.2 U	22.8 U
Selenium	3900	mg/kg	NA	2.58 U	2.66 U	2.99 U	2.62 U	2.71 U
Silver	3900	mg/kg	NA	24.9 UJ	25.3 UJ	26.4 UJ	24.5 UJ	25.3 UJ
Zinc	230000	mg/kg	NA	1830	2010	2290	1390	1940
Metals (USEPA SW-846 6000/7000)								
Aluminum	--	mg/kg	NA	NA	NA	NA	NA	NA
Antimony	--	mg/kg	NA	NA	NA	NA	NA	NA
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA
Barium	55000	mg/kg	NA	NA	NA	NA	NA	NA
Beryllium	--	mg/kg	NA	NA	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Calcium	--	mg/kg	NA	NA	NA	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA	NA	NA
Magnesium	--	mg/kg	NA	NA	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA	NA	NA
Potassium	--	mg/kg	NA	NA	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA	NA	NA
Sodium	--	mg/kg	NA	NA	NA	NA	NA	NA
Thallium	--	mg/kg	NA	NA	NA	NA	NA	NA
Vanadium	--	mg/kg	NA	NA	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA	NA	NA

Table 14B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-14 (IDPH Location W14) - Discrete Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-14-17(1-6) 1 - 6 06/16/05	OU4-SS-14-17(6-12) 6 - 12 06/13/05	OU4-SS-14-17(12-18) 12 - 18 06/16/05	OU4-SS-14-18(0-1) 0 - 1 06/23/05	OU4-SS-14-18(1-6) 1 - 6 06/23/05	OU4-SS-14-18(6-12) 6 - 12 06/23/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	13.3 J	14.9 J	13.4 J [13.6 J]	23.9 U	71.9 J	18.7 J
Barium	55000	mg/kg	1330 J	1160 J	399 J [303 UJ]	NA	NA	NA
Cadmium	390	mg/kg	36.7 U	38.0 U	36.7 U [36.7 U]	NA	NA	NA
Chromium	3900	mg/kg	114 U	113 U	115 U [112 U]	NA	NA	NA
Cobalt	47000	mg/kg	105 U	106 U	134 U [134 U]	NA	NA	NA
Copper	31000	mg/kg	40.3 J	18.4 J	25.4 J [18.0 J]	NA	NA	NA
Iron	230000	mg/kg	17700 U	17900 U	28800 [28600]	NA	NA	NA
Lead	1200	mg/kg	219	166	83.4 [85.2]	NA	NA	NA
Manganese	18000	mg/kg	594	441 U	385 U [355 U]	NA	NA	NA
Mercury	78	mg/kg	9.55 UJ	11.3 JQ	9.35 UJ [8.92 UJ]	NA	NA	NA
Nickel	16000	mg/kg	23.5 U	25.9 JQ	25.8 U [25.2 U]	NA	NA	NA
Selenium	3900	mg/kg	2.74 U	2.72 U	2.56 U [2.63 U]	NA	NA	NA
Silver	3900	mg/kg	25.8 UJ	26.7 U	25.8 U [25.9 U]	NA	NA	NA
Zinc	230000	mg/kg	2100	1610	1000 [998]	NA	NA	NA
etals (USEPA SW-846 6000/7000)								
Aluminum	--	mg/kg	NA	9990	NA	NA	NA	NA
Antimony	--	mg/kg	NA	6.47 U	NA	NA	NA	NA
Arsenic	43	mg/kg	NA	18.2	NA	NA	15.7	NA
Barium	55000	mg/kg	NA	2140	NA	NA	NA	NA
Beryllium	--	mg/kg	NA	0.743	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	17.2	NA	NA	NA	NA
Calcium	--	mg/kg	NA	13700	NA	NA	NA	NA
Chromium	3900	mg/kg	NA	16.8	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	9.01	NA	NA	NA	NA
Copper	31000	mg/kg	NA	33.0	NA	NA	NA	NA
Iron	230000	mg/kg	NA	16900	NA	NA	NA	NA
Lead	1200	mg/kg	NA	146	NA	NA	NA	NA
Magnesium	--	mg/kg	NA	6990	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	844	NA	NA	NA	NA
Mercury	78	mg/kg	NA	0.0484 B	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	17.6	NA	NA	NA	NA
Potassium	--	mg/kg	NA	2280	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	1.08 U	NA	NA	NA	NA
Silver	3900	mg/kg	NA	2.16 U	NA	NA	NA	NA
Sodium	--	mg/kg	NA	155 J	NA	NA	NA	NA
Thallium	--	mg/kg	NA	1.05 J	NA	NA	NA	NA
Vanadium	--	mg/kg	NA	27.1	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	1570 J	NA	NA	NA	NA

Table 14B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-14 (IDPH Location W14) - Discrete Samples

Sample ID: / Sample Depth(inches): / Date Collected:	Residential RAL	Units	OU4-SS-14-19(0-1) 0 - 1 06/23/05	OU4-SS-14-19(1-6) 1 - 6 06/23/05	OU4-SS-14-19(6-12) 6 - 12 06/23/05	OU4-SS-14-20(0-1) 0 - 1 06/23/05	OU4-SS-14-20(1-6) 1 - 6 06/23/05	OU4-SS-14-20(6-12) 6 - 12 06/23/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	54.8 J	23.3 U	11.0 U	64.3 J	26.7 J	14.6 J
Barium	55000	mg/kg	NA	NA	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA	NA	NA
Metals (USEPA SW-846 6000/7000)								
Aluminum	--	mg/kg	NA	NA	NA	NA	NA	NA
Antimony	--	mg/kg	NA	NA	NA	NA	NA	NA
Arsenic	43	mg/kg	20.7	NA	NA	14.5	NA	NA
Barium	55000	mg/kg	NA	NA	NA	NA	NA	NA
Beryllium	--	mg/kg	NA	NA	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Calcium	--	mg/kg	NA	NA	NA	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA	NA	NA
Magnesium	--	mg/kg	NA	NA	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA	NA	NA
Potassium	--	mg/kg	NA	NA	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA	NA	NA
Sodium	--	mg/kg	NA	NA	NA	NA	NA	NA
Thallium	--	mg/kg	NA	NA	NA	NA	NA	NA
Vanadium	--	mg/kg	NA	NA	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA	NA	NA

Table 14B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-14 (IDPH Location W14) - Discrete Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-14-21(0-1) 0 - 1 06/23/05	OU4-SS-14-21(1-6) 1 - 6 06/23/05	OU4-SS-14-21(6-12) 6 - 12 06/23/05
Metals - XRF (USEPA SW-846 6200)					
Arsenic	43	mg/kg	14.4 U	19.0 J [19.2 J]	6.00 U
Barium	55000	mg/kg	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA
Metals (USEPA SW-846 6000/7000)					
Aluminum	--	mg/kg	NA	NA	NA
Antimony	--	mg/kg	NA	NA	NA
Arsenic	43	mg/kg	NA	NA	NA
Barium	55000	mg/kg	NA	NA	NA
Beryllium	--	mg/kg	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA
Calcium	--	mg/kg	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA
Magnesium	--	mg/kg	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA
Potassium	--	mg/kg	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA
Sodium	--	mg/kg	NA	NA	NA
Thallium	--	mg/kg	NA	NA	NA
Vanadium	--	mg/kg	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA

Table 14B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-14 (IDPH Location W14) - Discrete Samples

Notes:

NA = Not Analyzed
RAL = Removal Action Levels: from Hazard Evaluation Handbook: A Guide to Removal Actions. October 1997. Fourth Edition. EPA 903/B-97-006.
mg/kg = milligrams per kilogram
XRF = X-Ray Fluorescence
= Values exceed Residential RAL Criteria.
J = The analyte was positively identified; however, the associated numerical value is an estimated concentration only.
U = The analyte was analyzed for but not detected.
B = The reported value was obtained from a reading less than the contract required detection limit (CRDL) but greater than or equal to the instrument detection limit (IDL).
R = The sample results are rejected.
JQ = The analyte was detected above the reported limit but below the method detection limit; therefore, the reported value should not be used for quantitative measurement.
UJ = The analyte was not detected above the reported sample detection limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.
[ ] = Field Duplicate

Non-responsive

Table 15A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-15 (IDPH Location S18) - Composite Samples

Sample ID: Sample Depth(inches): Date Collected:	Residential RAL	Units	OU4-SS-15-COMP1(0-1) 0 - 1 06/14/05	OU4-SS-15-COMP1(1-6) 1 - 6 06/14/05	OU4-SS-15-COMP1(6-12) 6 - 12 06/14/05	OU4-SS-15-COMP1(12-18) 12 - 18 06/14/05
Metals - XRF (USEPA SW-846 6200)						
Arsenic	43	mg/kg	15.7 J	15.2 J	12.1 J	8.45 J
Barium	55000	mg/kg	1080 J	1010 J	406 J	276 UJ
Cadmium	390	mg/kg	71.7	59.4	35.7 U	36.9 U
Chromium	3900	mg/kg	107 U	119 U	107 U	105 U
Cobalt	47000	mg/kg	107 U	120 U	115 U	118 U
Copper	31000	mg/kg	37.4	44.9	16.7	13.3 U
Iron	230000	mg/kg	19400 U	22800 U	22300	22800
Lead	1200	mg/kg	277	304	102	37.1 U
Manganese	18000	mg/kg	712 J	1230 J	1080 J	551 J
Mercury	78	mg/kg	9.98 UJ	11.1 UJ	8.31 UJ	8.44 UJ
Nickel	16000	mg/kg	23.2 U	25.7 U	23.9 U	27.6
Selenium	3900	mg/kg	2.67 U	3.14 U	2.38 U	2.63 U
Silver	3900	mg/kg	24.6 UJ	27.4 UJ	25.1 UJ	25.8 UJ
Zinc	230000	mg/kg	3820	4150	1630	332
Metals (USEPA SW-846 6000/7000)						
Aluminum	--	mg/kg	NA	11700	NA	NA
Antimony	--	mg/kg	NA	6.62 U	NA	NA
Arsenic	43	mg/kg	NA	14.6	NA	NA
Barium	55000	mg/kg	NA	1520	NA	NA
Beryllium	--	mg/kg	NA	0.748	NA	NA
Cadmium	390	mg/kg	NA	28.5	NA	NA
Calcium	--	mg/kg	NA	8700	NA	NA
Chromium	3900	mg/kg	NA	18.9	NA	NA
Cobalt	47000	mg/kg	NA	8.14	NA	NA
Copper	31000	mg/kg	NA	46.6	NA	NA
Iron	230000	mg/kg	NA	26600	NA	NA
Lead	1200	mg/kg	NA	249	NA	NA
Magnesium	--	mg/kg	NA	3890	NA	NA
Manganese	18000	mg/kg	NA	1150	NA	NA
Mercury	78	mg/kg	NA	0.136	NA	NA
Nickel	16000	mg/kg	NA	17.3	NA	NA
Potassium	--	mg/kg	NA	2120	NA	NA
Selenium	3900	mg/kg	NA	1.10 U	NA	NA
Silver	3900	mg/kg	NA	0.809 B	NA	NA
Sodium	--	mg/kg	NA	65.8 J	NA	NA
Thallium	--	mg/kg	NA	1.18	NA	NA
Vanadium	--	mg/kg	NA	43.4	NA	NA
Zinc	230000	mg/kg	NA	3170 J	NA	NA

Table 15A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-15 (IDPH Location S18) - Composite Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-15-COMP2(0-1) 0 - 1 06/14/05	OU4-SS-15-COMP2(1-6) 1 - 6 06/14/05	OU4-SS-15-COMP2(6-12) 6 - 12 06/14/05	OU4-SS-15-COMP2(12-18) 12 - 18 06/14/05
Metals - XRF (USEPA SW-846 6200)						
Arsenic	43	mg/kg	16.4 J	12.3 J	6.41 U	8.32 J
Barium	55000	mg/kg	1100 J	885 J	322 J	266 UJ
Cadmium	390	mg/kg	83.3	68.1	35.4 U	35.7 U
Chromium	3900	mg/kg	118 U	112 U	102 U	103 U
Cobalt	47000	mg/kg	116 U	117 U	112 U	115 U
Copper	31000	mg/kg	54.2	30.4	12.9 U	19.4
Iron	230000	mg/kg	21100 U	22900	21800	22700
Lead	1200	mg/kg	466	278	67.4	11.8 U
Manganese	18000	mg/kg	882 J	947 J	1060 J	963 J
Mercury	78	mg/kg	11.4 UJ	10.1 UJ	7.90 UJ	7.74 UJ
Nickel	16000	mg/kg	25.5 U	24.3 U	23.2 U	23.3 U
Selenium	3900	mg/kg	3.01 U	2.69 U	2.51 U	2.26 U
Silver	3900	mg/kg	27.2 UJ	25.3 UJ	24.8 UJ	25.1 UJ
Zinc	230000	mg/kg	4330	3690	893	89.9
Metals (USEPA SW-846 6000/7000)						
Aluminum	--	mg/kg	9670	NA	NA	NA
Antimony	--	mg/kg	6.55 U	NA	NA	NA
Arsenic	43	mg/kg	10.7	NA	NA	NA
Barium	55000	mg/kg	1910	NA	NA	NA
Beryllium	--	mg/kg	0.577	NA	NA	NA
Cadmium	390	mg/kg	53.3	NA	NA	NA
Calcium	--	mg/kg	8070	NA	NA	NA
Chromium	3900	mg/kg	18.4	NA	NA	NA
Cobalt	47000	mg/kg	9.66	NA	NA	NA
Copper	31000	mg/kg	52.0	NA	NA	NA
Iron	230000	mg/kg	17500	NA	NA	NA
Lead	1200	mg/kg	417	NA	NA	NA
Magnesium	--	mg/kg	3920	NA	NA	NA
Manganese	18000	mg/kg	911	NA	NA	NA
Mercury	78	mg/kg	0.243	NA	NA	NA
Nickel	16000	mg/kg	15.7	NA	NA	NA
Potassium	--	mg/kg	1850	NA	NA	NA
Selenium	3900	mg/kg	1.09 U	NA	NA	NA
Silver	3900	mg/kg	1.15 B	NA	NA	NA
Sodium	--	mg/kg	80.0 J	NA	NA	NA
Thallium	--	mg/kg	1.09 U	NA	NA	NA
Vanadium	--	mg/kg	25.8	NA	NA	NA
Zinc	230000	mg/kg	3310 J	NA	NA	NA

Table 15A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-15 (IDPH Location S18) - Composite Samples

Sample ID: Sample Depth(inches): Date Collected:	Residential RAL	Units	OU4-SS-15-COMP3(0-1) 0 - 1 06/14/05	OU4-SS-15-COMP3(1-6) 1 - 6 06/14/05	OU4-SS-15-COMP3(6-12) 6 - 12 06/14/05	OU4-SS-15-COMP3(12-18) 12 - 18 06/14/05
Metals - XRF (USEPA SW-846 6200)						
Arsenic	43	mg/kg	22.3 J	14.5 J	11.5 J	8.82 J
Barium	55000	mg/kg	1070 J	1170 J	412 J	400 J
Cadmium	390	mg/kg	99.9	61.5	41.7	35.6 U
Chromium	3900	mg/kg	119 U	115 U	105 U	104 U
Cobalt	47000	mg/kg	120 U	119 U	115 U	121 U
Copper	31000	mg/kg	62.8	50.9	14.4	16.7
Iron	230000	mg/kg	22100 U	23500	23400	25200
Lead	1200	mg/kg	426	310	63.2	16.7 U
Manganese	18000	mg/kg	1020 J	1300 J	1060 J	872 J
Mercury	78	mg/kg	11.5 UJ	10.6 UJ	8.54 UJ	7.22 UJ
Nickel	16000	mg/kg	25.5 U	25.4 U	28.6	23.7 U
Selenium	3900	mg/kg	3.27 U	2.97 U	2.47 U	2.29 U
Silver	3900	mg/kg	27.7 UJ	25.4 UJ	24.5 UJ	25.1 UJ
Zinc	230000	mg/kg	4970	4840	2030	190
Metals (USEPA SW-846 6000/7000)						
Aluminum	--	mg/kg	10200	NA	NA	NA
Antimony	--	mg/kg	6.75 U	NA	NA	NA
Arsenic	43	mg/kg	11.0	NA	NA	NA
Barium	55000	mg/kg	1880	NA	NA	NA
Beryllium	--	mg/kg	0.612	NA	NA	NA
Cadmium	390	mg/kg	63.6	NA	NA	NA
Calcium	--	mg/kg	9230	NA	NA	NA
Chromium	3900	mg/kg	16.4	NA	NA	NA
Cobalt	47000	mg/kg	7.79	NA	NA	NA
Copper	31000	mg/kg	66.9	NA	NA	NA
Iron	230000	mg/kg	18000	NA	NA	NA
Lead	1200	mg/kg	375	NA	NA	NA
Magnesium	--	mg/kg	4450	NA	NA	NA
Manganese	18000	mg/kg	1040	NA	NA	NA
Mercury	78	mg/kg	0.302	NA	NA	NA
Nickel	16000	mg/kg	14.5	NA	NA	NA
Potassium	--	mg/kg	1890	NA	NA	NA
Selenium	3900	mg/kg	1.16	NA	NA	NA
Silver	3900	mg/kg	1.50 B	NA	NA	NA
Sodium	--	mg/kg	90.4 J	NA	NA	NA
Thallium	--	mg/kg	1.13	NA	NA	NA
Vanadium	--	mg/kg	28.0	NA	NA	NA
Zinc	230000	mg/kg	3580 J	NA	NA	NA

Table 15A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-15 (IDPH Location S18) - Composite Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-15-COMP4(0-1) 0 - 1 06/14/05	OU4-SS-15-COMP4(1-6) 1 - 6 06/14/05	OU4-SS-15-COMP4(6-12) 6 - 12 06/14/05	OU4-SS-15-COMP4(12-18) 12 - 18 06/14/05
Metals - XRF (USEPA SW-846 6200)						
Arsenic	43	mg/kg	37.7 J	23.5 J	9.75 J	5.64 U
Barium	55000	mg/kg	1300 J	1080 J	339 J	261 UJ
Cadmium	390	mg/kg	95.4	55.2	58.7	35.4 U
Chromium	3900	mg/kg	132 U	112 U	103 U	101 U
Cobalt	47000	mg/kg	132 U	116 U	113 U	103 U
Copper	31000	mg/kg	58.1	34.1	13.3 U	12.6 U
Iron	230000	mg/kg	25000 U	22200	22200	19000 U
Lead	1200	mg/kg	924	562	69.4	45.6 U
Manganese	18000	mg/kg	853 J	980 J	1130 J	952 J
Mercury	78	mg/kg	12.8 UJ	10.7 UJ	8.66 UJ	8.29 UJ
Nickel	16000	mg/kg	28.5 U	25.0 U	22.6 U	22.0 U
Selenium	3900	mg/kg	4.05 U	3.11 U	2.52 U	2.37 U
Silver	3900	mg/kg	28.9 UJ	25.3 UJ	24.7 UJ	24.6 UJ
Zinc	230000	mg/kg	6490	4720	1760	1460
Metals (USEPA SW-846 6000/7000)						
Aluminum	--	mg/kg	10700	NA	NA	NA
Antimony	--	mg/kg	6.97 U	NA	NA	NA
Arsenic	43	mg/kg	11.9	NA	NA	NA
Barium	55000	mg/kg	2550	NA	NA	NA
Beryllium	--	mg/kg	0.585	NA	NA	NA
Cadmium	390	mg/kg	57.9	NA	NA	NA
Calcium	--	mg/kg	16900	NA	NA	NA
Chromium	3900	mg/kg	33.5	NA	NA	NA
Cobalt	47000	mg/kg	9.16	NA	NA	NA
Copper	31000	mg/kg	110	NA	NA	NA
Iron	230000	mg/kg	21600	NA	NA	NA
Lead	1200	mg/kg	1350	NA	NA	NA
Magnesium	--	mg/kg	6550	NA	NA	NA
Manganese	18000	mg/kg	820	NA	NA	NA
Mercury	78	mg/kg	0.370	NA	NA	NA
Nickel	16000	mg/kg	17.4	NA	NA	NA
Potassium	--	mg/kg	2020	NA	NA	NA
Selenium	3900	mg/kg	1.27	NA	NA	NA
Silver	3900	mg/kg	1.07 B	NA	NA	NA
Sodium	--	mg/kg	207 J	NA	NA	NA
Thallium	--	mg/kg	1.16 U	NA	NA	NA
Vanadium	--	mg/kg	27.9	NA	NA	NA
Zinc	230000	mg/kg	5530 J	NA	NA	NA

Table 15A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-15 (IDPH Location S18) - Composite Samples

Notes:

NA = Not Analyzed
RAL = Removal Action Levels: from Hazard Evaluation Handbook: A Guide to Removal Actions. October 1997. Fourth Edition. EPA 903/B-97-006.
mg/kg = milligrams per kilogram
XRF = X-Ray Fluorescence
= Values exceed Residential RAL Criteria.
J = The analyte was positively identified; however, the associated numerical value is an estimated concentration only.
U = The analyte was analyzed for but not detected.
B = The reported value was obtained from a reading less than the contract required detection limit (CRDL) but greater than or equal to the instrument detection limit (IDL).
R = The sample results are rejected.
JQ = The analyte was detected above the reported limit but below the method detection limit; therefore, the reported value should not be used for quantitative measurement.
UJ = The analyte was not detected above the reported sample detection limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.
[ ] = Field Duplicate

Table 15B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-15 (IDHP Location S18) - Discrete Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-15-01(0-1) 0 - 1 06/23/05	OU4-SS-15-01(1-6) 1 - 6 06/23/05	OU4-SS-15-01(6-12) 6 - 12 06/23/05	OU4-SS-15-02(0-1) 0 - 1 06/23/05	OU4-SS-15-02(1-6) 1 - 6 06/23/05	OU4-SS-15-02(6-12) 6 - 12 06/23/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	16.2 J	18.6 J	8.12 J	12.0 J	20.4 J	9.47 J
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Metals (USEPA SW-846 6000/7000)								
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-15-03(0-1) 0 - 1 06/23/05	OU4-SS-15-03(1-6) 1 - 6 06/23/05	OU4-SS-15-03(6-12) 6 - 12 06/23/05	OU4-SS-15-04(0-1) 0 - 1 06/23/05	OU4-SS-15-04(1-6) 1 - 6 06/23/05	OU4-SS-15-04(6-12) 6 - 12 06/23/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	14.5 J	14.8 J	5.69 J	22.7 J	11.4 J	15.9 J
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Metals (USEPA SW-846 6000/7000)								
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-15-05(0-1) 0 - 1 06/23/05	OU4-SS-15-05(1-6) 1 - 6 06/23/05	OU4-SS-15-05(6-12) 6 - 12 06/23/05	OU4-SS-15-06(0-1) 0 - 1 06/23/05	OU4-SS-15-06(1-6) 1 - 6 06/23/05	OU4-SS-15-07(0-1) 0 - 1 06/23/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	8.88 U	10.5 U	14.9 J [17.5 J]	16.8 U	13.6 J	14.2 J
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Metals (USEPA SW-846 6000/7000)								
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA
Arsenic	43	mg/kg	NA	12.5 [11.8]	NA	NA	NA	NA

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-15-08(1-6) 1 - 6 06/23/05	OU4-SS-15-10(1-6) 1 - 6 06/23/05	OU4-SS-15-11(0-1) 0 - 1 06/24/05	OU4-SS-15-11(1-6) 1 - 6 06/23/05	OU4-SS-15-11(6-12) 6 - 12 06/23/05	OU4-SS-15-11(12-18) 12 - 18 06/23/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	65.0 J	11.9 J	18.2 J	12.6 J	7.93 J	7.70 J
Cadmium	390	mg/kg	NA	NA	96.9	NA	NA	NA
Metals (USEPA SW-846 6000/7000)								
Arsenic	43	mg/kg	12.5	NA	NA	NA	NA	NA

Table 15B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-15 (IDHP Location S18) - Discrete Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-15-12(0-1) 0 - 1 06/24/05	OU4-SS-15-12(1-6) 1 - 6 06/23/05	OU4-SS-15-12(6-12) 6 - 12 06/23/05	OU4-SS-15-12(12-18) 12 - 18 06/23/05	OU4-SS-15-13(0-1) 0 - 1 06/24/05	OU4-SS-15-13(1-6) 1 - 6 06/23/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	12.6 U	15.1 J	10.4 J	10.7 J	26.5 J	12.5 U
Cadmium	390	mg/kg	78.6	NA	NA	NA	81.5	NA
Metals (USEPA SW-846 6000/7000)								
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-15-13(6-12) 6 - 12 06/23/05	OU4-SS-15-13(12-18) 12 - 18 06/23/05	OU4-SS-15-14(0-1) 0 - 1 06/24/05	OU4-SS-15-14(1-6) 1 - 6 06/23/05	OU4-SS-15-14(6-12) 6 - 12 06/23/05	OU4-SS-15-14(12-18) 12 - 18 06/23/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	5.66 U	9.75 J	9.71 U	5.30 U	5.20 J	8.32 J
Cadmium	390	mg/kg	NA	NA	36.5	NA	NA	NA
Metals (USEPA SW-846 6000/7000)								
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-15-15(0-1) 0 - 1 06/24/05	OU4-SS-15-15(1-6) 1 - 6 06/23/05	OU4-SS-15-15(6-12) 6 - 12 06/23/05	OU4-SS-15-15(12-18) 12 - 18 06/23/05	OU4-SS-15-16(0-1) 0 - 1 06/23/05	OU4-SS-15-16(1-6) 1 - 6 06/23/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	20.8 J [19.2 J]	31.9 J	11.8 J [16.5 J]	5.71 J	22.3 J	17.2 U
Cadmium	390	mg/kg	106 [108]	NA	NA	NA	NA	NA
Metals (USEPA SW-846 6000/7000)								
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-15-17(0-1) 0 - 1 06/23/05	OU4-SS-15-17(1-6) 1 - 6 06/23/05	OU4-SS-15-18(0-1) 0 - 1 06/23/05	OU4-SS-15-18(1-6) 1 - 6 06/23/05	OU4-SS-15-19(0-1) 0 - 1 06/23/05	OU4-SS-15-19(1-6) 1 - 6 06/23/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	36.9 J	85.3 J	13.0 U	13.9 J	13.1 U	8.37 J
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Metals (USEPA SW-846 6000/7000)								
Arsenic	43	mg/kg	NA	19.3	NA	NA	NA	NA

Table 15B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-15 (IDHP Location S18) - Discrete Samples

Notes:

NA = Not Analyzed
RAL = Removal Action Levels: from Hazard Evaluation Handbook: A Guide to Removal Actions. October 1997. Fourth Edition. EPA 903/B-97-006.
mg/kg = milligrams per kilogram
XRF = X-Ray Fluorescence
= Values exceed Residential RAL Criteria.
J = The analyte was positively identified; however, the associated numerical value is an estimated concentration only.
U = The analyte was analyzed for but not detected.
B = The reported value was obtained from a reading less than the contract required detection limit (CRDL) but greater than or equal to the instrument detection limit (IDL).
R = The sample results are rejected.
JQ = The analyte was detected above the reported limit but below the method detection limit; therefore, the reported value should not be used for quantitative measurement.
UJ = The analyte was not detected above the reported sample detection limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.
[ ] = Field Duplicate

Non-responsive

Table 16A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-16 (IDPH Location S12) - Composite Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-16-COMP1(0-1) 0 - 1 06/15/05	OU4-SS-16-COMP1(1-6) 1 - 6 06/15/05	OU4-SS-16-COMP1(6-12) 6 - 12 06/15/05	OU4-SS-16-COMP1(12-18) 12 - 18 06/15/05
Metals - XRF (USEPA SW-846 6200)						
Arsenic	43	mg/kg	15.1 J [13.1 U]	25.9 J	26.3 J	8.47 U
Barium	55000	mg/kg	936 J [1110 J]	1790 J	553 J	351 J
Cadmium	390	mg/kg	35.8 U [35.6 U]	37.9 U	36.8 U	35.0 U
Chromium	3900	mg/kg	109 U [110 U]	122 U	111 U	92.8 U
Cobalt	47000	mg/kg	113 U [109 U]	125 U	121 U	97.2 U
Copper	31000	mg/kg	36.0 [32.2]	42.8	40.6	12.2 U
Iron	230000	mg/kg	20900 [20300]	24200	23700	16400 U
Lead	1200	mg/kg	403 [378]	582	490	149
Manganese	18000	mg/kg	504 J [550 J]	663 J	628 J	533 J
Mercury	78	mg/kg	9.64 UJ [9.26 UJ]	11.0 UJ	9.50 UJ	7.58 UJ
Nickel	16000	mg/kg	23.4 U [22.9 U]	24.9 U	24.7 U	21.1 U
Selenium	3900	mg/kg	2.79 U [2.88 U]	3.26 U	2.97 U	2.49 U
Silver	3900	mg/kg	25.2 UJ [24.9 UJ]	26.6 UJ	25.9 UJ	24.5 UJ
Zinc	230000	mg/kg	1690 [1750]	2650	1540	128
Metals (USEPA SW-846 6000/7000)						
Aluminum	--	mg/kg	NA	11000	NA	NA
Antimony	--	mg/kg	NA	6.18 U	NA	NA
Arsenic	43	mg/kg	NA	13.3	NA	NA
Barium	55000	mg/kg	NA	3360	NA	NA
Beryllium	--	mg/kg	NA	0.770	NA	NA
Cadmium	390	mg/kg	NA	24.2	NA	NA
Calcium	--	mg/kg	NA	5820	NA	NA
Chromium	3900	mg/kg	NA	18.6	NA	NA
Cobalt	47000	mg/kg	NA	8.10	NA	NA
Copper	31000	mg/kg	NA	46.7	NA	NA
Iron	230000	mg/kg	NA	20100	NA	NA
Lead	1200	mg/kg	NA	558	NA	NA
Magnesium	--	mg/kg	NA	3610	NA	NA
Manganese	18000	mg/kg	NA	631	NA	NA
Mercury	78	mg/kg	NA	0.216	NA	NA
Nickel	16000	mg/kg	NA	17.5	NA	NA
Potassium	--	mg/kg	NA	2080	NA	NA
Selenium	3900	mg/kg	NA	1.09	NA	NA
Silver	3900	mg/kg	NA	1.11 B	NA	NA
Sodium	--	mg/kg	NA	69.6 J	NA	NA
Thallium	--	mg/kg	NA	1.03 U	NA	NA
Vanadium	--	mg/kg	NA	29.1	NA	NA
Zinc	230000	mg/kg	NA	2150 J	NA	NA

Table 16A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-16 (IDPH Location S12) - Composite Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-16-COMP2(0-1) 0 - 1 06/15/05	OU4-SS-16-COMP2(1-6) 1 - 6 06/15/05	OU4-SS-16-COMP2(6-12) 6 - 12 06/15/05	OU4-SS-16-COMP2(12-18) 12 - 18 06/15/05
Metals - XRF (USEPA SW-846 6200)						
Arsenic	43	mg/kg	9.96 U	14.2 J	8.69 U	10.5 J
Barium	55000	mg/kg	765 J	2030 J	379 J	511 J
Cadmium	390	mg/kg	38.2	63.0	34.9 U	34.1 U
Chromium	3900	mg/kg	98.8 U	123 U	96.5 U	92.2 U
Cobalt	47000	mg/kg	86.7 U	109 U	94.0 U	91.5 U
Copper	31000	mg/kg	19.2	40.9	12.8 U	13.5
Iron	230000	mg/kg	13500 U	18300 U	15100 U	14900 U
Lead	1200	mg/kg	230	351	161	102
Manganese	18000	mg/kg	291 UJ	504 J	402 J	491 J
Mercury	78	mg/kg	8.87 UJ	10.6 UJ	8.28 UJ	7.48 UJ
Nickel	16000	mg/kg	20.2 U	24.3 U	20.9 U	19.8 U
Selenium	3900	mg/kg	2.64 U	3.02 U	2.51 U	2.40 U
Silver	3900	mg/kg	23.6 UJ	27.3 UJ	24.5 UJ	23.8 UJ
Zinc	230000	mg/kg	1650	2930	1350	297
Metals (USEPA SW-846 6000/7000)						
Aluminum	--	mg/kg	NA	10200	NA	NA
Antimony	--	mg/kg	NA	6.43 U	NA	NA
Arsenic	43	mg/kg	NA	11.8	NA	NA
Barium	55000	mg/kg	NA	3960	NA	NA
Beryllium	--	mg/kg	NA	0.713	NA	NA
Cadmium	390	mg/kg	NA	33.1	NA	NA
Calcium	--	mg/kg	NA	6660	NA	NA
Chromium	3900	mg/kg	NA	15.7	NA	NA
Cobalt	47000	mg/kg	NA	7.23	NA	NA
Copper	31000	mg/kg	NA	50.5	NA	NA
Iron	230000	mg/kg	NA	15900	NA	NA
Lead	1200	mg/kg	NA	323	NA	NA
Magnesium	--	mg/kg	NA	3840	NA	NA
Manganese	18000	mg/kg	NA	528	NA	NA
Mercury	78	mg/kg	NA	0.162	NA	NA
Nickel	16000	mg/kg	NA	14.1	NA	NA
Potassium	--	mg/kg	NA	1990	NA	NA
Selenium	3900	mg/kg	NA	1.07 U	NA	NA
Silver	3900	mg/kg	NA	1.36 B	NA	NA
Sodium	--	mg/kg	NA	81.5 J	NA	NA
Thallium	--	mg/kg	NA	1.07 U	NA	NA
Vanadium	--	mg/kg	NA	24.3	NA	NA
Zinc	230000	mg/kg	NA	2480 J	NA	NA

Table 16A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-16 (IDPH Location S12) - Composite Samples

Sample ID: Sample Depth (Inches): Date Collected:	Residential RAL	Units	OU4-SS-16-COMP3(0-1) 0 - 1 06/15/05	OU4-SS-16-COMP3(1-6) 1 - 6 06/15/05	OU4-SS-16-COMP3(6-12) 6 - 12 06/15/05	OU4-SS-16-COMP3(12-18) 12 - 18 06/15/05
Metals - XRF (USEPA SW-846 6200)						
Arsenic	43	mg/kg	12.7 U	16.0 J	10.2 U	5.05 U
Barium	55000	mg/kg	1050 J	1700 J	773 J	258 UJ
Cadmium	390	mg/kg	65.1	67.5	35.9 U	34.8 U
Chromium	3900	mg/kg	106 U	125 U	114 U	94.0 U
Cobalt	47000	mg/kg	123 JQ	175 JQ	119 U	106 JQ
Copper	31000	mg/kg	32.7	54.7	56.0	11.3 U
Iron	230000	mg/kg	18300 U	24300	23500	14700 U
Lead	1200	mg/kg	370	469	203	35.7 U
Manganese	18000	mg/kg	554 J	640 J	571 J	394 J
Mercury	78	mg/kg	9.35 UJ	11.5 UJ	11.1 JQ	7.58 UJ
Nickel	16000	mg/kg	22.3 U	26.6 U	24.0 U	20.7 U
Selenium	3900	mg/kg	2.89 U	3.19 U	2.78 U	2.38 U
Silver	3900	mg/kg	24.7 UJ	27.7 UJ	25.3 UJ	24.2 UJ
Zinc	230000	mg/kg	2050	3170	1620	516
Metals (USEPA SW-846 6000/7000)						
Aluminum	--	mg/kg	NA	11400	NA	NA
Antimony	--	mg/kg	NA	6.51 U	NA	NA
Arsenic	43	mg/kg	NA	14.9	NA	NA
Barium	55000	mg/kg	NA	3820	NA	NA
Beryllium	--	mg/kg	NA	0.976	NA	NA
Cadmium	390	mg/kg	NA	46.5	NA	NA
Calcium	--	mg/kg	NA	6050	NA	NA
Chromium	3900	mg/kg	NA	18.3	NA	NA
Cobalt	47000	mg/kg	NA	9.08	NA	NA
Copper	31000	mg/kg	NA	60.3	NA	NA
Iron	230000	mg/kg	NA	25300	NA	NA
Lead	1200	mg/kg	NA	438	NA	NA
Magnesium	--	mg/kg	NA	3010	NA	NA
Manganese	18000	mg/kg	NA	768	NA	NA
Mercury	78	mg/kg	NA	0.297	NA	NA
Nickel	16000	mg/kg	NA	17.1	NA	NA
Potassium	--	mg/kg	NA	2420	NA	NA
Selenium	3900	mg/kg	NA	1.58	NA	NA
Silver	3900	mg/kg	NA	1.27 B	NA	NA
Sodium	--	mg/kg	NA	93.2 J	NA	NA
Thallium	--	mg/kg	NA	1.37	NA	NA
Vanadium	--	mg/kg	NA	29.1	NA	NA
Zinc	230000	mg/kg	NA	3160 J	NA	NA

Table 16A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-16 (IDPH Location S12) - Composite Samples

Sample ID: Sample Depth(inches): Date Collected:	Residential RAL	Units	OU4-SS-16-COMP4(0-1) 0 - 1 06/15/05	OU4-SS-16-COMP4(1-6) 1 - 6 06/15/05	OU4-SS-16-COMP4(6-12) 6 - 12 06/15/05	OU4-SS-16-COMP4(12-18) 12 - 18 06/15/05
Metals - XRF (USEPA SW-846 6200)						
Arsenic	43	mg/kg	23.1 J	26.3 J	30.3 J	15.0 J
Barium	55000	mg/kg	1220 J	1800 J	999 J	319 UJ
Cadmium	390	mg/kg	39.7	73.3	48.8	39.6 U
Chromium	3900	mg/kg	116 U	126 U	114 U	121 U
Cobalt	47000	mg/kg	123 U	158 J	165 J	136 U
Copper	31000	mg/kg	51.3	47.1	38.8	27.1
Iron	230000	mg/kg	24700	29200	27100	28400
Lead	1200	mg/kg	384	460	478	323
Manganese	18000	mg/kg	536 J	629 J	734 J	751 J
Mercury	78	mg/kg	9.98 UJ	10.8 UJ	13.2 JQ	21.2 JQ
Nickel	16000	mg/kg	25.5 U	26.7 U	25.9 U	27.4 U
Selenium	3900	mg/kg	2.87 U	3.06 U	3.25 U	3.16 U
Silver	3900	mg/kg	25.0 UJ	26.3 UJ	25.5 UJ	27.7 UJ
Zinc	230000	mg/kg	2710	3120	2120	719
Metals (USEPA SW-846 6000/7000)						
Aluminum	--	mg/kg	NA	NA	NA	12900
Antimony	--	mg/kg	NA	NA	NA	6.74 U
Arsenic	43	mg/kg	NA	NA	NA	10.6
Barium	55000	mg/kg	NA	NA	NA	219
Beryllium	--	mg/kg	NA	NA	NA	1.52
Cadmium	390	mg/kg	NA	NA	NA	2.86
Calcium	--	mg/kg	NA	NA	NA	4120
Chromium	3900	mg/kg	NA	NA	NA	19.4
Cobalt	47000	mg/kg	NA	NA	NA	9.17
Copper	31000	mg/kg	NA	NA	NA	25.0
Iron	230000	mg/kg	NA	NA	NA	22200
Lead	1200	mg/kg	NA	NA	NA	226
Magnesium	--	mg/kg	NA	NA	NA	2240
Manganese	18000	mg/kg	NA	NA	NA	861
Mercury	78	mg/kg	NA	NA	NA	0.485
Nickel	16000	mg/kg	NA	NA	NA	21.0
Potassium	--	mg/kg	NA	NA	NA	2450
Selenium	3900	mg/kg	NA	NA	NA	1.12 U
Silver	3900	mg/kg	NA	NA	NA	2.25 U
Sodium	--	mg/kg	NA	NA	NA	178 J
Thallium	--	mg/kg	NA	NA	NA	1.12 U
Vanadium	--	mg/kg	NA	NA	NA	30.8
Zinc	230000	mg/kg	NA	NA	NA	567 J

Table 16A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-16 (IDPH Location S12) - Composite Samples

Sample ID: Sample Depth(inches): Date Collected:	Residential RAL	Units	OU4-SS-16-COMP5(0-1) 0 - 1 06/15/05	OU4-SS-16-COMP5(1-6) 1 - 6 06/15/05	OU4-SS-16-COMP5(6-12) 6 - 12 06/15/05	OU4-SS-16-COMP5(12-18) 12-18 06/15/05
Metals - XRF (USEPA SW-846 6200)						
Arsenic	43	mg/kg	31.9 U	22.9 J	5.85 U	4.50 U [4.42 U]
Barium	55000	mg/kg	1390 J	866 J	251 UJ	235 UJ [273 J]
Cadmium	390	mg/kg	58.5	36.4	35.2 U	35.2 U [33.7 U]
Chromium	3900	mg/kg	123 U	107 U	96.2 U	91.7 U [86.9 U]
Cobalt	47000	mg/kg	113 U	103 U	94.6 U	85.4 U [80.9 U]
Copper	31000	mg/kg	52.9	27.5	12.0 U	11.8 U [11.1 U]
Iron	230000	mg/kg	17700 U	18300 U	15400 U	11700 U [11900 U]
Lead	1200	mg/kg	2120	521	53.9	19.4 U [22.9 U]
Manganese	18000	mg/kg	345 UJ	457 J	403 J	301 UJ [349 UJ]
Mercury	78	mg/kg	12.5 UJ	9.30 UJ	7.22 UJ	6.73 U [7.06 U]
Nickel	16000	mg/kg	24.8 U	21.9 U	21.2 U	20.0 U [19.3 U]
Selenium	3900	mg/kg	4.55 U	2.89 U	2.45 U	2.25 U [2.41 U]
Silver	3900	mg/kg	29.0 UJ	24.6 UJ	24.5 UJ	24.5 UJ [23.4 UJ]
Zinc	230000	mg/kg	2840	1570	363	140 [156]
Metals (USEPA SW-846 6000/7000)						
Aluminum	--	mg/kg	8450	NA	NA	NA
Antimony	--	mg/kg	7.24 U	NA	NA	NA
Arsenic	43	mg/kg	13.1	NA	NA	NA
Barium	55000	mg/kg	3100	NA	NA	NA
Beryllium	--	mg/kg	0.548	NA	NA	NA
Cadmium	390	mg/kg	38.0	NA	NA	NA
Calcium	--	mg/kg	15900	NA	NA	NA
Chromium	3900	mg/kg	19.3	NA	NA	NA
Cobalt	47000	mg/kg	7.69	NA	NA	NA
Copper	31000	mg/kg	75.5	NA	NA	NA
Iron	230000	mg/kg	17300	NA	NA	NA
Lead	1200	mg/kg	2420	NA	NA	NA
Magnesium	--	mg/kg	8870	NA	NA	NA
Manganese	18000	mg/kg	651	NA	NA	NA
Mercury	78	mg/kg	0.137	NA	NA	NA
Nickel	16000	mg/kg	12.6	NA	NA	NA
Potassium	--	mg/kg	1450	NA	NA	NA
Selenium	3900	mg/kg	1.18 B	NA	NA	NA
Silver	3900	mg/kg	1.25 B	NA	NA	NA
Sodium	--	mg/kg	123 J	NA	NA	NA
Thallium	--	mg/kg	1.21 U	NA	NA	NA
Vanadium	--	mg/kg	24.7	NA	NA	NA
Zinc	230000	mg/kg	2400 J	NA	NA	NA

Table 16A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-16 (IDPH Location S12) - Composite Samples

Notes:

NA = Not Analyzed
RAL = Removal Action Levels: from Hazard Evaluation Handbook: A Guide to Removal Actions. October 1997. Fourth Edition. EPA 903/B-97-006.
mg/kg = milligrams per kilogram
XRF = X-Ray Fluorescence
= Values exceed Residential RAL Criteria.
J = The analyte was positively identified; however, the associated numerical value is an estimated concentration only.
U = The analyte was analyzed for but not detected.
B = The reported value was obtained from a reading less than the contract required detection limit (CRDL) but greater than or equal to the instrument detection limit (IDL).
R = The sample results are rejected.
JQ = The analyte was detected above the reported limit but below the method detection limit; therefore, the reported value should not be used for quantitative measurement.
UJ = The analyte was not detected above the reported sample detection limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.
[ ] = Field Duplicate

Table 16B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-16 (IDHP Location S12) - Discrete Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-16-01(0-1) 0 - 1 06/23/05	OU4-SS-16-01(1-6) 1 - 6 06/23/05	OU4-SS-16-01(6-12) 6 - 12 06/23/05	OU4-SS-16-02(0-1) 0 - 1 06/23/05	OU4-SS-16-02(1-6) 1 - 6 06/23/05	OU4-SS-16-02(6-12) 6 - 12 06/23/05	OU4-SS-16-03(0-1) 0 - 1 06/23/05
Metals - XRF (USEPA SW-846 6200)									
Arsenic	43	mg/kg	14.4 U	24.3 J	20.5 U	14.6 J	20.5 J	15.8 J	11.0 J
Mercury	78	mg/kg	NA	NA	NA	NA	NA	NA	NA
Metals (USEPA SW-846 6000/7000)									
Aluminum	--	mg/kg	NA	NA	NA	NA	NA	NA	NA
Antimony	--	mg/kg	NA	NA	NA	NA	NA	NA	NA
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA	NA
Barium	55000	mg/kg	NA	NA	NA	NA	NA	NA	NA
Beryllium	--	mg/kg	NA	NA	NA	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA	NA
Calcium	--	mg/kg	NA	NA	NA	NA	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA	NA	NA	NA
Magnesium	--	mg/kg	NA	NA	NA	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA	NA	NA	NA
Potassium	--	mg/kg	NA	NA	NA	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA	NA	NA	NA
Sodium	--	mg/kg	NA	NA	NA	NA	NA	NA	NA
Thallium	--	mg/kg	NA	NA	NA	NA	NA	NA	NA
Vanadium	--	mg/kg	NA	NA	NA	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA	NA	NA	NA

Table 16B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-16 (IDHP Location S12) - Discrete Samples

Sample ID: / Sample Depth(inches): / Date Collected:	Residential RAL	Units	OU4-SS-16-03(1-6) 1 - 6 06/23/05	OU4-SS-16-03(6-12) 6 - 12 06/23/05	OU4-SS-16-04(0-1) 0 - 1 06/23/05	OU4-SS-16-04(1-6) 1 - 6 06/23/05	OU4-SS-16-04(6-12) 6 - 12 06/23/05	OU4-SS-16-05(0-1) 0 - 1 06/23/05	OU4-SS-16-06(1-6) 1 - 6 06/23/05
Metals - XRF (USEPA SW-846 6200)									
Arsenic	43	mg/kg	20.4 J	6.65 J	35.0 J	25.9 J	29.7 J	17.5 J [13.1 U]	40.7 J
Mercury	78	mg/kg	NA	NA	NA	NA	NA	NA	NA
als (USEPA SW-846 6000/7000)									
Aluminum	--	mg/kg	NA	NA	NA	NA	NA	NA	NA
Antimony	--	mg/kg	NA	NA	NA	NA	NA	NA	NA
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA	NA
Barium	55000	mg/kg	NA	NA	NA	NA	NA	NA	NA
Beryllium	--	mg/kg	NA	NA	NA	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA	NA
Calcium	--	mg/kg	NA	NA	NA	NA	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA	NA	NA	NA
Magnesium	--	mg/kg	NA	NA	NA	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA	NA	NA	NA
Potassium	--	mg/kg	NA	NA	NA	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA	NA	NA	NA
Sodium	--	mg/kg	NA	NA	NA	NA	NA	NA	NA
Thallium	--	mg/kg	NA	NA	NA	NA	NA	NA	NA
Vanadium	--	mg/kg	NA	NA	NA	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA	NA	NA	NA

Table 16B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-16 (IDHP Location S12) - Discrete Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-16-05(6-12) 6 - 12 06/23/05	OU4-SS-16-06(0-1) 0 - 1 06/23/05	OU4-SS-16-06(1-6) 1 - 6 06/23/05	OU4-SS-16-06(6-12) 6 - 12 06/23/05	OU4-SS-16-06(12-18) 12 - 18 06/23/05	OU4-SS-16-07(0-1) 0 - 1 06/23/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	10.7 J	8.54 J	14.7 J	9.22 U	13.1 J	13.5 J
Mercury	78	mg/kg	NA	NA	NA	NA	NA	NA
Metals (USEPA SW-846 6000/7000)								
Aluminum	--	mg/kg	NA	NA	NA	NA	NA	NA
Antimony	--	mg/kg	NA	NA	NA	NA	NA	NA
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA
Barium	55000	mg/kg	NA	NA	NA	NA	NA	NA
Beryllium	--	mg/kg	NA	NA	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Calcium	--	mg/kg	NA	NA	NA	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA	NA	NA
Magnesium	--	mg/kg	NA	NA	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA	NA	NA
Potassium	--	mg/kg	NA	NA	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA	NA	NA
Sodium	--	mg/kg	NA	NA	NA	NA	NA	NA
Thallium	--	mg/kg	NA	NA	NA	NA	NA	NA
Vanadium	--	mg/kg	NA	NA	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA	NA	NA

Table 16B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-16 (IDHP Location S12) - Discrete Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-16-07(1-6) 1 - 6 06/23/05	OU4-SS-16-07(6-12) 6 - 12 06/23/05	OU4-SS-16-07(12-18) 12 - 18 06/23/05	OU4-SS-16-08(0-1) 0 - 1 06/23/05	OU4-SS-16-08(1-6) 1 - 6 06/23/05	OU4-SS-16-08(6-12) 6 - 12 06/23/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	22.0 J	6.95 J	7.90 U	9.45 U	12.8 U	13.0 J
Mercury	78	mg/kg	NA	NA	NA	NA	NA	NA
Metals (USEPA SW-846 6000/7000)								
Aluminum	--	mg/kg	NA	NA	NA	NA	NA	NA
Antimony	--	mg/kg	NA	NA	NA	NA	NA	NA
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA
Barium	55000	mg/kg	NA	NA	NA	NA	NA	NA
Beryllium	--	mg/kg	NA	NA	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Calcium	--	mg/kg	NA	NA	NA	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA	NA	NA
Magnesium	--	mg/kg	NA	NA	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA	NA	NA
Potassium	--	mg/kg	NA	NA	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA	NA	NA
Sodium	--	mg/kg	NA	NA	NA	NA	NA	NA
Thallium	--	mg/kg	NA	NA	NA	NA	NA	NA
Vanadium	--	mg/kg	NA	NA	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA	NA	NA

Table 16B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-16 (IDHP Location S12) - Discrete Samples

Sample ID: / Sample Depth(Inches): / Date Collected:	Residential RAL	Units	OU4-SS-16-08(12-18) 12 - 18 06/23/05	OU4-SS-16-09(0-1) 0 - 1 06/23/05	OU4-SS-16-09(1-6) 1 - 6 06/23/05	OU4-SS-16-09(6-12) 6 - 12 06/23/05	OU4-SS-16-09(12-18) 12 - 18 06/23/05	OU4-SS-16-10(0-1) 0 - 1 06/23/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	24.3 J	10.3 U	11.9 U	6.39 J	8.09 J	11.9 U
Mercury	78	mg/kg	NA	NA	NA	NA	NA	NA
Metals (USEPA SW-846 6000/7000)								
Aluminum	--	mg/kg	NA	NA	NA	NA	NA	NA
Antimony	--	mg/kg	NA	NA	NA	NA	NA	NA
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA
Barium	55000	mg/kg	NA	NA	NA	NA	NA	NA
Beryllium	--	mg/kg	NA	NA	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Calcium	--	mg/kg	NA	NA	NA	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA	NA	NA
Magnesium	--	mg/kg	NA	NA	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA	NA	NA
Potassium	--	mg/kg	NA	NA	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA	NA	NA
Sodium	--	mg/kg	NA	NA	NA	NA	NA	NA
Thallium	--	mg/kg	NA	NA	NA	NA	NA	NA
Vanadium	--	mg/kg	NA	NA	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA	NA	NA

Table 16B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-16 (IDHP Location S12) - Discrete Samples

Sample ID: Sample Depth(inches): Date Collected:	Residential RAL	Units	OU4-SS-16-10(1-6) 1 - 6 06/23/05	OU4-SS-16-10(6-12) 6 - 12 06/23/05	OU4-SS-16-10(12-18) 12 - 18 06/23/05	OU4-SS-16-11(0-1) 0 - 1 06/23/05	OU4-SS-16-11(1-6) 1 - 6 06/23/05	OU4-SS-16-11(6-12) 6 - 12 06/23/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	18.2 J [13.8 U]	7.03 U	5.72 J	15.7 U	23.2 J	14.4 J
Mercury	78	mg/kg	NA	NA	NA	NA	NA	NA
Metals (USEPA SW-846 6000/7000)								
Aluminum	--	mg/kg	NA	NA	NA	NA	NA	NA
Antimony	--	mg/kg	NA	NA	NA	NA	NA	NA
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA
Barium	55000	mg/kg	NA	NA	NA	NA	NA	NA
Beryllium	--	mg/kg	NA	NA	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Calcium	--	mg/kg	NA	NA	NA	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA	NA	NA
Magnesium	--	mg/kg	NA	NA	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA	NA	NA
Potassium	--	mg/kg	NA	NA	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA	NA	NA
Sodium	--	mg/kg	NA	NA	NA	NA	NA	NA
Thallium	--	mg/kg	NA	NA	NA	NA	NA	NA
Vanadium	--	mg/kg	NA	NA	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA	NA	NA

Table 16B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-16 (IDHP Location S12) - Discrete Samples

Sample ID: Sample Depth(inches): Date Collected:	Residential RAL	Units	OU4-SS-16-12(0-1) 0 - 1 06/23/05	OU4-SS-16-12(1-6) 1 - 6 06/23/05	OU4-SS-16-12(6-12) 6 - 12 06/23/05	OU4-SS-16-13(0-1) 0 - 1 06/23/05	OU4-SS-16-13(1-6) 1 - 6 06/23/05	OU4-SS-16-13(6-12) 6 - 12 06/23/05	OU4-SS-16-14(0-1) 0 - 1 06/23/05
Metals - XRF (USEPA SW-846 6200)									
Arsenic	43	mg/kg	14.2 U	18.5	10.0 U	10.8 U	12.2 U	8.54 J	19.2 J
Mercury	78	mg/kg	NA	NA	NA	NA	NA	NA	NA
Metals (USEPA SW-846 6000/7000)									
Aluminum	--	mg/kg	NA	NA	NA	NA	NA	NA	NA
Antimony	--	mg/kg	NA	NA	NA	NA	NA	NA	NA
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA	NA
Barium	55000	mg/kg	NA	NA	NA	NA	NA	NA	NA
Beryllium	--	mg/kg	NA	NA	NA	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA	NA
Calcium	--	mg/kg	NA	NA	NA	NA	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA	NA	NA	NA
Magnesium	--	mg/kg	NA	NA	NA	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA	NA	NA	NA
Potassium	--	mg/kg	NA	NA	NA	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA	NA	NA	NA
Sodium	--	mg/kg	NA	NA	NA	NA	NA	NA	NA
Thallium	--	mg/kg	NA	NA	NA	NA	NA	NA	NA
Vanadium	--	mg/kg	NA	NA	NA	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA	NA	NA	NA

Table 16B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-16 (IDHP Location S12) - Discrete Samples

Sample ID: Sample Depth(inches): Date Collected:	Residential RAL	Units	OU4-SS-16-14(1-6) 1 - 6 06/23/05	OU4-SS-16-14(6-12) 6 - 12 06/23/05	OU4-SS-16-15(0-1) 0 - 1 06/23/05	OU4-SS-16-15(1-6) 1 - 6 06/23/05	OU4-SS-16-15(6-12) 6 - 12 06/23/05	OU4-SS-16-16(0-1) 0 - 1 06/23/05	OU4-SS-16-16(1-6) 1 - 6 06/23/05
als - XRF (USEPA SW-846 6200)									
Arsenic	43	mg/kg	12.7 U	6.38 U	18.8 J	20.2 J [25.1 J]	55.5 J	16.7 J	22.4 J
Mercury	78	mg/kg	NA	NA	NA	NA	NA	NA	NA
Metals (USEPA SW-846 6000/7000)									
Aluminum	- -	mg/kg	NA	NA	NA	NA	NA	NA	NA
Antimony	- -	mg/kg	NA	NA	NA	NA	NA	NA	NA
Arsenic	43	mg/kg	NA	NA	NA	NA	29.9 [31.1]	NA	NA
Barium	55000	mg/kg	NA	NA	NA	NA	NA	NA	NA
Beryllium	- -	mg/kg	NA	NA	NA	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA	NA
Calcium	- -	mg/kg	NA	NA	NA	NA	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA	NA	NA	NA
Magnesium	- -	mg/kg	NA	NA	NA	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA	NA	NA	NA
Potassium	- -	mg/kg	NA	NA	NA	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA	NA	NA	NA
Sodium	- -	mg/kg	NA	NA	NA	NA	NA	NA	NA
Thallium	- -	mg/kg	NA	NA	NA	NA	NA	NA	NA
Vanadium	- -	mg/kg	NA	NA	NA	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA	NA	NA	NA

Table 16B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-16 (IDHP Location S12) - Discrete Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-16-16(6-12) 6 - 12 06/23/05	OU4-SS-16-16(12-18) 12 - 18 06/24/05	OU4-SS-16-17(0-1) 0 - 1 06/23/05	OU4-SS-16-17(1-6) 1 - 6 06/23/05	OU4-SS-16-17(6-12) 6 - 12 06/23/05	OU4-SS-16-17(12-18) 12 - 18 06/24/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	56.3	36.4 U	19.1	75.9 J	23.7 J	7.10 J
Mercury	78	mg/kg	NA	152 J	NA	NA	NA	7.42 UJ
Metals (USEPA SW-846 6000/7000)								
Aluminum	--	mg/kg	NA	NA	NA	11700	NA	NA
Antimony	--	mg/kg	NA	NA	NA	6.44 U	NA	NA
Arsenic	43	mg/kg	42.1	NA	NA	41.5	NA	NA
Barium	55000	mg/kg	NA	NA	NA	1640	NA	NA
Beryllium	--	mg/kg	NA	NA	NA	1.8	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	29.3	NA	NA
Calcium	--	mg/kg	NA	NA	NA	21000	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	19.1	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	9.63	NA	NA
Copper	31000	mg/kg	NA	NA	NA	63.5	NA	NA
Iron	230000	mg/kg	NA	NA	NA	30100	NA	NA
Lead	1200	mg/kg	NA	NA	NA	453	NA	NA
Magnesium	--	mg/kg	NA	NA	NA	6810	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	684	NA	NA
Mercury	78	mg/kg	NA	1.88	NA	0.266	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	25.7 J	NA	NA
Potassium	--	mg/kg	NA	NA	NA	2480	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	1.07 U	NA	NA
Silver	3900	mg/kg	NA	NA	NA	1.74 J	NA	NA
Sodium	--	mg/kg	NA	NA	NA	123 U	NA	NA
Thallium	--	mg/kg	NA	NA	NA	1.26	NA	NA
Vanadium	--	mg/kg	NA	NA	NA	29.6	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	2430 J	NA	NA

Table 16B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-16 (IDHP Location S12) - Discrete Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-16-18(0-1) 0 - 1 06/23/05	OU4-SS-16-18(1-6) 1 - 6 06/23/05	OU4-SS-16-18(6-12) 6 - 12 06/23/05	OU4-SS-16-18(12-18) 12 - 18 06/24/05	OU4-SS-16-19(0-1) 0 - 1 06/23/05	OU4-SS-16-19(1-6) 1 - 6 06/23/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	13.6 J	24.8 J	30.7 J	7.27 J	15.9 U	24.3
Mercury	78	mg/kg	NA	NA	NA	7.63 UJ	NA	NA
Metals (USEPA SW-846 6000/7000)								
Aluminum	--	mg/kg	NA	NA	NA	NA	NA	NA
Antimony	--	mg/kg	NA	NA	NA	NA	NA	NA
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA
Barium	55000	mg/kg	NA	NA	NA	NA	NA	NA
Beryllium	--	mg/kg	NA	NA	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Calcium	--	mg/kg	NA	NA	NA	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA	NA	NA
Magnesium	--	mg/kg	NA	NA	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA	NA	NA
Potassium	--	mg/kg	NA	NA	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA	NA	NA
Sodium	--	mg/kg	NA	NA	NA	NA	NA	NA
Thallium	--	mg/kg	NA	NA	NA	NA	NA	NA
Vanadium	--	mg/kg	NA	NA	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA	NA	NA

Table 16B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-16 (IDHP Location S12) - Discrete Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-16-19(6-12) 6 - 12 06/23/05	OU4-SS-16-19(12-18) 12 - 18 06/24/05	OU4-SS-16-20(0-1) 0 - 1 06/23/05	OU4-SS-16-20(1-6) 1 - 6 06/23/05	OU4-SS-16-20(6-12) 6 - 12 06/23/05	OU4-SS-16-20(12-18) 12 - 18 06/24/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	18.0 J	9.46 U	10.8 U	15.2 J	14.2 J	9.38 J [11.0 J]
Mercury	78	mg/kg	NA	7.96 UJ	NA	NA	NA	7.93 UJ [8.08 UJ]
Metals (USEPA SW-846 6000/7000)								
Aluminum	--	mg/kg	NA	NA	NA	NA	NA	NA
Antimony	--	mg/kg	NA	NA	NA	NA	NA	NA
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA
Barium	55000	mg/kg	NA	NA	NA	NA	NA	NA
Beryllium	--	mg/kg	NA	NA	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA
Calcium	--	mg/kg	NA	NA	NA	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA	NA	NA
Magnesium	--	mg/kg	NA	NA	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA	NA	NA
Potassium	--	mg/kg	NA	NA	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA	NA	NA
Sodium	--	mg/kg	NA	NA	NA	NA	NA	NA
Thallium	--	mg/kg	NA	NA	NA	NA	NA	NA
Vanadium	--	mg/kg	NA	NA	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA	NA	NA

Table 16B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-16 (IDHP Location S12) - Discrete Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-16-21(0-1) 0 - 1 06/23/05	OU4-SS-16-21(1-6) 1 - 6 06/23/05	OU4-SS-16-22(0-1) 0 - 1 06/23/05	OU4-SS-16-22(1-6) 1 - 6 06/23/05	OU4-SS-16-23(0-1) 0 - 1 06/23/05	OU4-SS-16-23(1-6) 1 - 6 06/23/05	OU4-SS-16-24(0-1) 0 - 1 06/23/05
Metals - XRF (USEPA SW-846 6200)									
Arsenic	43	mg/kg	160 J	25.7 J	34.7	29.6 J	11.2 U	9.47 J	13.2 U [14.5 U]
Mercury	78	mg/kg	NA	NA	NA	NA	NA	NA	NA
Metals (USEPA SW-846 6000/7000)									
Aluminum	--	mg/kg	NA	NA	NA	NA	NA	NA	NA
Antimony	--	mg/kg	NA	NA	NA	NA	NA	NA	NA
Arsenic	43	mg/kg	18.6	NA	NA	NA	NA	NA	NA
Barium	55000	mg/kg	NA	NA	NA	NA	NA	NA	NA
Beryllium	--	mg/kg	NA	NA	NA	NA	NA	NA	NA
Cadmium	390	mg/kg	NA	NA	NA	NA	NA	NA	NA
Calcium	--	mg/kg	NA	NA	NA	NA	NA	NA	NA
Chromium	3900	mg/kg	NA	NA	NA	NA	NA	NA	NA
Cobalt	47000	mg/kg	NA	NA	NA	NA	NA	NA	NA
Copper	31000	mg/kg	NA	NA	NA	NA	NA	NA	NA
Iron	230000	mg/kg	NA	NA	NA	NA	NA	NA	NA
Lead	1200	mg/kg	NA	NA	NA	NA	NA	NA	NA
Magnesium	--	mg/kg	NA	NA	NA	NA	NA	NA	NA
Manganese	18000	mg/kg	NA	NA	NA	NA	NA	NA	NA
Mercury	78	mg/kg	NA	NA	NA	NA	NA	NA	NA
Nickel	16000	mg/kg	NA	NA	NA	NA	NA	NA	NA
Potassium	--	mg/kg	NA	NA	NA	NA	NA	NA	NA
Selenium	3900	mg/kg	NA	NA	NA	NA	NA	NA	NA
Silver	3900	mg/kg	NA	NA	NA	NA	NA	NA	NA
Sodium	--	mg/kg	NA	NA	NA	NA	NA	NA	NA
Thallium	--	mg/kg	NA	NA	NA	NA	NA	NA	NA
Vanadium	--	mg/kg	NA	NA	NA	NA	NA	NA	NA
Zinc	230000	mg/kg	NA	NA	NA	NA	NA	NA	NA

Table 16B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-16 (IDHP Location S12) - Discrete Samples

Sample ID: Sample Depth(inches): Date Collected:	Residential RAL	Units	OU4-SS-16-24(1-6) 1 - 6 06/23/05
Metals - XRF (USEPA SW-846 6200)			
Arsenic	43	mg/kg	17.9 U
Mercury	78	mg/kg	NA
Metals (USEPA SW-846 6000/7000)			
Aluminum	- -	mg/kg	NA
Antimony	- -	mg/kg	NA
Arsenic	43	mg/kg	NA
Barium	55000	mg/kg	NA
Beryllium	- -	mg/kg	NA
Cadmium	390	mg/kg	NA
Calcium	- -	mg/kg	NA
Chromium	3900	mg/kg	NA
Cobalt	47000	mg/kg	NA
Copper	31000	mg/kg	NA
Iron	230000	mg/kg	NA
Lead	1200	mg/kg	NA
Magnesium	- -	mg/kg	NA
Manganese	18000	mg/kg	NA
Mercury	78	mg/kg	NA
Nickel	16000	mg/kg	NA
Potassium	- -	mg/kg	NA
Selenium	3900	mg/kg	NA
Silver	3900	mg/kg	NA
Sodium	- -	mg/kg	NA
Thallium	- -	mg/kg	NA
Vanadium	- -	mg/kg	NA
Zinc	230000	mg/kg	NA

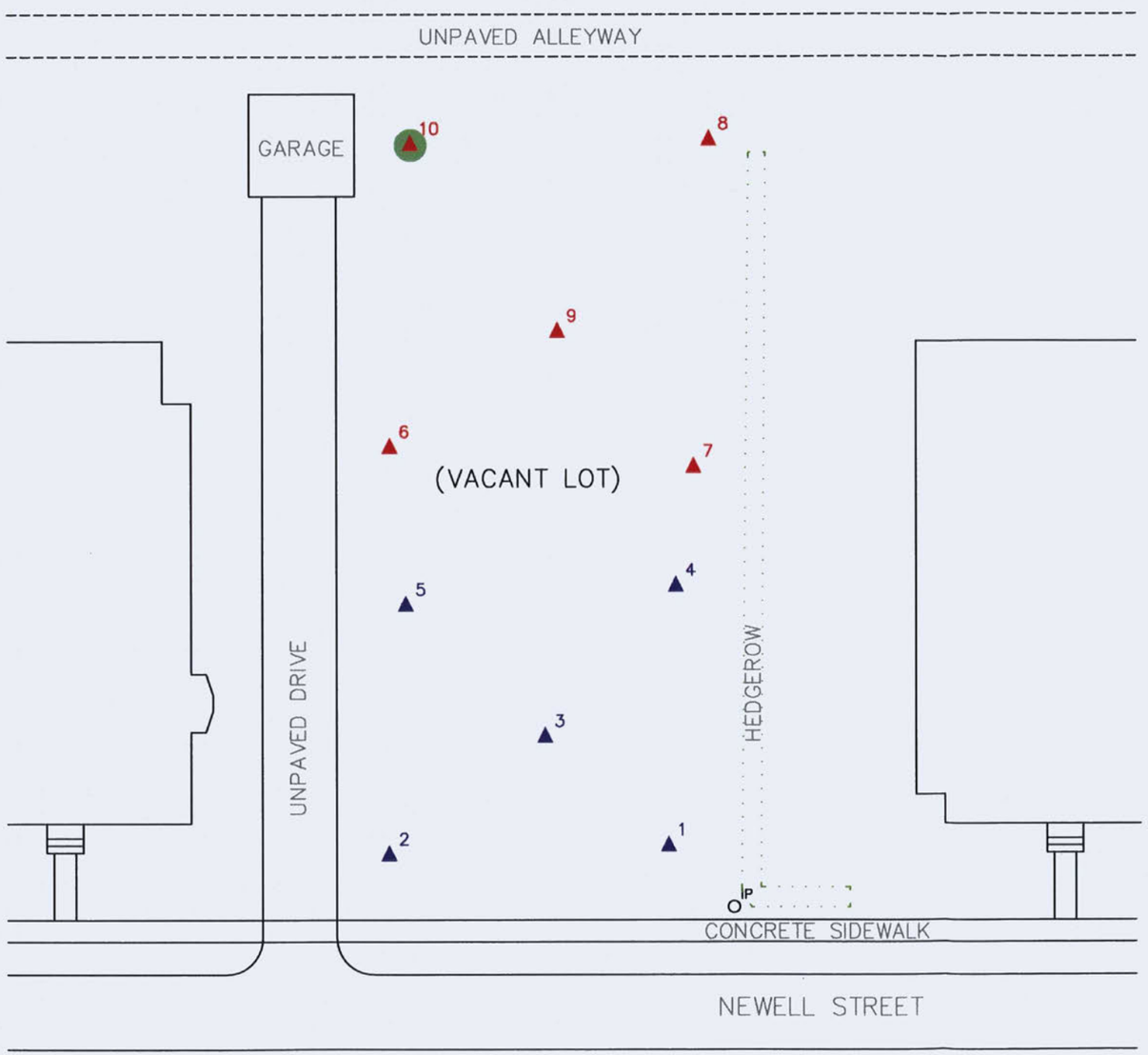
Table 16B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-16 (IDHP Location S12) - Discrete Samples

Notes:

NA = Not Analyzed
RAL = Removal Action Levels: from Hazard Evaluation Handbook: A Guide to Removal Actions. October 1997. Fourth Edition. EPA 903/B-97-006.
mg/kg = milligrams per kilogram
XRF = X-Ray Fluorescence
= Values exceed Residential RAL Criteria.
J = The analyte was positively identified; however, the associated numerical value is an estimated concentration only.
U = The analyte was analyzed for but not detected.
B = The reported value was obtained from a reading less than the contract required detection limit (CRDL) but greater than or equal to the instrument detection limit (IDL).
R = The sample results are rejected.
JQ = The analyte was detected above the reported limit but below the method detection limit; therefore, the reported value should not be used for quantitative measurement.
UJ = The analyte was not detected above the reported sample detection limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.
[ ] = Field Duplicate



SAMPLE LOCATION:

- COMPOSITE 1 (SIDE YARD)
- COMPOSITE 2 (SIDE YARD)
- IDPH SAMPLE LOCATION

LEGEND:

- BUILDING
- PLANTER
- PAVEMENT
- ALLEYWAY
- PROPERTY LINE
- DECIDUOUS TREE
- EVERGREEN TREE
- SHRUB
- SHRUB/PLANTER
- STUMP
- GAS METER
- POWER POLE
- ANTENNA TOWER
- CLOTHESLINE POLE
- FENCE
- IRON PIPE

NOTES:

1. THIS DRAWING DIGITIZED FROM FIELD SKETCH DATED JUNE 16, 2005, DRAWN BY BBL PERSONNEL
2. SAMPLE LOCATION FROM GPS BBL SURVEY.
3. TREES AND STRUCTURES ARE APPROXIMATE.

DRAWING SOURCE: REVISED REMOVAL ACTION LIMIT ASSESSMENT REPORT FIGURE 11, DRAFTED BY BBL.

ENVIRON

SAMPLE LOCATION SS-17
(IDPH LOCATION W06)
REMOVAL ACTION LIMIT ASSESSMENT REPORT
DEPUE SITE
DEPUE, ILLINOIS

DATE:	CONTRACT NUMBER:		FIGURE
5/20/10	21-12046C		17
DRAFTER: APR	APPROVED:	REVISED:	

R:\Client Project Files\CBS - NJ Zinc_21-12046C\FINAL RAL Assessment Report_May 2010\Figures\17A & 11B.dwg

Table 17A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-17 (IDPH Location W06) - Composite Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-17-COMP1(0-1) 0 - 1 06/16/05	OU4-SS-17-COMP1(1-6) 1 - 6 06/16/05	OU4-SS-17-COMP1(6-12) 6 - 12 06/16/05	OU4-SS-17-COMP1(12-18) 12 - 18 06/16/05
Metals - XRF (USEPA SW-846 6200)						
Arsenic	43	mg/kg	21.8 J	15.7 J	12.0 J	9.57 J
Barium	55000	mg/kg	1520 J	2470 J	828 J	326 J
Cadmium	390	mg/kg	36.2 U	60.9	35.5 U	35.7 U
Chromium	3900	mg/kg	111 U	165 J	103 U	104 U
Cobalt	47000	mg/kg	109 U	120 U	98.5 U	110 U
Copper	31000	mg/kg	34.2 J	39.4 J	15.2 J	13.4 U
Iron	230000	mg/kg	19100 U	20400 U	16600 U	19800 U
Lead	1200	mg/kg	315 J	473 J	160 J	164 J
Manganese	18000	mg/kg	529 UJ	627 UJ	415 UJ	841 J
Mercury	78	mg/kg	9.16 UJ	10.8 UJ	8.22 UJ	8.63 UJ
Nickel	16000	mg/kg	23.8 U	25.7 U	21.6 U	23.0 U
Selenium	3900	mg/kg	2.89 U	3.41 U	2.64 U	2.68 U
Silver	3900	mg/kg	25.5 U	28.2 U	24.8 U	25.2 U
Zinc	230000	mg/kg	2180	2950	1190	1630
Metals (USEPA SW-846 6000/7000)						
Aluminum	--	mg/kg	NA	10300	NA	NA
Antimony	--	mg/kg	NA	6.63 U	NA	NA
Arsenic	43	mg/kg	NA	12.4	NA	NA
Barium	55000	mg/kg	NA	4890	NA	NA
Beryllium	--	mg/kg	NA	0.733	NA	NA
Cadmium	390	mg/kg	NA	23.7	NA	NA
Calcium	--	mg/kg	NA	29300	NA	NA
Chromium	3900	mg/kg	NA	22.7	NA	NA
Cobalt	47000	mg/kg	NA	7.84	NA	NA
Copper	31000	mg/kg	NA	46.8	NA	NA
Iron	230000	mg/kg	NA	17000	NA	NA
Lead	1200	mg/kg	NA	391	NA	NA
Magnesium	--	mg/kg	NA	14800	NA	NA
Manganese	18000	mg/kg	NA	589	NA	NA
Mercury	78	mg/kg	NA	0.275	NA	NA
Nickel	16000	mg/kg	NA	17.4	NA	NA
Potassium	--	mg/kg	NA	2570	NA	NA
Selenium	3900	mg/kg	NA	1.10 U	NA	NA
Silver	3900	mg/kg	NA	0.896 B	NA	NA
Sodium	--	mg/kg	NA	85.6 J	NA	NA
Thallium	--	mg/kg	NA	1.10 U	NA	NA
Vanadium	--	mg/kg	NA	24.4	NA	NA
Zinc	230000	mg/kg	NA	2160 J	NA	NA

Table 17A

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-17 (IDPH Location W06) - Composite Samples

Sample ID: Sample Depth(inches): Date Collected:	Residential RAL	Units	OU4-SS-17-COMP2(0-1) 0 - 1 06/16/05	OU4-SS-17-COMP2(1-6) 1 - 6 06/16/05	OU4-SS-17-COMP2(6-12) 6 - 12 06/16/05	OU4-SS-17-COMP2(12-18) 12 - 18 06/16/05
Metals - XRF (USEPA SW-846 6200)						
Arsenic	43	mg/kg	21.0 J	25.6 J	9.85 U	20.2 J
Barium	55000	mg/kg	1080 J	1150 J	768 J	687 J
Cadmium	390	mg/kg	52.1	58.4	35.7 U	57.9
Chromium	3900	mg/kg	113 U	121 U	98.9 U	101 U
Cobalt	47000	mg/kg	120 U	126 U	96.9 U	103 U
Copper	31000	mg/kg	33.4 J	37.6 J	26.4 J	36.2 J
Iron	230000	mg/kg	24300	24600	15600 U	17700 U
Lead	1200	mg/kg	296 J	375 J	199 J	171 J
Manganese	18000	mg/kg	504 UJ	585 UJ	451 UJ	576 UJ
Mercury	78	mg/kg	9.74 UJ	10.4 UJ	9.19 UJ	9.03 UJ
Nickel	16000	mg/kg	24.5 U	25.9 U	21.3 U	20.9 U
Selenium	3900	mg/kg	2.80 U	3.00 U	2.56 U	2.62 U
Silver	3900	mg/kg	25.0 U	27.1 U	24.9 U	24.6 U
Zinc	230000	mg/kg	2430	2810	1390	1350
Metals (USEPA SW-846 6000/7000)						
Aluminum	--	mg/kg	NA	8930	NA	NA
Antimony	--	mg/kg	NA	6.38 U	NA	NA
Arsenic	43	mg/kg	NA	16.1	NA	NA
Barium	55000	mg/kg	NA	1830	NA	NA
Beryllium	--	mg/kg	NA	0.816	NA	NA
Cadmium	390	mg/kg	NA	19.8	NA	NA
Calcium	--	mg/kg	NA	19000	NA	NA
Chromium	3900	mg/kg	NA	20.0	NA	NA
Cobalt	47000	mg/kg	NA	6.86	NA	NA
Copper	31000	mg/kg	NA	47.0	NA	NA
Iron	230000	mg/kg	NA	19200	NA	NA
Lead	1200	mg/kg	NA	269	NA	NA
Magnesium	--	mg/kg	NA	9800	NA	NA
Manganese	18000	mg/kg	NA	542	NA	NA
Mercury	78	mg/kg	NA	0.101 B	NA	NA
Nickel	16000	mg/kg	NA	20.2	NA	NA
Potassium	--	mg/kg	NA	1800	NA	NA
Selenium	3900	mg/kg	NA	1.06 U	NA	NA
Silver	3900	mg/kg	NA	0.648 B	NA	NA
Sodium	--	mg/kg	NA	94.1 J	NA	NA
Thallium	--	mg/kg	NA	1.06 U	NA	NA
Vanadium	--	mg/kg	NA	23.4	NA	NA
Zinc	230000	mg/kg	NA	2030 J	NA	NA

Non-responsive

Table 17B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-17 (IDHP Location W06) - Discrete Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-17-01(0-1) 0 - 1 06/23/05	OU4-SS-17-01(1-6) 1 - 6 06/23/05	OU4-SS-17-01(6-12) 6 - 12 06/23/05	OU4-SS-17-01(12-18) 12 - 18 06/23/05	OU4-SS-17-02(0-1) 0 - 1 06/23/05	OU4-SS-17-02(1-6) 1 - 6 06/23/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	16.7 U	31.4	11.1 U	5.54 U	8.07 U	6.20 U
Metals (USEPA SW-846 6000/7000)								
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-17-02(6-12) 6 - 12 06/23/05	OU4-SS-17-02(12-18) 12 - 18 06/23/05	OU4-SS-17-03(0-1) 0 - 1 06/23/05	OU4-SS-17-03(1-6) 1 - 6 06/23/05	OU4-SS-17-03(6-12) 6 - 12 06/23/05	OU4-SS-17-03(12-18) 12 - 18 06/23/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	5.50 U	4.49 U	10.7 J	9.00 U	9.36 U	37.6 J
Metals (USEPA SW-846 6000/7000)								
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-17-04(0-1) 0 - 1 06/23/05	OU4-SS-17-04(1-6) 1 - 6 06/23/05	OU4-SS-17-04(6-12) 6 - 12 06/23/05	OU4-SS-17-04(12-18) 12 - 18 06/23/05	OU4-SS-17-05(0-1) 0 - 1 06/23/05	OU4-SS-17-05(1-6) 1 - 6 06/23/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	10.8 J	8.98	9.36 U	16.1 U	14.7 U	37.1 J [33.9 J]
Metals (USEPA SW-846 6000/7000)								
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-17-05(6-12) 6 - 12 06/23/05	OU4-SS-17-05(12-18) 12 - 18 06/23/05	OU4-SS-17-06(0-1) 0 - 1 06/23/05	OU4-SS-17-06(1-6) 1 - 6 06/23/05	OU4-SS-17-06(6-12) 6 - 12 06/23/05	OU4-SS-17-06(12-18) 12 - 18 06/23/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	11.9 U	8.61 U	9.00 U	14.4 U	25.1 J	18.3 U
Metals (USEPA SW-846 6000/7000)								
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-17-07(0-1) 0 - 1 06/23/05	OU4-SS-17-07(1-6) 1 - 6 06/23/05	OU4-SS-17-07(6-12) 6 - 12 06/23/05	OU4-SS-17-07(12-18) 12 - 18 06/23/05	OU4-SS-17-08(0-1) 0 - 1 06/23/05	OU4-SS-17-08(1-6) 1 - 6 06/23/05
Metals - XRF (USEPA SW-846 6200)								
Arsenic	43	mg/kg	9.99 U	17.3 U	8.35 U	4.93 U	40.8 J	37.2 J
Metals (USEPA SW-846 6000/7000)								
Arsenic	43	mg/kg	NA	NA	NA	NA	NA	NA

Table 17B

New Jersey Zinc/Mobil Chemical Site
DePue, Illinois
Removal Action Limit Assessment Report

Soil Sample Analytical Results for Property SS-17 (IDHP Location W06) - Discrete Samples

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-17-08(6-12) 6 - 12 06/23/05	OU4-SS-17-08(12-18) 12 - 18 06/23/05	OU4-SS-17-09(0-1) 0 - 1 06/23/05	OU4-SS-17-09(1-6) 1 - 6 06/23/05	OU4-SS-17-09(6-12) 6 - 12 06/23/05
Metals - XRF (USEPA SW-846 6200)							
Arsenic	43	mg/kg	4.65 U	11.0 U	19.4 U	23.0 J	12.2 U
Metals (USEPA SW-846 6000/7000)							
Arsenic	43	mg/kg	NA	NA	NA	NA	NA

Sample ID: Sample Depth(Inches): Date Collected:	Residential RAL	Units	OU4-SS-17-09(12-18) 12 - 18 06/23/05	OU4-SS-17-10(0-1) 0 - 1 06/23/05	OU4-SS-17-10(1-6) 1 - 6 06/23/05	OU4-SS-17-10(6-12) 6 - 12 06/23/05	OU4-SS-17-10(12-18) 12 - 18 06/23/05
Metals - XRF (USEPA SW-846 6200)							
Arsenic	43	mg/kg	7.15 U	15.5 J [15.6 J]	17.5 U	40.7 J	88.2 J [101 J]
Metals (USEPA SW-846 6000/7000)							
Arsenic	43	mg/kg	NA	NA	NA	NA	78.5 J

Notes:

NA = Not Analyzed
RAL = Removal Action Levels: from Hazard Evaluation Handbook: A Guide to Removal Actions. October 1997. Fourth Edition. EPA 903/B-97-006.
mg/kg = milligrams per kilogram
XRF = X-Ray Fluorescence
= Values exceed Residential RAL Criteria.
J = The analyte was positively identified; however, the associated numerical value is an estimated concentration only.
U = The analyte was analyzed for but not detected.
B = The reported value was obtained from a reading less than the contract required detection limit (CRDL) but greater than or equal to the instrument detection limit (IDL).
R = The sample results are rejected.
JQ = The analyte was detected above the reported limit but below the method detection limit; therefore, the reported value should not be used for quantitative measurement.
UJ = The analyte was not detected above the reported sample detection limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.
[ ] = Field Duplicate

APPENDIX C

APPENDIX C

Appendix C

Field Sample Descriptions

Appendix C

Composites and Discretes

New Jersey Zinc/Mobil Chemical
DePue, Illinois

Property Location	IDPH Property Identification	Sample Name	Description	Soil Description
SS-01	W11	OU4-SS-01-COMP1(0-1)		
SS-01	W11	OU4-SS-01-01(0-1)	Front Yard	Brown Silt, Little F. Sand, Trace Organics Roots/Grass
SS-01	W11	OU4-SS-01-02(0-1)	Front Yard	Brown Silt, Little F.M. Sand, Trace Roots/Grass
SS-01	W11	OU4-SS-01-03(0-1)	Side Yard	Brown Silt, Little F.M. Sand, Trace Roots/Grass
SS-01	W11	OU4-SS-01-04(0-1)	Side Yard	Brown Silt, Little F.M. Sand, Trace Roots/Grass
SS-01	W11	OU4-SS-01-05(0-1)	Side Yard	Brown Silt, Little F.M. Sand, Trace Roots/Clay
SS-01	W11	OU4-SS-01-COMP1(1-6)		
SS-01	W11	OU4-SS-01-01(1-6)	Front Yard	Brown Silt, Little F. Sand, Trace Organics Roots/Grass
SS-01	W11	OU4-SS-01-02(1-6)	Front Yard	Brown Silt, F.C. Sand, Little M. Sand, Trace Roots/Grass
SS-01	W11	OU4-SS-01-03(1-6)	Side Yard	Brown Silt, Little F.M. C. Sand, Trace Roots/Grass, Trace Clay
SS-01	W11	OU4-SS-01-04(1-6)	Side Yard	Brown Silt/F.M. Sand, Little Silt/Clay, Trace Roots/Grass
SS-01	W11	OU4-SS-01-05(1-6)	Side Yard	Brown Silt/F.M. Sand, Trace Silt/Roots/Clay
SS-01	W11	OU4-SS-01-05(1-6)-DUP	Side Yard	Brown Silt/F.M. Sand, Trace Silt/Roots/Clay
SS-01	W11	OU4-SS-01-COMP1(12-18)		
SS-01	W11	OU4-SS-01-01(12-18)	Front Yard	Brown Silt, Little F. Sand, Trace Organics, Roots/Grass
SS-01	W11	OU4-SS-01-02 (12-18)	Front Yard	Brown/Orange F.C. Sand, Some Silt
SS-01	W11	OU4-SS-01-03(12-18)	Side Yard	Brown/Orange F. C. Sand, Some Silt, Little Clay
SS-01	W11	OU4-SS-01-04(12-18)	Side Yard	Brown F.M. Sand/Silty Clay
SS-01	W11	OU4-SS-01-05(12-18)	Side Yard	Brown Orange Silty Clay, Trace F. M. Sand
SS-01	W11	OU4-SS-01-COMP1(6-12)		
SS-01	W11	OU4-SS-01-01(6-12)	Front Yard	Brown Silt, Little F. Sand, Trace Organics, Roots/Grass
SS-01	W11	OU4-SS-01-02 (6-12)	Front Yard	Brown F. C. Sand
SS-01	W11	OU4-SS-01-03(6-12)	Side Yard	Brown Silt, Little F.C. Sand, Trace Clay
SS-01	W11	OU4-SS-01-04(6-12)	Side Yard	Brown F.M. Sand, Little Silt/Clay
SS-01	W11	OU4-SS-01-05(6-12)	Side Yard	Brown F.M. Sand/Brown Orange Silty Clay
SS-01	W11	OU4-SS-01-COMP2(0-1)		
SS-01	W11	OU4-SS-01-06(0-1)	Back Yard	Brown F.M. Sand, Little Silt, Trace Roots
SS-01	W11	OU4-SS-01-07(0-1)	Back Yard	Brown F. M. Sand, Little Silt, Trace Roots
SS-01	W11	OU4-SS-01-08(0-1)	Back Yard	Brown F. M. Sand, Little Silt, Trace Roots
SS-01	W11	OU4-SS-01-09(0-1)	Back Yard	Brown F. M. Sand, Little Silt, Trace Roots
SS-01	W11	OU4-SS-01-10(0-1)	Back Yard	Brown F. M. Sand, Little Silt, Trace Roots
SS-01	W11	OU4-SS-01-COMP2(1-6)		
SS-01	W11	OU4-SS-01-06(1-6)	Back Yard	Brown/Black F. Sand, Trace Roots/C. Sand/ Silt
SS-01	W11	OU4-SS-01-07(1-6)	Back Yard	Brown/Black F. Sand, Trace Roots
SS-01	W11	OU4-SS-01-08(1-6)	Back Yard	Brown F. M. Sand, Little Silt, Trace Roots/Wood
SS-01	W11	OU4-SS-01-09(1-6)	Back Yard	Brown F. M. Sand, Little Silt, Trace Roots
SS-01	W11	OU4-SS-01-10(1-6)	Back Yard	Brown F. M. Sand, Little Silt, Trace Roots
SS-01	W11	OU4-SS-01-COMP2(12-18)		
SS-01	W11	OU4-SS-01-06(12-18)	Back Yard	Brown F. M. Sand, Trace Roots/Silt
SS-01	W11	OU4-SS-01-07(12-18)	Back Yard	Brown F. M. Sand, Little Silt/Clay, Trace Roots
SS-01	W11	OU4-SS-01-08(12-18)	Back Yard	Orange/Brown F. M. Sand, Some F. Gravel, Little Silt, Trace Roots/Wood
SS-01	W11	OU4-SS-01-09(12-18)	Back Yard	Orange Brown F. M. Sand, Trace Roots/F. Gravel
SS-01	W11	OU4-SS-01-10(12-18)	Back Yard	Orange/Brown F. Sand, Some Silt/Clay, Trace Roots/F. Gravel
SS-01	W11	OU4-SS-01-COMP2(6-12)		
SS-01	W11	OU4-SS-01-06(6-12)	Back Yard	Brown F. M. Sand, Trace Roots/Silt
SS-01	W11	OU4-SS-01-07(6-12)	Back Yard	Brown/Black F. Sand, Trace Roots
SS-01	W11	OU4-SS-01-08(6-12)	Back Yard	Brown F. Sand, Little Silt, Trace Roots/Wood
SS-01	W11	OU4-SS-01-09(6-12)	Back Yard	Brown F. Sand, Trace Roots
SS-01	W11	OU4-SS-01-10(6-12)	Back Yard	Brown F. M. Sand, Little Silt, Trace Roots/F. Gravel
SS-01	W11	OU4-SS-01-COMP3(0-1)		
SS-01	W11	OU4-SS-01-11(0-1)	Back Yard	Brown F. M. Sand, Some Silt, Trace Roots/Grass
SS-01	W11	OU4-SS-01-12(0-1)	Back Yard	Brown F. M. Sand, Some Silt, Trace Roots/ F. Gravel
SS-01	W11	OU4-SS-01-13(0-1)	Side Yard	Brown Silt, Some F. M. Sand, Trace Roots/Wood
SS-01	W11	OU4-SS-01-14(0-1)	Side Yard	Brown F. M. Sand, Little Silt, Trace Roots/F. Gravel
SS-01	W11	OU4-SS-01-15(0-1)	Side Yard	Brown F. M. Sand, Little Silt, Trace Roots/Coal
SS-01	W11	OU4-SS-01-15(0-1)-DUP	Side Yard	Brown F. M. Sand, Little Silt, Trace Roots/Coal
SS-01	W11	OU4-SS-01-COMP3(1-6)		
SS-01	W11	OU4-SS-01-11(1-6)	Side Yard	Brown F. M. Sand, Some Silt, Trace Roots/Grass
SS-01	W11	OU4-SS-01-12(1-6)	Side Yard	Brown F. M. Sand, Some Silt, Trace Roots/ F. Gravel
SS-01	W11	OU4-SS-01-13(1-6)	Side Yard	Brown Silt, Some F. M. Sand, Trace Roots/Wood
SS-01	W11	OU4-SS-01-14(1-6)	Side Yard	Brown F. M. Sand, Little Silt, Trace Roots/F. Gravel
SS-01	W11	OU4-SS-01-15(1-6)	Side Yard	Brown F. M. Sand, Little Silt, Trace Roots/Coal
SS-01	W11	OU4-SS-01-15(1-6)-DUP	Side Yard	Brown F. M. Sand, Little Silt, Trace Roots/Coal

Appendix C

Composites and Discretes

New Jersey Zinc/Mobil Chemical
DePue, Illinois

Property Location	IDPH Property Identification	Sample Name	Description	Soil Description
SS-01	W11	OU4-SS-01-COMP3(12-18)		
SS-01	W11	OU4-SS-01-11(12-18)	Side Yard	Brown F. M. Sand, Trace Roots/Grass/ F. Gravel
SS-01	W11	OU4-SS-01-12(12-18)	Side Yard	Gray/Brown F. M. Sand, Little Silt/Clay, Trace F. Gravel
SS-01	W11	OU4-SS-01-13(12-18)	Side Yard	Brown/Black F.M. Sand, Some Silt, Trace Roots/Brick/Coal
SS-01	W11	OU4-SS-01-14(12-18)	Side Yard	Brown/Orange/Black F. M. Sand, Little Gravel, Trace Brick/Coal
SS-01	W11	OU4-SS-01-15(12-18)	Side Yard	Brown F. M. Sand, Little Silt, Trace Roots/Coal
SS-01	W11	OU4-SS-01-COMP3(6-12)		
SS-01	W11	OU4-SS-01-11(6-12)	Side Yard	Brown F. M. Sand, Some Silt, Trace Roots/Grass/F. Gravel
SS-01	W11	OU4-SS-DUP-1	Side Yard	Brown F. M. Sand, Some Silt, Trace Roots/Grass/F. Gravel
SS-01	W11	OU4-SS-01-12(6-12)	Side Yard	Brown F. M. Sand, Some Silt, Trace Roots/F. Gravel
SS-01	W11	OU4-SS-01-13(6-12)	Side Yard	Orange/Brown/Black F.M. Sand/Silt, Trace Roots/Wood/Brick/Coal
SS-01	W11	OU4-SS-01-14(6-12)	Side Yard	Brown F. M. Sand, Little C. Sand/F. Gravel
SS-01	W11	OU4-SS-01-15(6-12)	Side Yard	Brown F. M. Sand, Little Silt, Trace Roots/Coal
SS-01	W11	OU4-SS-01-COMP4(0-1)		
SS-01	W11	OU4-SS-01-16(0-1)	Side Yard	Brown F. M. Sand, Little Silt, Trace Roots/Grass/Slag Material
SS-01	W11	OU4-SS-01-17(0-1)	Side Yard	Brown F. M. Sand, Some Silt, Trace F. Gravel
SS-01	W11	OU4-SS-01-18(0-1)	Side Yard	Brown F. M. Sand, Little Silt, Trace Roots
SS-01	W11	OU4-SS-01-19(0-1)	Front/Side Yard	Brown F. M. Sand, Little Silt, Trace Roots
SS-01	W11	OU4-SS-01-20(0-1)	Front Yard	Brown F. M. Sand, Little Silt, Trace Roots
SS-01	W11	OU4-SS-01-COMP4(1-6)		
SS-01	W11	OU4-SS-01-16(1-6)	Side Yard	Brown F. M. Sand, Little Silt, Trace Roots/Grass/Slag Material
SS-01	W11	OU4-SS-01-17(1-6)	Side Yard	Brown F. M. Sand, Some Silt, Trace F. Gravel
SS-01	W11	OU4-SS-01-18(1-6)	Side Yard	Gray/Brown Silt, Some F. M. Sand, Trace Roots
SS-01	W11	OU4-SS-01-19(1-6)	Front/Side Yard	Orange/Brown F. M. Sand, Some Silt, Trace Clay
SS-01	W11	OU4-SS-01-20(1-6)	Front Yard	Dark Brown Silt, Some F. M. Sand, Little C. Sand, Trace F. Gravel
SS-01	W11	OU4-SS-01-20(1-6)-DUP	Front Yard	Dark Brown Silt, Some F. M. Sand, Little C. Sand, Trace F. Gravel
SS-01	W11	OU4-SS-01-COMP4(12-18)		
SS-01	W11	OU4-SS-01-16(12-18)	Side Yard	Brown F.M. Sand Little Silt, F. Gravel
SS-01	W11	OU4-SS-DUP-2	Side Yard	Brown F.M. Sand Little Silt, F. Gravel
SS-01	W11	OU4-SS-01-17(12-18)	Side Yard	Orange/Brown Silt, Some F. M. Sand, Trace Roots/Wood/Orange Compacted Silt
SS-01	W11	OU4-SS-01-18(12-18)	Side Yard	Orange/Brown Silt Clay, Trace F. M. Sand/F. Gravel
SS-01	W11	OU4-SS-01-19(12-18)	Front/Side Yard	Orange/Dark Brown, F.M. Sand/Silt Clay
SS-01	W11	OU4-SS-01-20(12-18)	Front Yard	Dark Brown Silt, Some F. M. Sand, Little C. Sand, Trace F. Gravel
SS-01	W11	OU4-SS-01-COMP4(6-12)		
SS-01	W11	OU4-SS-01-16(6-12)	Side Yard	Brown F. M. Sand, Little Silt, Trace F. Gravel/Slag Like Material
SS-01	W11	OU4-SS-01-17(6-12)	Side Yard	Brown Silt, Little F.M. Sand, Trace Roots
SS-01	W11	OU4-SS-01-18(6-12)	Side Yard	Brown F. M. Sand, Some Silt, Trace Roots
SS-01	W11	OU4-SS-01-19(6-12)	Front/Side Yard	Orange Brown F. M. Sand, Some Silt, Trace Clay
SS-01	W11	OU4-SS-01-20(6-12)	Front Yard	Dark/Brown Silt, Some F. M. Sand, Little C. Sand, Trace F. Gravel
SS-01	W11	OU4-SS-01-COMP5(0-1)		
SS-01	W11	OU4-SS-01-21(0-1)	Drip Zone	Brown/Black Silt, Some F.M. Sand, Trace Roots
SS-01	W11	OU4-SS-01-22(0-1)	Drip Zone	Brown F.M. Sand , Little Silt, Trace Roots
SS-01	W11	OU4-SS-01-23(0-1)	Drip Zone	Brown F.M. Sand, Some Silt, Trace Roots/F. Gravel
SS-01	W11	OU4-SS-01-24(0-1)	Drip Zone	Brown F.M. Sand, Some Silt, Little C. Sand/F. Gravel, Trace Roots
SS-01	W11	OU4-SS-01-COMP5(1-6)		
SS-01	W11	OU4-SS-01-21(1-6)	Drip Zone	Brown/Black Silt, Some F. M. Sand, Trace Roots
SS-01	W11	OU4-SS-01-22(1-6)	Drip Zone	Brown F. M. Sand, Little Silt, Trace Roots
SS-01	W11	OU4-SS-01-23(1-6)	Drip Zone	Brown F. M. Sand, Some Silt, Trace Roots/F. Gravel
SS-01	W11	OU4-SS-01-24(1-6)	Drip Zone	Brown F. M. Sand, Some Silt, Little C. Sand/F. Gravel, Trace Roots
SS-01	W11	OU4-SS-01-COMP5(12-18)		
SS-01	W11	OU4-SS-01-21(12-18)	Drip Zone	Orange Brown Silt, Little Clay, Trace F.M. Sand/F. Gravel
SS-01	W11	OU4-SS-01-22(12-18)	Drip Zone	Orange Brown Silt, Little Clay, Trace F. Gravel
SS-01	W11	OU4-SS-01-23(12-18)	Drip Zone	Orange Brown Silt, Some Clay, Little F.M. Sand, Trace F. Gravel/Brick
SS-01	W11	OU4-SS-01-24(12-18)	Drip Zone	Orange Brown F. M. C. Sand, Some Silt, Little F. Gravel, Trace Roots
SS-01	W11	OU4-SS-01-COMP5(6-12)		
SS-01	W11	OU4-SS-01-21(6-12)	Drip Zone	Orange Brown Silt, Little Clay, Trace F. M. Sand/F. Gravel
SS-01	W11	OU4-SS-01-22(6-12)	Drip Zone	Brown Silt, Little F. M. Sand, Trace Coal/F. Gravel/Wood
SS-01	W11	OU4-SS-01-23(6-12)	Drip Zone	Orange/Brown F. M. Sand/Silt, Some Clay/Silt, Trace F. Gravel

Appendix C

Composites and Discretes

New Jersey Zinc/Mobil Chemical
DePue, Illinois

Property Location	IDPH Property Identification	Sample Name	Description	Soil Description
SS-01	W11	OU4-SS-01-24(6-12)	Drip Zone	Orange/Brown F. M. Sand, Some Silt, Little C. Sand/F. Gravel
SS-01	W11	OU4-SS-01-24(6-12)-DUP	Drip Zone	Orange/Brown F. M. Sand, Some Silt, Little C. Sand/F. Gravel
SS-02	S11	OU4-SS-02-COMP1(0-1)		
SS-02	S11	OU4-SS-02-01(0-1)	Front Yard	Brown/Black Silt, Some F. M. Sand, Trace Roots
SS-02	S11	OU4-SS-02-02(0-1)	Front Yard	Brown Silt, Some F. M. Sand, Little F. Gravel, Trace Roots
SS-02	S11	OU4-SS-02-03(0-1)	Front Yard	Brown F. Sand/Silt , Trace Roots
SS-02	S11	OU4-SS-02-04(0-1)	Front Yard	Dark Brown F. Sand, Some Silt, Trace Roots
SS-02	S11	OU4-SS-02-COMP1(1-6)		
SS-02	S11	OU4-SS-02-01(1-6)	Front Yard	Brown/Black Silt, Some F. M. Sand, Trace C. Sand/F. Gravel/Roots
SS-02	S11	OU4-SS-02-02(1-6)	Front Yard	Gray/Brown F. Sand/Silt , Some M. Sand, Little F. Gravel, Trace Roots
SS-02	S11	OU4-SS-02-03(1-6)	Front Yard	Brown/Gray F. C. Sand/Silt, Trace Roots
SS-02	S11	OU4-SS-02-04(1-6)	Front Yard	Dark Brown F. Sand, Some Silt, Trace Roots
SS-02	S11	OU4-SS-02-COMP1(12-18)		
SS-02	S11	OU4-SS-02-01(12-18)	Front Yard	Brown Black Silt, Little F.M. Sand, Trace C. Sand/F. Gravel/Roots
SS-02	S11	OU4-SS-02-02(12-18)	Front Yard	Gray F. Sand/Silt, Some M. Sand, Little Brick/Gravel
SS-02	S11	OU4-SS-02-03(12-18)	Front Yard	Orange Brown/F.M. Sand, Some Silt, Trace Roots/F. Gravel
SS-02	S11	OU4-SS-02-04(12-18)	Front Yard	Dark Brown F.Sand/Silt/Clay, Trace Roots/F. Gravel
SS-02	S11	OU4-SS-02-COMP1(6-12)		
SS-02	S11	OU4-SS-02-01(6-12)	Front Yard	Brown Silt, Little F. M. Sand
SS-02	S11	OU4-SS-02-02(6-12)	Front Yard	Gray/Brown F. Sand, Some M. Sand, Little Brick, Gravel
SS-02	S11	OU4-SS-02-03(6-12)	Front Yard	Orange/Brown/Gray F.M.C. Sand, Some Silt, Trace Roots/F. Gravel
SS-02	S11	OU4-SS-02-04(6-12)	Front Yard	Dark Brown F. Sand, Some Silt, Trace Roots
SS-02	S11	OU4-SS-02-COMP2(0-1)		
SS-02	S11	OU4-SS-02-05(0-1)	Back Yard	Orange Brown F.M. Sand, Some Silt, Trace Roots
SS-02	S11	OU4-SS-02-06(0-1)	Back Yard	Light Brown Silt, Some F. Sand, Trace Roots
SS-02	S11	OU4-SS-02-07(0-1)	Back Yard	Gray Brown Silt, Some F.M. Sand, Trace Roots
SS-02	S11	OU4-SS-02-08(0-1)	Back Yard	Gray Brown Silt, Some F.M. Sand, Trace Roots
SS-02	S11	OU4-SS-02-09(0-1)	Back Yard	Gray Brown Silt, Some F. Sand, Trace Roots
SS-02	S11	OU4-SS-02-COMP2(1-6)		
SS-02	S11	OU4-SS-02-05(1-6)	Back Yard	Orange Brown F. M. Sand, Some Silt, Trace Roots
SS-02	S11	OU4-SS-02-06(1-6)	Back Yard	Light Brown Silt, Some F. Sand, Trace Roots
SS-02	S11	OU4-SS-02-07(1-6)	Back Yard	Gray Brown Silt, Some F.M. Sand, Trace Roots
SS-02	S11	OU4-SS-02-08(1-6)	Back Yard	Gray Brown/Orange Brown Silt, Some F. M. Sand , Trace Roots/Black Fines
SS-02	S11	OU4-SS-02-09(1-6)	Back Yard	Gray Brown Silt, Some F. Sand, Trace Roots
SS-02	S11	OU4-SS-02-COMP2(12-18)		
SS-02	S11	OU4-SS-02-05(12-18)	Back Yard	Brown Silt, Some F.M. Sand, Little Wood/Wood Debris
SS-02	S11	OU4-SS-02-06(12-18)	Back Yard	Dark Orange Brown Silt, Some F. Sand, Trace Roots
SS-02	S11	OU4-SS-02-07(12-18)	Back Yard	Orange Brown Silt, Little F. M. Sand, Trace Roots/Black Fines
SS-02	S11	OU4-SS-02-08(12-18)	Back Yard	Orange Brown Silt, Some F.M. Sand, Trace Roots/Black Fines
SS-02	S11	OU4-SS-02-09(12-18)	Back Yard	Orange/Brown F. Sand, Some Silt, Trace Roots
SS-02	S11	OU4-SS-02-09(12-18)-DUP	Back Yard	Orange/Brown F. Sand, Some Silt, Trace Roots
SS-02	S11	OU4-SS-02-COMP2(6-12)		
SS-02	S11	OU4-SS-02-05(6-12)	Back Yard	Orange Brown F. M. Sand/Silt, Little Wood/Wood Debris, Trace Roots
SS-02	S11	OU4-SS-02-06(6-12)	Back Yard	Dark Orange Brown Silt, Some F. Sand, Trace Roots
SS-02	S11	OU4-SS-02-07(6-12)	Back Yard	Orange Brown Silt, Some F. Sand, Little M. Sand, Trace Roots/Black Fines
SS-02	S11	OU4-SS-02-08(6-12)	Back Yard	Gray Brown/Orange Brown Silt, Some F. M. Sand , Trace Roots/Black Fines
SS-02	S11	OU4-SS-02-09(6-12)	Back Yard	Gray Brown/ Brown F. Sand/Silt, Trace Roots
SS-02	S11	OU4-SS-02-COMP3(0-1)		
SS-02	S11	OU4-SS-02-10(0-1)	Back Yard Central	Brown F. Sand, Some Silt, Trace Roots/Wood Debris/F. Gravel
SS-02	S11	OU4-SS-02-11(0-1)	Back Yard Central	Brown Silt, Some F. Sand, Trace Roots
SS-02	S11	OU4-SS-02-12(0-1)	Back Yard Central	Brown Silt, Some F. Sand, Trace Roots
SS-02	S11	OU4-SS-02-13(0-1)	Back Yard Central	Brown Silt, Some F. Sand, Trace Roots/Wood Debris

Appendix C

Composites and Discretes

New Jersey Zinc/Mobil Chemical
DePue, Illinois

Property Location	IDPH Property Identification	Sample Name	Description	Soil Description
SS-02	S11	OU4-SS-02-14(0-1)	Back Yard Central	Brown Silt, Some F. Sand Trace Roots
SS-02	S11	OU4-SS-02-COMP3(1-6)		
SS-02	S11	OU4-SS-02-10(1-6)	Back Yard Central	Brown F. Sand, Some Silt, Trace Roots/Wood Debris/F. Gravel
SS-02	S11	OU4-SS-02-11(1-6)	Back Yard Central	Brown Silt, Some F. Sand, Trace Roots
SS-02	S11	OU4-SS-02-12(1-6)	Back Yard Central	Brown/Orange Brown Silt, Some F. Sand, Trace Roots/Wood Debris
SS-02	S11	OU4-SS-02-13(1-6)	Back Yard Central	Brown Silt, Some F. Sand, Trace Roots/Wood Debris
SS-02	S11	OU4-SS-02-14(1-6)	Back Yard Central	Brown/Dark Brown Silt, Some F. Sand, Trace Roots/Black Fines
SS-02	S11	OU4-SS-02-COMP3(12-18)		
SS-02	S11	OU4-SS-02-10(12-18)	Back Yard Central	Dark Brown F. Sand, Some Silt, Trace Roots/Black Fines
SS-02	S11	OU4-SS-02-11(12-18)	Back Yard Central	Brown Silt, Some F. Sand, Trace Roots
SS-02	S11	OU4-SS-02-12(12-18)	Back Yard Central	Brown Silt, Some F. Sand, Trace Roots
SS-02	S11	OU4-SS-02-13(12-18)	Back Yard Central	Brown Silt, Some F. Sand, Trace Roots/Wood Debris
SS-02	S11	OU4-SS-02-14(12-18)	Back Yard Central	Brown Silt, Some F. Sand, Trace Roots
SS-02	S11	OU4-SS-02-COMP3(6-12)		
SS-02	S11	OU4-SS-02-10(6-12)	Back Yard Central	Brown/Dark Brown F. Sand, Some Silt, Trace Roots/Wood Debris/F. Gravel/Black Fines
SS-02	S11	OU4-SS-02-11(6-12)	Back Yard Central	Brown Black/Brown Silt, /F. Sand, Trace Roots
SS-02	S11	OU4-SS-02-12(6-12)	Back Yard Central	Orange Brown/Brown/Brick Silt, Some F. Sand, Trace Roots/Wood Debris/Black Fines
SS-02	S11	OU4-SS-02-13(6-12)	Back Yard Central	Brown Silt, Some F. Sand, Trace Roots/Wood Debris
SS-02	S11	OU4-SS-02-14(6-12)	Back Yard Central	Dark Brown/Orange Brown Silt, Little F. Sand, Trace Roots/Clay/Black Fines
SS-02	S11	OU4-SS-02-COMP4(0-1)		
SS-02	S11	OU4-SS-02-15(0-1)	Back Yard	Gray/Brown F. Sand, Little Silt, Trace F. Sand, (8-9) Orange Staining
SS-02	S11	OU4-SS-02-16(0-1)	Back Yard	Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-02	S11	OU4-SS-02-17(0-1)	Back Yard	Brown Silt, F. Sand, Trace Roots
SS-02	S11	OU4-SS-02-18(0-1)	Back Yard By Alley	Brown Silt, Some F. Sand, Little F. Gravel, Trace Roots
SS-02	S11	OU4-SS-02-19(0-1)	Back Yard By Alley	Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-02	S11	OU4-SS-02-COMP4(1-6)		
SS-02	S11	OU4-SS-02-15(1-6)	Back Yard	Gray/Brown F. Sand, Little Silt
SS-02	S11	OU4-SS-02-16(1-6)	Back Yard	Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-02	S11	OU4-SS-02-17(1-6)	Back Yard	Brown Silt, Little F. Sand. Trace Roots
SS-02	S11	OU4-SS-02-18(1-6)	Back Yard By Alley	Brown/Dark Brown Silt, Some F. Sand, Little F. Gravel, Trace Roots/C. Sand
SS-02	S11	OU4-SS-02-19(1-6)	Back Yard By Alley	Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-02	S11	OU4-SS-02-19(1-6)-DUP	Back Yard By Alley	Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-02	S11	OU4-SS-02-COMP4(12-18)		
SS-02	S11	OU4-SS-02-15(12-18)	Back Yard	Brown/Black Silt, Little F. Sand, Trace Black Fines/Wood
SS-02	S11	OU4-SS-02-16(12-18)	Back Yard	Orange Brown Silt, Little F. Sand, Trace Clay/F. Gravel
SS-02	S11	OU4-SS-02-17(12-18)	Back Yard	Orange Brown Silt/Clay, Little F. Sand, Trace Black Fines/Roots
SS-02	S11	OU4-SS-02-18(12-18)	Back Yard By Alley	Orange Brown Silt, Some F. Sand, Trace Roots
SS-02	S11	OU4-SS-02-19(12-18)	Back Yard By Alley	Orange Brown Silt, Some F. Sand, Trace Roots
SS-02	S11	OU4-SS-02-COMP4(6-12)		

Appendix C

Composites and Discretes

New Jersey Zinc/Mobil Chemical
DePue, Illinois

Property Location	IDPH Property Identification	Sample Name	Description	Soil Description
SS-02	S11	OU4-SS-02-15(6-12)	Back Yard	Brown/Black Silt, Little Gray/Brown F. Sand, Trace Wood/Black Fines (8-9" Orange Staining)
SS-02	S11	OU4-SS-02-16(6-12)	Back Yard	Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-02	S11	OU4-SS-02-17(6-12)	Back Yard	Brown Silt, Little F. Sand. Trace Roots
SS-02	S11	OU4-SS-02-18(6-12)	Back Yard By Alley	Brown/Dark Brown Silt, Some F. Sand, Little F. Gravel, Trace Roots/C. Sand
SS-02	S11	OU4-SS-02-19(6-12)	Back Yard By Alley	Brown/Orange Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-02	S11	OU4-SS-02-COMP5(0-1)		
SS-02	S11	OU4-SS-02-20(0-1)	Drip Zone 20, North of House	Brown Silt, Some F. Sand, Trace Roots/C. Sand/Wood Debris
SS-02	S11	OU4-SS-02-21(0-1)	Drip Zone 21, North of House	Gray Brown F. Sand, Some Silt, Trace Roots/Wood Debris
SS-02	S11	OU4-SS-02-22(0-1)	Drip Zone 22, South of House	Brown Silt, Some F. Sand, Trace Roots
SS-02	S11	OU4-SS-02-23(0-1)	Drip Zone 23, East of House	Brown/Black Silt, Some F. Sand, Trace Roots
SS-02	S11	OU4-SS-02-COMP5(1-6)		
SS-02	S11	OU4-SS-02-20(1-6)	Drip Zone 20, North of House	Brown Silt, Some F. Sand, Trace Roots/C. Sand/Wood Debris
SS-02	S11	OU4-SS-02-21(1-6)	Drip Zone 21, North of House	Gray Brown/Orange Brown F. Sand, Trace Roots/Wood Debris
SS-02	S11	OU4-SS-02-22(1-6)	Drip Zone 22, South of House	Brown/Brown Orange Silt, Some F. Sand, Trace Roots
SS-02	S11	OU4-SS-02-23(1-6)	Drip Zone 23, East of House	Brown/Black Silt, Some F. Sand, Trace Roots
SS-02	S11	OU4-SS-02-COMP5(12-18)		
SS-02	S11	OU4-SS-02-20(12-18)	Drip Zone 20, North of House	Orange Brown Silt, Some F. Sand, Little Clay, Trace Wood Debris
SS-02	S11	OU4-SS-02-21(12-18)	Drip Zone 21, North of House	Orange Brown Silt, Some Clay/F. Sand, Trace Roots/Wood Debris
SS-02	S11	OU4-SS-02-22(12-18)	Drip Zone 22, South of House	Brown/Black/Orange Brown Silt/Clay, Little F. Sand, Trace Roots/Black Fines
SS-02	S11	OU4-SS-02-23(12-18)	Drip Zone 23, East of House	Brown/Orange Silt, Some F. Sand, Little Clay
SS-02	S11	OU4-SS-02-COMP5(6-12)		
SS-02	S11	OU4-SS-02-20(6-12)	Drip Zone 20, North of House	Brown/Orange Brown Silt, Some F. Sand, Little Clay, Trace Roots/C. Sand/Wood Debris
SS-02	S11	OU4-SS-02-21(6-12)	Drip Zone 21, North of House	Orange Brown Silt, Some F. Sand, Trace Roots/Wood Debris
SS-02	S11	OU4-SS-02-22(6-12)	Drip Zone 22, South of House	Brown Orange/Brown/Black Silt, Some F. Sand/Clay, Trace Roots/Black Fines
SS-02	S11	OU4-SS-02-23(6-12)	Drip Zone 23, East of House	Brown/Orange Silt, Some F. Sand, Little Clay
SS-02	S11	OU4-SS-02-23(6-12)-DUP	Drip Zone 23, East of House	Brown/Orange Silt, Some F. Sand, Little Clay
SS-03	S16	OU4-SS-03-COMP1(0-1)		
SS-03	S16	OU4-SS-03-01(0-1)	Front Yard, Southeast Corner of Yard	Brown Silt, Some F. Sand, Little Organics
SS-03	S16	OU4-SS-03-02(0-1)	Front Yard, South of House	Orange Brown Silt, Some F. Sand, Little Organics
SS-03	S16	OU4-SS-03-03(0-1)	Front Yard, South of House	Light Brown Silt, Some F. Sand, Trace Roots
SS-03	S16	OU4-SS-03-04(0-1)	Front Yard, Southwest of House	Gray/Brown Silt, Some F. Sand, Trace Roots/Gravel
SS-03	S16	OU4-SS-03-05(0-1)	Front Yard, Southwest Corner of Yard	Dark Brown Silt, Trace Organics/Roots
SS-03	S16	OU4-SS-03-COMP1(1-6)		
SS-03	S16	OU4-SS-03-01(1-6)	Front Yard, Southeast Corner of Yard	Brown Silt, Some F. Sand, Little Organics

Appendix C

Composites and Discretes

New Jersey Zinc/Mobil Chemical
DePue, Illinois

Property Location	IDPH Property Identification	Sample Name	Description	Soil Description
SS-03	S16	OU4-SS-03-02(1-6)	Front Yard, South of House	Orange Brown Silt, Some F. Sand, Little Organics
SS-03	S16	OU4-SS-03-03(1-6)	Front Yard, South of House	Light Brown Silt, Some F. Sand, Trace Roots
SS-03	S16	OU4-SS-03-04(1-6)	Front Yard, Southwest of House	Gray/Brown Silt, Some F. Sand, Trace Roots/Gravel
SS-03	S16	OU4-SS-03-05(1-6)	Front Yard, Southwest Corner of Yard	Dark Brown/Orange Brown Silt, Some F. Sand, Trace Organics/Silt
SS-03	S16	OU4-SS-03-COMP1(12-18)		
SS-03	S16	OU4-SS-03-01(12-18)	Front Yard, Southeast Corner of Yard	Orange Brown/Light Brown Silt/F. Sand, Trace Gravel
SS-03	S16	OU4-SS-03-02(12-18)	Front Yard, South of House	Light Brown Silt, Some F. Sand, Trace Roots
SS-03	S16	OU4-SS-03-03(12-18)	Front Yard, South of House	Light Brown Silt/F. Sand, Trace Roots/F. Gravel
SS-03	S16	OU4-SS-03-04(12-18)	Front Yard, Southwest of House	Orange Brown Silt/F.Sand, Trace Slag Chunks/Fine Sections
SS-03	S16	OU4-SS-03-05(12-18)	Front Yard, Southwest Corner of Yard	Orange Brown Silt/F. Sand, Trace Gravel
SS-03	S16	OU4-SS-03-COMP1(6-12)		
SS-03	S16	OU4-SS-03-01(6-12)	Front Yard, Southeast Corner of Yard	Light Brown Silt, Some F. Sand, Trace Roots
SS-03	S16	OU4-SS-03-02(6-12)	Front Yard, South of House	Light Brown Silt, Some F. Sand, Trace Roots
SS-03	S16	OU4-SS-03-03(6-12)	Front Yard, South of House	Light Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-03	S16	OU4-SS-03-04(6-12)	Front Yard, Southwest of House	Orange Brown/Dark Gray Silt, Some F. Sand/Gravel
SS-03	S16	OU4-SS-03-05(6-12)	Front Yard, Southwest Corner of Yard	Orange Brown Silt, Some F. Sand
SS-03	S16	OU4-SS-03-COMP2(0-1)		
SS-03	S16	OU4-SS-03-06(0-1)	Side Yard, Westside of House	Gray/Brown Silt, Some F.M. Sand, Trace Roots
SS-03	S16	OU4-SS-03-07(0-1)	Side Yard, Westside of House	Gray/Brown Silt, Little F. M. Sand, Trace Roots/F. Gravel
SS-03	S16	OU4-SS-03-08(0-1)	Side Yard, Westside of House	Gray/Brown Silt, Little F. M. Sand, Trace Roots/F. Gravel
SS-03	S16	OU4-SS-03-09(0-1)	Side Yard, Westside of House	Gray/Brown Silt, Little F. M. Sand, Trace Roots/F. Gravel
SS-03	S16	OU4-SS-03-10(0-1)	Side Yard, Westside of House	Gray/Brown Silt, Little F. M. Sand, Trace Roots/F. Gravel
SS-03	S16	OU4-SS-03-COMP2(1-6)		
SS-03	S16	OU4-SS-03-06(1-6)	Side Yard, Westside of House	Gray/Brown Silt, Some F.M. Sand, Trace Roots
SS-03	S16	OU4-SS-03-07(1-6)	Side Yard, Westside of House	Gray/Brown Silt, Little F. M. Sand, Trace Roots/F. Gravel
SS-03	S16	OU4-SS-03-08(1-6)	Side Yard, Westside of House	Gray/Brown Silt, Little F. M. Sand, Trace Roots/F. Gravel

Appendix C

Composites and Discretes

New Jersey Zinc/Mobil Chemical
DePue, Illinois

Property Location	IDPH Property Identification	Sample Name	Description	Soil Description
SS-03	S16	OU4-SS-03-09(1-6)	Side Yard, Westside of House	Gray/Brown Silt, Little F. M. Sand, Trace Roots/F. Gravel
SS-03	S16	OU4-SS-03-10(1-6)	Side Yard, Westside of House	Gray/Brown Silt, Little F. M. Sand, Trace Roots/F. Gravel
SS-03	S16	OU4-SS-03-10(1-6)-DUP	Side Yard, Westside of House	Gray/Brown Silt, Little F. M. Sand, Trace Roots/F. Gravel
SS-03	S16	OU4-SS-03-COMP2(12-18)		
SS-03	S16	OU4-SS-03-06(12-18)	Side Yard, Westside of House	Brown/Dark Brown Silt, Some F. M. Sand, Trace Roots/F. Gravel
SS-03	S16	OU4-SS-03-07(12-18)	Side Yard, Westside of House	Orange Brown/Dark Brown Silt, Little F. M. Sand, Trace Roots
SS-03	S16	OU4-SS-03-08(12-18)	Side Yard, Westside of House	Orange Brown Silt, Little F. M. Sand, Trace Roots
SS-03	S16	OU4-SS-03-09(12-18)	Side Yard, Westside of House	Dark Orange/Brown Silt, Little F.M. Sand, Trace Roots
SS-03	S16	OU4-SS-03-10(12-18)	Side Yard, Westside of House	Orange/Brown/Dark Brown/Black Silt, Little F.M. Sand, Trace Roots
SS-03	S16	OU4-SS-03-COMP2(6-12)		
SS-03	S16	OU4-SS-03-06(6-12)	Side Yard, Westside of House	Brown/Gray Brown Silt, Some F. M. Sand, Trace Roots
SS-03	S16	OU4-SS-03-07(6-12)	Side Yard, Westside of House	Gray Brown/Dark Brown Silt, Little F.M. Sand, Trace Roots/F. Gravel
SS-03	S16	OU4-SS-03-08(6-12)	Side Yard, Westside of House	Gray/Brown Silt, Little F. M. Sand, Trace Roots/F. Gravel
SS-03	S16	OU4-SS-03-09(6-12)	Side Yard, Westside of House	Gray/Brown/Dark Orange Silt, Little F.M. Sand, Trace Roots/F. Gravel
SS-03	S16	OU4-SS-03-10(6-12)	Side Yard, Westside of House	Gray/Brown/Orange Silt, Little F. M. Sand, Trace Roots/F. Gravel
SS-03	S16	OU4-SS-03-COMP3(0-1)		
SS-03	S16	OU4-SS-03-11(0-1)	Back Yard, Northwest Corner of Yard	Light Brown Silt, Trace Roots/F. Gravel
SS-03	S16	OU4-SS-03-12(0-1)	Back Yard, Northwest of House	Light Brown Silt/F. Sand, Trace Roots/F. Gravel
SS-03	S16	OU4-SS-03-13(0-1)	Back Yard, North of House	Light Brown Silt, Some Organics/Roots, Trace F. Gravel
SS-03	S16	OU4-SS-03-14(0-1)	Back Yard, North of House	Light Brown Silt, Trace Roots/Gravel
SS-03	S16	OU4-SS-03-15(0-1)	Back Yard, Northeast Corner of Yard	Gray Brown Silt/F. Sand, Trace Brick
SS-03	S16	OU4-SS-03-COMP3(1-6)		
SS-03	S16	OU4-SS-03-11(1-6)	Back Yard, Northwest Corner of Yard	Light Brown Silt, Trace Roots/F. Gravel
SS-03	S16	OU4-SS-03-12(1-6)	Back Yard, Northwest of House	Light Brown Silt/F. Sand, Trace Roots/F. Gravel
SS-03	S16	OU4-SS-03-13(1-6)	Back Yard, North of House	Light Brown Silt/F. Sand, Some Organics/Roots, Trace F. Gravel

Appendix C

Composites and Discretes

New Jersey Zinc/Mobil Chemical
DePue, Illinois

Property Location	IDPH Property Identification	Sample Name	Description	Soil Description
SS-03	S16	OU4-SS-03-14(1-6)	Back Yard, North of House	Light Brown/Light Gray Silt/F. Sand, Trace Roots/Gravel
SS-03	S16	OU4-SS-03-15(1-6)	Back Yard, Northeast Corner of Yard	Gray Brown Silt/F. Sand, Trace Brick
SS-03	S16	OU4-SS-03-COMP3(12-18)		
SS-03	S16	OU4-SS-03-11(12-18)	Back Yard, Northwest Corner of Yard	Light Brown/Orange Brown Silt, Some F. Sand, Trace F. Gravel
SS-03	S16	OU4-SS-03-12(12-18)	Back Yard, Northwest of House	Dark Brown Silt/F. Sand, Trace Slag
SS-03	S16	OU4-SS-03-13(12-18)	Back Yard, North of House	Dark Brown Silt/F. Sand, Trace F. Gravel/Slag
SS-03	S16	OU4-SS-DUP-3	Back Yard, North of House	Dark Brown Silt/F. Sand, Trace F. Gravel/Slag
SS-03	S16	OU4-SS-03-14(12-18)	Back Yard, North of House	Gray/Brown Silt/F. Sand, Trace Organics/Gravel
SS-03	S16	OU4-SS-03-15(12-18)	Back Yard, Northeast Corner of Yard	Dark Gray/Black F. Sand/Light Brown Silt, Some Slag
SS-03	S16	OU4-SS-03-COMP3(6-12)		
SS-03	S16	OU4-SS-03-11(6-12)	Back Yard, Northwest Corner of Yard	Light Brown Silt, Some F. Sand, Trace Small Slag
SS-03	S16	OU4-SS-03-12(6-12)	Back Yard, Northwest of House	Light Brown Silt/F. Sand, Trace Roots/F. Gravel
SS-03	S16	OU4-SS-03-13(6-12)	Back Yard, North of House	Light Brown/Dark Brown Silt/F. Sand, Trace Roots/F. Gravel/Slag
SS-03	S16	OU4-SS-03-14(6-12)	Back Yard, North of House	Light Gray/Gray/Brown Silt/F. Sand, Trace Gravel
SS-03	S16	OU4-SS-03-15(6-12)	Back Yard, Northeast Corner of Yard	Dark Gray Black F. Sand/ Some Slag
SS-03	S16	OU4-SS-03-15(6-12)-DUP	Back Yard, Northeast Corner of Yard	Dark Gray Black F. Sand/ Some Slag
SS-03	S16	OU4-SS-03-COMP4(0-1)		
SS-03	S16	OU4-SS-03-16(0-1)	Drip Zone, Northeast Corner of House	Brown Silt, Some F. Sand, Trace Roots/Brick/Fines
SS-03	S16	OU4-SS-03-17(0-1)	Drip Zone, East of House	Brown/Black Silt, Little F. Sand, Trace Roots
SS-03	S16	OU4-SS-03-18(0-1)	Drip Zone, Southwest Corner of House	Brown/Black Silt, Little F. Sand, Trace Roots/F. Gravel
SS-03	S16	OU4-SS-DUP-4	Drip Zone, Southwest Corner of House	Brown/Black Silt, Little F. Sand, Trace Roots/F. Gravel
SS-03	S16	OU4-SS-03-19(0-1)	Drip Zone, West of House	Brown Silt, Little F. Sand, Trace Roots
SS-03	S16	OU4-SS-03-COMP4(1-6)		
SS-03	S16	OU4-SS-03-16(1-6)	Drip Zone, Northeast Corner of House	Brown/Dark Brown Silt, Some F. Sand, Trace Roots/Black Fines
SS-03	S16	OU4-SS-03-17(1-6)	Drip Zone, East of House	Brown/Black Silt, Little F. Sand, Trace Roots
SS-03	S16	OU4-SS-03-18(1-6)	Drip Zone, Southwest Corner of House	Brown/Black/Orange Brown Silt/Clay, Little F. Sand, Trace Roots/F. Gravel
SS-03	S16	OU4-SS-03-19(1-6)	Drip Zone, West of House	Brown Silt, Little F. Sand, Trace Roots
SS-03	S16	OU4-SS-03-COMP4(12-18)		

Appendix C

Composites and Discretes

New Jersey Zinc/Mobil Chemical
DePue, Illinois

Property Location	IDPH Property Identification	Sample Name	Description	Soil Description
SS-03	S16	OU4-SS-03-16(12-18)	Drip Zone, Northeast Corner of House	Brown Silt, Some F.M. Sand, Trace Roots
SS-03	S16	OU4-SS-03-17(12-18)	Drip Zone, East of House	Brown/Black Silt, Little F. Sand, Trace Black Fines/Coal/Roots
SS-03	S16	OU4-SS-03-18(12-18)	Drip Zone, Southwest Corner of House	Orange Brown/Black Silt/Clay, Trace Roots
SS-03	S16	OU4-SS-03-19(12-18)	Drip Zone, West of House	Brown/Orange Silt/Clay, Little F. Sand, Trace Roots
SS-03	S16	OU4-SS-03-COMP4(6-12)		
SS-03	S16	OU4-SS-03-16(6-12)	Drip Zone, Northeast Corner of House	Brown/Dark Brown Silt, Some F. Sand, Trace Roots/Black Fines
SS-03	S16	OU4-SS-03-17(6-12)	Drip Zone, East of House	Brown/Black Silt, Little F. Sand, Trace Roots
SS-03	S16	OU4-SS-03-18(6-12)	Drip Zone, Southwest Corner of House	Orange/Brown Silt/Clay, Trace Roots
SS-03	S16	OU4-SS-03-19(6-12)	Drip Zone, West of House	Brown/Orange Silt/Clay, Little F. Sand, Trace Roots
SS-04	E06	OU4-SS-04-COMP1(0-1)		
SS-04	E06	OU4-SS-04-01(0-1)	Front Yard, Southwest of House	Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-04	E06	OU4-SS-04-02(0-1)	Front of House, Westside	Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-04	E06	OU4-SS-04-03(0-1)	Front Yard, South of House	Brown Silt, Some F. Sand, Trace Roots
SS-04	E06	OU4-SS-04-04(0-1)	Front Yard, South of House	Light Brown Silt, Some F. Sand, Trace Roots/ F. Gravel
SS-04	E06	OU4-SS-04-05(0-1)	Front Yard, South of House Infront of Shed	Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-04	E06	OU4-SS-04-COMP1(1-6)		
SS-04	E06	OU4-SS-04-01(1-6)	Front Yard, Southwest of House	Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-04	E06	OU4-SS-04-02(1-6)	Front of House, Westside	Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-04	E06	OU4-SS-04-03(1-6)	Front Yard, South of House	Brown Silt, Some F. Sand, Trace Roots
SS-04	E06	OU4-SS-04-04(1-6)	Front Yard, South of House	Light Brown Silt, Some F. Sand, Trace Roots/ F. Gravel
SS-04	E06	OU4-SS-04-05(1-6)	Front Yard, South of House Infront of Shed	Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-04	E06	OU4-SS-04-05(1-6)-DUP	Front Yard, South of House Infront of Shed	Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-04	E06	OU4-SS-04-COMP1(12-18)		
SS-04	E06	OU4-SS-04-01(12-18)	Front Yard, Southwest of House	Gray/Brown Silt, Little F. Sand
SS-04	E06	OU4-SS-04-02(12-18)	Front of House, Westside	Dark Brown/Orange Brown Silt, Some F. Sand, Trace Roots
SS-04	E06	OU4-SS-04-03(12-18)	Front Yard, South of House	Dark Brown Silt/Clay, Some F. Sand
SS-04	E06	OU4-SS-04-04(12-18)	Front Yard, South of House	Light Brown/Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-04	E06	OU4-SS-04-05(12-18)	Front Yard, South of House Infront of Shed	Light Brown/Dark Brown Silt, Little F. Sand, Trace Roots
SS-04	E06	OU4-SS-04-COMP1(6-12)		

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Composites and Discretes

New Jersey Zinc/Mobil Chemical
DePue, Illinois

Property Location	IDPH Property Identification	Sample Name	Description	Soil Description
SS-04	E06	OU4-SS-04-01(6-12)	Front Yard, Southwest of House	Orange/Brown Silt, Some F. Sand, Trace Roots
SS-04	E06	OU4-SS-04-02(6-12)	Front of House, Westside	Brown/Orange Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-04	E06	OU4-SS-04-03(6-12)	Front Yard, South of House	Brown Silt, Some F. Sand, Trace Roots/Black Fines
SS-04	E06	OU4-SS-04-04(6-12)	Front Yard, South of House	Light Brown Silt, Some F. Sand, Trace Roots/ F. Gravel
SS-04	E06	OU4-SS-04-05(6-12)	Front Yard, South of House Infront of Shed	Brown/Light Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-04	E06	OU4-SS-04-05(6-12)-DUP	Front Yard, South of House Infront of Shed	Brown/Light Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-04	E06	OU4-SS-04-COMP2(0-1)		
SS-04	E06	OU4-SS-04-06(0-1)	Side Yard, North of House, Left of Driveway	Light Brown F. Sand, Trace Roots/Gravel
SS-04	E06	OU4-SS-04-07(0-1)	Side Yard, North of House	Light Gray Brown Silt/F. Sand, Trace Roots/F. Gravel/Slag
SS-04	E06	OU4-SS-04-08(0-1)	Side Yard, North of House	Light Brown Silt/F. Sand, Trace Roots/F. Gravel
SS-04	E06	OU4-SS-04-09(0-1)	Side Yard, North of House	Gray/Brown Silt, Some F. Sand, Trace Roots, F. Gravel
SS-04	E06	OU4-SS-04-10(0-1)	Side Yard North of House, Closest to Oak Street	Gray Brown Silt, Some F. Sand, Trace Roots
SS-04	E06	OU4-SS-04-COMP2(1-6)		
SS-04	E06	OU4-SS-04-06(1-6)	Side Yard, North of House, Left of Driveway	Light Brown F. Sand, Trace Roots/Gravel
SS-04	E06	OU4-SS-04-07(1-6)	Side Yard, North of House	Light Gray Brown Silt/F. Sand, Trace Roots/F. Gravel/Slag
SS-04	E06	OU4-SS-04-08(1-6)	Side Yard, North of House	Light Brown Silt/F. Sand, Trace Roots/F. Gravel
SS-04	E06	OU4-SS-04-09(1-6)	Side Yard, North of House	Gray/Brown Silt, Some F. Sand, Trace Roots, F. Gravel
SS-04	E06	OU4-SS-04-10(1-6)	Side Yard North of House, Closest to Oak Street	Gray Brown Silt, Some F. Sand, Trace Roots
SS-04	E06	OU4-SS-04-COMP2(12-18)		
SS-04	E06	OU4-SS-04-06(12-18)	Side Yard, North of House, Left of Driveway	Dark Brown Silt/F. Sand, Trace Gravel
SS-04	E06	OU4-SS-04-07(12-18)	Side Yard, North of House	Light Brown Silt, Trace Organics
SS-04	E06	OU4-SS-04-08(12-18)	Side Yard, North of House	Orange Brown/Dark Gray Brown Silt, Trace F. Gravel
SS-04	E06	OU4-SS-04-09(12-18)	Side Yard, North of House	Orange Brown Silt, Some F. Sand, Trace Organics/Roots
SS-04	E06	OU4-SS-04-10(12-18)	Side Yard North of House, Closest to Oak Street	Orange/Brown Silt, Some F. Sand, Trace Gravel
SS-04	E06	OU4-SS-04-COMP2(6-12)		
SS-04	E06	OU4-SS-04-06(6-12)	Side Yard, North of House, Left of Driveway	Light Brown/Dark Brown Silt/F. Sand,Trace Gravel
SS-04	E06	OU4-SS-04-07(6-12)	Side Yard, North of House	Light Brown Silt, Trace Organics

Appendix C

Composites and Discretes

New Jersey Zinc/Mobil Chemical
DePue, Illinois

Property Location	IDPH Property Identification	Sample Name	Description	Soil Description
SS-04	E06	OU4-SS-04-08(6-12)	Side Yard, North of House	Gray Brown/Orange Brown Silt/F. Sand, Trace Roots/F. Gravel
SS-04	E06	OU4-SS-04-09(6-12)	Side Yard, North of House	Orange Brown Silt, Trace F. Sand
SS-04	E06	OU4-SS-04-10(6-12)	Side Yard North of House, Closest to Oak Street	Orange Brown F. Sand, Trace F. Gravel
SS-04	E06	OU4-SS-04-COMP3(0-1)		
SS-04	E06	OU4-SS-04-11(0-1)	Side Yard, Northeast of House	Gray/Brown Silt/F. Sand, Trace Organic/F. Gravel
SS-04	E06	OU4-SS-04-12(0-1)	Side Yard, Northeast of House	Gray/Brown Silt/F. Sand, Trace Roots/F. Gravel
SS-04	E06	OU4-SS-04-13(0-1)	Side Yard, Northeast of House	Gray Brown Silt/F. Sand, Trace Roots/F. Gravel
SS-04	E06	OU4-SS-04-14(0-1)	Side Yard, Northeast of House	Gray Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-04	E06	OU4-SS-04-15(0-1)	Side Yard, Northeast of House	Gray Brown Silt/F. Sand, Trace Roots/F. Gravel
SS-04	E06	OU4-SS-04-COMP3(1-6)		
SS-04	E06	OU4-SS-04-11(1-6)	Side Yard, Northeast of House	Gray/Brown Silt/ Orange/Brown F. Sand, Trace Roots/Organics/F. Gravel
SS-04	E06	OU4-SS-04-12(1-6)	Side Yard, Northeast of House	Gray/Brown/Orange Silt, Some F. Sand, Trace Roots/F. Gravel
SS-04	E06	OU4-SS-04-13(1-6)	Side Yard, Northeast of House	Gray Brown/ Orange Brown Silt/F. Sand, Trace Roots/F. Gravel
SS-04	E06	OU4-SS-04-14(1-6)	Side Yard, Northeast of House	Gray Brown Silt/Light Gray Brown F. Sand, Trace Roots/Gravel
SS-04	E06	OU4-SS-04-15(1-6)	Side Yard, Northeast of House	Gray Brown Silt/Orange Brown F. Sand, Trace Roots/Gravel
SS-04	E06	OU4-SS-04-COMP3(12-18)		
SS-04	E06	OU4-SS-04-11(12-18)	Side Yard, Northeast of House	Orange Brown Silt, Trace F. Sand
SS-04	E06	OU4-SS-04-12(12-18)	Side Yard, Northeast of House	Orange/Brown Silt, Trace F. Sand/F. Gravel
SS-04	E06	OU4-SS-04-13(12-18)	Side Yard, Northeast of House	Orange Brown Silt, Trace F. Sand
SS-04	E06	OU4-SS-04-14(12-18)	Side Yard, Northeast of House	Orange Brown Silt, Trace F. Sand
SS-04	E06	OU4-SS-04-15(12-18)	Side Yard, Northeast of House	Orange Brown Silt, Trace F. Sand
SS-04	E06	OU4-SS-04-COMP3(6-12)		
SS-04	E06	OU4-SS-04-11(6-12)	Side Yard, Northeast of House	Orange/Brown/Orange Brown F.Sand/Silt, Trace Roots/F. Gravel
SS-04	E06	OU4-SS-04-12(6-12)	Side Yard, Northeast of House	Orange/Brown Silt/F. Sand, Trace F. Gravel

Appendix C

Composites and Discretes

New Jersey Zinc/Mobil Chemical
DePue, Illinois

Property Location	IDPH Property Identification	Sample Name	Description	Soil Description
SS-04	E06	OU4-SS-04-13(6-12)	Side Yard, Northeast of House	Orange Brown F. Sand, Trace Roots
SS-04	E06	OU4-SS-04-14(6-12)	Side Yard, Northeast of House	Light Gary Brown/Orange Brown Silt/F. Sand , Trace Gravel
SS-04	E06	OU4-SS-04-15(6-12)	Side Yard, Northeast of House	Orange Brown Silt/F. Sand, Trace Gravel
SS-04	E06	OU4-SS-04-COMP4(0-1)		
SS-04	E06	OU4-SS-04-16(0-1)	Back Yard, East of House	Light Gray F. Sand/Gravel, Trace Roots
SS-04	E06	OU4-SS-04-17(0-1)	Back Yard, Northeast of House Infront of Barn	Light Gray F. Sand, Trace Roots/Gravel
SS-04	E06	OU4-SS-04-18(0-1)	Back Yard, East of House Infront of Deck	Light Gray F. Sand, Trace Roots/Gravel
SS-04	E06	OU4-SS-04-19(0-1)	Back Yard, East of House	Gray Brown Silt/F. Sand, Trace Roots/Gravel
SS-04	E06	OU4-SS-04-20(0-1)	Back Yard, East of House Infront of Dog House	Dark Brown Silt/F. Sand, Trace Roots/Gravel
SS-04	E06	OU4-SS-04-20(0-1)-DUP	Back Yard, East of House Infront of Dog House	Dark Brown Silt/F. Sand, Trace Roots/Gravel
SS-04	E06	OU4-SS-04-COMP4(1-6)		
SS-04	E06	OU4-SS-04-16(1-6)	Back Yard, East of House	Light Gray/Dark Gray F. Sand/Gravel, Trace Roots/Silt/F. Gravel
SS-04	E06	OU4-SS-04-17(1-6)	Back Yard, Northeast of House Infront of Barn	Light Gray/Gray Brown F. Sand, Trace Roots/Gravel
SS-04	E06	OU4-SS-04-18(1-6)	Back Yard, East of House Infront of Deck	Light Gray Silt/F. Sand, Trace Roots/Gravel
SS-04	E06	OU4-SS-04-19(1-6)	Back Yard, East of House	Gray Brown/Dark Gray Brown Silt/F. Sand, Trace Roots/Gravel/Slag
SS-04	E06	OU4-SS-04-20(1-6)	Back Yard, East of House Infront of Dog House	Dark Brown Silt/F. Sand, Trace Roots/Gravel
SS-04	E06	OU4-SS-04-COMP4(12-18)		
SS-04	E06	OU4-SS-04-16(12-18)	Back Yard, East of House	Orange Brown Silt, Trace Gravel
SS-04	E06	OU4-SS-04-17(12-18)	Back Yard, Northeast of House Infront of Barn	Orange Brown Silt, Trace Gravel
SS-04	E06	OU4-SS-04-18(12-18)	Back Yard, East of House Infront of Deck	Dark Gray/Gray/Brown Silt/F. Sand, Trace Roots/Gravel
SS-04	E06	OU4-SS-04-19(12-18)	Back Yard, East of House	Dark Gray Brown/Light Gray Brown Silt/F.Sand, Trace Gravel/Roots/Slag
SS-04	E06	OU4-SS-04-20(12-18)	Back Yard, East of House Infront of Dog House	Gray/Brown Silt, Trace F. Sand/Gravel
SS-04	E06	OU4-SS-04-COMP4(6-12)		
SS-04	E06	OU4-SS-04-16(6-12)	Back Yard, East of House	Dark Gray/Gray Brown F.Sand/Orange Brown Silt, Trace Roots/F. Gravel
SS-04	E06	OU4-SS-04-17(6-12)	Back Yard, Northeast of House Infront of Barn	Gray/Brown/Orange Brown F. Sand, Trace Roots/Gravel

Appendix C

Composites and Discretes

New Jersey Zinc/Mobil Chemical
DePue, Illinois

Property Location	IDPH Property Identification	Sample Name	Description	Soil Description
SS-04	E06	OU4-SS-04-18(6-12)	Back Yard, East of House Infront of Deck	Light Gray Silt/F. Sand, Trace Roots/Gravel
SS-04	E06	OU4-SS-04-19(6-12)	Back Yard, East of House	Dark Gray Brown Silt/F. Sand, Trace Gravel/Slag
SS-04	E06	OU4-SS-04-20(6-12)	Back Yard, East of House Infront of Dog House	Dark Brown Silt/F. Sand, Trace Roots/Gravel
SS-04	E06	OU4-SS-04-COMP5(0-1)		
SS-04	E06	OU4-SS-04-21 (0-1)	Backyard/Garden Southeast of House	Dark Brown Silt/F. Sand, Trace Roots/Gravel
SS-04	E06	OU4-SS-04-22 (0-1)	Backyard/Garden Southeast of House	Dark Brown Silt/F. Sand, Trace Roots/Gravel
SS-04	E06	OU4-SS-04-23 (0-1)	Backyard/Garden Southeast of House	Dark Brown Silt/F. Sand, Trace Roots/Gravel
SS-04	E06	OU4-SS-04-COMP5(1-6)		
SS-04	E06	OU4-SS-04-21 (1-6)	Backyard/Garden Southeast of House	Dark Brown Silt/F. Sand, Trace Roots/Gravel
SS-04	E06	OU4-SS-04-22 (1-6)	Backyard/Garden Southeast of House	Dark Brown Silt/F. Sand, Trace Roots/Gravel
SS-04	E06	OU4-SS-04-23(1-6)	Backyard/Garden Southeast of House	Dark Brown Silt/F. Sand, Trace Roots/Gravel
SS-04	E06	OU4-SS-04-COMP5(12-18)		
SS-04	E06	OU4-SS-04-21 (12-18)	Backyard/Garden Southeast of House	Orange Brown Silt, Trace F. Sand
SS-04	E06	OU4-SS-04-22 (12-18)	Backyard/Garden Southeast of House	Light Brown Silt, Trace F. Sand
SS-04	E06	OU4-SS-04-23 (12-18)	Backyard/Garden Southeast of House	Light Brown Silt, Trace F. Sand
SS-04	E06	OU4-SS-04-COMP5(6-12)		
SS-04	E06	OU4-SS-04-21 (6-12)	Backyard/Garden Southeast of House	Dark Brown/Orange Brown Silt/F.Sand, Trace Roots/Gravel
SS-04	E06	OU4-SS-04-22 (6-12)	Backyard/Garden Southeast of House	Dark Brown/Light Brown Silt/F. Sand, Trace Roots/Gravel
SS-04	E06	OU4-SS-04-23(6-12)	Backyard/Garden Southeast of House	Dark Brown/Light Brown Silt/F. Sand, Trace Roots/Gravel
SS-04	E06	OU4-SS-04-COMP6(0-1)		
SS-04	E06	OU4-SS-04-24(0-1)	Drip Zone, North of House	Light Gray Gravel
SS-04	E06	OU4-SS-04-25(0-1)	Drip Zone, North of House, Closest to Oak Street	Light Gray Gravel/F. Sand, Trace Roots
SS-04	E06	OU4-SS-04-26(0-1)	Drip Zone, South of House, Closest to Oak Street	Light Brown Silt/F. Sand, Trace Roots/Gravel
SS-04	E06	OU4-SS-04-27(0-1)	Drip Zone, South of House	Dark Gray/Brown Silt/F. Sand, Trace Roots/Gravel
SS-04	E06	OU4-SS-04-COMP6(1-6)		
SS-04	E06	OU4-SS-04-24(1-6)	Drip Zone, North of House	Light Gray Gravel/Dark Brown Silt/F. Sand, Trace Organics

Appendix C

Composites and Discretes

New Jersey Zinc/Mobil Chemical
DePue, Illinois

Property Location	IDPH Property Identification	Sample Name	Description	Soil Description
SS-04	E06	OU4-SS-04-25(1-6)	Drip Zone, North of House, Closest to Oak Street	Light Gray Gravel/F. Sand/Orange Brown Silt/F. Sand, Trace Roots
SS-04	E06	OU4-SS-04-26(1-6)	Drip Zone, South of House, Closest to Oak Street	Light Brown/Dark Gray Silt/F. Sand, Trace Roots/Gravel
SS-04	E06	OU4-SS-04-27(1-6)	Drip Zone, South of House	Dark Gray/Brown Silt/F. Sand, Trace Roots/Gravel
SS-04	E06	OU4-SS-04-COMP6(12-18)		
SS-04	E06	OU4-SS-04-24(12-18)	Drip Zone, North of House	Orange Brown Silt
SS-04	E06	OU4-SS-04-25(12-18)	Drip Zone, North of House, Closest to Oak Street	Light Brown Silt, Trace Organics
SS-04	E06	OU4-SS-04-26(12-18)	Drip Zone, South of House, Closest to Oak Street	Dark Gray/Orange Brown Silt/F. Sand, Trace Roots
SS-04	E06	OU4-SS-04-27(12-18)	Drip Zone, South of House	Orange Brown Silt, Trace F. Sand/Gravel/Slag
SS-04	E06	OU4-SS-04-COMP6(6-12)		
SS-04	E06	OU4-SS-04-24(6-12)	Drip Zone, North of House	Dark Brown/Orange Brown Silt/F. Sand, Trace Organics
SS-04	E06	OU4-SS-04-25(6-12)	Drip Zone, North of House, Closest to Oak Street	Orange Brown Silt/F. Sand, Trace Roots
SS-04	E06	OU4-SS-04-26(6-12)	Drip Zone, South of House, Closest to Oak Street	Dark Gray Silt/F. Sand, Trace Roots
SS-04	E06	OU4-SS-04-27(6-12)	Drip Zone, South of House	Orange Brown Silt, Trace F. Sand/Gravel/Slag
SS-05	W05	OU4-SS-05-15(0-1)	Backyard Near Garage in Garden Plot	Dark Brown Silt, Trace F. Sand/Organics/Roots/Gravel
SS-05	W05	OU4-SS-05-15(1-6)	Backyard Near Garage in Garden Plot	Dark Brown Silt, Trace F. Sand/Organics/Roots/Gravel
SS-05	W05	OU4-SS-05-15(12-18)	Backyard Near Garage in Garden Plot	Orange Brown Silt/F. Sand, Trace F. Gravel
SS-05	W05	OU4-SS-05-15(6-12)	Backyard Near Garage in Garden Plot	Dark Brown Silt/F. Sand, Trace Wood/Gravel
SS-05	W05	OU4-SS-05-COMP1(0-1)		
SS-05	W05	OU4-SS-05-01(0-1)	Front Yard, East of House	Dark Gray/Brown F. Sand, Trace Roots/F. Gravel
SS-05	W05	OU4-SS-05-02(0-1)	Front Yard, East of House	Dark Gray F. Sand, Trace Roots/Gravel
SS-05	W05	OU4-SS-05-03(0-1)	Front Yard, East of House	Dark Gray F. Sand, Trace Roots/Gravel
SS-05	W05	OU4-SS-05-04(0-1)	Front Yard, East of House, Front/Side Yard	Dark Gray/Brown F. Sand, Trace Roots/Gravel
SS-05	W05	OU4-SS-05-05(0-1)	Side Yard, North of House	Dark Gray Brown F. Sand, Trace Roots/Gravel
SS-05	W05	OU4-SS-05-05(0-1)-DUP	Side Yard, North of House	Dark Gray Brown F. Sand, Trace Roots/Gravel
SS-05	W05	OU4-SS-05-COMP1(1-6)		

Appendix C

Composites and Discretes

New Jersey Zinc/Mobil Chemical
DePue, Illinois

Property Location	IDPH Property Identification	Sample Name	Description	Soil Description
SS-05	W05	OU4-SS-05-01(1-6)	Front Yard, East of House	Dark Gray/Brown/Light Brown F. Sand, Trace Roots/Silt/Gravel
SS-05	W05	OU4-SS-05-02(1-6)	Front Yard, East of House	Dark Gray/Orange Brown F. Sand, Trace Roots/Silt/Gravel
SS-05	W05	OU4-SS-05-03(1-6)	Front Yard, East of House	Dark Gray/Orange/Brown F. Sand, Trace Roots/Gravel
SS-05	W05	OU4-SS-05-04(1-6)	Front Yard, East of House, Front/Side Yard	Dark Gray/Brown F. Sand, Trace Roots/Gravel
SS-05	W05	OU4-SS-05-05(1-6)	Side Yard, North of House	Dark Gray Brown F. Sand, Trace Roots/Gravel
SS-05	W05	OU4-SS-05-COMP1(12-18)		
SS-05	W05	OU4-SS-05-01(12-18)	Front Yard, East of House	Light Brown/Dark Brown Silt/F. Sand, Trace Gravel
SS-05	W05	OU4-SS-05-02(12-18)	Front Yard, East of House	Orange Brown F. Sand/Dark Gray Brown Silt, Trace Gravel
SS-05	W05	OU4-SS-05-03(12-18)	Front Yard, East of House	Gray Brown Silt/F. Sand
SS-05	W05	OU4-SS-05-04(12-18)	Front Yard, East of House, Front/Side Yard	Gray/Orange/Brown Silt/F. Sand, Trace Roots/Gravel
SS-05	W05	OU4-SS-05-05(12-18)	Side Yard, North of House	Light Gray Silt/F. Sand, Trace Roots/Gravel
SS-05	W05	OU4-SS-05-COMP1(6-12)		
SS-05	W05	OU4-SS-05-01(6-12)	Front Yard, East of House	Light Brown F. Sand, Trace Silt/Gravel
SS-05	W05	OU4-SS-05-02(6-12)	Front Yard, East of House	Orange Brown F. Sand, Trace Silt/Gravel
SS-05	W05	OU4-SS-05-03(6-12)	Front Yard, East of House	Orange Brown/Gray Brown F. Sand/F. Gravel, Trace Roots
SS-05	W05	OU4-SS-05-04(6-12)	Front Yard, East of House, Front/Side Yard	Gray/Brown F. Sand, Trace Silt/Roots/Gravel
SS-05	W05	OU4-SS-05-05(6-12)	Side Yard, North of House	Light Gray F. Sand, Trace Roots/Gravel
SS-05	W05	OU4-SS-05-COMP2(0-1)		
SS-05	W05	OU4-SS-05-06(0-1)	Side Yard, North of House	Dark Gray, F. Sand, Trace Roots/Gravel
SS-05	W05	OU4-SS-05-07(0-1)	Side Yard, North of House	Gray/Brown F. Sand/Gravel, Trace Roots
SS-05	W05	OU4-SS-05-08(0-1)	Side Yard, North of House	Gray/Brown F. Sand , Trace Silt/Roots/Gravel
SS-05	W05	OU4-SS-05-09(0-1)	Side Yard, North of House	Dark Brown/Black F. Sand/Organics/Woody Debris
SS-05	W05	OU4-SS-05-09(0-1)-DUP	Side Yard, North of House	Dark Brown/Black F. Sand/Organics/Woody Debris
SS-05	W05	OU4-SS-05-COMP2(1-6)		
SS-05	W05	OU4-SS-05-06(1-6)	Side Yard, North of House	Dark Gray/Orange/Brown F. Sand, Trace Roots/Silt/Sand/Gravel
SS-05	W05	OU4-SS-05-07(1-6)	Side Yard, North of House	Gray/Brown/Orange F. Sand/Gray Brown Gravel/Orange/Brown Silt, Trace Roots
SS-05	W05	OU4-SS-05-08(1-6)	Side Yard, North of House	Gray Brown/Orange Brown Silt/F. Sand, Trace Roots/Gravel
SS-05	W05	OU4-SS-05-09(1-6)	Side Yard, North of House	Dark Brown/Black F. Sand/Organics/Woody Debris
SS-05	W05	OU4-SS-05-09(1-6) DUP	Side Yard, North of House	Dark Brown/Black F. Sand/Organics/Woody Debris
SS-05	W05	OU4-SS-05-COMP2(12-18)		
SS-05	W05	OU4-SS-05-06(12-18)	Side Yard, North of House	Orange/Brown F. Sand, Trace Silt/M.Sand/Gravel
SS-05	W05	OU4-SS-05-07(12-18)	Side Yard, North of House	Dark Brown/Gray Brown Silt/F. Sand, Trace Gravel
SS-05	W05	OU4-SS-05-08(12-18)	Side Yard, North of House	Orange Brown Silt/F. Sand, Trace Gravel

Appendix C

Composites and Discretes

New Jersey Zinc/Mobil Chemical
DePue, Illinois

Property Location	IDPH Property Identification	Sample Name	Description	Soil Description
SS-05	W05	OU4-SS-05-09(12-18)	Side Yard, North of House	Light Gray F. Sand, Trace Gravel/Roots
SS-05	W05	OU4-SS-05-COMP2(6-12)		
SS-05	W05	OU4-SS-05-06(6-12)	Side Yard, North of House	Orange/Brown F. Sand, Trace Silt/M. Sand/Gravel
SS-05	W05	OU4-SS-05-07(6-12)	Side Yard, North of House	Orange/Brown/Dark Brown Silt/F. Sand, Trace Roots/Gravel
SS-05	W05	OU4-SS-05-08(6-12)	Side Yard, North of House	Orange Brown Silt/F. Sand, Trace Gravel
SS-05	W05	OU4-SS-05-09(6-12)	Side Yard, North of House	Dark Brown F. Sand, Some Gravel, Trace Roots
SS-05	W05	OU4-SS-DUP-6	Side Yard, North of House	Dark Brown F. Sand, Some Gravel, Trace Roots
SS-05	W05	OU4-SS-05-COMP3(0-1)		
SS-05	W05	OU4-SS-05-10(0-1)	Back Yard, West of House	Dark Gray F. Sand, Trace Roots/F. Gravel
SS-05	W05	OU4-SS-05-11(0-1)	Back Yard, West of House	Dark Gray/Brown F. Sand, Trace Silt/Roots
SS-05	W05	OU4-SS-05-12(0-1)	Back Yard, West of House	Dark Gray F. Sand, Trace Roots/Gravel/Twigs
SS-05	W05	OU4-SS-05-13(0-1)	Back Yard, West of House	Light Gray/Brwon F. Sand, Trave Roots/Gravel
SS-05	W05	OU4-SS-05-14(0-1)	Back Yard, West of House	Dark Brown F. Sand, Trace Roots/Gravel
SS-05	W05	OU4-SS-05-COMP3(1-6)		
SS-05	W05	OU4-SS-05-10(1-6)	Back Yard, West of House	Dark Gray/Light Brown F. Sand/Silt, Trace Roots/F. Gravel
SS-05	W05	OU4-SS-05-11(1-6)	Back Yard, West of House	Dark Gray/Brown F. Sand, Trace Silt/Roots
SS-05	W05	OU4-SS-05-12(1-6)	Back Yard, West of House	Dark Gray F. Sand, Trace Roots/Gravel/Woody Debris
SS-05	W05	OU4-SS-05-13(1-6)	Back Yard, West of House	Light Gray/Brown F. Sand, Trace Roots/Gravel
SS-05	W05	OU4-SS-05-14(1-6)	Back Yard, West of House	Dark Brown/Orange Brown Silt/F. Sand, Trace Roots/Gravel
SS-05	W05	OU4-SS-05-COMP3(12-18)		
SS-05	W05	OU4-SS-05-10(12-18)	Back Yard, West of House	Light Orange Brown/Light Gray F. Sand/Silt/F.Gravel
SS-05	W05	OU4-SS-05-11(12-18)	Back Yard, West of House	Light Gray Silt, Trace F. Sand/Roots
SS-05	W05	OU4-SS-05-12(12-18)	Back Yard, West of House	Light Gray Silt/F. Sand, Trace Roots/Gravel
SS-05	W05	OU4-SS-05-13(12-18)	Back Yard, West of House	Gray/Brown F. Sand, Trace Silt/Gravel
SS-05	W05	OU4-SS-05-14(12-18)	Back Yard, West of House	Gray Brown/Dark Gray F.Sand/Silt/Gravel, Trace Slag
SS-05	W05	OU4-SS-05-COMP3(6-12)		
SS-05	W05	OU4-SS-05-10(6-12)	Back Yard, West of House	Light Brown F. Sand/Silt, Trace Roots/F. Gravel
SS-05	W05	OU4-SS-05-11(6-12)	Back Yard, West of House	Light Gray Silt, Trace F. Sand/Roots
SS-05	W05	OU4-SS-05-12(6-12)	Back Yard, West of House	Dark Gray Silt, Trace F. Sand/Roots/Woody Debris
SS-05	W05	OU4-SS-05-13(6-12)	Back Yard, West of House	Orange/Brown F. Sand, Trace Silt/Gravel
SS-05	W05	OU4-SS-05-14(6-12)	Back Yard, West of House	Orange Brown/Gray Brown Silt/F. Sand/Gravel
SS-05	W05	OU4-SS-05-14(6-12)-DUP	Back Yard, West of House	Orange Brown/Gray Brown Silt/F. Sand/Gravel
SS-05	W05	OU4-SS-05-COMP4(0-1)		
SS-05	W05	OU4-SS-05-16(0-1)	Drip Zone, Northeast Corner of House	Dark Brown Silt/F. Sand, Trace Roots/Gravel

Appendix C

Composites and Discretes

New Jersey Zinc/Mobil Chemical
DePue, Illinois

Property Location	IDPH Property Identification	Sample Name	Description	Soil Description
SS-05	W05	OU4-SS-05-17(0-1)	Drip Zone, North Side of House	Dark Brown F. Sand, Some Gravel, Trace Roots
SS-05	W05	OU4-SS-05-18(0-1)	Drip Zone, Southeast Corner of House	Dark Brown Silt, Trace F. Sand/Roots/Gravel
SS-05	W05	OU4-SS-05-19(0-1)	Drip Zone, South Side of House	Light Orange/Brown F. Sand, Trace Gravel/Roots
SS-05	W05	OU4-SS-05-COMP4(1-6)		
SS-05	W05	OU4-SS-05-16(1-6)	Drip Zone, Northeast Corner of House	Dark Brown/Orange/Brown Silt/F. Sand, Trace Roots/Gravel
SS-05	W05	OU4-SS-05-17(1-6)	Drip Zone, North Side of House	Dark Brown F. Sand, Some Gravel, Trace Roots
SS-05	W05	OU4-SS-05-18(1-6)	Drip Zone, Southeast Corner of House	Dark Brown Silt, Trace F. Sand/Roots/Gravel
SS-05	W05	OU4-SS-05-19(1-6)	Drip Zone, South Side of House	Light Orange/Brown F. Sand, Trace Gravel/Roots
SS-05	W05	OU4-SS-05-COMP4(12-18)		
SS-05	W05	OU4-SS-05-16(12-18)	Drip Zone, Northeast Corner of House	Dark Brown Silt/F. Sand, Trace F. Gravel
SS-05	W05	OU4-SS-05-17(12-18)	Drip Zone, North Side of House	Dark Brown F. Sand, Trace Silt
SS-05	W05	OU4-SS-05-18(12-18)	Drip Zone, Southeast Corner of House	Dark Brown Silt/F. Sand
SS-05	W05	OU4-SS-05-19(12-18)	Drip Zone, South Side of House	Orange Brown/Dark Brown F. Sand, Some Silt, Trace Gravel
SS-05	W05	OU4-SS-05-COMP4(6-12)		
SS-05	W05	OU4-SS-05-16(6-12)	Drip Zone, Northeast Corner of House	Orange/Brown/Dark Brown Silt/F. Sand, Trace Gravel
SS-05	W05	OU4-SS-05-17(6-12)	Drip Zone, North Side of House	Dark Brown/Orange Brown F. Sand, Some Gravel, Trace Roots
SS-05	W05	OU4-SS-05-18(6-12)	Drip Zone, Southeast Corner of House	Dark Brown Silt/F. Sand, Trace F.Gravel
SS-05	W05	OU4-SS-05-19(6-12)	Drip Zone, South Side of House	Light Orange Brown F. Sand/Gravel, Some Silt, Trace Roots
SS-06	D19	OU4-SS-06-COMP1(0-1)		
SS-06	D19	OU4-SS-06-01(0-1)	Side Yard, Southwest of House	Dark Brown Silt, Little F. Sand, Trace Roots
SS-06	D19	OU4-SS-06-02(0-1)	Side Yard, South of House	Gray Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-06	D19	OU4-SS-06-03(0-1)	Side Yard, South of House	Brown Silt, Little F. Sand, Trace Roots
SS-06	D19	OU4-SS-06-04(0-1)	Side Yard, South of House	Dark Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-06	D19	OU4-SS-06-COMP1(1-6)		
SS-06	D19	OU4-SS-06-01(1-6)	Side Yard, Southwest of House	Dark Brown Silt, Little F. Sand, Trace Roots
SS-06	D19	OU4-SS-06-02(1-6)	Side Yard, South of House	Gray Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-06	D19	OU4-SS-06-03(1-6)	Side Yard, South of House	Brown Silt, Little F. Sand, Trace Roots
SS-06	D19	OU4-SS-06-04(1-6)	Side Yard, South of House	Dark Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-06	D19	OU4-SS-06-COMP1(12-18)		
SS-06	D19	OU4-SS-06-01(12-18)	Side Yard, Southwest of House	Dark Brown Silt, Little F. Sand, Trace Roots

Appendix C

Composites and Discretes

New Jersey Zinc/Mobil Chemical
DePue, Illinois

Property Location	IDPH Property Identification	Sample Name	Description	Soil Description
SS-06	D19	OU4-SS-06-02(12-18)	Side Yard, South of House	Brown/Orange Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-06	D19	OU4-SS-06-03(12-18)	Side Yard, South of House	Orange Brown Silt, Little F. Sand, Trace Roots
SS-06	D19	OU4-SS-06-04(12-18)	Side Yard, South of House	Orange/Brown/Black Silt, Little F. Sand, Trace Roots/Black Fines
SS-06	D19	OU4-SS-06-COMP1(6-12)		
SS-06	D19	OU4-SS-06-01(6-12)	Side Yard, Southwest of House	Dark Brown/Brown Silt, Little F. Sand, Trace Roots
SS-06	D19	OU4-SS-06-02(6-12)	Side Yard, South of House	Gray Brown/Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-06	D19	OU4-SS-06-03(6-12)	Side Yard, South of House	Brown/Orange Brown Silt, Little F. Sand, Trace Roots
SS-06	D19	OU4-SS-06-04(6-12)	Side Yard, South of House	Dark Brown/Orange/Black Silt, Little F. M. Sand, Trace Roots/F. Gravel
SS-06	D19	OU4-SS-06-COMP2(0-1)		
SS-06	D19	OU4-SS-06-05(0-1)	Back Yard, Southeast of House	Brown Silt, Little F. Sand, Trace Roots
SS-06	D19	OU4-SS-06-06(0-1)	Back Yard, Southeast of House	Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-06	D19	OU4-SS-06-07(0-1)	Back Yard, East of House	Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-06	D19	OU4-SS-06-08(0-1)	Back Yard, East of House	Brown Black Orange Silt, Little F. Sand, Trace Roots
SS-06	D19	OU4-SS-06-09(0-1)	Back Yard, East of House	Gray Brown Silt, Little F. Sand, Trace Roots
SS-06	D19	OU4-SS-06-COMP2(1-6)		
SS-06	D19	OU4-SS-06-05(1-6)	Back Yard, Southeast of House	Brown Silt, Little F. Sand, Trace Roots
SS-06	D19	OU4-SS-06-06(1-6)	Back Yard, Southeast of House	Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-06	D19	OU4-SS-06-07(1-6)	Back Yard, East of House	Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-06	D19	OU4-SS-06-08(1-6)	Back Yard, East of House	Brown Black Orange Silt, Little F. Sand, Trace Roots
SS-06	D19	OU4-SS-06-09(1-6)	Back Yard, East of House	Gray Brown Silt, Little F. Sand, Trace Roots
SS-06	D19	OU4-SS-06-09(1-6)-DUP	Back Yard, East of House	Gray Brown Silt, Little F. Sand, Trace Roots
SS-06	D19	OU4-SS-06-COMP2(12-18)		
SS-06	D19	OU4-SS-06-05(12-18)	Back Yard, Southeast of House	Dark Brown Silt, Little F. Sand, Trace Roots
SS-06	D19	OU4-SS-06-06(12-18)	Back Yard, Southeast of House	Dark Brown Silt, Little F. Sand, Trace Roots
SS-06	D19	OU4-SS-06-07(12-18)	Back Yard, East of House	Orange Brown Silt/Clay, Little F. Sand, Trace Roots/F. Gravel
SS-06	D19	OU4-SS-06-08(12-18)	Back Yard, East of House	Brown Black Orange Silt, Little F. Sand, Trace Roots
SS-06	D19	OU4-SS-06-09(12-18)	Back Yard, East of House	Orange Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-06	D19	OU4-SS-06-COMP2(6-12)		
SS-06	D19	OU4-SS-06-05(6-12)	Back Yard, Southeast of House	Brown/Orange Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-06	D19	OU4-SS-06-06(6-12)	Back Yard, Southeast of House	Brown/Dark Brown Silt, Little F. Sand, Trace Roots/F. Gravel

Appendix C

Composites and Discretes

New Jersey Zinc/Mobil Chemical
DePue, Illinois

Property Location	IDPH Property Identification	Sample Name	Description	Soil Description
SS-06	D19	OU4-SS-06-07(6-12)	Back Yard, East of House	Brown/Orange Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-06	D19	OU4-SS-06-08(6-12)	Back Yard, East of House	Brown Black Orange Silt, Little F. Sand, Trace Roots
SS-06	D19	OU4-SS-06-09(6-12)	Back Yard, East of House	Gray Brown/Orange Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-06	D19	OU4-SS-06-COMP3(0-1)		
SS-06	D19	OU4-SS-06-10(0-1)	Back Yard, Northeast of House	Gray/Brown F. Sand, Trace Roots/F. Gravel
SS-06	D19	OU4-SS-06-11(0-1)	Back Yard, Northeast of House	Dark Gray F. Sand/Silt, Trace Roots/Gravel
SS-06	D19	OU4-SS-06-12(0-1)	Back Yard, Northeast of House	Light Gray F. Sand, Trace Roots/Gravel
SS-06	D19	OU4-SS-06-13(0-1)	Back Yard, Northeast of House	Gray/Brown F. Sand, Trace Roots/Gravel
SS-06	D19	OU4-SS-06-14(0-1)	Back Yard, Northeast of House	Dark Gray F. Sand, Trace Roots/Gravel
SS-06	D19	OU4-SS-06-14(0-1)-DUP	Back Yard, Northeast of House	Dark Gray F. Sand, Trace Roots/Gravel
SS-06	D19	OU4-SS-06-COMP3(1-6)		
SS-06	D19	OU4-SS-06-10(1-6)	Back Yard, Northeast of House	Gray/Brown F. Sand, Trace Roots/F. Gravel
SS-06	D19	OU4-SS-06-11(1-6)	Back Yard, Northeast of House	Dark Gray F. Sand/Silt, Trace Roots/Gravel
SS-06	D19	OU4-SS-06-12(1-6)	Back Yard, Northeast of House	Light Gray/Dark Gray F. Sand/Silt, Trace Roots/Gravel
SS-06	D19	OU4-SS-06-13(1-6)	Back Yard, Northeast of House	Gray/Brown/Light Brown F. Sand, Trace Roots/Gravel
SS-06	D19	OU4-SS-06-14(1-6)	Back Yard, Northeast of House	Dark Gray/Gray Brown F. Sand, Trace Roots/Gravel
SS-06	D19	OU4-SS-06-COMP3(12-18)		
SS-06	D19	OU4-SS-06-10(12-18)	Back Yard, Northeast of House	Orange Brown F. Sand/Concrete, Trace Roots/F. Gravel
SS-06	D19	OU4-SS-06-11(12-18)	Back Yard, Northeast of House	Dark Gray Silt, Trace F. Sand/Gravel
SS-06	D19	OU4-SS-06-12(12-18)	Back Yard, Northeast of House	Orange Brown F. Sand, Trace Silt/Gravel
SS-06	D19	OU4-SS-06-13(12-18)	Back Yard, Northeast of House	Gray Brown Silt, Trace F. Sand/Gravel
SS-06	D19	OU4-SS-06-14(12-18)	Back Yard, Northeast of House	Light Gray Silt/F. Sand, Trace Gravel
SS-06	D19	OU4-SS-06-COMP3(6-12)		
SS-06	D19	OU4-SS-06-10(6-12)	Back Yard, Northeast of House	Orange Brown F. Sand, Trace Roots/F. Gravel
SS-06	D19	OU4-SS-06-11(6-12)	Back Yard, Northeast of House	Dark Gray F. Sand/Silt, Trace Roots/Gravel

Appendix C

Composites and Discretes

New Jersey Zinc/Mobil Chemical
DePue, Illinois

Property Location	IDPH Property Identification	Sample Name	Description	Soil Description
SS-06	D19	OU4-SS-06-12(6-12)	Back Yard, Northeast of House	Dark Brown/Orange Brown F. Sand/Silt, Trace Gravel
SS-06	D19	OU4-SS-06-13(6-12)	Back Yard, Northeast of House	Light Brown/Gray Brown F. Sand/Silt, Trace Roots/Gravel
SS-06	D19	OU4-SS-06-14(6-12)	Back Yard, Northeast of House	Gray Brown/Light Gray Silt/F. Sand, Trace Roots/Gravel
SS-06	D19	OU4-SS-06-14(6-12)-DUP	Back Yard, Northeast of House	Gray Brown/Light Gray Silt/F. Sand, Trace Roots/Gravel
SS-06	D19	OU4-SS-06-COMP4(0-1)		
SS-06	D19	OU4-SS-06-15(0-1)	Side Yard, North of House	Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-06	D19	OU4-SS-06-16(0-1)	Side Yard, North of House	Gray Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-06	D19	OU4-SS-06-17(0-1)	Side Yard, North of House	Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-06	D19	OU4-SS-06-18(0-1)	Side Yard, North of House	Dark Brown Silt, Little F. Sand, Trace Roots
SS-06	D19	OU4-SS-06-19(0-1)	Side Yard, North of House	Brown Silt, Little F. Sand/Roots, Trace F. Gravel
SS-06	D19	OU4-SS-06-COMP4(1-6)		
SS-06	D19	OU4-SS-06-15(1-6)	Side Yard, North of House	Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-06	D19	OU4-SS-06-16(1-6)	Side Yard, North of House	Gray Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-06	D19	OU4-SS-06-17(1-6)	Side Yard, North of House	Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-06	D19	OU4-SS-06-18(1-6)	Side Yard, Northwest of House	Dark Brown Silt, Little F. Sand, Trace Roots
SS-06	D19	OU4-SS-06-19(1-6)	Side Yard, Northwest of House	Brown Silt, Little F. Sand/Roots, Trace F. Gravel
SS-06	D19	OU4-SS-06-19(1-6)-DUP	Side Yard, Northwest of House	Brown Silt, Little F. Sand/Roots, Trace F. Gravel
SS-06	D19	OU4-SS-06-COMP4(12-18)		
SS-06	D19	OU4-SS-06-15(12-18)	Side Yard, North of House	Light Brown Silt, Little F. Sand, Trace Roots/F.Gravel
SS-06	D19	OU4-SS-06-16(12-18)	Side Yard, North of House	Brown Silt, Some F. Sand, Little F. M. Gravel
SS-06	D19	OU4-SS-06-17(12-18)	Side Yard, North of House	Orange/Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-06	D19	OU4-SS-06-18(12-18)	Side Yard, Northwest of House	Gray Brown Silt, Little F. Sand, Trace Roots
SS-06	D19	OU4-SS-06-19(12-18)	Side Yard, Northwest of House	Gray Brown Silt, Little F. Sand, Trace Roots/Slag
SS-06	D19	OU4-SS-06-COMP4(6-12)		
SS-06	D19	OU4-SS-06-15(6-12)	Side Yard, North of House	Brown/Orange Silt, Little F. Sand, Trace Roots/F. Gravel
SS-06	D19	OU4-SS-06-16(6-12)	Side Yard, North of House	Gray Brown Black Silt, Little F. Sand, Trace Roots/F. Gravel
SS-06	D19	OU4-SS-06-17(6-12)	Side Yard, North of House	Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-06	D19	OU4-SS-06-18(6-12)	Side Yard, Northwest of House	Dark Brown/Orange Brown Silt, Little F. Sand, Trace Roots

Appendix C

Composites and Discretes

New Jersey Zinc/Mobil Chemical
DePue, Illinois

Property Location	IDPH Property Identification	Sample Name	Description	Soil Description
SS-06	D19	OU4-SS-06-19(6-12)	Side Yard, Northwest of House	Brown Silt, Little F. Sand/Roots, Trace F. Gravel
SS-06	D19	OU4-SS-06-19(6-12)-DUP	Side Yard, Northwest of House	Brown Silt, Little F. Sand/Roots, Trace F. Gravel
SS-06	D19	OU4-SS-06-COMP5(0-1)		
SS-06	D19	OU4-SS-06-20(0-1)	Drip Zone, Side of House	Dark Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-06	D19	OU4-SS-06-21(0-1)	Drip Zone, Side of House	Orange/Brown/Black Silt, Little F. Sand, Trace Roots
SS-06	D19	OU4-SS-06-22(0-1)	Drip Zone, Side of House	Gray Brown Silt, Little F. Sand, Trace Roots
SS-06	D19	OU4-SS-06-23(0-1)	Drip Zone, Side of House	Gray Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-06	D19	OU4-SS-06-COMP5(1-6)		
SS-06	D19	OU4-SS-06-20(1-6)	Drip Zone, South Side of House	Dark Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-06	D19	OU4-SS-06-21(1-6)	Drip Zone, South Side of House	Orange/Brown/Black Silt, Little F. Sand, Trace Roots
SS-06	D19	OU4-SS-06-22(1-6)	Drip Zone, North Side of House	Gray Brown/Orange Brown Silt, Little F. Sand, Trace Roots/Clay
SS-06	D19	OU4-SS-06-23(1-6)	Drip Zone, North Side of House	Gray Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-06	D19	OU4-SS-06-COMP5(12-18)		
SS-06	D19	OU4-SS-06-20(12-18)	Drip Zone, South Side of House	Dark Brown/Light Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-06	D19	OU4-SS-06-21(12-18)	Drip Zone, South Side of House	Dark Brown/Orange Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-06	D19	OU4-SS-06-22(12-18)	Drip Zone, North Side of House	Orange Brown Silt, Little F. Sand, Trace Clay/Roots
SS-06	D19	OU4-SS-06-23(12-18)	Drip Zone, North Side of House	Red/Brown Silt, Some F. Sand, Little F. Gravel, Trace Roots
SS-06	D19	OU4-SS-06-COMP5(6-12)		
SS-06	D19	OU4-SS-06-20(6-12)	Drip Zone, South Side of House	Dark Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-06	D19	OU4-SS-06-21(6-12)	Drip Zone, South Side of House	Black/Dark Brown Silt, Little F. Gravel, Trace Roots/F. Sand
SS-06	D19	OU4-SS-06-22(6-12)	Drip Zone, North Side of House	Orange Brown Silt, Little F. Sand, Trace Roots/Clay
SS-06	D19	OU4-SS-DUP-5	Drip Zone, North Side of House	Orange Brown Silt, Little F. Sand, Trace Roots/Clay
SS-06	D19	OU4-SS-06-23(6-12)	Drip Zone, North Side of House	Gray Brown/Red/Brown Silt, Some F. Sand, Little F. Gravel, Trace Roots
SS-06	D19	OU4-SS-06-23(6-12)-DUP	Drip Zone, North Side of House	Gray Brown/Red/Brown Silt, Some F. Sand, Little F. Gravel, Trace Roots
SS-07	W02	OU4-SS-07-COMP1(0-1)		
SS-07	W02	OU4-SS-07-01(0-1)	Front Yard, West of House	Brown Silt, Little F. Sand, Trace Roots
SS-07	W02	OU4-SS-07-02(0-1)	Front Yard, West of House	Gray/Brown Silt, Little F. Sand
SS-07	W02	OU4-SS-07-03(0-1)	Front Yard, West of House	Gray Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-07	W02	OU4-SS-07-04(0-1)	Front Yard, West of House	Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-07	W02	OU4-SS-07-05(0-1)	Front Yard, West of House	Gray Brown Silt, Some F. Sand, Trace Roots
SS-07	W02	OU4-SS-07-COMP1(1-6)		
SS-07	W02	OU4-SS-07-01(1-6)	Front Yard, West of House	Brown Silt, Little F. Sand, Trace Roots
SS-07	W02	OU4-SS-07-02(1-6)	Front Yard, West of House	Gray/Brown Silt, Little F. Sand
SS-07	W02	OU4-SS-07-03(1-6)	Front Yard, West of House	Gray Brown Silt, Little F. Sand, Trace Roots/F. Gravel

Appendix C

Composites and Discretes

New Jersey Zinc/Mobil Chemical
DePue, Illinois

Property Location	IDPH Property Identification	Sample Name	Description	Soil Description
SS-07	W02	OU4-SS-07-04(1-6)	Front Yard, West of House	Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-07	W02	OU4-SS-07-05(1-6)	Front Yard, West of House	Gray Brown/Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-07	W02	OU4-SS-07-COMP1(12-18)		
SS-07	W02	OU4-SS-07-01(12-18)	Front Yard, West of House	Light Brown/Gray Silt, Little F. Sand, Trace Roots/F. Gravel
SS-07	W02	OU4-SS-07-02(12-18)	Front Yard, West of House	Light Brown Silt, Little F. Sand, Trace Roots
SS-07	W02	OU4-SS-07-03(12-18)	Front Yard, West of House	Brown/Dark Brown Silt, Trace Roots/F. Sand
SS-07	W02	OU4-SS-07-04(12-18)	Front Yard, West of House	Dark Brown Silt, Little F. Sand, Trace Roots
SS-07	W02	OU4-SS-07-05(12-18)	Front Yard, West of House	Brown Silt, Trace Roots/F. Gravel
SS-07	W02	OU4-SS-07-COMP1(6-12)		
SS-07	W02	OU4-SS-07-01(6-12)	Front Yard, West of House	Light Brown/Gray Silt, Little F. Sand, Trace Roots/F. Gravel
SS-07	W02	OU4-SS-07-02(6-12)	Front Yard, West of House	Dark Gray Brown Silt, Little F. Sand, Trace F. Sand/F. Gravel
SS-07	W02	OU4-SS-07-03(6-12)	Front Yard, West of House	Brown Silt, Trace Roots/F. Sand
SS-07	W02	OU4-SS-07-04(6-12)	Front Yard, West of House	Brown/Gray Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-07	W02	OU4-SS-07-05(6-12)	Front Yard, West of House	Gray Brown/Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-07	W02	OU4-SS-07-05(6-12)-DUP	Front Yard, West of House	Gray Brown/Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-07	W02	OU4-SS-07-COMP2(0-1)		
SS-07	W02	OU4-SS-07-06(0-1)	Side Yard, Southwest of House	Brown Silt, Little F. Sand, Trace Roots
SS-07	W02	OU4-SS-07-07(0-1)	Side Yard, South of House	Gray Brown Silt, Little F. Sand, Trace Roots
SS-07	W02	OU4-SS-07-08(0-1)	Side Yard, South of House	Gray Brown Silt, Little F. Sand, Trace Roots
SS-07	W02	OU4-SS-07-09(0-1)	Side Yard, South of House	Gray Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-07	W02	OU4-SS-07-COMP2(1-6)		
SS-07	W02	OU4-SS-07-06(1-6)	Side Yard, Southwest of House	Brown Silt, Little F. Sand, Trace roots
SS-07	W02	OU4-SS-07-07(1-6)	Side Yard, South of House	Gray Brown Silt, Little F. Sand, Trace Roots
SS-07	W02	OU4-SS-07-08(1-6)	Side Yard, South of House	Gray Brown Silt, Little F. Sand, Trace Roots
SS-07	W02	OU4-SS-07-09(1-6)	Side Yard, South of House	Gray Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-07	W02	OU4-SS-07-COMP2(12-18)		
SS-07	W02	OU4-SS-07-06(12-18)	Side Yard, Southwest of House	Light Brown Silt, Little F. Sand, Trace Roots
SS-07	W02	OU4-SS-07-07(12-18)	Side Yard, South of House	Light Brown Silt, Little F. Sand, Trace Roots/Wood Debris
SS-07	W02	OU4-SS-07-08(12-18)	Side Yard, South of House	Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-07	W02	OU4-SS-07-09(12-18)	Side Yard, South of House	Gray/Brown Silt, Trace F. Sand/Roots
SS-07	W02	OU4-SS-07-COMP2(6-12)		
SS-07	W02	OU4-SS-07-06(6-12)	Side Yard, Southwest of House	Light Brown Silt, Little F. Sand, Trace Roots
SS-07	W02	OU4-SS-07-07(6-12)	Side Yard, South of House	Brown/Light Brown Silt, Little F. Sand, Trace Roots/Woody Debris

Appendix C

Composites and Discretes

New Jersey Zinc/Mobil Chemical
DePue, Illinois

Property Location	IDPH Property Identification	Sample Name	Description	Soil Description
SS-07	W02	OU4-SS-07-08(6-12)	Side Yard, South of House	Gray Brown/Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-07	W02	OU4-SS-07-09(6-12)	Side Yard, South of House	Gray Brown/Gray/Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-07	W02	OU4-SS-07-COMP3(0-1)		
SS-07	W02	OU4-SS-07-10(0-1)	Back Yard, East of House, Near Garage	Brown F.M. Sand
SS-07	W02	OU4-SS-07-11(0-1)	Back Yard, East of House, Near Garage	Gray Brown Silt, Little F. Sand, Trace Roots
SS-07	W02	OU4-SS-07-12(0-1)	Back Yard, East of House, Near Garage	Gray Brown Silt, Little F. Sand, Trace Roots
SS-07	W02	OU4-SS-07-13(0-1)	Back Yard, East of House, Near Garage	Gray Brown Silt, Little F. Sand, Trace Roots
SS-07	W02	OU4-SS-07-14(0-1)	Back Yard, East of House, Near Garage	Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-07	W02	OU4-SS-07-COMP3(1-6)		
SS-07	W02	OU4-SS-07-10(1-6)	Back Yard, East of House, Near Garage	Brown F. M. Sand/ Dark Brown Silt, Trace Roots
SS-07	W02	OU4-SS-07-11(1-6)	Back Yard, East of House, Near Garage	Gray Brown Silt, Little F. Sand, Trace Roots
SS-07	W02	OU4-SS-07-12(1-6)	Back Yard, East of House, Near Garage	Gray Brown Silt, Little F. Sand, Trace Roots
SS-07	W02	OU4-SS-07-13(1-6)	Back Yard, East of House, Near Garage	Gray Brown/Brown Silt, Little F. Sand, Trace Roots
SS-07	W02	OU4-SS-07-14(1-6)	Back Yard, East of House, Near Garage	Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-07	W02	OU4-SS-07-14(1-6)-DUP	Back Yard, East of House, Near Garage	Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-07	W02	OU4-SS-07-COMP3(12-18)		
SS-07	W02	OU4-SS-07-10(12-18)	Back Yard, East of House, Near Garage	Dark Brown/Brown Orange Silt, Little F. M. Sand, Trace Roots/Brick
SS-07	W02	OU4-SS-07-11(12-18)	Back Yard, East of House, Near Garage	Gray Brown Silt, Little F. Sand, Trace Roots
SS-07	W02	OU4-SS-07-12(12-18)	Back Yard, East of House, Near Garage	Brown/Dark Brown Silt, Trace Roots/F. Gravel
SS-07	W02	OU4-SS-07-13(12-18)	Back Yard, East of House, Near Garage	Dark Brown Silt, Little F. Sand, Trace Roots
SS-07	W02	OU4-SS-07-14(12-18)	Back Yard, East of House, Near Garage	Orange Brown/Dark Brown Silt, Little F. Sand, Trace Roots
SS-07	W02	OU4-SS-07-COMP3(6-12)		
SS-07	W02	OU4-SS-07-10(6-12)	Back Yard, East of House, Near Garage	Dark Brown/Brown Orange Silt, Little F. M. Sand, Trace Roots/Brick
SS-07	W02	OU4-SS-07-11(6-12)	Back Yard, East of House, Near Garage	Gray Brown Silt, Little F. Sand, Trace Roots

Appendix C

Composites and Discretes

New Jersey Zinc/Mobil Chemical
DePue, Illinois

Property Location	IDPH Property Identification	Sample Name	Description	Soil Description
SS-07	W02	OU4-SS-07-12(6-12)	Back Yard, East of House, Near Garage	Gray Brown/Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-07	W02	OU4-SS-07-13(6-12)	Back Yard, East of House, Near Garage	Gray Brown/Brown Silt, Little F. Sand, Trace Roots
SS-07	W02	OU4-SS-07-14(6-12)	Back Yard, East of House, Near Garage	Brown/Orange Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-07	W02	OU4-SS-07-COMP4(0-1)		
SS-07	W02	OU4-SS-07-15(0-1)	Southeast of House in Garden	Gray Brown Silt, Little F. Sand, Trace Roots
SS-07	W02	OU4-SS-07-16(0-1)	Southeast of House in Garden	Light Brown Silt, Little F. Sand, Trace Roots
SS-07	W02	OU4-SS-07-17(0-1)	Southeast of House in Garden	Light Brown Silt, Little F. Sand, Trace Roots
SS-07	W02	OU4-SS-07-COMP4(1-6)		
SS-07	W02	OU4-SS-07-15(1-6)	Southeast of House in Garden	Gray Brown Silt, Little F. Sand, Trace Roots
SS-07	W02	OU4-SS-07-16(1-6)	Southeast of House in Garden	Light Brown/Dark Brown Silt, Little F. Sand, Trace Roots/Coal
SS-07	W02	OU4-SS-07-17(1-6)	Southeast of House in Garden	Light Brown/Dark Brown Silt, Little F. Sand, Trace Roots
SS-07	W02	OU4-SS-07-COMP4(12-18)		
SS-07	W02	OU4-SS-07-15(12-18)	Southeast of House in Garden	Brown Silt, Little F. Sand, Trace Roots/Wood Debris/F. Gravel
SS-07	W02	OU4-SS-07-16(12-18)	Southeast of House in Garden	Brown Silt, Trace Roots/F. Sand
SS-07	W02	OU4-SS-07-17(12-18)	Southeast of House in Garden	Brown Silt, Little F. Sand, Trace Roots
SS-07	W02	OU4-SS-07-COMP4(6-12)		
SS-07	W02	OU4-SS-07-15(6-12)	Southeast of House in Garden	Brown Silt, Little F. Sand, Trace Roots/Wood Debris/F. Gravel
SS-07	W02	OU4-SS-07-16(6-12)	Southeast of House in Garden	Dark Brown/Brown Silt, Little F. Sand, Trace Roots/Coal
SS-07	W02	OU4-SS-07-17(6-12)	Southeast of House in Garden	Dark Brown Silt, Little F. Sand, Trace Roots
SS-07	W02	OU4-SS-07-COMP5(0-1)		
SS-07	W02	OU4-SS-07-18(0-1)	Drip Zone, Southeast Corner of House	Brown Silt, Some F. Sand, Trace Roots
SS-07	W02	OU4-SS-07-19(0-1)	Drip Zone, Northeast Corner of House	Gray Brown Silt, Some F. Sand, Trace Roots
SS-07	W02	OU4-SS-07-20(0-1)	Drip Zone, Corner or House	Gray Brown Silt, Some F. Sand, Trace Roots
SS-07	W02	OU4-SS-07-21(0-1)	Drip Zone, West, Front of House	Gray/Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-07	W02	OU4-SS-07-COMP5(1-6)		
SS-07	W02	OU4-SS-07-18(1-6)	Drip Zone, Southeast Corner of House	Brown Silt, Some F. Sand, Trace Roots
SS-07	W02	OU4-SS-07-19(1-6)	Drip Zone, Northeast Corner of House	Gray Brown/Brown/Black Silt, Some F. Sand, Trace Roots/Black Fines
SS-07	W02	OU4-SS-07-20(1-6)	Drip Zone, Corner or House	Gray Brown/Brown Black Silt, Some F. Sand, Trace Roots
SS-07	W02	OU4-SS-07-21(1-6)	Drip Zone, West, Front of House	Gray/Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-07	W02	OU4-SS-07-COMP5(12-18)		
SS-07	W02	OU4-SS-07-18(12-18)	Drip Zone, Southeast Corner of House	Brown/Black Silt, Little F. Sand, Trace Roots/Wood Debris

Appendix C

Composites and Discretes

New Jersey Zinc/Mobil Chemical
DePue, Illinois

Property Location	IDPH Property Identification	Sample Name	Description	Soil Description
SS-07	W02	OU4-SS-07-19(12-18)	Drip Zone, Northeast Corner of House	Brown/Black Silt, Little F. Sand, Trace Roots/Black Fines
SS-07	W02	OU4-SS-07-20(12-18)	Drip Zone, Corner or House	Brown Orange Silt, Trace F. Sand/Roots
SS-07	W02	OU4-SS-07-21(12-18)	Drip Zone, West, Front of House	Orange Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-07	W02	OU4-SS-07-COMP5(6-12)		
SS-07	W02	OU4-SS-07-18(6-12)	Drip Zone, Southeast Corner of House	Brown/Black Silt, Some F. Sand, Trace Roots/Woody Debris
SS-07	W02	OU4-SS-07-19(6-12)	Drip Zone, Northeast Corner of House	Brown/Black Silt, Little F. Sand, Trace Roots/Black Fines
SS-07	W02	OU4-SS-07-20(6-12)	Drip Zone, Corner or House	Brown Orange Silt, Trace F. Sand/Roots
SS-07	W02	OU4-SS-07-21(6-12)	Drip Zone, West, Front of House	Gray/Brown/Orange Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-07	W02	OU4-SS-07-21(6-12)-DUP	Drip Zone, West, Front of House	Gray/Brown/Orange Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-08	D11	OU4-SS-08-COMP1(0-1)		
SS-08	D11	OU4-SS-08-01(0-1)	Front Yard, North of House	Brown/Black Silt, Little F. Sand, Trace Roots/F. Gravel/Woody Debris
SS-08	D11	OU4-SS-08-02(0-1)	Front Yard, North of House	Brown Black Silt, Little F. Sand, Trace Roots/F. Gravel
SS-08	D11	OU4-SS-08-03(0-1)	Front Yard, North of House	Brown Silt, Little F. Sand, Trace Roots/Grass/F. Gravel
SS-08	D11	OU4-SS-08-04(0-1)	Front Yard, North of House	Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-08	D11	OU4-SS-08-05(0-1)	Front Yard, North of House	Brown F. Sand, Little Silt, Trace Roots
SS-08	D11	OU4-SS-08-COMP1(1-6)		
SS-08	D11	OU4-SS-08-01(1-6)	Front Yard, North of House	Brown/Black Silt, Little F. Sand, Trace Wood Debris/F. Gravel/Roots
SS-08	D11	OU4-SS-08-02(1-6)	Front Yard, North of House	Brown Black/Light Brown Silt/Clay, Little F. Sand, Trace Roots/F.Gravel
SS-08	D11	OU4-SS-08-03(1-6)	Front Yard, North of House	Brown Silt, Little F. Sand, Trace Roots/Grass/F. Gravel
SS-08	D11	OU4-SS-08-04(1-6)	Front Yard, North of House	Brown/Light Brown F. Sand/Silt, Little Wood Debris, Trace Roots/F. Gravel
SS-08	D11	OU4-SS-08-05(1-6)	Front Yard, North of House	Brown F. Sand, Little Silt, Trace Roots
SS-08	D11	OU4-SS-08-COMP1(12-18)		
SS-08	D11	OU4-SS-08-01(12-18)	Front Yard, North of House	Brown/Black Silt, Little F. Sand, Trace Wood Debris/F. Gravel/Roots
SS-08	D11	OU4-SS-08-02(12-18)	Front Yard, North of House	Orange Brown Silt/Clay, Little F. Sand, Trace F. Gravel
SS-08	D11	OU4-SS-08-03(12-18)	Front Yard, North of House	Brown F. Sand/Silt, Little Wood Debris, Trace Roots/Grass/F. Gravel
SS-08	D11	OU4-SS-08-04(12-18)	Front Yard, North of House	Light Brown/Dark Brown/Black Silt/F. Sand, Little Wood Debris, Trace Roots/Coal/F. Gravel
SS-08	D11	OU4-SS-08-05(12-18)	Front Yard, North of House	Brown/Orange/Light Brown Silt/F. Sand/Clay, Trace F. Gravel
SS-08	D11	OU4-SS-08-COMP1(6-12)		
SS-08	D11	OU4-SS-08-01(6-12)	Front Yard, North of House	Brown/Black Silt, Little F. Sand, Trace Roots/F. Gravel/Woody Debris
SS-08	D11	OU4-SS-08-02(6-12)	Front Yard, North of House	Light Brown/Orange Brown Silt/Clay, Little F. Sand, Trace Roots/F. Gravel
SS-08	D11	OU4-SS-08-03(6-12)	Front Yard, North of House	Brown Silt, Little F. Sand, Trace Roots/Grass/F. Gravel
SS-08	D11	OU4-SS-08-04(6-12)	Front Yard, North of House	Light Brown/Dark Brown/Black F. Sand/Silt, Little Woody Debris, Trace Roots/Coal/F. Gravel
SS-08	D11	OU4-SS-08-05(6-12)	Front Yard, North of House	Brown/Orange F. Sand, Little Silt, Trace Roots/Clay

Appendix C

Composites and Discretes

New Jersey Zinc/Mobil Chemical
DePue, Illinois

Property Location	IDPH Property Identification	Sample Name	Description	Soil Description
SS-08	D11	OU4-SS-08-COMP2(0-1)		
SS-08	D11	OU4-SS-08-06(0-1)	Back Yard, South of House	Brown/Orange Silt, Little F. Sand, Trace Roots/Grass
SS-08	D11	OU4-SS-08-07(0-1)	Back Yard, South of House	Gray Brown Silt, Little F. Sand, Trace Roots
SS-08	D11	OU4-SS-08-08(0-1)	Back Yard, South of House	Dark Brown/Gray Silt, Little F. Sand, Trace Roots
SS-08	D11	OU4-SS-08-09(0-1)	Back Yard, South of House	Gray Brown Silt, Little F. Sand, Trace Roots, F. Gravel
SS-08	D11	OU4-SS-08-10(0-1)	Back Yard, South of House	Gray Silt, Little F. Sand, Trace Roots/F. Gravel
SS-08	D11	OU4-SS-08-COMP2(1-6)		
SS-08	D11	OU4-SS-08-06(1-6)	Back Yard, South of House	Brown/Orange Silt, Little F. Sand, Trace Roots/Grass
SS-08	D11	OU4-SS-08-07(1-6)	Back Yard, South of House	Gray Brown/Dark Brown Silt, Little F. Sand, Trace F. Gravel
SS-08	D11	OU4-SS-08-08(1-6)	Back Yard, South of House	Dark Brown/Gray Silt, Little F. Sand, Trace Roots
SS-08	D11	OU4-SS-08-09(1-6)	Back Yard, South of House	Gray Brown Silt, Little F. Sand, Trace Roots, F. Gravel
SS-08	D11	OU4-SS-08-10(1-6)	Back Yard, South of House	Gray Silt, Little F. Sand, Trace Roots/F. Gravel
SS-08	D11	OU4-SS-08-10(1-6)-DUP	Back Yard, South of House	Gray Silt, Little F. Sand, Trace Roots/F. Gravel
SS-08	D11	OU4-SS-08-COMP2(12-18)		
SS-08	D11	OU4-SS-08-06(12-18)	Back Yard, South of House	Brown/Dark Brown Silt, Little F. Sand, Trace Roots/Wood Debris/F. Gravel/Coal
SS-08	D11	OU4-SS-08-07(12-18)	Back Yard, South of House	Dark Brown/Brown Silt/Clay, Little F. Sand, Trace F. Gravel
SS-08	D11	OU4-SS-08-08(12-18)	Back Yard, South of House	Orange Brown Silt/Clay, Little F. Sand
SS-08	D11	OU4-SS-08-09(12-18)	Back Yard, South of House	Brown/Gray Brown Silt/F. Sand, Trace Roots/F. Gravel
SS-08	D11	OU4-SS-08-10(12-18)	Back Yard, South of House	Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-08	D11	OU4-SS-08-COMP2(6-12)		
SS-08	D11	OU4-SS-08-06(6-12)	Back Yard, South of House	Brown/Orange Silt, Little F. Sand, Trace Roots/Wood Debris/Grass
SS-08	D11	OU4-SS-08-07(6-12)	Back Yard, South of House	Dark Brown Silt, Little F. Sand, Trace F. Gravel
SS-08	D11	OU4-SS-08-08(6-12)	Back Yard, South of House	Dark Brown/Gray Silt, Little F.Sand, Trace Roots
SS-08	D11	OU4-SS-08-09(6-12)	Back Yard, South of House	Gray Brown/Brown Silt, Little F.Sand, Trace Roots/F. Gravel
SS-08	D11	OU4-SS-08-10(6-12)	Back Yard, South of House	Gray/Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-08	D11	OU4-SS-08-COMP3(0-1)		
SS-08	D11	OU4-SS-08-11(0-1)	Back Yard, South of House	Gray Silt, Little F. Sand, Trace Roots
SS-08	D11	OU4-SS-08-12(0-1)	Back Yard, South of House	Dark Brown Silt, Little F. Sand, Trace Roots/Brick/Coal/F. Gravel
SS-08	D11	OU4-SS-08-13(0-1)	Back Yard, South of House	Gray/Dark Brown/Black Silt, Little F. Sand, Trace Roots
SS-08	D11	OU4-SS-08-14(0-1)	Back Yard, South of House	Gray/Brown/Black Silt, Trace F. Sand/Roots/F. Gravel
SS-08	D11	OU4-SS-08-15(0-1)	Back Yard, South of House	Gray/Brown/Black F. Sand, Some Silt, Trace Roots, F. Gravel/Coal
SS-08	D11	OU4-SS-08-COMP3(1-6)		
SS-08	D11	OU4-SS-08-11(1-6)	Back Yard, South of House	Gray Silt, Little F. Sand, Trace Roots
SS-08	D11	OU4-SS-08-12(1-6)	Back Yard, South of House	Dark Brown Silt, Little F. Sand, Trace Roots/Brick/Coal/F. Gravel
SS-08	D11	OU4-SS-08-13(1-6)	Back Yard, South of House	Gray/Dark Brown/Black Silt, Little F. Sand, Trace Roots

Appendix C

Composites and Discretes

New Jersey Zinc/Mobil Chemical
DePue, Illinois

Property Location	IDPH Property Identification	Sample Name	Description	Soil Description
SS-08	D11	OU4-SS-08-14(1-6)	Back Yard, South of House	Gray/Brown/Black Silt, Trace F. Sand/Roots/F. Gravel
SS-08	D11	OU4-SS-08-15(1-6)	Back Yard, South of House	Gray/Brown/Black F. Sand, Some Silt, Trace Roots, F. Gravel/Coal
SS-08	D11	OU4-SS-08-COMP3(12-18)		
SS-08	D11	OU4-SS-08-11(12-18)	Back Yard, South of House	Dark Brown Silt, Lilte F. Sand, Trace Roots
SS-08	D11	OU4-SS-08-12(12-18)	Back Yard, South of House	Dark Brown Silt, Little F. Sand, Trace Roots/Brick/Coal/F. Gravel
SS-08	D11	OU4-SS-08-13(12-18)	Back Yard, South of House	Brown Silt, Little F. Sand, Trace Clay/Roots
SS-08	D11	OU4-SS-08-14(12-18)	Back Yard, South of House	Gray/Brown/Black Silt, Trace F. Sand/Roots/F. Gravel
SS-08	D11	OU4-SS-08-15(12-18)	Back Yard, South of House	Brown Silt, Some F. Sand, Trace F. Gravel
SS-08	D11	OU4-SS-08-COMP3(6-12)		
SS-08	D11	OU4-SS-08-11(6-12)	Back Yard, South of House	Gray Silt/Dark Silt, Little F. Sand, Trace Roots
SS-08	D11	OU4-SS-08-12(6-12)	Back Yard, South of House	Dark Brown Silt, Little F. Sand, Trace Roots/Brick/Coal/F. Gravel
SS-08	D11	OU4-SS-08-13(6-12)	Back Yard, South of House	Gray/Dark Brown/Black Silt, Little F. Sand, Trace Roots
SS-08	D11	OU4-SS-08-14(6-12)	Back Yard, South of House	Gray/Brown/Black Silt, Trace F. Sand/Roots/F. Gravel
SS-08	D11	OU4-SS-08-15(6-12)	Back Yard, South of House	Gray/Brown/Black F. Sand/Silt, Trace Roots/F. Gravel/Coal
SS-08	D11	OU4-SS-08-COMP4(0-1)		
SS-08	D11	OU4-SS-08-16(0-1)	Drip Zone, Northeast Corner of House	Black Silt, Some F. Sand, Trace Roots/F. Gravel
SS-08	D11	OU4-SS-08-17(0-1)	Drip Zone, Northwest Corner of House	Brown/Black F. Sand, Some Silt, Trace Roots/F. Gravel
SS-08	D11	OU4-SS-08-18(0-1)	Drip Zone, Corner or House	Brown/Black F. Sand/Silt, Trace Roots/F. Gravel
SS-08	D11	OU4-SS-08-19(0-1)	Drip Zone, Corner or House	Brown/Black F. Sand, Little Silt, Trace Roots, F. Gravel
SS-08	D11	OU4-SS-08-19(0-1)-DUP	Drip Zone, Corner or House	Brown/Black F. Sand, Little Silt, Trace Roots, F. Gravel
SS-08	D11	OU4-SS-08-COMP4(1-6)		
SS-08	D11	OU4-SS-08-16(1-6)	Drip Zone, Northeast Corner of House	Black/Orange Brown Silt/Clay, Some F. Sand, Trace Roots/F. Gravel
SS-08	D11	OU4-SS-08-17(1-6)	Drip Zone, Northwest Corner of House	Brown/Black F. Sand, Some Silt, Trace Roots/F. Gravel
SS-08	D11	OU4-SS-08-18(1-6)	Drip Zone, Corner or House	Brown/Black F. Sand/Silt/Clay, Trace Roots/F. Gravel
SS-08	D11	OU4-SS-08-19(1-6)	Drip Zone, Corner or House	Brown/Black F. Sand, Little Silt, Trace Roots, F. Gravel
SS-08	D11	OU4-SS-08-COMP4(12-18)		
SS-08	D11	OU4-SS-08-16(12-18)	Drip Zone, Northeast Corner of House	Orange Brown Silt/Clay, Little F. Sand, Trace Roots
SS-08	D11	OU4-SS-08-17(12-18)	Drip Zone, Northwest Corner of House	Orange Brown Silt/Clay, Little F. Sand, Trace Roots
SS-08	D11	OU4-SS-08-18(12-18)	Drip Zone, Corner or House	Brown/Black Silt/Clay, Little F. Sand
SS-08	D11	OU4-SS-08-19(12-18)	Drip Zone, Corner or House	Brown/Black F. Sand, Little Silt, Trace Roots, F. Gravel
SS-08	D11	OU4-SS-08-COMP4(6-12)		

Appendix C

Composites and Discretes

New Jersey Zinc/Mobil Chemical
DePue, Illinois

Property Location	IDPH Property Identification	Sample Name	Description	Soil Description
SS-08	D11	OU4-SS-08-16(6-12)	Drip Zone, Northeast Corner of House	Black/Orange Brown Silt/Clay, Some F. Sand, Trace Roots/F. Gravel
SS-08	D11	OU4-SS-08-17(6-12)	Drip Zone, Northwest Corner of House	Orange Brown Silt/Clay, Little F. Sand, Trace Roots
SS-08	D11	OU4-SS-08-18(6-12)	Drip Zone, Corner or House	Brown/Black F. Sand/Silt/Clay, Trace Roots/F. Gravel
SS-08	D11	OU4-SS-08-19(6-12)	Drip Zone, Corner or House	Brown/Black F. Sand, Little Silt, Trace Roots, F. Gravel
SS-09	S13	OU4-SS-09-COMP1(0-1)		
SS-09	S13	OU4-SS-09-01(0-1)	Side Yard, West of House	Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-09	S13	OU4-SS-09-02(0-1)	Side Yard, West of House	Brown Silt, Little F. Sand, Trace Roots/Brick/F. Gravel
SS-09	S13	OU4-SS-09-03(0-1)	Side Yard, West of House	Brown Silt, Some F. Sand, Trace Roots, F. Gravel
SS-09	S13	OU4-SS-09-04(0-1)	Side Yard, West of House	Gray/Brown Silt, Some F. Sand Trace Roots/F. Gravel
SS-09	S13	OU4-SS-09-05(0-1)	Side Yard, West of House	Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-09	S13	OU4-SS-09-05(0-1)-DUP	Side Yard, West of House	Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-09	S13	OU4-SS-09-COMP1(1-6)		
SS-09	S13	OU4-SS-09-01(1-6)	Side Yard, West of House	Brown/Orange Brown Silt/F. Sand, Trace Roots/F. Gravel
SS-09	S13	OU4-SS-09-02(1-6)	Side Yard, West of House	Brown Silt, Little F. Sand, Trace Roots/Brick/F. Gravel
SS-09	S13	OU4-SS-09-03(1-6)	Side Yard, West of House	Brown Silt, Some F. Sand, Trace Roots, F. Gravel
SS-09	S13	OU4-SS-09-04(1-6)	Side Yard, West of House	Gray/Brown Silt, Some F. Sand Trace Roots/F. Gravel
SS-09	S13	OU4-SS-09-05(1-6)	Side Yard, West of House	Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-09	S13	OU4-SS-09-COMP1(12-18)		
SS-09	S13	OU4-SS-09-01(12-18)	Side Yard, West of House	Brown F. Sand, Some Silt, Trace Roots/F. Gravel
SS-09	S13	OU4-SS-09-02(12-18)	Side Yard, West of House	Brown/Black Silt, Some F. Sand, Trace Roots/F. Gravel
SS-09	S13	OU4-SS-09-03(12-18)	Side Yard, West of House	Orange Brown/Gray Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-09	S13	OU4-SS-09-04(12-18)	Side Yard, West of House	Gray/Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-09	S13	OU4-SS-09-05(12-18)	Side Yard, West of House	Dark Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-09	S13	OU4-SS-09-COMP1(6-12)		
SS-09	S13	OU4-SS-09-01(6-12)	Side Yard, West of House	Orange Brown/Brown F. Sand, Some Silt, Trace Roots/F. Gravel
SS-09	S13	OU4-SS-09-02(6-12)	Side Yard, West of House	Brown/Black Silt, Some F. Sand, Trace Roots/Brick/F. Gravel
SS-09	S13	OU4-SS-09-03(6-12)	Side Yard, West of House	Orange/Brown/Gray Silt, Some F. Sand, Trace Roots, F. Gravel
SS-09	S13	OU4-SS-09-04(6-12)	Side Yard, West of House	Gray/Brown Silt, Some F. Sand Trace Roots/F. Gravel
SS-09	S13	OU4-SS-09-05(6-12)	Side Yard, West of House	Brown/Dark Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-09	S13	OU4-SS-09-COMP2(0-1)		
SS-09	S13	OU4-SS-09-06(0-1)	Back Yard, Northwest of House	Gray Brown Silt, F. Sand, Trace Roots/Gravel
SS-09	S13	OU4-SS-09-07(0-1)	Back Yard, Northwest of House	Orange Brown Silt, Little F. Sand, Trace Roots/Brick/F. Gravel

Appendix C

Composites and Discretes

New Jersey Zinc/Mobil Chemical
DePue, Illinois

Property Location	IDPH Property Identification	Sample Name	Description	Soil Description
SS-09	S13	OU4-SS-09-08(0-1)	Back Yard, Northwest of House	Gray/Brown Silt, Some F. Sand, Little F. Gravel, Trace Roots/Slag
SS-09	S13	OU4-SS-09-09(0-1)	Back Yard, Northwest of House	Dark Brown/Black Silt, Some F. Sand, Trace Roots/F. Gravel/Woody Debris
SS-09	S13	OU4-SS-09-10(0-1)	Back Yard, Northwest of House	Dark Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-09	S13	OU4-SS-09-COMP2(1-6)		
SS-09	S13	OU4-SS-09-06(1-6)	Back Yard, Northwest of House	Gray Brown Silt, Some F. Sand, Trace Roots/Gravel
SS-09	S13	OU4-SS-09-07(1-6)	Back Yard, Northwest of House	Orange Brown Silt, Little F. Sand, Trace Roots/Brick/F. Gravel
SS-09	S13	OU4-SS-09-08(1-6)	Back Yard, Northwest of House	Gray/Brown Silt, Some F. Sand, Little F. Gravel, Trace Roots/Slag
SS-09	S13	OU4-SS-09-09(1-6)	Back Yard, Northwest of House	Dark Brown/Black Silt, Some F. Sand, Trace Roots/F. Gravel/Woody Debris
SS-09	S13	OU4-SS-09-10(1-6)	Back Yard, Northwest of House	Dark Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-09	S13	OU4-SS-09-10(1-6)-DUP	Back Yard, Northwest of House	Dark Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-09	S13	OU4-SS-09-COMP2(12-18)		
SS-09	S13	OU4-SS-09-06(12-18)	Back Yard, Northwest of House	Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-09	S13	OU4-SS-09-07(12-18)	Back Yard, Northwest of House	Gray Brown Silt, Little F. Sand, Trace Clay/Roots
SS-09	S13	OU4-SS-09-08(12-18)	Back Yard, Northwest of House	Light Brown F. Sand, Little Silt, Trace Roots
SS-09	S13	OU4-SS-09-09(12-18)	Back Yard, Northwest of House	Gray/Brown Silt Little F. Sand, Trace Clay
SS-09	S13	OU4-SS-09-10(12-18)	Back Yard, Northwest of House	Gray Brown Silt, Little F. Sand, Trace Clay
SS-09	S13	OU4-SS-09-COMP2(6-12)		
SS-09	S13	OU4-SS-09-06(6-12)	Back Yard, Northwest of House	Gray Brown/Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-09	S13	OU4-SS-09-07(6-12)	Back Yard, Northwest of House	Orange Brown/Dark Brown Silt, Some F. Sand, Trace Roots/Brick/F. Gravel
SS-09	S13	OU4-SS-09-08(6-12)	Back Yard, Northwest of House	Gray/Brown Silt/Light Brown F. Sand, Little F. Gravel, Trace Roots/Slag
SS-09	S13	OU4-SS-09-09(6-12)	Back Yard, Northwest of House	Dark Brown/Black/Gray Silt, Some F. Sand, Trace Roots/F. Gravel/Woody Debris/Clay
SS-09	S13	OU4-SS-09-10(6-12)	Back Yard, Northwest of House	Dark Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-09	S13	OU4-SS-09-COMP3(0-1)		
SS-09	S13	OU4-SS-09-11(0-1)	Back Yard, North of House	Brown Silt, Little F. Sand, Trace Roots/F. Gravel

Appendix C

Composites and Discretes

New Jersey Zinc/Mobil Chemical
DePue, Illinois

Property Location	IDPH Property Identification	Sample Name	Description	Soil Description
SS-09	S13	OU4-SS-09-12(0-1)	Back Yard, North of House	Gray Brown, F. Sand, Some Silt, Trace F. Gravel/Woody Debris/Roots
SS-09	S13	OU4-SS-09-13(0-1)	Back Yard, North of House	Gray Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-09	S13	OU4-SS-09-14(0-1)	Back Yard, North of House	Brown/Black F. Sand, Little Silt, Trace Roots/F. Gravel
SS-09	S13	OU4-SS-09-15(0-1)	Back Yard, Northeast of House	Brown Silt, Little F. Sand, Trace Roots
SS-09	S13	OU4-SS-09-COMP3(1-6)		
SS-09	S13	OU4-SS-09-11(1-6)	Back Yard, North of House	Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-09	S13	OU4-SS-09-12(1-6)	Back Yard, North of House	Gray Brown, F. Sand, Some Silt, Trace F. Gravel/Woody Debris/Roots
SS-09	S13	OU4-SS-09-13(1-6)	Back Yard, North of House	Gray Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-09	S13	OU4-SS-09-14(1-6)	Back Yard, North of House	Brown/Black F. Sand, Little Silt, Trace Roots/F. Gravel
SS-09	S13	OU4-SS-09-15(1-6)	Back Yard, Northeast of House	Brown Silt, Little F. Sand, Trace Roots
SS-09	S13	OU4-SS-09-15(1-6)-DUP	Back Yard, Northeast of House	Brown Silt, Little F. Sand, Trace Roots
SS-09	S13	OU4-SS-09-COMP3(12-18)		
SS-09	S13	OU4-SS-09-11(12-18)	Back Yard, North of House	Light Brown Silt, Little F. Sand, Trace Roots/Clay/F. Gravel
SS-09	S13	OU4-SS-09-12(12-18)	Back Yard, North of House	Gray Brown F. Sand, Some Silt, Trace Roots/Wood Debris/F. Gravel
SS-09	S13	OU4-SS-09-13(12-18)	Back Yard, North of House	Dark Gray Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-09	S13	OU4-SS-09-14(12-18)	Back Yard, North of House	Brown F. Sand, Little Silt, Trace Roots/Wood Debris
SS-09	S13	OU4-SS-09-15(12-18)	Back Yard, Northeast of House	Light Brown F. Sand, Little Silt, Trace Roots/F. Gravel
SS-09	S13	OU4-SS-09-COMP3(6-12)		
SS-09	S13	OU4-SS-09-11(6-12)	Back Yard, North of House	Brown/Light Brown Silt, Little F. Sand, Trace Roots/F. Gravel, Clay
SS-09	S13	OU4-SS-09-12(6-12)	Back Yard, North of House	Gray Brown, F. Sand, Some Silt, Trace F. Gravel/Woody Debris/Roots
SS-09	S13	OU4-SS-09-13(6-12)	Back Yard, North of House	Gray Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-09	S13	OU4-SS-09-14(6-12)	Back Yard, North of House	Brown/Black F. Sand, Little Silt, Trace Roots/F. Gravel
SS-09	S13	OU4-SS-09-15(6-12)	Back Yard, Northeast of House	Brown Silt/Light Brown F. Sand, Trace Roots/F. Gravel
SS-09	S13	OU4-SS-09-COMP4(0-1)		
SS-09	S13	OU4-SS-09-16(0-1)	Side Yard, East of House	Gray Silt, Little F. Sand, Trace Roots/F. Gravel
SS-09	S13	OU4-SS-09-17(0-1)	Side Yard, Southeast Corner of House	Dark Gray Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-09	S13	OU4-SS-09-18(0-1)	Front Yard, South of House	Black Silt, Little F. Sand, Trace Roots
SS-09	S13	OU4-SS-09-19(0-1)	Front Yard, South of House	Black Silt, Little F. Sand, Trace Roots/F. Gravel
SS-09	S13	OU4-SS-09-COMP4(1-6)		
SS-09	S13	OU4-SS-09-16(1-6)	Side Yard, East of House	Gray/Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-09	S13	OU4-SS-09-17(1-6)	Side Yard, Southeast Corner of House	Dark Gray Brown Silt, Little F. Sand, Trace Roots/F. Gravel

Appendix C

Composites and Discretes

New Jersey Zinc/Mobil Chemical
DePue, Illinois

Property Location	IDPH Property Identification	Sample Name	Description	Soil Description
SS-09	S13	OU4-SS-09-18(1-6)	Front Yard, South of House	Black Silt/Gray F. Sand, Trace Roots
SS-09	S13	OU4-SS-09-19(1-6)	Front Yard, South of House	Black Silt, Little F. Sand, Trace Roots/F. Gravel
SS-09	S13	OU4-SS-09-COMP4(12-18)		
SS-09	S13	OU4-SS-09-16(12-18)	Side Yard, East of House	Brown F. Sand, Little Silt, Trace F. Gravel
SS-09	S13	OU4-SS-09-17(12-18)	Side Yard, Southeast Corner of House	Brown/Orange Brown F. M. Sand/Silt, Trace Roots/F.Gravel
SS-09	S13	OU4-SS-09-18(12-18)	Front Yard, South of House	Brown F. M. Sand, Little Silt, Trace Roots
SS-09	S13	OU4-SS-09-19(12-18)	Front Yard, South of House	Brown F. Sand, Some Silt, Trace Roots
SS-09	S13	OU4-SS-09-COMP4(6-12)		
SS-09	S13	OU4-SS-09-16(6-12)	Side Yard, East of House	Brown Silt/F. Sand, Trace F. Gravel/Roots
SS-09	S13	OU4-SS-09-17(6-12)	Side Yard, Southeast Corner of House	Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-09	S13	OU4-SS-09-18(6-12)	Front Yard, South of House	Gray/Brown F.M. Sand, Little Silt, Trace Roots
SS-09	S13	OU4-SS-09-19(6-12)	Front Yard, South of House	Gray Brown Silt, Little F. Sand, Trace Roots
SS-09	S13	OU4-SS-09-COMP5(0-1)		
SS-09	S13	OU4-SS-09-20(0-1)	Drip Zone, Front of Houses	Black/Orange Silt, Little F. Sand, Trace Roots/Wood Debris
SS-09	S13	OU4-SS-09-21(0-1)	Drip Zone, Northeast Side of House	Gray Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-09	S13	OU4-SS-09-22(0-1)	Drip Zone, North of House-Back Yard	Orange Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-09	S13	OU4-SS-09-23(0-1)	Drip Zone, Northwest Corner of Garage	Dark Brown/Black Silt, Little F. Sand, Trace Roots
SS-09	S13	OU4-SS-09-COMP5(1-6)		
SS-09	S13	OU4-SS-09-20(1-6)	Drip Zone, Front of Houses	Black/Orange Silt, Little F. Sand, Trace Roots/Woody Debris
SS-09	S13	OU4-SS-09-21(1-6)	Drip Zone, Northeast Side of House	Gray Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-09	S13	OU4-SS-09-22(1-6)	Drip Zone, North of House-Back Yard	Orange Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-09	S13	OU4-SS-09-23(1-6)	Drip Zone, Northwest Corner of Garage	Dark Brown/Black Silt, Little F. Sand, Trace Roots
SS-09	S13	OU4-SS-09-23(1-6)-DUP	Drip Zone, Northwest Corner of Garage	Dark Brown/Black Silt, Little F. Sand, Trace Roots
SS-09	S13	OU4-SS-09-COMP5(12-18)		
SS-09	S13	OU4-SS-09-20(12-18)	Drip Zone, Front of Houses	Dark Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-09	S13	OU4-SS-09-21(12-18)	Drip Zone, Northeast Side of House	Brown/Black Silt, Little F. Sand, Trace Clay
SS-09	S13	OU4-SS-09-22(12-18)	Drip Zone, North of House-Back Yard	Orange Brown/Dark Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-09	S13	OU4-SS-09-23(12-18)	Drip Zone, Northwest Corner of Garage	Dark Brown/Brown/Black Silt, Little F. Sand, Trace Clay/Roots
SS-09	S13	OU4-SS-09-COMP5(6-12)		

Appendix C

Composites and Discretes

New Jersey Zinc/Mobil Chemical
DePue, Illinois

Property Location	IDPH Property Identification	Sample Name	Description	Soil Description
SS-09	S13	OU4-SS-09-20(6-12)	Drip Zone, Front of Houses	Black/Orange/Dark Brown Silt, Little F. Sand, Trace Roots/Wood Debris/F. Gravel
SS-09	S13	OU4-SS-09-21(6-12)	Drip Zone, Northeast Side of House	Gray Brown/Orange Brown/Brown/Black Silt, Little F. Sand, Trace Roots/F. Gravel/Clay
SS-09	S13	OU4-SS-09-22(6-12)	Drip Zone, North of House-Back Yard	Orange Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-09	S13	OU4-SS-09-23(6-12)	Drip Zone, Northwest Corner of Garage	Dark Brown/Black Silt, Little F. Sand, Trace Roots
SS-10	S21	OU4-SS-10-09(0-1)	Garden	Dark Brown Silt, Little F. Sand, Trace Roots
SS-10	S21	OU4-SS-10-09(1-6)	Garden	Dark Brown Silt, Little F. Sand, Trace Roots
SS-10	S21	OU4-SS-10-09(12-18)	Garden	Dark Brown Silt, Some F. Sand, Trace Roots
SS-10	S21	OU4-SS-10-09(6-12)	Garden	Orange F. Sand/Dark Brown Silt, Trace Roots
SS-10	S21	OU4-SS-10-10(0-1)	Garden	Dark Brown Silt, Little F. Sand, Trace Roots
SS-10	S21	OU4-SS-10-10(1-6)	Garden	Dark Brown Silt/Orange Brown F. Sand, Trace Roots/F. Gravel
SS-10	S21	OU4-SS-10-10(12-18)	Garden	Dark Brown Silt, Little F. Sand, Trace Roots
SS-10	S21	OU4-SS-10-10(6-12)	Garden	Orange Brown F. Sand, Some Silt, Trace Roots/F. Gravel
SS-10	S21	OU4-SS-10-COMP1(0-1)		
SS-10	S21	OU4-SS-10-01(0-1)	Front Yard, Southwest Corner of House	Gray Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-10	S21	OU4-SS-10-02(0-1)	Front Yard, Southeast Corner of House	Dark Brown Silt, Some F. Sand, Trace Roots
SS-10	S21	OU4-SS-10-03(0-1)	Side Yard, East of House	Dark Brown Silt, Some F. Sand, Trace Roots
SS-10	S21	OU4-SS-10-04(0-1)	Side Yard, Northeast Corner of House	Brown/Gray Silt, Some F. Sand, Trace Roots
SS-10	S21	OU4-SS-10-COMP1(1-6)		
SS-10	S21	OU4-SS-10-01(1-6)	Front Yard, Southwest Corner of House	Gray Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-10	S21	OU4-SS-10-02(1-6)	Front Yard, Southeast Corner of House	Dark Brown Silt, Some F. Sand, Trace Roots
SS-10	S21	OU4-SS-10-03(1-6)	Side Yard, East of House	Dark Brown Silt, Some F. Sand, Trace Roots
SS-10	S21	OU4-SS-10-04(1-6)	Side Yard, Northeast Corner of House	Brown/Gray Silt, Some F. Sand, Trace Roots
SS-10	S21	OU4-SS-10-COMP1(12-18)		
SS-10	S21	OU4-SS-10-01(12-18)	Front Yard, Southwest Corner of House	Brown/Orange Brown Silt/F. Sand, Trace Roots
SS-10	S21	OU4-SS-10-02(12-18)	Front Yard, Southeast Corner of House	Brown/Orange Brown F. Sand, Some Silt, Trace Roots
SS-10	S21	OU4-SS-10-03(12-18)	Side Yard, East of House	Orange Brown Silt, Some F. Sand, Trace Roots
SS-10	S21	OU4-SS-10-04(12-18)	Side Yard, Northeast Corner of House	Dark Brown Silt, Some F. Sand, Trace Roots
SS-10	S21	OU4-SS-10-COMP1(6-12)		
SS-10	S21	OU4-SS-10-01(6-12)	Front Yard, Southwest Corner of House	Gray Brown/Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-10	S21	OU4-SS-10-02(6-12)	Front Yard, Southeast Corner of House	Brown F. Sand, Some Silt, Trace Roots
SS-10	S21	OU4-SS-10-03(6-12)	Side Yard, East of House	Orange Brown Silt, Some F. Sand, Trace Roots

Appendix C

Composites and Discretes

New Jersey Zinc/Mobil Chemical
DePue, Illinois

Property Location	IDPH Property Identification	Sample Name	Description	Soil Description
SS-10	S21	OU4-SS-10-04(6-12)	Side Yard, Northeast Corner of House	Brown/Dark Brown Silt, Some F. Sand, Trace Roots
SS-10	S21	OU4-SS-10-COMP2(0-1)		
SS-10	S21	OU4-SS-10-05(0-1)	Back Yard, Northwest of House	Dark Brown Silt, Little F. Sand, Trace Roots
SS-10	S21	OU4-SS-10-06(0-1)	Back Yard, North of House	Brown Silt, Little F. Sand, Trace Roots
SS-10	S21	OU4-SS-10-07(0-1)	Back Yard, Northeast of House	Orange Brown Silt, Some F. Sand, Trace Roots
SS-10	S21	OU4-SS-10-08(0-1)	Back Yard, Northwest of House	Dark Brown/Black Silt, Some F. Sand, Trace Roots
SS-10	S21	OU4-SS-10-COMP2(1-6)		
SS-10	S21	OU4-SS-10-05(1-6)	Back Yard, Northwest of House	Dark Brown Silt, Little F. Sand, Trace Roots
SS-10	S21	OU4-SS-10-06(1-6)	Back Yard, North of House	Brown Silt, Little F. Sand, Trace Roots
SS-10	S21	OU4-SS-10-07(1-6)	Back Yard, Northeast of House	Orange Brown Silt, Some F. Sand, Trace Roots
SS-10	S21	OU4-SS-10-08(1-6)	Back Yard, Northwest of House	Dark Brown/Black Silt, Some F. Sand, Trace Roots
SS-10	S21	OU4-SS-10-COMP2(12-18)		
SS-10	S21	OU4-SS-10-05(12-18)	Back Yard, Northwest of House	Brown Silt, Some F. Sand, Trace Roots
SS-10	S21	OU4-SS-10-06(12-18)	Back Yard, North of House	Orange Brown F. Sand, Some Silt, Trace Roots
SS-10	S21	OU4-SS-10-07(12-18)	Back Yard, Northeast of House	Orange Brown F. Sand/Silt, Trace Roots
SS-10	S21	OU4-SS-10-08(12-18)	Back Yard, Northwest of House	Orange Brown Silt, Some F. Sand, Trace Roots
SS-10	S21	OU4-SS-10-COMP2(6-12)		
SS-10	S21	OU4-SS-10-05(6-12)	Back Yard, Northwest of House	Brown Silt, Some F. Sand, Trace Roots
SS-10	S21	OU4-SS-10-06(6-12)	Back Yard, North of House	Brown/Orange Brown Silt/F. Sand, Trace Roots
SS-10	S21	OU4-SS-10-07(6-12)	Back Yard, Northeast of House	Orange Brown Silt, Some F. Sand, Trace Roots
SS-10	S21	OU4-SS-10-08(6-12)	Back Yard, Northwest of House	Dark Brown/Black Silt, Some F. Sand, Trace Roots
SS-10	S21	OU4-SS-10-COMP3(0-1)		
SS-10	S21	OU4-SS-10-11(0-1)	Drip Zone, Northeast Corner of House	Dark Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-10	S21	OU4-SS-10-12(0-1)	Drip Zone, Southeast Front of House	Dark Brown Silt, Little F. Sand, Trace Roots
SS-10	S21	OU4-SS-10-13(0-1)	Drip Zone, South Front of House	Brown Silt, Some F. Sand, Trace Roots/fF. Gravel
SS-10	S21	OU4-SS-10-14(0-1)	Drip Zone, Southwest Corner of House	Gray Brown Silt, Some F. Sand, Trace F. M. Gravel/Roots
SS-10	S21	OU4-SS-10-COMP3(1-6)		

Appendix C

Composites and Discretes

New Jersey Zinc/Mobil Chemical
DePue, Illinois

Property Location	IDPH Property Identification	Sample Name	Description	Soil Description
SS-10	S21	OU4-SS-10-11(1-6)	Drip Zone, Northeast Corner of House	Dark Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-10	S21	OU4-SS-10-12(1-6)	Drip Zone, Southeast Front of House	Dark Brown Silt, Little F. Sand, Trace Roots
SS-10	S21	OU4-SS-10-13(1-6)	Drip Zone, South Front of House	Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-10	S21	OU4-SS-10-14(1-6)	Drip Zone, Southwest Corner of House	Gray Brown Silt, Some F. Sand, Trace F. M. Gravel/Roots
SS-10	S21	OU4-SS-10-14(1-6)-DUP	Drip Zone, Southwest Corner of House	Gray Brown Silt, Some F. Sand, Trace F. M. Gravel/Roots
SS-10	S21	OU4-SS-10-COMP3(12-18)		
SS-10	S21	OU4-SS-10-11(12-18)	Drip Zone, Northeast Corner of House	Dark Brown/Brown Silt, Some F. Sand, Trace Roots/Clay/F. Gravel
SS-10	S21	OU4-SS-10-12(12-18)	Drip Zone, Southeast Front of House	Brown/Orange Brown Silt/F. Sand, Trace Roots/Clay/F.Gravel
SS-10	S21	OU4-SS-10-13(12-18)	Drip Zone, South Front of House	Orange Brown Silt, Some F. Sand, Trace C. Sand/F. Gravel/Slag
SS-10	S21	OU4-SS-10-14(12-18)	Drip Zone, Southwest Corner of House	Brown Silt/Orange Brown Silt/F. Sand, Trace F. Gravel
SS-10	S21	OU4-SS-10-COMP3(6-12)		
SS-10	S21	OU4-SS-10-11(6-12)	Drip Zone, Northeast Corner of House	Dark Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-10	S21	OU4-SS-10-12(6-12)	Drip Zone, Southeast Front of House	Dark Brown/Brown Silt, Little F. Sand, Trace Roots
SS-10	S21	OU4-SS-10-13(6-12)	Drip Zone, South Front of House	Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-10	S21	OU4-SS-10-14(6-12)	Drip Zone, Southwest Corner of House	Brown Silt, Some F. Sand, Trace F. Gravel
SS-11	D16	OU4-SS-11-COMP1(0-1)		
SS-11	D16	OU4-SS-11-01(0-1)	Side Yard, West of House	Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-11	D16	OU4-SS-11-02(0-1)	Front Yard, South of House	Gray Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-11	D16	OU4-SS-11-03(0-1)	Front Yard, South of House	Gray Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-11	D16	OU4-SS-11-04(0-1)	Side Yard, East of House	Gray Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-11	D16	OU4-SS-11-COMP1(1-6)		
SS-11	D16	OU4-SS-11-01(1-6)	Side Yard, West of House	Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-11	D16	OU4-SS-11-02(1-6)	Front Yard, South of House	Gray Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-11	D16	OU4-SS-11-03(1-6)	Front Yard, South of House	Gray Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-11	D16	OU4-SS-11-04(1-6)	Side Yard, East of House	Gray Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-11	D16	OU4-SS-11-04(1-6)-DUP	Side Yard, East of House	Gray Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-11	D16	OU4-SS-11-COMP1(12-18)		
SS-11	D16	OU4-SS-11-01(12-18)	Side Yard, West of House	Brown/Orange/Dark Brown Silt, Little F. Sand, Trace Roots
SS-11	D16	OU4-SS-11-02(12-18)	Front Yard, South of House	Gray Brown/Dark Brown Silt, Little F. Sand, Trace Roots/F. Gravel

Appendix C

Composites and Discretes

New Jersey Zinc/Mobil Chemical
DePue, Illinois

Property Location	IDPH Property Identification	Sample Name	Description	Soil Description
SS-11	D16	OU4-SS-11-03(12-18)	Front Yard, South of House	Gray Brown Silt/Light Brown F. Sand, Trace Roots/F.M. Gravel
SS-11	D16	OU4-SS-11-04(12-18)	Side Yard, East of House	Orange Brown/Dark Brown Silt, Little F. Sand, Trace Roots/Clay
SS-11	D16	OU4-SS-11-COMP1(6-12)		
SS-11	D16	OU4-SS-11-01(6-12)	Side Yard, West of House	Brown/Orange Silt, Little F. Sand, Trace Roots/F. Gravel
SS-11	D16	OU4-SS-11-02(6-12)	Front Yard, South of House	Gray Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-11	D16	OU4-SS-11-03(6-12)	Front Yard, South of House	Gray Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-11	D16	OU4-SS-11-04(6-12)	Side Yard, East of House	Gray Brown/Orange Brown Silt, Little F. Sand, Trace Roots/F. Gravel/Clay
SS-11	D16	OU4-SS-11-COMP2(0-1)		
SS-11	D16	OU4-SS-11-05(0-1)	Back Yard, North of House	Dark Brown Silt, Little F. Sand, Trace Roots
SS-11	D16	OU4-SS-11-06(0-1)	Back Yard, North of House	Brown Silt, Little F. Sand, Trace Roots
SS-11	D16	OU4-SS-11-07(0-1)	Back Yard, Northeast of House	Brown Silt, Little F. Sand, Trace Roots
SS-11	D16	OU4-SS-11-08(0-1)	Back Yard, Northeast of House	Dark Brown/Black Silt, Little F. Sand, Trace Roots
SS-11	D16	OU4-SS-11-09(0-1)	Back Yard, North of House	Gray Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-11	D16	OU4-SS-11-09(0-1)-DUP	Back Yard, North of House	Gray Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-11	D16	OU4-SS-11-COMP2(1-6)		
SS-11	D16	OU4-SS-11-05(1-6)	Back Yard, North of House	Dark Brown Silt, Little F. Sand, Trace Roots
SS-11	D16	OU4-SS-11-06(1-6)	Back Yard, North of House	Brown Silt, Little F. Sand, Trace Roots
SS-11	D16	OU4-SS-11-07(1-6)	Back Yard, Northeast of House	Brown Silt, Little F. Sand, Trace Roots
SS-11	D16	OU4-SS-11-08(1-6)	Back Yard, Northeast of House	Dark Brown/Black Silt, Little F. Sand, Trace Roots
SS-11	D16	OU4-SS-11-09(1-6)	Back Yard, North of House	Gray Brown/Light Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-11	D16	OU4-SS-11-COMP2(12-18)		
SS-11	D16	OU4-SS-11-05(12-18)	Back Yard, North of House	Orange Brown/Brown Silt, Little F. Sand, Trace Roots
SS-11	D16	OU4-SS-11-06(12-18)	Back Yard, North of House	Light Brown F. Sand, Some Silt, Trace Roots
SS-11	D16	OU4-SS-11-07(12-18)	Back Yard, Northeast of House	Brown/Dark Brown Silt, Little F. Sand, Trace Roots
SS-11	D16	OU4-SS-11-08(12-18)	Back Yard, Northeast of House	Brown Silt, Some F. Sand, Trace Roots
SS-11	D16	OU4-SS-11-09(12-18)	Back Yard, North of House	Light Brown/Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-11	D16	OU4-SS-11-COMP2(12-18)-DUP	Back Yard, North of House	Light Brown/Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-11	D16	OU4-SS-11-COMP2(6-12)		
SS-11	D16	OU4-SS-11-05(6-12)	Back Yard, North of House	Dark Brown/Orange Brown Silt, Little F. Sand, Trace Roots
SS-11	D16	OU4-SS-11-06(6-12)	Back Yard, North of House	Brown Silt, Little F. Sand, Trace Roots/Rubber
SS-11	D16	OU4-SS-11-07(6-12)	Back Yard, Northeast of House	Brown Silt, Little F. Sand, Trace Roots

Appendix C

Composites and Discretes

New Jersey Zinc/Mobil Chemical
DePue, Illinois

Property Location	IDPH Property Identification	Sample Name	Description	Soil Description
SS-11	D16	OU4-SS-11-08(6-12)	Back Yard, Northeast of House	Brown Silt, Some F. Sand, Trace Roots
SS-11	D16	OU4-SS-11-09(6-12)	Back Yard, North of House	Light Brown Silt, Little F. Sand, Trace Roots
SS-11	D16	OU4-SS-11-COMP3(0-1)		
SS-11	D16	OU4-SS-11-10(0-1)	Drip Zone, Northeast Corner of House	Gray Brown Silt, Some F. Sand, Trace Roots
SS-11	D16	OU4-SS-11-11(0-1)	Drip Zone, Southwest Corner of House	Dark Brown/Orange Silt, Little F. Sand, Trace Roots/F. Gravel
SS-11	D16	OU4-SS-11-12(0-1)	Drip Zone, Northwest Corner of House	Dark Brown Silt, Little F. Sand, Trace Roots
SS-11	D16	OU4-SS-11-13(0-1)	Drip Zone, South Front of House	Dark Brown Silt, Some F. Sand, Trace Roots/Brick/F. Gravel
SS-11	D16	OU4-SS-11-13(0-1)-DUP	Drip Zone, South Front of House	Dark Brown Silt, Some F. Sand, Trace Roots/Brick/F. Gravel
SS-11	D16	OU4-SS-11-COMP3(1-6)		
SS-11	D16	OU4-SS-11-10(1-6)	Drip Zone, Northeast Corner of House	Gray Brown/Orange Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-11	D16	OU4-SS-11-11(1-6)	Drip Zone, Southwest Corner of House	Dark Brown/Orange Silt, Little F. Sand, Trace Roots/F. Gravel
SS-11	D16	OU4-SS-11-12(1-6)	Drip Zone, Northwest Corner of House	Dark Brown Silt, Little F. Sand, Trace Roots
SS-11	D16	OU4-SS-11-13(1-6)	Drip Zone, South Front of House	Dark Brown Silt, Some F. Sand, Trace Roots/Brick/F. Gravel
SS-11	D16	OU4-SS-11-COMP3(12-18)		
SS-11	D16	OU4-SS-11-10(12-18)	Drip Zone, Northeast Corner of House	Orange Brown/Dark Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-11	D16	OU4-SS-11-11(12-18)	Drip Zone, Southwest Corner of House	Dark Brown/Orange/Black Silt, Little F. M. Sand, Trace Roots/F. Gravel
SS-11	D16	OU4-SS-11-12(12-18)	Drip Zone, Northwest Corner of House	Dark Brown Silt, Little F. Sand, Trace Roots/Brick
SS-11	D16	OU4-SS-11-13(12-18)	Drip Zone, South Front of House	Dark Brown Silt, Some F. Sand, Trace Roots/Brick/F. Gravel
SS-11	D16	OU4-SS-11-COMP3(6-12)		
SS-11	D16	OU4-SS-11-10(6-12)	Drip Zone, Northeast Corner of House	Orange Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-11	D16	OU4-SS-11-11(6-12)	Drip Zone, Southwest Corner of House	Dark Brown/Orange Silt, Little F. Sand, Trace Roots/F. Gravel
SS-11	D16	OU4-SS-11-12(6-12)	Drip Zone, Northwest Corner of House	Dark Brown Silt/F. Gravel, Little F. Sand, Trace Roots
SS-11	D16	OU4-SS-11-13(6-12)	Drip Zone, South Front of House	Dark Brown Silt, Some F. Sand, Trace Roots/Brick/F. Gravel
SS-12	S19	OU4-SS-12-COMP1(0-1)		
SS-12	S19	OU4-SS-12-01(0-1)	Front Yard, Northeast Corner of House	Dark Brown Silt, Trace Roots/F. Sand/Gravel
SS-12	S19	OU4-SS-12-02(0-1)	Front Yard, Northwest Corner of House	Dark Brown Silt, Trace Roots/F. Sand/Gravel

Appendix C

Composites and Discretes

New Jersey Zinc/Mobil Chemical
DePue, Illinois

Property Location	IDPH Property Identification	Sample Name	Description	Soil Description
SS-12	S19	OU4-SS-12-03(0-1)	Front Yard, Northwest of House	Dark Brown Silt, Trace Roots/F. Sand/Gravel
SS-12	S19	OU4-SS-12-04(0-1)	Front Yard, Northwest of House	Dark Brown Silt, Trace Roots/Gravel
SS-12	S19	OU4-SS-12-05(0-1)	Front-SideYard, West of House	Dark Brown F. Sand/Silt, Trace Roots/Gravel
SS-12	S19	OU4-SS-12-05(0-1)-DUP	Front-SideYard, West of House	Dark Brown F. Sand/Silt, Trace Roots/Gravel
SS-12	S19	OU4-SS-12-COMP1(1-6)		
SS-12	S19	OU4-SS-12-01(1-6)	Front Yard, Northeast Corner of House	Dark Brown Silt/Orange Brown F. Sand, Trace Roots/Gravel
SS-12	S19	OU4-SS-12-02(1-6)	Front Yard, Northwest Corner of House	Dark Brown Silt/Light Brown F. Sand, Trace Roots/Gravel
SS-12	S19	OU4-SS-12-03(1-6)	Front Yard, Northwest of House	Dark Brown Silt, Trace Roots/F. Sand/Gravel
SS-12	S19	OU4-SS-12-04(1-6)	Front Yard, Northwest of House	Dark Brown Silt/Light Brown F. Sand, Trace Roots/Gravel
SS-12	S19	OU4-SS-12-05(1-6)	Front-SideYard, West of House	Dark Brown F. Sand/Silt, Trace Roots/Gravel
SS-12	S19	OU4-SS-12-COMP1(12-18)		
SS-12	S19	OU4-SS-12-01(12-18)	Front Yard, Northeast Corner of House	Orange/Brown F. Sand, Trace Silt/Roots/Gravel
SS-12	S19	OU4-SS-12-02(12-18)	Front Yard, Northwest Corner of House	Light Brown/Orange/Brown F. Sand, Trace Silt/F. Gravel
SS-12	S19	OU4-SS-12-03(12-18)	Front Yard, Northwest of House	Orange Brown F. Sand, Trace Gravel
SS-12	S19	OU4-SS-12-04(12-18)	Front Yard, Northwest of House	Orange Brown/Light Brown F. Sand/Silt/Gravel
SS-12	S19	OU4-SS-12-05(12-18)	Front-SideYard, West of House	Light Brown F. Sand, Trace Silt/Gravel
SS-12	S19	OU4-SS-12-COMP1(6-12)		
SS-12	S19	OU4-SS-12-01(6-12)	Front Yard, Northeast Corner of House	Orange/Brown F. Sand, Trace Silt/Roots/Gravel
SS-12	S19	OU4-SS-12-02(6-12)	Front Yard, Northwest Corner of House	Light Brown F. Sand, Trace Silt/F. Gravel
SS-12	S19	OU4-SS-12-03(6-12)	Front Yard, Northwest of House	Orange Brown F. Sand/Silt, Trace Gravel
SS-12	S19	OU4-SS-12-04(6-12)	Front Yard, Northwest of House	Light Brown F. Sand, Trace Silt
SS-12	S19	OU4-SS-12-05(6-12)	Front-SideYard, West of House	Light Brown F. Sand, Trace Silt/Gravel
SS-12	S19	OU4-SS-12-COMP2(0-1)		
SS-12	S19	OU4-SS-12-06(0-1)	Side Yard, West of House	Gray Brown Silt, Little F. Sand, Trace Roots
SS-12	S19	OU4-SS-12-07(0-1)	Side Yard, West of House	Gray Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-12	S19	OU4-SS-12-08(0-1)	Side Yard, West of House	Gray Brown Silt, Little F. Sand, Trace Roots

Appendix C

Composites and Discretes

New Jersey Zinc/Mobil Chemical
DePue, Illinois

Property Location	IDPH Property Identification	Sample Name	Description	Soil Description
SS-12	S19	OU4-SS-12-09(0-1)	Back Yard, Southwest of House	Gray Brown Silt, Trace Roots/F. Sand/Gravel
SS-12	S19	OU4-SS-12-10(0-1)	Back Yard, South of House	Dark Brown Silt/F. Sand, Trace Roots/Gravel
SS-12	S19	OU4-SS-12-COMP2(1-6)		
SS-12	S19	OU4-SS-12-06(1-6)	Side Yard, West of House	Gray Brown Silt, Little F. Sand, Trace Roots
SS-12	S19	OU4-SS-12-07(1-6)	Side Yard, West of House	Gray Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-12	S19	OU4-SS-12-08(1-6)	Side Yard, West of House	Gray Brown Silt, Little F. Sand, Trace Roots
SS-12	S19	OU4-SS-12-09(1-6)	Back Yard, Southwest of House	Gray Brown Silt, Trace Roots/F. Sand/Gravel
SS-12	S19	OU4-SS-12-10(1-6)	Back Yard, South of House	Dark Brown Silt/Dark Brown/Light Orange Brown F. Sand, Trace Roots/Gravel
SS-12	S19	OU4-SS-12-COMP2(12-18)		
SS-12	S19	OU4-SS-12-06(12-18)	Side Yard, West of House	Orange Brown F. Sand, Little Silt, Trace Roots
SS-12	S19	OU4-SS-12-07(12-18)	Side Yard, West of House	Brown F. Sand, Little Silt, Trace Roots
SS-12	S19	OU4-SS-12-08(12-18)	Side Yard, West of House	Orange Brown F. Sand, Little Silt, Trace Roots/F. Gravel
SS-12	S19	OU4-SS-12-09(12-18)	Back Yard, Southwest of House	Orange Brown F. Sand, Trace Silt/Gravel
SS-12	S19	OU4-SS-12-10(12-18)	Back Yard, South of House	Light Orange Brown F. Sand, Trace Silt/Gravel
SS-12	S19	OU4-SS-12-COMP2(6-12)		
SS-12	S19	OU4-SS-12-06(6-12)	Side Yard, West of House	Dark Brown Silt, Little F. Sand, Trace Roots
SS-12	S19	OU4-SS-12-07(6-12)	Side Yard, West of House	Brown Silt/F. Sand, Trace Roots
SS-12	S19	OU4-SS-12-08(6-12)	Side Yard, West of House	Orange Brown F. Sand, Little Silt, Trace Roots/F. Gravel
SS-12	S19	OU4-SS-12-09(6-12)	Back Yard, Southwest of House	Dark Gray Silt/F. Sand, Trace Gravel
SS-12	S19	OU4-SS-12-10(6-12)	Back Yard, South of House	Light Orange Brown F. Sand, Trace Silt/Gravel
SS-12	S19	OU4-SS-12-COMP3(0-1)		
SS-12	S19	OU4-SS-12-11(0-1)	Drip Zone, Southwest Corner of House	Orange Brown F. Sand, Little Silt, Trace Roots
SS-12	S19	OU4-SS-12-12(0-1)	Drip Zone, South of House	Black/Brown F. Sand, Little Silt, Trace Roots/F. Gravel
SS-12	S19	OU4-SS-12-13(0-1)	Drip Zone, East Side of House	Black/Brown F. Sand, Little Silt, Trace Roots
SS-12	S19	OU4-SS-12-14(0-1)	Drip Zone, North of House (in bushes) Front	Dark Brown Silt/Orange Brown F. Sand, Trace Roots
SS-12	S19	OU4-SS-12-COMP3(1-6)		
SS-12	S19	OU4-SS-12-11(1-6)	Drip Zone, Southwest Corner of House	Orange Brown F. Sand, Little Silt, Trace Roots
SS-12	S19	OU4-SS-12-12(1-6)	Drip Zone, South of House	Black/Brown/Orange Brown F. Sand, Little Silt, Trace Roots/F. Gravel
SS-12	S19	OU4-SS-12-13(1-6)	Drip Zone, East Side of House	Black/Brown F. Sand/ Brown/Orange Silt, Trace Roots
SS-12	S19	OU4-SS-12-14(1-6)	Drip Zone, North of House (in bushes) Front	Dark Brown Silt/Orange Brown F. Sand, Trace Roots

Appendix C

Composites and Discretes

New Jersey Zinc/Mobil Chemical
DePue, Illinois

Property Location	IDPH Property Identification	Sample Name	Description	Soil Description
SS-12	S19	OU4-SS-12-14(1-6)-DUP	Drip Zone, North of House (in bushes) Front	Dark Brown Silt/Orange Brown F. Sand, Trace Roots
SS-12	S19	OU4-SS-12-COMP3(12-18)		
SS-12	S19	OU4-SS-12-11(12-18)	Drip Zone, Southwest Corner of House	Orange Brown F. Sand, Little Silt
SS-12	S19	OU4-SS-12-12(12-18)	Drip Zone, South of House	Orange Brown F. Sand, Little Silt, Trace Roots
SS-12	S19	OU4-SS-12-13(12-18)	Drip Zone, East Side of House	Dark Brown F. Sand, Little Silt
SS-12	S19	OU4-SS-12-14(12-18)	Drip Zone, North of House (in bushes) Front	Orange Brown F. Sand, Some Silt, Trace Roots
SS-12	S19	OU4-SS-12-COMP3(6-12)		
SS-12	S19	OU4-SS-12-11(6-12)	Drip Zone, Southwest Corner of House	Black/Orange Brown F. Sand, Little Silt, Trace Coal
SS-12	S19	OU4-SS-12-12(6-12)	Drip Zone, South of House	Orange Brown F. Sand, Little Silt, Trace Roots
SS-12	S19	OU4-SS-12-13(6-12)	Drip Zone, East Side of House	Brown/Orange/Dark Brown Silt/F. Sand
SS-12	S19	OU4-SS-12-14(6-12)	Drip Zone, North of House (in bushes) Front	Orange Brown F. Sand, Some Silt, Trace Roots
SS-13	S02	OU4-SS-13-COMP1(0-1)		
SS-13	S02	OU4-SS-13-01(0-1)	Front/Side Yard, Northwest of House	Gray Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-13	S02	OU4-SS-13-02(0-1)	Side Yard, South of House	Gray/Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-13	S02	OU4-SS-13-03(0-1)	Side Yard, South of House	Orange Brown Silt, Little F. Sand, Trace Roots
SS-13	S02	OU4-SS-13-04(0-1)	Side Yard, South of House	Orange Brown F. Sand, Some Silt, Trace Roots/F. Gravel
SS-13	S02	OU4-SS-13-05(0-1)	Side Yard, South of House	Orange Brown Silt, Some F. Sand, Trace Roots
SS-13	S02	OU4-SS-13-COMP1(1-6)		
SS-13	S02	OU4-SS-13-01(1-6)	Front/Side Yard, Northwest of House	Gray Brown/Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-13	S02	OU4-SS-13-02(1-6)	Side Yard, South of House	Gray/Brown/Orange Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-13	S02	OU4-SS-13-03(1-6)	Side Yard, South of House	Orange Brown Silt, Little F. Sand, Trace Roots
SS-13	S02	OU4-SS-13-04(1-6)	Side Yard, South of House	Orange Brown F. Sand, Some Silt, Trace Roots/F. Gravel
SS-13	S02	OU4-SS-13-05(1-6)	Side Yard, South of House	Orange Brown Silt, Some F. Sand, Trace Roots
SS-13	S02	OU4-SS-13-COMP1(12-18)		
SS-13	S02	OU4-SS-13-01(12-18)	Front/Side Yard, Northwest of House	Gray Brown/Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-13	S02	OU4-SS-13-02(12-18)	Side Yard, South of House	Dark Brown/Black Silt, Little F. Sand, Trace Woody Debris
SS-13	S02	OU4-SS-13-03(12-18)	Side Yard, South of House	Brown F. M. Sand, Some Silt, Trace Coal/F. Gravel
SS-13	S02	OU4-SS-13-04(12-18)	Side Yard, South of House	Brown Silt, Some F. Sand, Trace Roots
SS-13	S02	OU4-SS-13-05(12-18)	Side Yard, South of House	Orange Brown/Brown Silt, Some F. Sand, Trace Roots
SS-13	S02	OU4-SS-13-COMP1(6-12)		

Appendix C

Composites and Discretes

New Jersey Zinc/Mobil Chemical
DePue, Illinois

Property Location	IDPH Property Identification	Sample Name	Description	Soil Description
SS-13	S02	OU4-SS-13-01(6-12)	Front/Side Yard, Northwest of House	Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-13	S02	OU4-SS-13-02(6-12)	Side Yard, South of House	Orange Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-13	S02	OU4-SS-13-03(6-12)	Side Yard, South of House	Orange Brown F. Sand, Some Silt, Trace Roots/M. Sand
SS-13	S02	OU4-SS-13-04(6-12)	Side Yard, South of House	Orange Brown F. Sand, Some Silt, Trace Roots/F. Gravel
SS-13	S02	OU4-SS-13-05(6-12)	Front/Side Yard, Northwest of House	Orange Brown Silt, Some F. Sand, Trace Roots
SS-13	S02	OU4-SS-13-COMP2(0-1)		
SS-13	S02	OU4-SS-13-06(0-1)	Back Yard, Southeast of House	Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-13	S02	OU4-SS-13-07(0-1)	Back Yard, Southesat of House	Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-13	S02	OU4-SS-13-08(0-1)	Back Yard, Southeast of House, Near Garage	Brown Silt, Little F. Sand, Trace Roots/M. Sand/F. Gravel
SS-13	S02	OU4-SS-13-09(0-1)	Back Yard, East of House, Infront of Garage	Brown Silt, Little F. Sand, Trace Roots/Clay
SS-13	S02	OU4-SS-13-10(0-1)	Back Yard, East of House, Northeast of Back Porch	Orange Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-13	S02	OU4-SS-13-COMP2(1-6)		
SS-13	S02	OU4-SS-13-06(1-6)	Back Yard, Southeast of House	Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-13	S02	OU4-SS-13-07(1-6)	Back Yard, Southesat of House	Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-13	S02	OU4-SS-13-08(1-6)	Back Yard, Southeast of House, Near Garage	Brown Silt/Orange Brown Silt/Clay, Little F. Sand, Trace Roots, M. Sand/F. Gravel
SS-13	S02	OU4-SS-13-09(1-6)	Back Yard, East of House, Infront of Garage	Brown Silt, Little F. Sand, Trace Roots/Clay
SS-13	S02	OU4-SS-13-10(1-6)	Back Yard, East of House, Northeast of Back Porch	Orange Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-13	S02	OU4-SS-13-10(1-6)-DUP	Back Yard, East of House, Northeast of Back Porch	Orange Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-13	S02	OU4-SS-13-COMP2(12-18)		
SS-13	S02	OU4-SS-13-06(12-18)	Back Yard, Southeast of House	Dark Brown Silt, Little F. Sand, Trace Roots
SS-13	S02	OU4-SS-13-07(12-18)	Back Yard, Southesat of House	Orange Brown/Dark Brown Silt/Clay, Little F. Sand, Trace Roots
SS-13	S02	OU4-SS-13-08(12-18)	Back Yard, Southeast of House, Near Garage	Dark Brown Silt, Little F. Sand, Trace Roots

Appendix C

Composites and Discretes

New Jersey Zinc/Mobil Chemical
DePue, Illinois

Property Location	IDPH Property Identification	Sample Name	Description	Soil Description
SS-13	S02	OU4-SS-13-09(12-18)	Back Yard, East of House, Infront of Garage	Brown/Dark Brown/Black Silt, Little F. Sand, Trace Roots
SS-13	S02	OU4-SS-13-10(12-18)	Back Yard, East of House, Northeast of Back Porch	Dark Brown Silt, Little F. Sand, Trace Roots
SS-13	S02	OU4-SS-13-COMP2(6-12)		
SS-13	S02	OU4-SS-13-06(6-12)	Back Yard, Southeast of House	Brown/Dark Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-13	S02	OU4-SS-13-07(6-12)	Back Yard, Southesat of House	Brown/Orange Brown Silt/Clay, Some F. Sand, Trace Roots/F. Gravel
SS-13	S02	OU4-SS-13-08(6-12)	Back Yard, Southeast of House, Near Garage	Orange Brown/Dark Brown Silt/Clay, Little F. Sand, Trace Roots
SS-13	S02	OU4-SS-13-09(6-12)	Back Yard, East of House, Infront of Garage	Brown Silt, Little F. Sand, Trace Roots/Clay
SS-13	S02	OU4-SS-13-10(6-12)	Back Yard, East of House, Northeast of Back Porch	Orange Brown/Dark Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-13	S02	OU4-SS-13-COMP3(0-1)		
SS-13	S02	OU4-SS-13-11(0-1)	Drip Zone, Northwest Corner of House	Brown/Orange Silt, Some F. Sand, Trace Roots/F. Gravel
SS-13	S02	OU4-SS-13-12(0-1)	Drip Zone, Northweast Corner of House	Light Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-13	S02	OU4-SS-13-13(0-1)	Drip Zone, Southwest Corner of House	Brown Silt, Little F. Sand, Trace Roots/Clay/F. Gravel
SS-13	S02	OU4-SS-13-14(0-1)	Drip Zone, East of House in Flower Garden	Brown/Black Silt, Little F. Sand, Trace Roots
SS-13	S02	OU4-SS-13-COMP3(1-6)		
SS-13	S02	OU4-SS-13-11(1-6)	Drip Zone, Northwest Corner of House	Brown/Orange Silt, Some F. Sand, Trace Roots/F. Gravel
SS-13	S02	OU4-SS-13-12(1-6)	Drip Zone, Northweast Corner of House	Light Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-13	S02	OU4-SS-13-13(1-6)	Drip Zone, Southwest Corner of House	Brown Silt, Little F. Sand, Trace Roots/Clay/F. Gravel
SS-13	S02	OU4-SS-13-14(1-6)	Drip Zone, East of House in Flower Garden	Brown/Black Silt, Little F. Sand, Trace Roots
SS-13	S02	OU4-SS-13-14(1-6)-DUP	Drip Zone, East of House in Flower Garden	Brown/Black Silt, Little F. Sand, Trace Roots
SS-13	S02	OU4-SS-13-COMP3(12-18)		
SS-13	S02	OU4-SS-13-11(12-18)	Drip Zone, Northwest Corner of House	Brown Silt, Trace F. Sand/Root
SS-13	S02	OU4-SS-13-12(12-18)	Drip Zone, Northweast Corner of House	Brown Silt, Little F. Sand, Trace Roots/Clay
SS-13	S02	OU4-SS-13-13(12-18)	Drip Zone, Southwest Corner of House	Orange/Brown/Black Silt, Little F. Sand, Trace Clay/Roots

Appendix C

Composites and Discretes

New Jersey Zinc/Mobil Chemical
DePue, Illinois

Property Location	IDPH Property Identification	Sample Name	Description	Soil Description
SS-13	S02	OU4-SS-13-14(12-18)	Drip Zone, East of House in Flower Garden	Orange Brown/Dark Brown Silt, Little F. Sand, Trace Clay/Roots
SS-13	S02	OU4-SS-13-COMP3(12-18)-DUP		
SS-13	S02	OU4-SS-13-11(12-18)	Drip Zone, Northwest Corner of House	Brown Silt, Trace F. Sand/Root
SS-13	S02	OU4-SS-13-12(12-18)	Drip Zone, Northweast Corner of House	Brown Silt, Little F. Sand, Trace Roots/Clay
SS-13	S02	OU4-SS-13-13(12-18)	Drip Zone, Southwest Corner of House	Orange/Brown/Black Silt, Little F. Sand, Trace Clay/Roots
SS-13	S02	OU4-SS-13-14(12-18)	Drip Zone, East of House in Flower Garden	Orange Brown/Dark Brown Silt, Little F. Sand, Trace Clay/Roots
SS-13	S02	OU4-SS-13-COMP3(6-12)		
SS-13	S02	OU4-SS-13-11(6-12)	Drip Zone, Northwest Corner of House	Brown/Orange Silt, Some F. Sand, Trace Roots/F. Gravel
SS-13	S02	OU4-SS-13-12(6-12)	Drip Zone, Northweast Corner of House	Light Brown/Dark Brown/Black Silt, Little F. Sand, trace Roots/F. Gravel/Coal
SS-13	S02	OU4-SS-13-13(6-12)	Drip Zone, Southwest Corner of House	Brown/Orange/Black Silt, Little F. Sand, Trace Clay/Roots/F. Gravel
SS-13	S02	OU4-SS-13-14(6-12)	Drip Zone, East of House in Flower Garden	Orange Brown Silt, Little F. Sand, Trace Clay/Roots
SS-14	W14	OU4-SS-14-16(0-1)	Garden	Light Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-14	W14	OU4-SS-14-16(1-6)	Garden	Light Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-14	W14	OU4-SS-14-16(12-18)	Garden	Light Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-14	W14	OU4-SS-14-16(6-12)	Garden	Light Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-14	W14	OU4-SS-14-17(0-1)	Garden	Light Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-14	W14	OU4-SS-14-17(1-6)	Garden	Light Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-14	W14	OU4-SS-14-17(12-18)	Garden	Light Brown/Dark Brown Silt, Little F. M. Sand, Trace Roots/F. Gravel
SS-14	W14	OU4-SS-14-17(12-18)-DUP	Garden	
SS-14	W14	OU4-SS-14-17(6-12)	Garden	Light Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-14	W14	OU4-SS-14-COMP1(0-1)		
SS-14	W14	OU4-SS-14-01(0-1)	Front/Side Yard, North of House	Light Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-14	W14	OU4-SS-14-02(0-1)	Front/Side Yard, North of House	Gray Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-14	W14	OU4-SS-14-03(0-1)	Side Yard, North of House	Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-14	W14	OU4-SS-14-04(0-1)	Side Yard, North of House	Light Brown Silt, Little F. Sand, Trace Roots
SS-14	W14	OU4-SS-14-05(0-1)	Side Yard, North of House	Gray Brown Silt, Little F. Sand, Trace Roots
SS-14	W14	OU4-SS-14-COMP1(1-6)		
SS-14	W14	OU4-SS-14-01(1-6)	Front/Side Yard, North of House	Light Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-14	W14	OU4-SS-14-02(1-6)	Front/Side Yard, North of House	Gray Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-14	W14	OU4-SS-14-03(1-6)	Side Yard, North of House	Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-14	W14	OU4-SS-14-04(1-6)	Side Yard, North of House	Light Brown Silt, Little F. Sand, Trace Roots
SS-14	W14	OU4-SS-14-05(1-6)	Side Yard, North of House	Gray Brown/Brown Silt, Some F. Sand, Trace Roots
SS-14	W14	OU4-SS-14-COMP1(12-18)		
SS-14	W14	OU4-SS-14-01(12-18)	Front/Side Yard, North of House	Light Brown Silt, Little F. Sand, Trace Roots/F. Gravel

Appendix C

Composites and Discretes

New Jersey Zinc/Mobil Chemical
DePue, Illinois

Property Location	IDPH Property Identification	Sample Name	Description	Soil Description
SS-14	W14	OU4-SS-14-02(12-18)	Front/Side Yard, North of House	Light Brown Silt, Little F. Sand, Trace Roots
SS-14	W14	OU4-SS-14-03(12-18)	Side Yard, North of House	Orange Brown F. Sand, Little Silt, Trace Roots
SS-14	W14	OU4-SS-14-04(12-18)	Side Yard, North of House	Light Brown/Brown Silt, Some F. Sand, Trace Roots
SS-14	W14	OU4-SS-14-05(12-18)	Side Yard, North of House	Brown/Orange/Dark Brown Silt/F. Sand, Trace Roots
SS-14	W14	OU4-SS-14-COMP1(6-12)		
SS-14	W14	OU4-SS-14-01(6-12)	Front/Side Yard, North of House	Light Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-14	W14	OU4-SS-14-02(6-12)	Front/Side Yard, North of House	Gray Brown/Light Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-14	W14	OU4-SS-14-03(6-12)	Side Yard, North of House	Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-14	W14	OU4-SS-14-04(6-12)	Side Yard, North of House	Light Brown Silt, Little F. Sand, Trace Roots
SS-14	W14	OU4-SS-14-05(6-12)	Side Yard, North of House	Brown Silt, Some F. Sand, Trace Roots
SS-14	W14	OU4-SS-14-05(6-12)-DUP	Side Yard, North of House	Brown Silt, Some F. Sand, Trace Roots
SS-14	W14	OU4-SS-14-COMP2(0-1)		
SS-14	W14	OU4-SS-14-06(0-1)	Back/Side Yard, Northwest of House	Gray Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-14	W14	OU4-SS-14-07(0-1)	Back/Side Yard, Northwest of House	Gray/Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-14	W14	OU4-SS-14-08(0-1)	Back/Side Yard, Northwest of House	Gray Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-14	W14	OU4-SS-14-09(0-1)	Back/Side Yard, Northwest, Near Garden	Light Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-14	W14	OU4-SS-14-10(0-1)	Back/Side Yard, Northwest, Near Garden	Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-14	W14	OU4-SS-14-COMP2(1-6)		
SS-14	W14	OU4-SS-14-06(1-6)	Back/Side Yard, Northwest of House	Gray Brown/Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-14	W14	OU4-SS-14-07(1-6)	Back/Side Yard, Northwest of House	Gray/Brown Silt, Little F. Sand, Trace Roots/Clay/F. Gravel
SS-14	W14	OU4-SS-14-08(1-6)	Back/Side Yard, Northwest of House	Gray Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-14	W14	OU4-SS-14-09(1-6)	Back/Side Yard, Northwest, Near Garden	Light Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-14	W14	OU4-SS-14-10(1-6)	Back/Side Yard, Northwest, Near Garden	Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-14	W14	OU4-SS-14-COMP2(12-18)		
SS-14	W14	OU4-SS-14-06(12-18)	Back/Side Yard, Northwest of House	Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-14	W14	OU4-SS-14-07(12-18)	Back/Side Yard, Northwest of House	Brown/Dark Brown Silt, Little F. Sand, Trace Roots/Clay
SS-14	W14	OU4-SS-14-08(12-18)	Back/Side Yard, Northwest of House	Gray Brown/Orange/Brown Silt, Some F. Sand, Trace Roots/F. Gravel

Appendix C

Composites and Discretes

New Jersey Zinc/Mobil Chemical
DePue, Illinois

Property Location	IDPH Property Identification	Sample Name	Description	Soil Description
SS-14	W14	OU4-SS-14-09(12-18)	Back/Side Yard, Northwest, Near Garden	Orange Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-14	W14	OU4-SS-14-10(12-18)	Back/Side Yard, Northwest, Near Garden	Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-14	W14	OU4-SS-14-COMP2(12-18)-DUP	Back/Side Yard, Northwest, Near Garden	Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-14	W14	OU4-SS-14-COMP2(6-12)		
SS-14	W14	OU4-SS-14-06(6-12)	Back/Side Yard, Northwest of House	Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-14	W14	OU4-SS-14-07(6-12)	Back/Side Yard, Northwest of House	Brown Silt, Little F. Sand, Trace Roots/Clay
SS-14	W14	OU4-SS-14-08(6-12)	Back/Side Yard, Northwest of House	Gray Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-14	W14	OU4-SS-14-09(6-12)	Back/Side Yard, Northwest, Near Garden	Light Brown/Orange Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-14	W14	OU4-SS-14-10(6-12)	Back/Side Yard, Northwest, Near Garden	Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-14	W14	OU4-SS-14-10(6-12)-DUP	Back/Side Yard, Northwest, Near Garden	Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-14	W14	OU4-SS-14-COMP3(0-1)		
SS-14	W14	OU4-SS-14-11(0-1)	Back Yard, West of House	Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-14	W14	OU4-SS-14-12(0-1)	Back Yard, West of House	Dark Brown Silt, Little F. Sand, Trace Roots
SS-14	W14	OU4-SS-14-13(0-1)	Back Yard, West of House	Gray Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-14	W14	OU4-SS-14-14(0-1)	Back Yard, West of House	Brown Silt, Some F. Sand, Little F. Gravel, Trace Roots
SS-14	W14	OU4-SS-14-15(0-1)	Back Yard, West of House	Brown Orange Silt, Little F. Sand, Trace Roots
SS-14	W14	OU4-SS-14-COMP3(1-6)		
SS-14	W14	OU4-SS-14-11(1-6)	Back Yard, West of House	Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-14	W14	OU4-SS-14-12(1-6)	Back Yard, West of House	Dark Brown/Brown Silt, Little F. Sand, Trace Roots/M. Sand/F. Gravel
SS-14	W14	OU4-SS-DUP-7	Back Yard, West of House	Dark Brown/Brown Silt, Little F. Sand, Trace Roots/M. Sand/F. Gravel
SS-14	W14	OU4-SS-14-13(1-6)	Back Yard, West of House	Gray Brown/Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-14	W14	OU4-SS-14-14(1-6)	Back Yard, West of House	Brown Silt, Some F. Sand, Little F. Gravel, Trace Roots
SS-14	W14	OU4-SS-14-15(1-6)	Back Yard, West of House	Brown Orange Silt, Little F. Sand, Trace Roots
SS-14	W14	OU4-SS-14-15(1-6)-DUP	Back Yard, West of House	Brown Orange Silt, Little F. Sand, Trace Roots
SS-14	W14	OU4-SS-14-COMP3(12-18)		
SS-14	W14	OU4-SS-14-11(12-18)	Back Yard, West of House	Brown Silt/Brown/Black F. M. Sand, Trace Roots/F. Gravel/Glass
SS-14	W14	OU4-SS-14-12(12-18)	Back Yard, West of House	Brown F. M. Sand, Little Silt, Trace Roots/F. Gravel
SS-14	W14	OU4-SS-14-13(12-18)	Back Yard, West of House	Brown/Dark Brown/Orange Silt, Some F. M. Sand, Trace Roots/Woody Debris/F. Gravel
SS-14	W14	OU4-SS-14-14(12-18)	Back Yard, West of House	Brown Gray Silt/Orange Brown F. M. Sand, Trace F. Gravel

Appendix C

Composites and Discretes

New Jersey Zinc/Mobil Chemical
DePue, Illinois

Property Location	IDPH Property Identification	Sample Name	Description	Soil Description
SS-14	W14	OU4-SS-14-15(12-18)	Back Yard, West of House	Brown Orange Silt, Little F. Sand, Trace Roots
SS-14	W14	OU4-SS-14-COMP3(6-12)		
SS-14	W14	OU4-SS-14-11(6-12)	Back Yard, West of House	Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-14	W14	OU4-SS-14-12(6-12)	Back Yard, West of House	Brown Silt/Brown F. M. Sand, Trace Roots/ M. Sand/F. Gravel
SS-14	W14	OU4-SS-14-13(6-12)	Back Yard, West of House	Gray Brown/Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-14	W14	OU4-SS-14-14(6-12)	Back Yard, West of House	Brown/Brown Gray Silt, Some F. Sand, Little F. Gravel, Trace Roots
SS-14	W14	OU4-SS-14-15(6-12)	Back Yard, West of House	Brown Orange Silt, Little F. Sand, Trace Roots
SS-14	W14	OU4-SS-14-COMP4(0-1)		
SS-14	W14	OU4-SS-14-18(0-1)	Drip Zone	Dark Brown Orange Silt, Some F. Sand, Trace Roots/Brick/Coal
SS-14	W14	OU4-SS-14-19(0-1)	Drip Zone	Dark Brown/Black Silt, Some F. Sand, Trace Roots/F. Gravel
SS-14	W14	OU4-SS-14-19(0-1) DUP	Drip Zone	Dark Brown/Black Silt, Some F. Sand, Trace Roots/F. Gravel
SS-14	W14	OU4-SS-14-20(0-1)	Drip Zone	Dark Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-14	W14	OU4-SS-14-20(0-1) DUP	Drip Zone	Dark Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-14	W14	OU4-SS-14-21(0-1)	Drip Zone	Dark Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-14	W14	OU4-SS-14-COMP4(1-6)		
SS-14	W14	OU4-SS-14-18(1-6)	Drip Zone	Dark Brown Orange Silt, Some F. Sand, Trace Roots/Brick/Coal
SS-14	W14	OU4-SS-14-19(1-6)	Drip Zone	Dark Brown/Black Silt, Some F. Sand, Trace Roots/F. Gravel
SS-14	W14	OU4-SS-14-20(1-6)	Drip Zone	Dark Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-14	W14	OU4-SS-14-21(1-6)	Drip Zone	Dark Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-14	W14	OU4-SS-14-21(1-6)-DUP	Drip Zone	Dark Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-14	W14	OU4-SS-14-COMP4(12-18)		
SS-14	W14	OU4-SS-14-18(12-18)	Drip Zone	Brown/Gray/Black/Orange Brown Silt/Clay, Little F. Sand, Trace Coal/F. Gravel
SS-14	W14	OU4-SS-14-19(12-18)	Drip Zone	Brown Silt/Clay, Trace F. Sand/F. Gravel
SS-14	W14	OU4-SS-14-20(12-18)	Drip Zone	Dark Brown/Light Brown Silt/F. M. Sand, Little Clay, Trace Roots/F. Gravel
SS-14	W14	OU4-SS-14-21(12-18)	Drip Zone	Light Brown Orange/Dark Brown F. M. Sand, Little Silt, Trace F. Gravel
SS-14	W14	OU4-SS-14-COMP4(6-12)		
SS-14	W14	OU4-SS-14-18(6-12)	Drip Zone	Dark Brown Orange/Brown/Gray/Black Silt/Clay, Some F. Sand, Trace Roots/Brick/Coal/F. Gravel
SS-14	W14	OU4-SS-14-19(6-12)	Drip Zone	Dark Brown/Black Silt/Clay, Some F. Sand, Trace Roots/F. Gravel
SS-14	W14	OU4-SS-14-20(6-12)	Drip Zone	Dark Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-14	W14	OU4-SS-14-21(6-12)	Drip Zone	Dark Brown Silt/Light Brown Orange F. M. Sand, Trace Roots/F. Gravel
SS-15	S18	OU4-SS-15-COMP1(0-1)		
SS-15	S18	OU4-SS-15-01(0-1)	Side Yard, South of House	Dark Gray Silt/F. Sand, Trace Roots/Gravel
SS-15	S18	OU4-SS-15-02(0-1)	Side Yard, South of House	Dark Brown Silt/F. Sand, Trace Roots/Moss/Gravel
SS-15	S18	OU4-SS-15-03(0-1)	Side Yard, South of House	Dark Gray Silt/F. Sand, Trace Roots/Gravel
SS-15	S18	OU4-SS-15-04(0-1)	Side Yard, South of House	Dark Gray F. Sand, Trace Roots/Silt/Gravel
SS-15	S18	OU4-SS-15-05(0-1)	Side Yard, South of House	Dark Gray Silt/F. Sand, Trace Roots/Gravel
SS-15	S18	OU4-SS-15-COMP1(1-6)		
SS-15	S18	OU4-SS-15-01(1-6)	Side Yard, South of House	Dark Gray/Dark Brown Silt/F. Sand, Trace Roots/Gravel
SS-15	S18	OU4-SS-15-02(1-6)	Side Yard, South of House	Dark Brown Silt/F. Sand, Trace Roots/Moss/Gravel
SS-15	S18	OU4-SS-15-03(1-6)	Side Yard, South of House	Dark Gray Silt/F. Sand, Trace Roots/Gravel
SS-15	S18	OU4-SS-15-04(1-6)	Side Yard, South of House	Dark Gray F. Sand, Trace Roots/Silt/Gravel
SS-15	S18	OU4-SS-15-05(1-6)	Side Yard, South of House	Dark Gray Silt/F. Sand, Trace Roots/Gravel
SS-15	S18	OU4-SS-15-COMP1(12-18)		

Appendix C

Composites and Discretes

New Jersey Zinc/Mobil Chemical
DePue, Illinois

Property Location	IDPH Property Identification	Sample Name	Description	Soil Description
SS-15	S18	OU4-SS-15-01(12-18)	Side Yard, South of House	Dark Brown/Light Brown F. Sand/Gravel
SS-15	S18	OU4-SS-15-02(12-18)	Side Yard, South of House	Orange Brown F. Sand, Trace Gravel
SS-15	S18	OU4-SS-15-03(12-18)	Side Yard, South of House	Dark Brown/Orange Brown Silt/F. Sand, Trace Roots/Gravel
SS-15	S18	OU4-SS-15-04(12-18)	Side Yard, South of House	Dark Gray Silt, Trace F. Sand/Roots/Gravel/Slag
SS-15	S18	OU4-SS-15-05(12-18)	Side Yard, South of House	Light Gray F. Sand/Gravel
SS-15	S18	OU4-SS-15-COMP1(6-12)		
SS-15	S18	OU4-SS-15-01(6-12)	Side Yard, South of House	Dark Brown F. Sand/Gravel
SS-15	S18	OU4-SS-15-02(6-12)	Side Yard, South of House	Dark Brown/Orange Brown F. Sand, Trace Silt/Gravel
SS-15	S18	OU4-SS-15-03(6-12)	Side Yard, South of House	Dark Gray/Dark Brown Silt/F. Sand, Trace Roots/Gravel
SS-15	S18	OU4-SS-15-04(6-12)	Side Yard, South of House	Dark Gray F. Sand/Silt, Trace Roots/Gravel/Slag
SS-15	S18	OU4-SS-15-05(6-12)	Side Yard, South of House	Dark Gray/Light Gray Silt/F. Sand/Gravel, Trace Roots
SS-15	S18	OU4-SS-15-05(6-12)-DUP	Side Yard, South of House	Dark Gray/Light Gray Silt/F. Sand/Gravel, Trace Roots
SS-15	S18	OU4-SS-15-COMP2(0-1)		
SS-15	S18	OU4-SS-15-06(0-1)	Front Yard, West of House	Gray Brown Silt, Some F. Sand, Trace Roots/m. Sand/F.M. Gravel
SS-15	S18	OU4-SS-15-07(0-1)	Front/Side Yard, Northwest of House	Gray Brown Silt, Little F. M. Sand, Trace Roots/F.M. Gravel
SS-15	S18	OU4-SS-15-08(0-1)	Side Yard, North of House	Dark Gray/Brown Silt, Little F. M. Sand, Trace Roots/F. M. Gravel
SS-15	S18	OU4-SS-15-08(0-1) DUP	Side Yard, North of House	Dark Gray/Brown Silt, Little F. M. Sand, Trace Roots/F. M. Gravel
SS-15	S18	OU4-SS-15-09(0-1)	Side Yard, North of House	Brown Silt, Little F. Sand, Trace Roots/F. M. Gravel
SS-15	S18	OU4-SS-15-10(0-1)	Side Yard, North of House	Brown Silt, Some F. Sand, Trace Roots
SS-15	S18	OU4-SS-15-COMP2(1-6)		
SS-15	S18	OU4-SS-15-06(1-6)	Front Yard, West of House	Gray Brown Silt, Some F. Sand, Trace Roots/m. Sand/F.M. Gravel
SS-15	S18	OU4-SS-15-07(1-6)	Front/Side Yard, Northwest of House	Gray Brown Silt, Little F. M. Sand, Trace Roots/F.M. Gravel
SS-15	S18	OU4-SS-15-08(1-6)	Side Yard, North of House	Dark Gray/Brown Silt, Little F. M. Sand, Trace Roots/F. M. Gravel
SS-15	S18	OU4-SS-15-09(1-6)	Side Yard, North of House	Brown Silt, Little F. Sand, Trace Roots/F. M. Gravel
SS-15	S18	OU4-SS-15-10(1-6)	Side Yard, North of House	Brown Silt, Some F. Sand, Trace Roots
SS-15	S18	OU4-SS-15-COMP2(12-18)		
SS-15	S18	OU4-SS-15-06(12-18)	Front Yard, West of House	Brown Silt, Some F. M. Sand, Trace Roots/F.M. Gravel
SS-15	S18	OU4-SS-15-07(12-18)	Front/Side Yard, Northwest of House	Gray Brown Silt, Little F. M. Sand, Trace Roots/F. M. Gravel
SS-15	S18	OU4-SS-15-08(12-18)	Side Yard, North of House	Orange Brown Silt, Little F. M. Sand, Trace Roots
SS-15	S18	OU4-SS-15-09(12-18)	Side Yard, North of House	Orange Brown F. M. Gravel, Some Silt, Trace F. Sand
SS-15	S18	OU4-SS-15-10(12-18)	Side Yard, North of House	Orange Brown Silt, Some F. Sand, Trace F. M. Gravel
SS-15	S18	OU4-SS-15-COMP2(6-12)		
SS-15	S18	OU4-SS-15-06(6-12)	Front Yard, West of House	Gray Brown Silt, Some F. Sand, Trace M. Sand/F.M. Gravel/Roots

Appendix C

Composites and Discretes

New Jersey Zinc/Mobil Chemical
DePue, Illinois

Property Location	IDPH Property Identification	Sample Name	Description	Soil Description
SS-15	S18	OU4-SS-15-07(6-12)	Front/Side Yard, Northwest of House	Gray Brown Silt, Little F. M. Sand, Trace Roots/F. M. Gravel
SS-15	S18	OU4-SS-15-08((6-12)	Side Yard, North of House	Dark Gray/Brown/Orange Brown Silt, Little F. M. Sand, Trace Roots/F.M. Gravel
SS-15	S18	OU4-SS-15-09(6-12)	Side Yard, North of House	Brown Silt, Little F. Sand, Trace Roots/F. M. Gravel
SS-15	S18	OU4-SS-15-10(6-12)	Side Yard, North of House	Brown/Orange Brown Silt, Some F. Sand, Trace F.M. Gravel/Roots
SS-15	S18	OU4-SS-15-COMP3(0-1)		
SS-15	S18	OU4-SS-15-11(0-1)	Side Yard, North of House	Dark Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-15	S18	OU4-SS-15-12(0-1)	Side Yard, North of House	Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-15	S18	OU4-SS-15-13(0-1)	Side Yard, North of House	Dark Brown Silt, Little F.M. Sand, Trace Roots/F. Gravel
SS-15	S18	OU4-SS-15-14(0-1)	Side Yard, North of House	Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-15	S18	OU4-SS-15-15(0-1)	Side Yard, North of House	Dark Brown/Black Silt, Little F. Sand, Trace Roots/F. Gravel
SS-15	S18	OU4-SS-15-15(0-1)-DUP	Side Yard, North of House	Dark Brown/Black Silt, Little F. Sand, Trace Roots/F. Gravel
SS-15	S18	OU4-SS-15-COMP3(1-6)		
SS-15	S18	OU4-SS-15-11(1-6)	Side Yard, North of House	Dark Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-15	S18	OU4-SS-15-12(1-6)	Side Yard, North of House	Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-15	S18	OU4-SS-15-13(1-6)	Side Yard, North of House	Dark Brown Silt, Little F.M. Sand, Trace Roots/F. Gravel
SS-15	S18	OU4-SS-15-14(1-6)	Side Yard, North of House	Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-15	S18	OU4-SS-15-15(1-6)	Side Yard, North of House	Dark Brown/Black Silt, Little F. Sand, Trace Roots/F. Gravel
SS-15	S18	OU4-SS-15-COMP3(12-18)		
SS-15	S18	OU4-SS-15-11(12-18)	Side Yard, North of House	Orange Brown Silt, Some F. M. Gravel, Trace F. Sand
SS-15	S18	OU4-SS-15-12(12-18)	Side Yard, North of House	Orange Brown Silt, Little F. M. Sand, Trace Clay/F. Gravel
SS-15	S18	OU4-SS-15-13(12-18)	Side Yard, North of House	Orange Brown Silt, Some F.M. Gravel, Trace F. Sand
SS-15	S18	OU4-SS-15-14(12-18)	Side Yard, North of House	Brown Silt, Some F. M. Gravel, Little F. Sand, Trace Roots
SS-15	S18	OU4-SS-15-15(12-18)	Side Yard, North of House	Dark Brown/Black Silt, Little F. Sand, Trace Roots/F. Gravel
SS-15	S18	OU4-SS-15-COMP3(6-12)		
SS-15	S18	OU4-SS-15-11(6-12)	Side Yard, North of House	Dark Brown/Orange Brown Silt, Some F. M. Gravel, Little F. Sand, Trace Roots
SS-15	S18	OU4-SS-15-12(6-12)	Side Yard, North of House	Brown/Orange Brown Silt, Little F. M. Sand, Trace Roots/Clay/F. Gravel
SS-15	S18	OU4-SS-15-13(6-12)	Side Yard, North of House	Orange Brown Silt, Little F. Sand, Trace F. Gravel
SS-15	S18	OU4-SS-15-14(6-12)	Side Yard, North of House	Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-15	S18	OU4-SS-15-15(6-12)	Side Yard, North of House	Dark Brown/Black Silt, Little F. Sand, Trace Roots/F. Gravel
SS-15	S18	OU4-SS-15-15(6-12)-DUP	Side Yard, North of House	Dark Brown/Black Silt, Little F. Sand, Trace Roots/F. Gravel
SS-15	S18	OU4-SS-15-COMP4(0-1)		
SS-15	S18	OU4-SS-15-16(0-1)	Drip Zone, Northwest Corner of House	Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-15	S18	OU4-SS-15-17(0-1)	Drip Zone, Northeast Corner of House	Dark Brown/Black Silt, Little F. Sand, Trace Roots/F. Gravel

Appendix C

Composites and Discretes

New Jersey Zinc/Mobil Chemical
DePue, Illinois

Property Location	IDPH Property Identification	Sample Name	Description	Soil Description
SS-15	S18	OU4-SS-15-18(0-1)	Drip Zone, West Front of House	Dark Brown Silt, Some F. Sand, Little F. Gravel
SS-15	S18	OU4-SS-15-19(0-1)	Drip Zone, Southwest Corner of House	Brown/Orange Silt, Little F. Sand, Trace Roots/F. Gravel
SS-15	S18	OU4-SS-15-COMP4(1-6)		
SS-15	S18	OU4-SS-15-16(1-6)	Drip Zone, Northwest Corner of House	Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-15	S18	OU4-SS-15-17(1-6)	Drip Zone, Northeast Corner of House	Dark Brown/Black Silt, Little F. Sand, Trace Roots/F. Gravel
SS-15	S18	OU4-SS-15-18(1-6)	Drip Zone, West Front of House	Dark Brown Silt, Some F. Sand, Little F. Gravel
SS-15	S18	OU4-SS-15-19(1-6)	Drip Zone, Southwest Corner of House	Brown/Orange Silt, Little F. Sand, Trace Roots/F. Gravel
SS-15	S18	OU4-SS-15-COMP4(12-18)		
SS-15	S18	OU4-SS-15-16(12-18)	Drip Zone, Northwest Corner of House	Orange Brown Silt, Little F. M. Gravel, Trace F. Sand
SS-15	S18	OU4-SS-15-17(12-18)	Drip Zone, Northeast Corner of House	Dark Brown/Orange Brown Silt, Little F. Sand, Trace Roots/Wood Debris
SS-15	S18	OU4-SS-15-18(12-18)	Drip Zone, West Front of House	Dark Brown Silt, Some F. Sand, Little F. Gravel
SS-15	S18	OU4-SS-15-19(12-18)	Drip Zone, Southwest Corner of House	Brown/Orange Silt, Little F. Sand, Trace Roots/F. Gravel/Wood Debris
SS-15	S18	OU4-SS-15-COMP4(6-12)		
SS-15	S18	OU4-SS-15-16(6-12)	Drip Zone, Northwest Corner of House	Brown/Orange Brown Silt, Little F. M. Sand/Gravel, Trace Roots
SS-15	S18	OU4-SS-15-17(6-12)	Drip Zone, Northeast Corner of House	Dark Brown/Black/Brown/Silt/Clay, Little F. Sand, Trace Roods/F. Gravel/Wood Debris
SS-15	S18	OU4-SS-15-18(6-12)	Drip Zone, West Front of House	Dark Brown Silt, Some F. Sand, Little F. Gravel
SS-15	S18	OU4-SS-15-19(6-12)	Drip Zone, Southwest Corner of House	Brown/Orange Silt, Little F. Sand, Trace Roots/F. Gravel
SS-16	S12	OU4-SS-16-COMP1(0-1)		
SS-16	S12	OU4-SS-16-01(0-1)	Front Yard, West of House	Orange Brown Silt, Little F. Sand, Trace Roots
SS-16	S12	OU4-SS-16-02(0-1)	Side Yard, Southwest of House	Gray Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-16	S12	OU4-SS-16-03(0-1)	Side Yard, South of House	Gray Brown Silt, Little F. Sand, Trace Roots
SS-16	S12	OU4-SS-16-04(0-1)	Side Yard, South of House	Gray Brown Silt, Little F. Sand, Trace Roots
SS-16	S12	OU4-SS-16-05(0-1)	Side Yard, South of House	Orange Brown Silt, Little F. Sand, Trace Roots
SS-16	S12	OU4-SS-16-05(0-1)-DUP	Side Yard, South of House	Orange Brown Silt, Little F. Sand, Trace Roots
SS-16	S12	OU4-SS-16-COMP1(0-1)-DUP		
SS-16	S12	OU4-SS-16-COMP1(1-6)		
SS-16	S12	OU4-SS-16-01(1-6)	Front Yard, West of House	Orange Brown Silt, Little F. Sand, Trace Roots
SS-16	S12	OU4-SS-16-02(1-6)	Side Yard, Southwest of House	Gray Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-16	S12	OU4-SS-16-03(1-6)	Side Yard, South of House	Gray Brown Silt, Little F. Sand, Trace Roots

Appendix C

Composites and Discretes

New Jersey Zinc/Mobil Chemical
DePue, Illinois

Property Location	IDPH Property Identification	Sample Name	Description	Soil Description
SS-16	S12	OU4-SS-16-04(1-6)	Side Yard, South of House	Gray Brown/Orange Silt, Little F. Sand, Trace Roots
SS-16	S12	OU4-SS-16-05(1-6)	Side Yard, South of House	Orange Brown/Brown Silt, Some F. Sand, Trace Roots
SS-16	S12	OU4-SS-16-COMP1(12-18)		
SS-16	S12	OU4-SS-16-01(12-18)	Front Yard, West of House	Orange Brown/Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-16	S12	OU4-SS-16-02(12-18)	Side Yard, Southwest of House	Brown Silt, Some F. Sand, Trace Roots
SS-16	S12	OU4-SS-16-03(12-18)	Side Yard, South of House	Brown/Orange Brown Silt/F. Sand, Trace Roots
SS-16	S12	OU4-SS-16-04(12-18)	Side Yard, South of House	Gray Brown/Brown Silty/Clay, Some F. Sand, Trace Roots
SS-16	S12	OU4-SS-16-05(12-18)	Side Yard, South of House	Brown Silt/Clay, Little F. Sand, Trace Roots
SS-16	S12	OU4-SS-16-COMP1(6-12)		
SS-16	S12	OU4-SS-16-01(6-12)	Front Yard, West of House	Orange Brown Silt, Little F. Sand, Trace Roots
SS-16	S12	OU4-SS-16-02(6-12)	Side Yard, Southwest of House	Gray Brown/Brown Silt/Brown F. M. Gravel, Some F. Sand, Trace Roots/F. Gravel
SS-16	S12	OU4-SS-16-03(6-12)	Side Yard, South of House	Gray Brown/Brown Silt, Little F. Sand, Trace Roots
SS-16	S12	OU4-SS-16-04(6-12)	Side Yard, South of House	Gray Brown Silt, Some F. Sand, Trace Roots
SS-16	S12	OU4-SS-16-05(6-12)	Side Yard, South of House	Brown Silt/Clay, Some F. Sand, Trace Roots
SS-16	S12	OU4-SS-16-COMP2(0-1)		
SS-16	S12	OU4-SS-16-06(0-1)	Side Yard, Northwest of House	Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-16	S12	OU4-SS-16-07(0-1)	Side Yard, North of House	Gray/Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-16	S12	OU4-SS-16-08(0-1)	Side Yard North of House	Gray/Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-16	S12	OU4-SS-16-09(0-1)	Side Yard, North of House	Gray/Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-16	S12	OU4-SS-16-10(0-1)	Side Yard, Northeast of House	Gray/Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-16	S12	OU4-SS-16-COMP2(1-6)		
SS-16	S12	OU4-SS-16-06(1-6)	Side Yard, Northwest of House	Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-16	S12	OU4-SS-16-07(1-6)	Side Yard, North of House	Gray/Brown Silt/Orange/Brown Black F. Sand, Trace Roots/F. Gravel
SS-16	S12	OU4-SS-16-08(1-6)	Side Yard North of House	Gray/Brown/Orange Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-16	S12	OU4-SS-16-09(1-6)	Side Yard, North of House	Gray/Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-16	S12	OU4-SS-16-10(1-6)	Side Yard, Northeast of House	Gray/Brown/Orange Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-16	S12	OU4-SS-16-10(1-6)-DUP	Side Yard, Northeast of House	Gray/Brown/Orange Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-16	S12	OU4-SS-16-COMP2(12-18)		
SS-16	S12	OU4-SS-16-06(12-18)	Side Yard, Northwest of House	Dark Brown Silt, Some F. Sand, Trace Roots
SS-16	S12	OU4-SS-16-07(12-18)	Side Yard, North of House	Orange/Brown/Black F. Sand, Some Silt, Trace Roots/F. Gravel

Appendix C

Composites and Discretes

New Jersey Zinc/Mobil Chemical
DePue, Illinois

Property Location	IDPH Property Identification	Sample Name	Description	Soil Description
SS-16	S12	OU4-SS-16-08(12-18)	Side Yard North of House	Orange Brown/Dark Brown Silt, Some F. Sand, Trace Roots
SS-16	S12	OU4-SS-16-09(12-18)	Side Yard, North of House	Gray/Brown/Dark Brown Silt, Some F. Sand, Trace Roots/Brick/Clay/F. Gravel
SS-16	S12	OU4-SS-16-10(12-18)	Side Yard, Northeast of House	Orange Brown/Dark Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-16	S12	OU4-SS-16-COMP2(6-12)		
SS-16	S12	OU4-SS-16-06(6-12)	Side Yard, Northwest of House	Brown/Dark Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-16	S12	OU4-SS-16-07(6-12)	Side Yard, North of House	Gray/Brown Silt/Orange/Brown Black F. Sand, Trace Roots/F. Gravel
SS-16	S12	OU4-SS-16-08(6-12)	Side Yard North of House	Gray/Brown/Orange Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-16	S12	OU4-SS-16-09(6-12)	Side Yard, North of House	Gray/Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-16	S12	OU4-SS-16-10(6-12)	Side Yard, Northeast of House	Gray/Brown/Orange Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-16	S12	OU4-SS-16-COMP3(0-1)		
SS-16	S12	OU4-SS-16-11(0-1)	Back Yard, East of House	Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-16	S12	OU4-SS-16-12(0-1)	Back Yard, East of House	Gray/Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-16	S12	OU4-SS-16-13(0-1)	Back Yard, East of House	Gray Brown Silt, Little F. Sand Trace Roots/F. Gravel
SS-16	S12	OU4-SS-16-14(0-1)	Back Yard, East of House	Gray/Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-16	S12	OU4-SS-16-15(0-1)	Back Yard, East of House	Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-16	S12	OU4-SS-16-COMP3(1-6)		
SS-16	S12	OU4-SS-16-11(1-6)	Back Yard, East of House	Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-16	S12	OU4-SS-16-12(1-6)	Back Yard, East of House	Gray/Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-16	S12	OU4-SS-16-13(1-6)	Back Yard, East of House	Gray Brown/Orange Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-16	S12	OU4-SS-16-14(1-6)	Back Yard, East of House	Gray/Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-16	S12	OU4-SS-16-15(1-6)	Back Yard, East of House	Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-16	S12	OU4-SS-16-15(1-6)-DUP	Back Yard, East of House	Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-16	S12	OU4-SS-16-COMP3(12-18)		
SS-16	S12	OU4-SS-16-11(12-18)	Back Yard, East of House	Dark Brown Silt, Little F. Sand
SS-16	S12	OU4-SS-16-12(12-18)	Back Yard, East of House	Brown/Black Silt, Little F. Sand, Trace Roots/F. Gravel
SS-16	S12	OU4-SS-16-13(12-18)	Back Yard, East of House	Orange Brown Silt, Some F. Sand, Trace Roots
SS-16	S12	OU4-SS-16-14(12-18)	Back Yard, East of House	Gray/Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-16	S12	OU4-SS-16-15(12-18)	Back Yard, East of House	Dark Brown Silt, Little F.M. Sand, Trace Roots
SS-16	S12	OU4-SS-16-COMP3(6-12)		
SS-16	S12	OU4-SS-16-11(6-12)	Back Yard, East of House	Brown/Dark Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-16	S12	OU4-SS-16-12(6-12)	Back Yard, East of House	Gray/Brown/Black Silt, Little F. Sand, Trace Roots/F. Gravel
SS-16	S12	OU4-SS-16-13(6-12)	Back Yard, East of House	Gray Brown/Orange Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-16	S12	OU4-SS-16-14(6-12)	Back Yard, East of House	Gray/Brown Silt, Little F. Sand, Trace Roots/F. Gravel

Appendix C

Composites and Discretes

New Jersey Zinc/Mobil Chemical
DePue, Illinois

Property Location	IDPH Property Identification	Sample Name	Description	Soil Description
SS-16	S12	OU4-SS-16-15(6-12)	Back Yard, East of House	Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-16	S12	OU4-SS-DUP-8	Back Yard, East of House	Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-16	S12	OU4-SS-16-COMP4(0-1)		
SS-16	S12	OU4-SS-16-16(0-1)	Back Yard, East of House	Gray/Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-16	S12	OU4-SS-16-17(0-1)	Back Yard, East of House	Gray Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-16	S12	OU4-SS-16-18(0-1)	Back Yard, East of House	Gray/Brown Silt, Some F. M. Sand, Trace Roots
SS-16	S12	OU4-SS-16-19(0-1)	Back Yard, East of House	Gray/Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-16	S12	OU4-SS-16-20(0-1)	Back Yard, East of House	Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-16	S12	OU4-SS-16-COMP4(1-6)		
SS-16	S12	OU4-SS-16-16(1-6)	Back Yard, East of House	Gray/Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-16	S12	OU4-SS-16-17(1-6)	Back Yard, East of House	Gray Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-16	S12	OU4-SS-16-17(1-6) DUP	Back Yard, East of House	Gray Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-16	S12	OU4-SS-16-18(1-6)	Back Yard, East of House	Gray/Brown Silt, Some F. M. Sand, Trace Roots
SS-16	S12	OU4-SS-16-19(1-6)	Back Yard, East of House	Gray/Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-16	S12	OU4-SS-16-20(1-6)	Back Yard, East of House	Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-16	S12	OU4-SS-16-COMP4(12-18)		
SS-16	S12	OU4-SS-16-16(12-18)	Back Yard, East of House	Brown/Black/Orange/Brown Orange Silt, Some F. Sand, Trace Roots/Brick/F. Gravel
SS-16	S12	OU4-SS-16-17(12-18)	Back Yard, East of House	Brown Silt, Some F. Sand, Trace Roots
SS-16	S12	OU4-SS-16-18(12-18)	Back Yard, East of House	Brown Silt, Some F. Sand, Trace Roots
SS-16	S12	OU4-SS-16-19(12-18)	Back Yard, East of House	Dark Brown/Black Silt, Little F. Sand, Trace Roots
SS-16	S12	OU4-SS-16-20(12-18)	Back Yard, East of House	Gray/Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-16	S12	OU4-SS-16-20(12-18)-DUP	Back Yard, East of House	Gray/Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-16	S12	OU4-SS-16-COMP4(6-12)		
SS-16	S12	OU4-SS-16-16(6-12)	Back Yard, East of House	Gray/Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-16	S12	OU4-SS-16-16(6-12) DUP	Back Yard, East of House	Gray/Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-16	S12	OU4-SS-16-17(6-12)	Back Yard, East of House	Gray Brown/Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-16	S12	OU4-SS-16-18(6-12)	Back Yard, East of House	Gray/Brown Silt, Some F. M. Sand, Trace Roots
SS-16	S12	OU4-SS-16-19(6-12)	Back Yard, East of House	Gray/Brown/Dark Brown/Black Silt, Some F. Sand, Trace Roots/F. Gravel
SS-16	S12	OU4-SS-16-20(6-12)	Back Yard, East of House	Gray/Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-16	S12	OU4-SS-16-COMP5(0-1)		
SS-16	S12	OU4-SS-16-21(0-1)	Drip Zone, Northeast Corner of House	Brown/Black Silt, Some F. Sand, Trace Roots/F. Gravel
SS-16	S12	OU4-SS-16-21(0-1) DUP	Drip Zone, Northeast Corner of House	Brown/Black Silt, Some F. Sand, Trace Roots/F. Gravel
SS-16	S12	OU4-SS-16-22(0-1)	Drip Zone, Northwest Corner of House	Brown/Black Silt, Some F. Sand, Trace Roots/F. Gravel

Appendix C

Composites and Discretes

New Jersey Zinc/Mobil Chemical
DePue, Illinois

Property Location	IDPH Property Identification	Sample Name	Description	Soil Description
SS-16	S12	OU4-SS-16-23(0-1)	Drip Zone, Northwest Front of House	Brown F. M. Gravel, Some Silt, Trace Roots/F. Sand
SS-16	S12	OU4-SS-16-24(0-1)	Drip Zone, Southwest Front of House	Brown F. M. Gravel, Some Silt, Trace Roots/F. Sand
SS-16	S12	OU4-SS-16-24(0-1)-DUP	Drip Zone, Southwest Front of House	Brown F. M. Gravel, Some Silt, Trace Roots/F. Sand
SS-16	S12	OU4-SS-16-COMP5(1-6)		
SS-16	S12	OU4-SS-16-21(1-6)	Drip Zone, Northeast Corner of House	Brown/Black Silt, Some F. Sand, Trace Roots/F. Gravel
SS-16	S12	OU4-SS-16-22(1-6)	Drip Zone, Northwest Corner of House	Brown/Black Silt, Some F. Sand, Trace Roots/F. Gravel
SS-16	S12	OU4-SS-16-23(1-6)	Drip Zone, Northwest Front of House	Brown F. M. Gravel/Orange Brown Silt/Clay, Some F. Sand, Trace Roots
SS-16	S12	OU4-SS-16-24(1-6)	Drip Zone, Southwest Front of House	Brown F. M. Gravel, Some Silt, Trace Roots/F. Sand
SS-16	S12	OU4-SS-16-COMP5(12-18)		
SS-16	S12	OU4-SS-16-21(12-18)	Drip Zone, Northeast Corner of House	Brown Silt, Little F. Sand, Trace Roots
SS-16	S12	OU4-SS-16-22(12-18)	Drip Zone, Northwest Corner of House	Dark Brown/Orange Brown Silt/Clay, Little F. Sand, Trace Roots/F. Gravel
SS-16	S12	OU4-SS-16-23(12-18)	Drip Zone, Northwest Front of House	Dark Brown Silt, Some F. Sand, Trace Roots
SS-16	S12	OU4-SS-16-24(12-18)	Drip Zone, Southwest Front of House	Orange Brown/Dark Brown Silt, Some F. Sand, Trace Roots
SS-16	S12	OU4-SS-16-COMP5(12-18)-DUP		
SS-16	S12	OU4-SS-16-COMP5(6-12)		
SS-16	S12	OU4-SS-16-21(6-12)	Drip Zone, Northeast Corner of House	Brown Silt, Little F. Sand, Trace Roots
SS-16	S12	OU4-SS-16-22(6-12)	Drip Zone, Northwest Corner of House	Brown/Black/Dark Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-16	S12	OU4-SS-16-23(6-12)	Drip Zone, Northwest Front of House	Orange Brown/Dark Brown Silt/Clay, Some F. Sand, Trace Roots
SS-16	S12	OU4-SS-16-24(6-12)	Drip Zone, Southwest Front of House	Orange Brown Silt, Some F. Sand, Trace Roots
SS-17	W06	OU4-SS-17-COMP1(0-1)		
SS-17	W06	OU4-SS-17-01(0-1)	Vacant Lot, Front Half	Gray/Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-17	W06	OU4-SS-17-02(0-1)	Vacant Lot, Front Half	Dark Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-17	W06	OU4-SS-17-03(0-1)	Vacant Lot, Front Half	Gray/Brown Silt, Some F. M. Gravel, Little F. Sand, Trace Roots
SS-17	W06	OU4-SS-17-04(0-1)	Vacant Lot, Front Half	Brown Silt, Some F. M. Gravel, Little F. M. Sand, Trace Roots
SS-17	W06	OU4-SS-17-05(0-1)	Vacant Lot, Front Half	Gray Brown Silt, Some F. M. Sand, Trace Roots/F. Gravel
SS-17	W06	OU4-SS-17-COMP1(1-6)		
SS-17	W06	OU4-SS-17-01(1-6)	Vacant Lot, Front Half	Gray/Brown Silt, Some F. Sand, Trace Roots/F. Gravel

Appendix C

Composites and Discretes

New Jersey Zinc/Mobil Chemical
DePue, Illinois

Property Location	IDPH Property Identification	Sample Name	Description	Soil Description
SS-17	W06	OU4-SS-17-02(1-6)	Vacant Lot, Front Half	Dark Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-17	W06	OU4-SS-17-03(1-6)	Vacant Lot, Front Half	Gray/Brown Silt, Some F. M. Gravel, Little F. Sand, Trace Roots
SS-17	W06	OU4-SS-17-04(1-6)	Vacant Lot, Front Half	Brown Silt, Some F. M. Gravel, Little F. M. Sand, Trace Roots
SS-17	W06	OU4-SS-17-05(1-6)	Vacant Lot, Front Half	Gray Brown Silt, Some F. M. Sand, Trace Roots/F. Gravel
SS-17	W06	OU4-SS-17-05(1-6)-DUP	Vacant Lot, Front Half	Gray Brown Silt, Some F. M. Sand, Trace Roots/F. Gravel
SS-17	W06	OU4-SS-17-COMP1(12-18)		
SS-17	W06	OU4-SS-17-01(12-18)	Vacant Lot, Front Half	Orange Brown Silt, Little F. Sand, Trace F. Gravel
SS-17	W06	OU4-SS-17-02(12-18)	Vacant Lot, Front Half	Dark Brown Silt/Brown F. Sand, Trace Roots/F. Gravel
SS-17	W06	OU4-SS-17-03(12-18)	Vacant Lot, Front Half	Brown F. M. Sand, Some Silt, Little F. Gravel, Trace Roots
SS-17	W06	OU4-SS-17-04(12-18)	Vacant Lot, Front Half	Dark Brown F. M. Gravel, Some F. M. Sand, Trace Silt
SS-17	W06	OU4-SS-17-05(12-18)	Vacant Lot, Front Half	Gray Brown Silt, Some F. M. Sand, Trace Roots/F. Gravel
SS-17	W06	OU4-SS-17-COMP1(6-12)		
SS-17	W06	OU4-SS-17-01(6-12)	Vacant Lot, Front Half	Gray/Brown/Dark Brown/Orange Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-17	W06	OU4-SS-17-02(6-12)	Vacant Lot, Front Half	Dark Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-17	W06	OU4-SS-17-03(6-12)	Vacant Lot, Front Half	Gray/Brown Silt/Tan F. M. Sand, Some F. M. Gravel, Trace Roots
SS-17	W06	OU4-SS-17-04(6-12)	Vacant Lot, Front Half	Brown Silt, Some F. M. Gravel/Sand, Trace Roots
SS-17	W06	OU4-SS-17-05(6-12)	Vacant Lot, Front Half	Gray Brown Silt, Some F. M. Sand, Trace Roots/F. Gravel
SS-17	W06	OU4-SS-17-COMP2(0-1)		
SS-17	W06	OU4-SS-17-06(0-1)	Vacant Lot, Rear Half Near Alley	Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-17	W06	OU4-SS-17-07(0-1)	Vacant Lot, Rear Half Near Alley	Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-17	W06	OU4-SS-17-08(0-1)	Vacant Lot, Rear Half Near Alley	Gray/Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-17	W06	OU4-SS-17-09(0-1)	Vacant Lot, Rear Half Near Alley	Gray/Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-17	W06	OU4-SS-17-10(0-1)	Vacant Lot, Rear Half Near Alley	Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-17	W06	OU4-SS-17-10(0-1)-DUP	Vacant Lot, Rear Half Near Alley	Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-17	W06	OU4-SS-17-COMP2(1-6)		
SS-17	W06	OU4-SS-17-06(1-6)	Vacant Lot, Rear Half Near Alley	Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-17	W06	OU4-SS-17-07(1-6)	Vacant Lot, Rear Half Near Alley	Brown Silt, Little F. Sand, Trace Roots/F. Gravel
SS-17	W06	OU4-SS-17-08(1-6)	Vacant Lot, Rear Half Near Alley	Gray/Brown Silt/F.M. Sand, Trace Roots/F. Gravel
SS-17	W06	OU4-SS-17-09(1-6)	Vacant Lot, Rear Half Near Alley	Gray/Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-17	W06	OU4-SS-17-10(1-6)	Vacant Lot, Rear Half Near Alley	Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-17	W06	OU4-SS-17-COMP2(12-18)		
SS-17	W06	OU4-SS-17-06(12-18)	Vacant Lot, Rear Half Near Alley	Brown Silt/Clay, Little F. Sand, Trace Roots
SS-17	W06	OU4-SS-17-07(12-18)	Vacant Lot, Rear Half Near Alley	Brown/Light Brown F. Sand, Some Silt, Trace Roots/F. Gravel
SS-17	W06	OU4-SS-17-08(12-18)	Vacant Lot, Rear Half Near Alley	Gray/Brown F. M. Sand, Some Silt, Trace Roots

Appendix C

Composites and Discretes

New Jersey Zinc/Mobil Chemical
DePue, Illinois

Property Location	IDPH Property Identification	Sample Name	Description	Soil Description
SS-17	W06	OU4-SS-17-09(12-18)	Vacant Lot, Rear Half Near Alley	Brown/Orange Brown Silt/Clay, Some F. Sand, Trace Roots/F. Gravel
SS-17	W06	OU4-SS-17-10(12-18)	Vacant Lot, Rear Half Near Alley	Brown/Black Silt, Some F. Sand, Trace Black Fines/F. Gravel
SS-17	W06	OU4-SS-17-10(12-18)-DUP	Vacant Lot, Rear Half Near Alley	Brown/Black Silt, Some F. Sand, Trace Black Fines/F. Gravel
SS-17	W06	OU4-SS-17-COMP2(6-12)		
SS-17	W06	OU4-SS-17-06(6-12)	Vacant Lot, Rear Half Near Alley	Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-17	W06	OU4-SS-17-07(6-12)	Vacant Lot, Rear Half Near Alley	Brown Silt/F. Sand, Trace Roots/F. Gravel
SS-17	W06	OU4-SS-17-08(6-12)	Vacant Lot, Rear Half Near Alley	Gray/Brown F. M Sand, Some Silt, Trace Roots/F. Gravel
SS-17	W06	OU4-SS-17-09(6-12)	Vacant Lot, Rear Half Near Alley	Gray/Brown Silt, Some F. Sand, Trace Roots/F. Gravel
SS-17	W06	OU4-SS-17-10(6-12)	Vacant Lot, Rear Half Near Alley	Brown Silt, Some F. Sand, Trace Roots/F. Gravel

Notes:
F = Fine
M = Medium
C = Coarse

APPENDIX D

APPENDIX D

Appendix D

XRF Data Review
(Electronic Data on CD-ROM)

APPENDIX E

APPENDIX E

Appendix E

Laboratory Data Validation Reports (Electronic Data on CD-ROM)

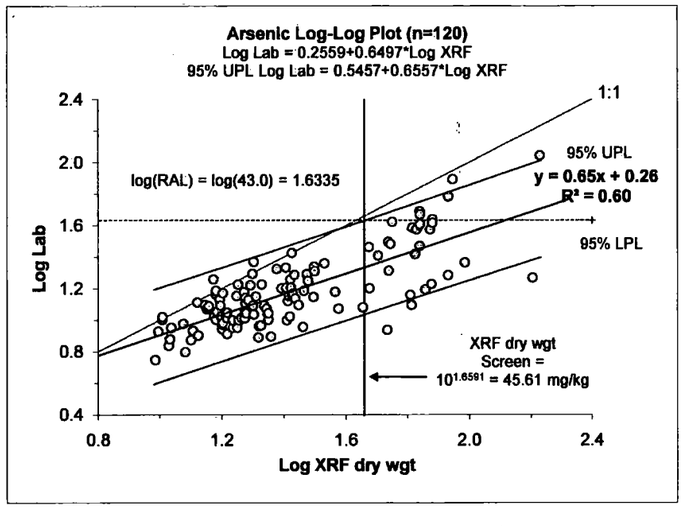
APPENDIX F

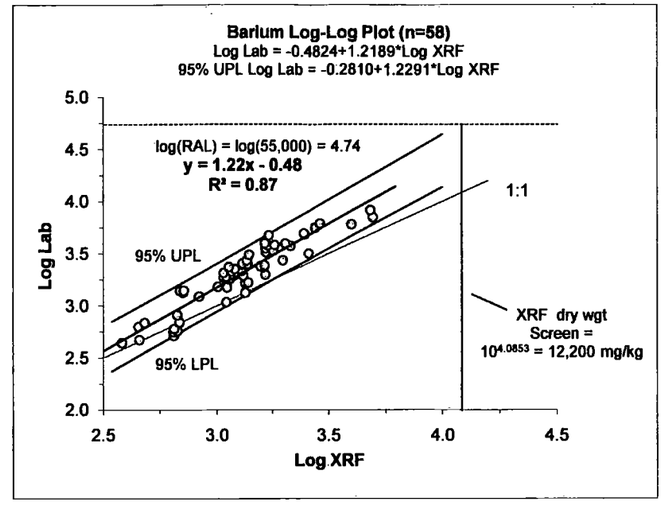
APPENDIX F

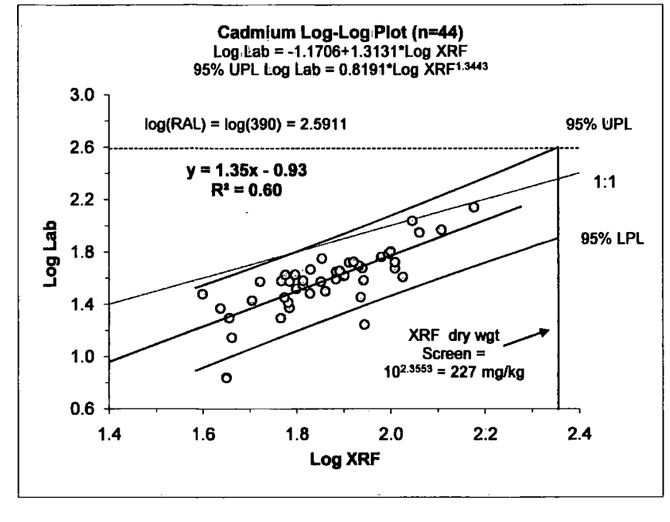
Appendix F

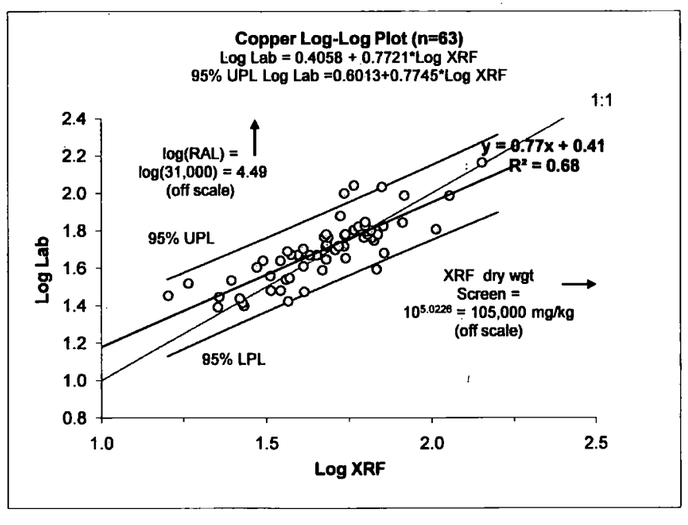
Regression Analysis Data Plots

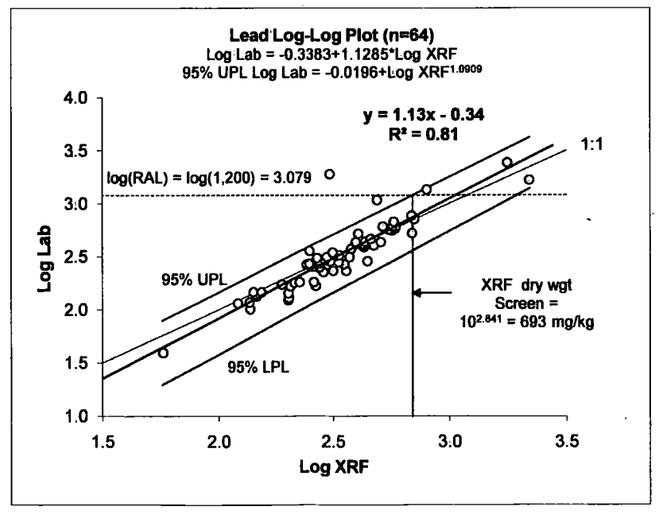
APPENDIX F
DePue Group - Log-Log Plots of XRF dry weight for Arsenic, Barium, Cadmium, Copper, Lead, Zinc
Prepared by Phil Goodrum and Taura Nichols

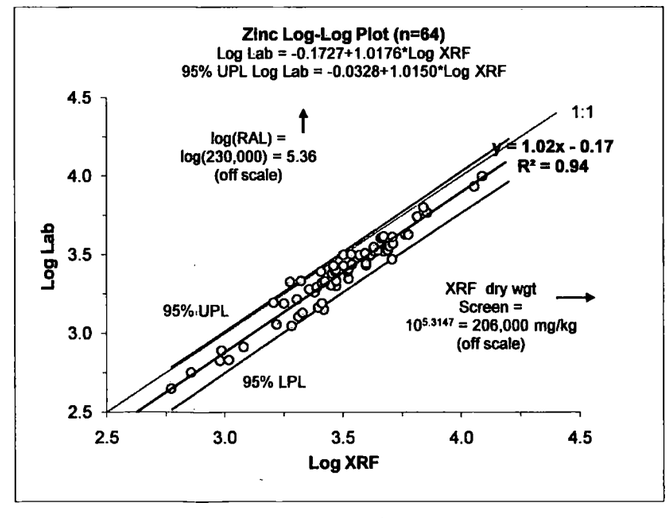




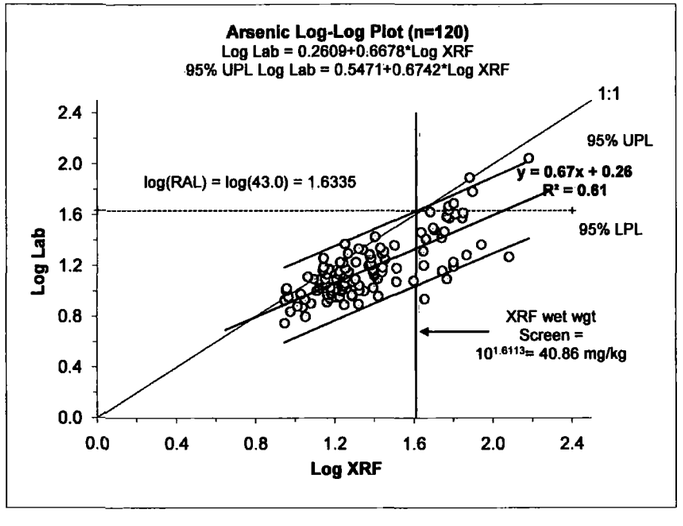


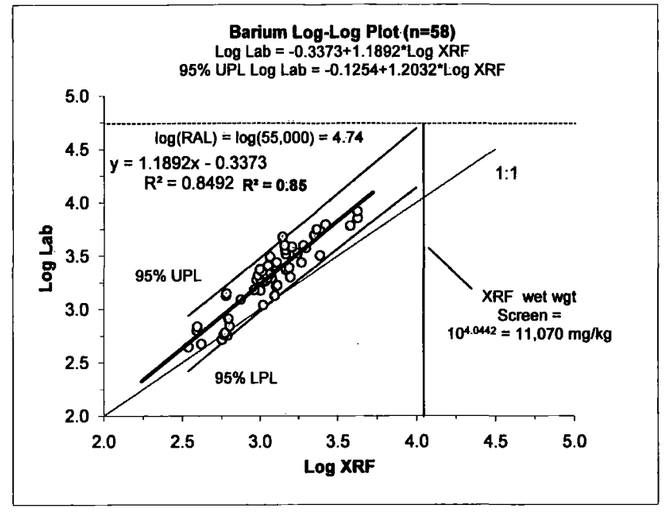


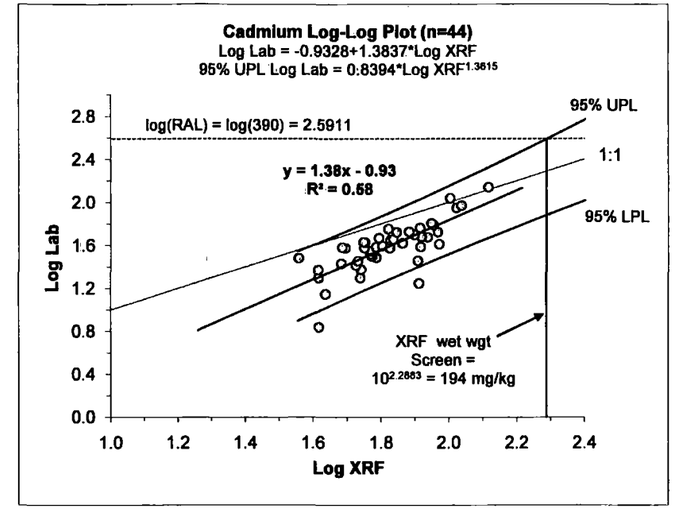


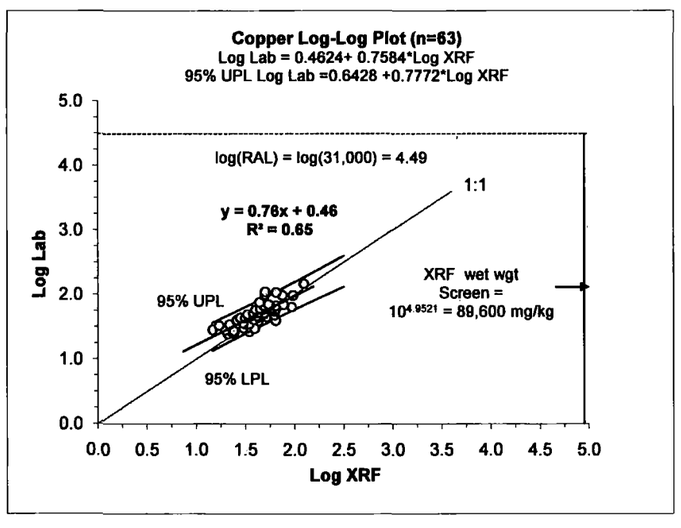


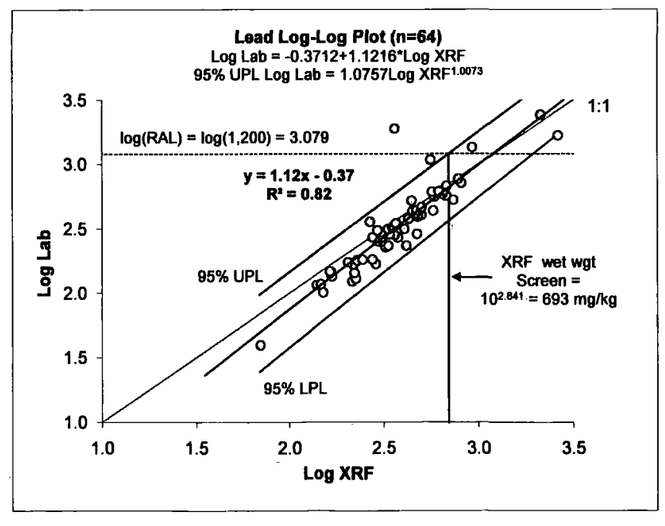
APPENDIX F
DePue Group - Log-Log Plots of XRF wet weight for Arsenic, Barium, Cadmium, Copper, Lead, Zinc
Prepared by Phil Goodrum and Taura Nichols

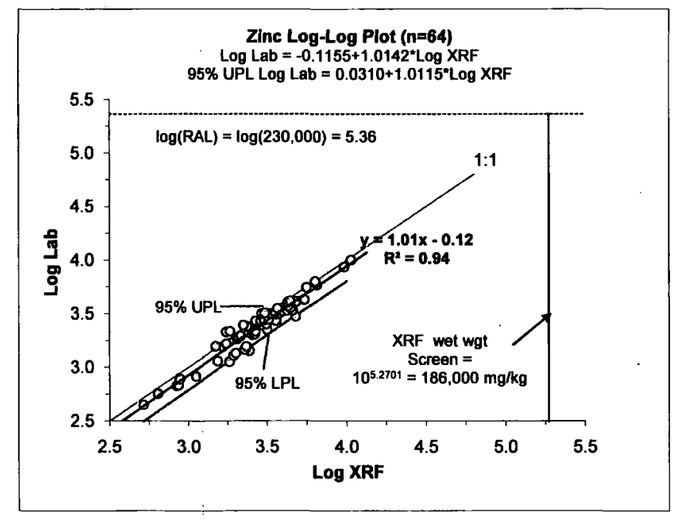












APPENDIX G

APPENDIX G

Appendix G

RAL Database
(Electronic Data on CD-ROM)